ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Self-Assessment Report: Online Survey Results

V. Dolničar, T. Burnik, N. Berzelak, M. Šetinc, S. Hvalič Touzery

University of Ljubljana, Slovenia

vesna.dolnicar@fdv.uni-lj.si

Introduction

ITHACA
Interreg Europe

This report summarizes the results of Self-Assessment tool online survey.

Aim of the survey was to evaluate strengths and weakness related to policy, ecosystems and innovations in the field of smart health and care and the learning process, in 9 ITHACA partner regions.

Data collection took place between December 4th 2017 and January 14th 2018.

2

Contents

Sample & Respondents ...s.4

Results Summary

General ...s.9

Breakdown by region ...s.13

Breakdown by type of organization ...s.17

Detailed overview of the results ...s.21

Detailed sample characteristics ...s.47

Appendixes

Wordings of survey questions ...s.59

9 regional reports ...s.63

3

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

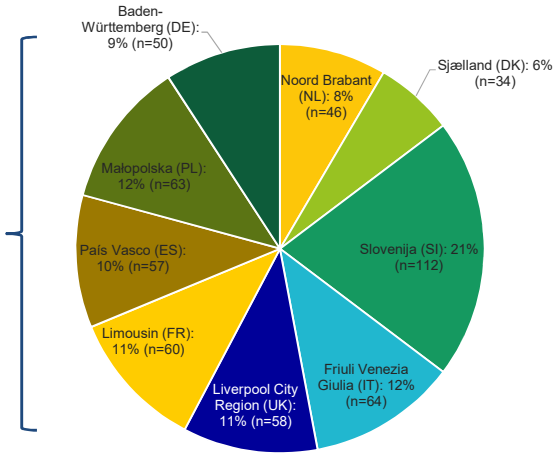
Sample & Respondents

ITHACA SURVEY BASICS

In total, 544 of stakeholders across nine European regions have responded to the ITHACA SA Survey. The highest absolute numbers of responses were collected in Slovenia, Italy and Poland, and the lowest in Denmark and the Netherlands.

TOTAL RESPONSES
544

Note: Additionally, 4 responses from non listed regions were collected. But are excluded from further analysis.

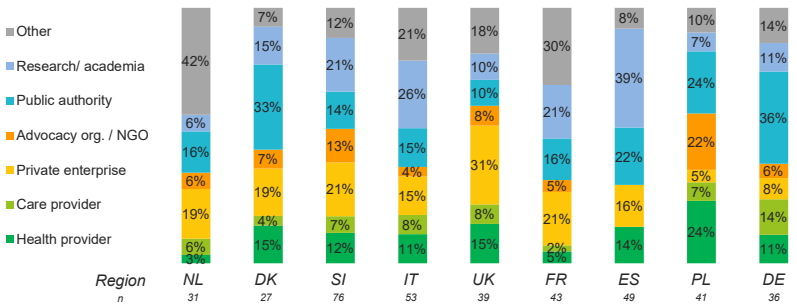


5

TYPE OF ORGANIZATION

Poland has the highest share of respondents from health providing organizations (24%), while the Netherlands and France have the lowest. The share of respondents from private enterprises is the highest in the UK (39%).

What type is your organization?



6

OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

In what fields does your organization operate?

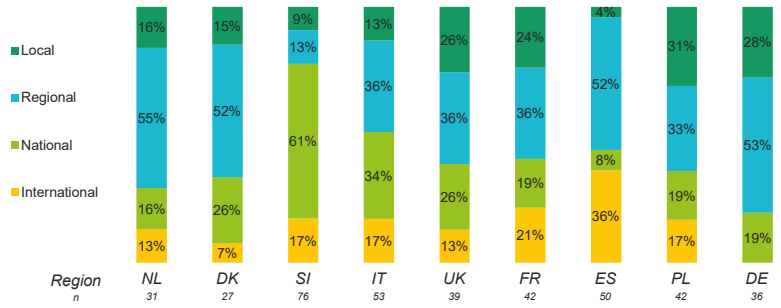
Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

7

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

What is the main scope of the organization?



8

ITHACA

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Results Summary

General

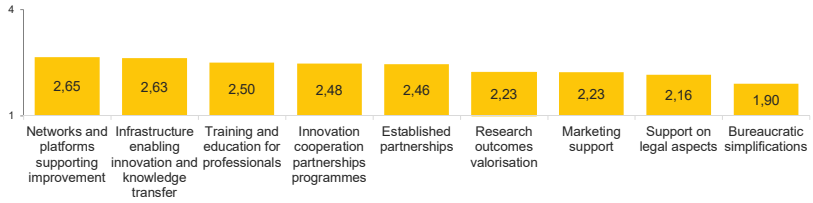
9

ITHACA
Interreg Europe

INNOVATION SUPPORT SERVICES

Networks and platforms supporting improvement is on average the highest rated extent of Support services items, closely followed by *Infrastructure enabling innovation and knowledge transfer*, while *Bureaucratic simplifications* and *Research outcomes valorization* have the lowest ratings.

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent)*.



Note: Average mean values presented above are calculated as the average of regional mean values.

10

DEVELOPMENT & USE OF INNOVATIVE PRODUCTS & SERVICES

New ideas are rated as the most intensively occurring development in the field, followed by *Innovative products and services*. The average mean value is somewhat lower for the intensity of *Daily usage of innovative products and services*.

How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region? *Scale 1 (Very low intensity) to 5 (Very high intensity)*.

Note: Average mean values presented above are calculated as the average of regional mean values.

11

REGIONAL POLICY FRAMEWORK

Influencing initiatives funding decisions has the highest average mean value among the regional policy framework facets, followed somewhat distantly by *Lead for initiatives*. The lowest average mean values were recorded for *Transnational knowledge and experience exchange*, *Integrating services into publicly-funded systems* and *Services deployment plans*.

To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree)*.

Note: Average mean values presented above are calculated as the average of regional mean values.

12

ITHACA

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Results Summary

Breakdown by region

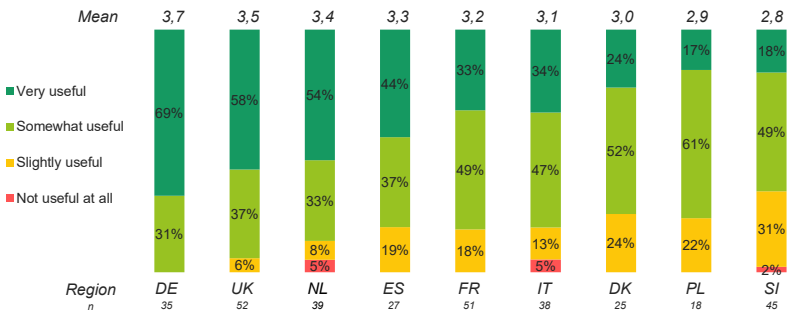
13

ECOSYSTEM - Usefulness of involvement

ITHACA
Interreg Europe

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.

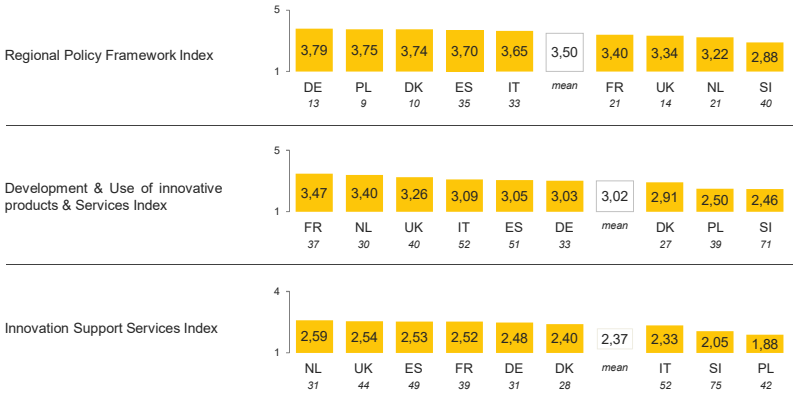


Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

14

INNOVATION & POLICY INDICES

Composite indices are presented below. The highest average score on innovation support services was recorded in **the Netherlands** and the lowest in **Poland**. According to respondents the development and use of innovative products and services is the highest in France and the Netherlands, and the lowest in Slovenia and Poland. Regional policy framework on the other hand, is rated highly in **Germany**, **Poland** and **Denmark**, whereas in **Slovenia** it is distinctively lower.



Note: Composite Regional indices are calculated as an average of participants' average score on all items within the same theme. Items for Innovation Support Service Index: Q13a to Q13i. Items for Development & Use of innovative products & Services Index: Q15a, Q15b and Q15c. Items for Regional Policy Framework Index: Q19a to Q19g.

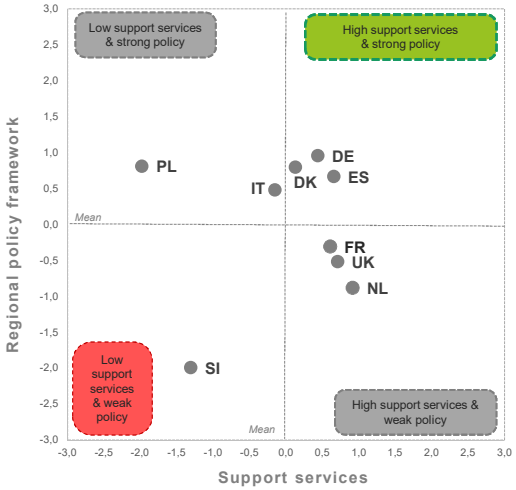
15

REGION POSITIONING

In comparison of regions by innovation support services index and regional policy framework index, **Spain** and **Germany** are positioned as regions with high support services and strong policy, while **Slovenia** is positioned as a region with low support services and the weakest regional policy. Poland, on the other hand, is positioned as a region with strong policy but low support services, while in the Netherlands the situation is reversed.

Note: Regional Support services Indices on X axis and Regional policy framework indices on Y axis.

Values on both dimensions (Support services and Policy framework) have been standardized to neutralize the effect of different measurement scales.



16

ITHACA

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Results Summary

Breakdown by type of organization

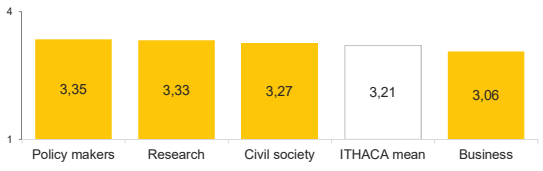
17

ITHACA
Interreg Europe

ECOSYSTEM - Usefulness of involvement

Policy makers and **Research** organizations are those who find involvement in the innovation cooperation partnerships most useful, with averages values of 3,35 and 3,33 respectively. The two types of organization are closely followed by Civil society (3,27), while **Business** organizations have rather lower average that stands at 3,06.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Notes:
Sample: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.
Means: In the first step the average value for a specific type of organization in every region was calculated, in second step, the average across all regions was calculates.
THACA mean: Ithaca mean is the average of regional averages.
Categories: Health providers, Care providers and NGO's are collapsed into the single category „Civil society".

18

INNOVATION & POLICY INDICES

Composite indices are presented below. Regional policy framework is rated highly by **Research** organizations and **Policy makers,** and somewhat lower by **Civil society** and **Business** organizations. Likewise, the development and use of innovative products and services is perceived the highest by Policy makers and Research organizations, and the lowest by Civil society and Business. The highest average score on innovation support services was recorded amongst Research organizations and Policy makers, again, the lowest rates were recorded for Civil society and Business.

Note: Composite indices are calculated as an average of participants' average score on all items within the same theme. Items for Innovation Support Service Index: Q13a to Q13l. Items for Development & Use of innovative products & Services Index: Q15a, Q15b and Q15c. Items for Regional Policy Framework Index: Q19a to Q19g. Categories: Health providers, Care providers and NGO's are collapsed into the single category „Civil society".

19

Analysis by type of organization

Due to small absolute samples sizes for organizational types within the regions, a reliable analysis by type of organization could not be performed. Therefore the detailed results are not shown in this report. However, we found patterns in the results that indicate that in many cases items were systematically rated higher by **Policy makers** and **Research** organizations than by **Civil society** and **Business organization**. This holds for items in questions Q13 *Support services* and Q15 *Development & Use of innovative products & Services*.

The picture is less clear in Q17 *Innovation phases* question where three out of seven items (Q17a *Basic research phase*, Q17b *Technology research and development phase* and Q17d *Demonstration and/or prototyping phase*) were rated higher by Business organizations comparing to other types of organizations. This leads us to the conclusion that the ratings of items are highly dependent on the type of organization and their primary working scope. While organizations recognize (or are aware of) progress in their working scope, the progress in areas not covered by the organizations is not recognized (or is simply not noticed).

Some interesting insights can be provided regarding the importance and use of learning instruments. Business organizations ascribe great importance to Online-Courses and webinars comparatively to other type of organizations and at the same time they report the highest use of it. While Civil societies can be characterized by high use of Internet & Social media, Advanced training, In-house training.

Furthermore, Civil society stakeholders have the highest average values on Lack of resources, Lack of travel budget, Lack of expertise and Lack of interest as factors that prevent them from learning with others.

20

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

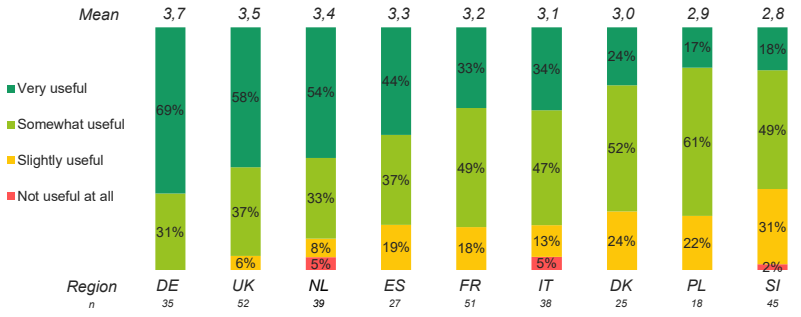
Detailed overview of the results

ECOSYSTEM - Usefulness of involvement

ITHACA
Interreg Europe

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



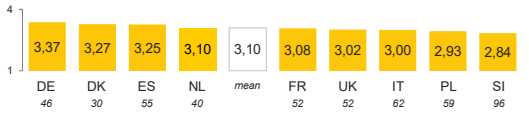
Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

22

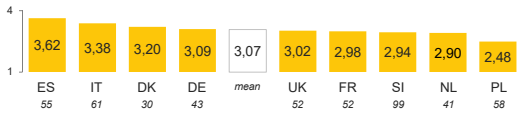
ECOSYSTEM – Regional collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within your region? *Scale 1 (Not at all) to 4 (To a large extent).*

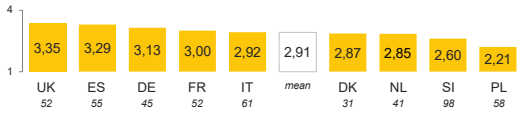
Public administration: different departments at different government levels, agencies, business advice, public procurement offices, incubators, etc.



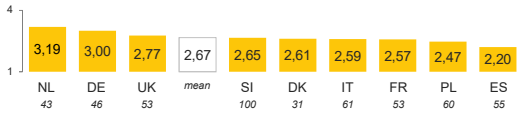
Research & education: public and private research bodies, universities, education and training, science and technology parks, technology transfer offices, etc.



Business: manufacturing and services, primary sector (such as agriculture), financial sector, creative industries, social sector, large firms, small and medium enterprises (SMEs), cluster and business organisations.



Civil society / Citizens: non-governmental organizations (NGOs) and citizens' initiatives related to societal challenges, consumers' associations, etc.

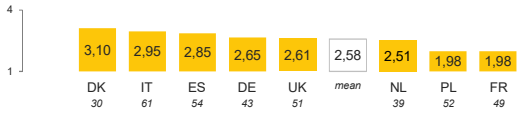


23

ECOSYSTEM – National collaboration

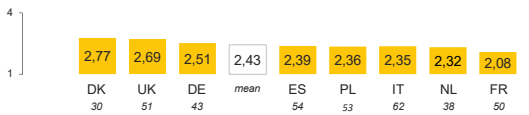
To what extent does your organization collaborate with the following actors in the fields of health and care within other regions in your country? *Scale 1 (Not at all) to 4 (To a large extent).*

Research & education: public and private research bodies, universities, education and training, science and technology parks, technology transfer offices, etc.

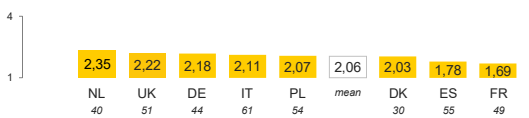


Business: manufacturing and services, primary sector (such as agriculture), financial sector, creative industries, social sector, large firms, small and medium enterprises (SMEs), cluster and business organisations.

Public administration: different departments at different government levels, agencies, business advice, public procurement offices, incubators, etc.



Civil society / Citizens: non-governmental organizations (NGOs) and citizens' initiatives related to societal challenges, consumers' associations, etc.

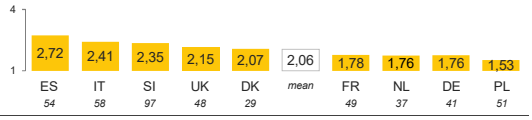


24

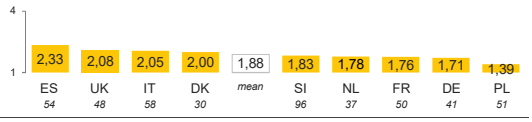
ECOSYSTEM – European collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other EU countries? *Scale 1 (Not at all) to 4 (To a large extent).*

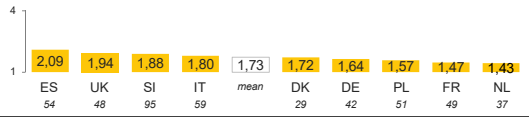
Research & education: public and private research bodies, universities, education and training, science and technology parks, technology transfer offices, etc.



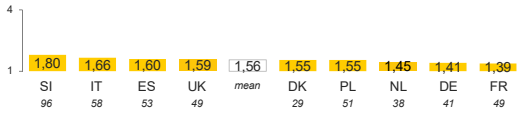
Business: manufacturing and services, primary sector (such as agriculture), financial sector, creative industries, social sector, large firms, small and medium enterprises (SMEs), cluster and business organisations.



Public administration: different departments at different government levels, agencies, business advice, public procurement offices, incubators, etc.



Civil society / Citizens: non-governmental organizations (NGOs) and citizens' initiatives related to societal challenges, consumers' associations, etc.

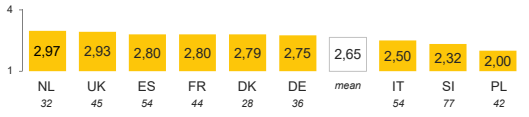


25

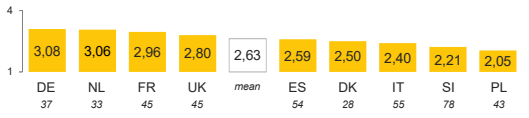
INNOVATION - Support services 1

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

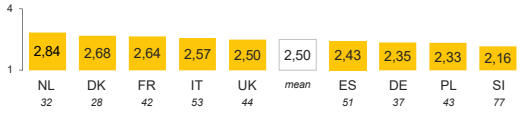
Established knowledge networks, collaboration platforms to support continuous improvement.



Established infrastructure which enables development of innovation and knowledge transfer..



Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.



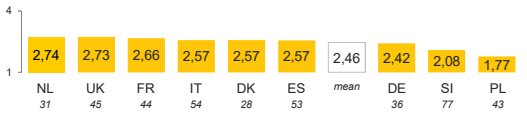
26

INNOVATION - Support services 2

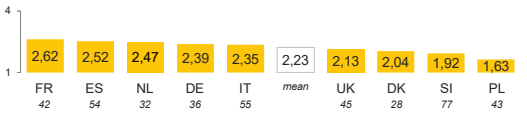
In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

Programs for innovation cooperation partnerships.

Established public-private partnerships.



Support for the valorisation of research outcomes.

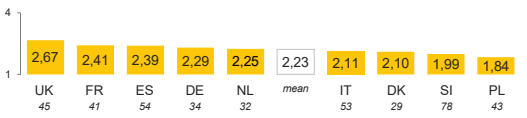


27

INNOVATION - Support services 3

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

Support for bringing products and services to the market and growing market share.



Support on legal aspects including intellectual property rights, procurement, regulation.

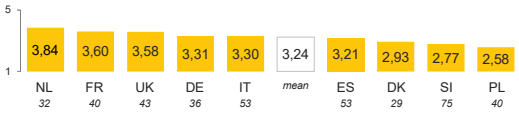
Procedural and administrative simplifications.

28

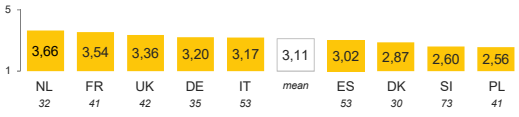
INNOVATION – Development and use of innovative products and services

How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region? *Scale 1 (Very low intensity) to 5 (Very high intensity).*

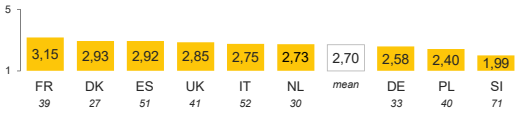
Development of new ideas related to smart health and care solutions in your region?



Development of innovative products and services for smart health and care in your region?



Use of innovative smart health and care products and services in practice on a daily basis in your region.

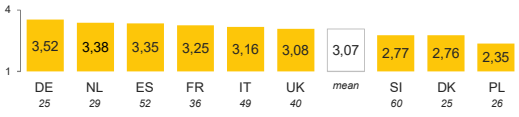


29

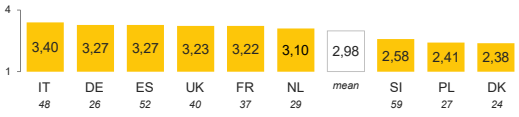
INNOVATION - Phases 1

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*

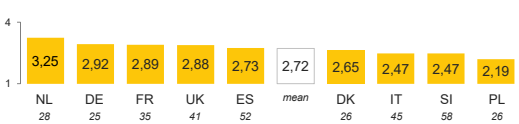
Technology research and development phase (R&D) (R&D is the creation of knowledge to be used in products or processes)



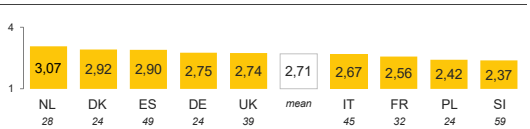
Basic research phase (refers to scientific research aimed to improve scientific theories for improved understanding or prediction of natural or other phenomena)



Demonstration and/or prototyping phase (demonstration activities such as testing and development of prototypes)



Redesign of pathway, service and practice models (the process of changing the processes to facilitate deployment of an innovation)

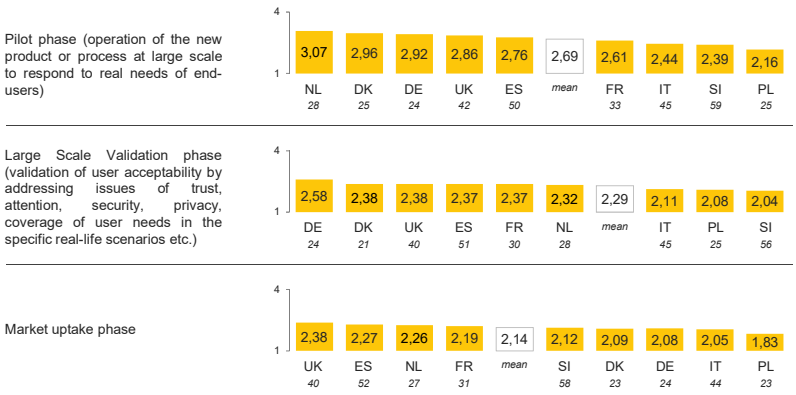


Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

30

INNOVATION - Phases 2

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*



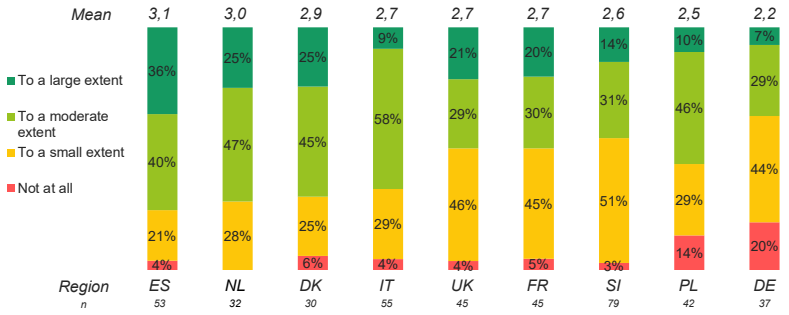
Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

31

POLICY - Information

The share of respondents that are to a large or moderate extent informed about regional policy, strategies and programs is highest in **Spain**, **the Netherlands** and **Denmark**, and the lowest in Slovenia and Germany. The share of respondents who claim that are not informed at all is the highest in **Poland** and **Germany**.

To what extent are you informed about the regional policy, strategies, and programs in the field of smart health and care?

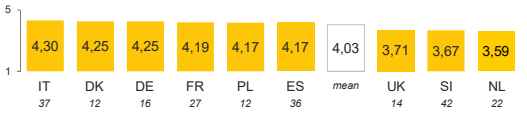


32

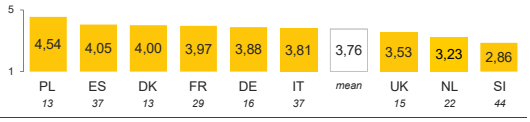
POLICY - Framework 1

To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*

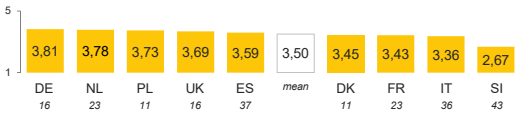
The region's policy framework influences funding decisions to support initiatives in the field of smart health and care solutions.



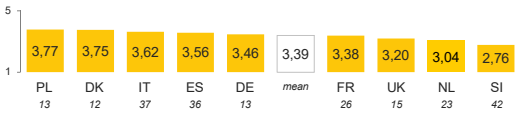
The region's policy framework provides a lead for legitimating setting-up and implementing initiatives in the fields of smart health and care solutions.



Regional policy makers stimulate innovation cooperation partnerships approach to an inclusive engagement strategy that encourages commitment and creates a close cooperation.



The region's policy framework provides policy guidelines and a legal framework that helps the private and public sectors work together to implement smart health and care services.



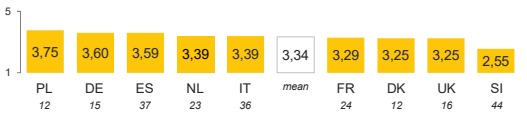
Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

33

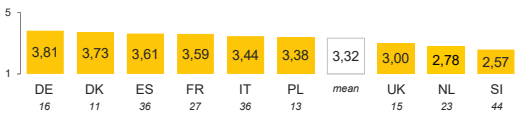
POLICY - Framework 2

To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*

The region's policy framework explicitly supports transnational knowledge and experience exchange in the field of smart health and care.



The region's policy framework supports integration of smart health and care services into the publicly-funded health and care system.



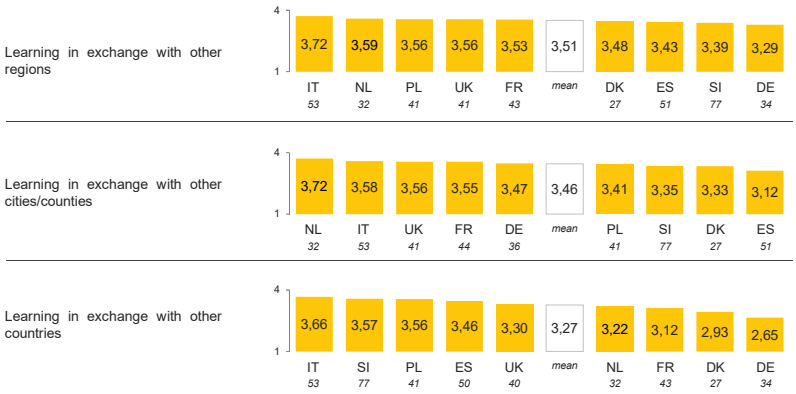
The region's policy framework provides support for developing a clear implementation plan for successful deployment of smart health and care solutions.

Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

34

LEARNING - Importance to learn in exchange

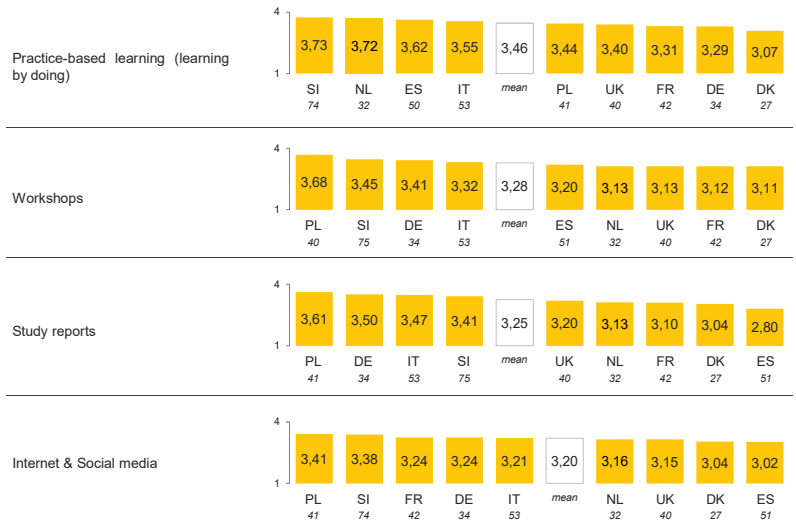
How important is it for your work to learn in exchange with experts and other stakeholders within your own region/country or from other cities/counties, regions and countries? *Scale 1 (Not important at all) to 4 (Very important).*



35

LEARNING - Importance of channels / instruments / approaches 1

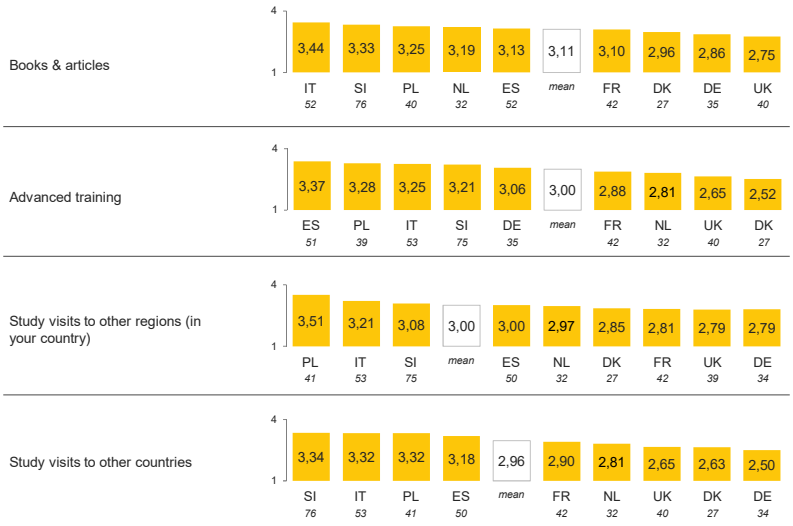
Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



36

LEARNING - Importance of channels / instruments / approaches 2

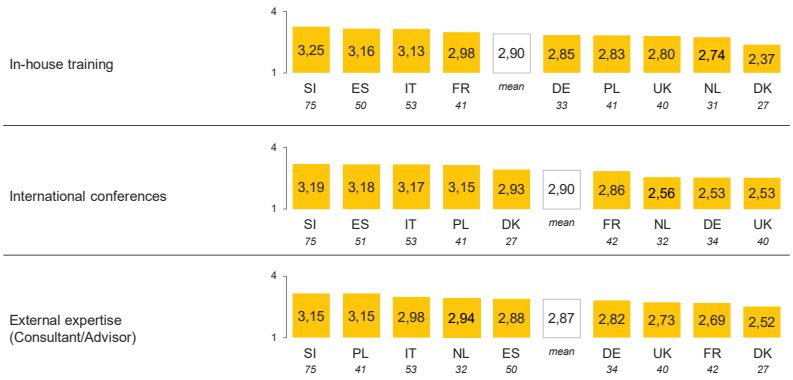
Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



37

LEARNING - Importance of channels / instruments / approaches 3

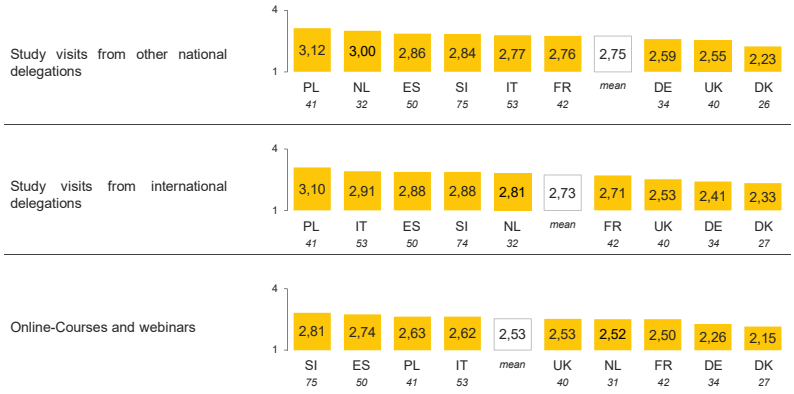
Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



38

LEARNING - Importance of channels / instruments / approaches 4

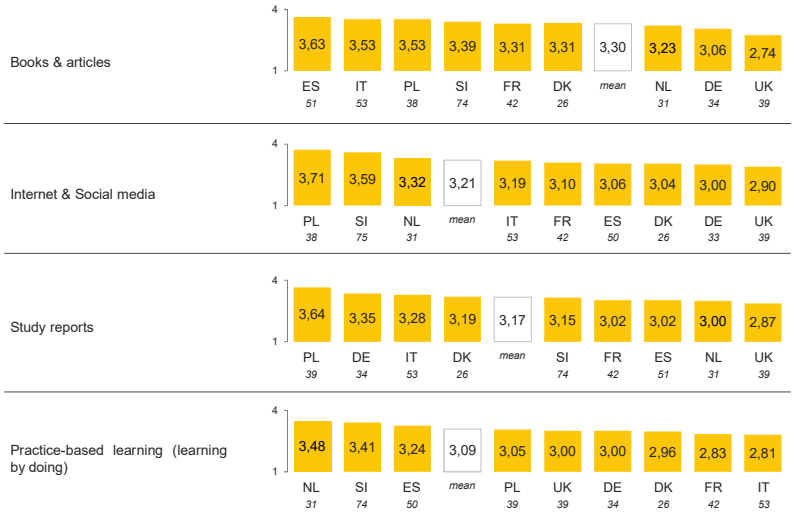
Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



39

LEARNING - Use of instruments 1

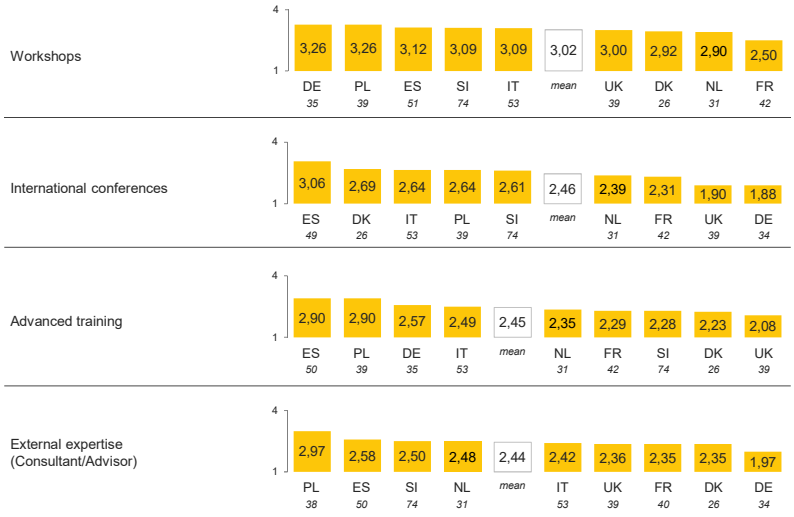
To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



40

LEARNING - Use of instruments 2

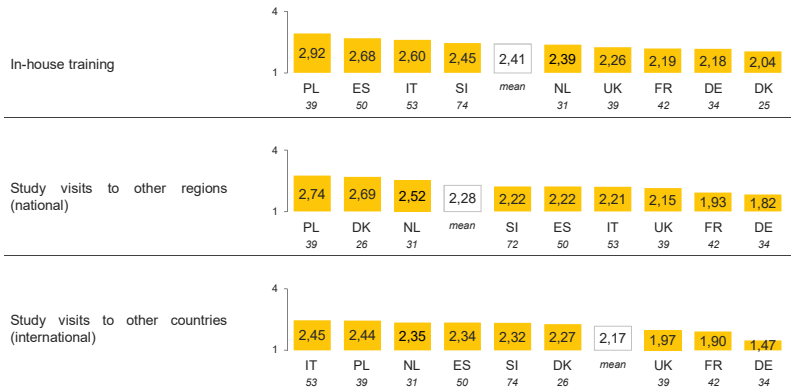
To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



41

LEARNING - Use of instruments 3

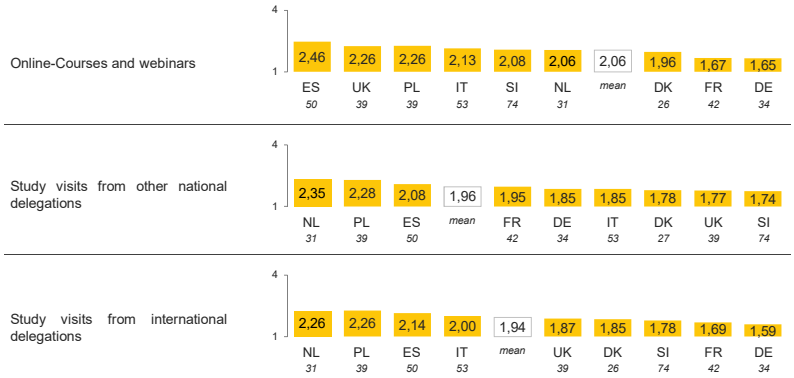
To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



42

LEARNING - Use of instruments 4

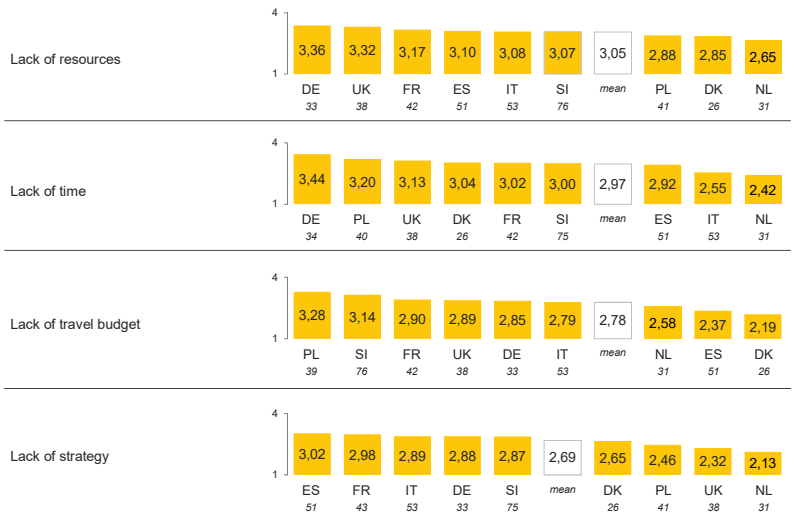
To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



43

LEARNING - Barriers 1

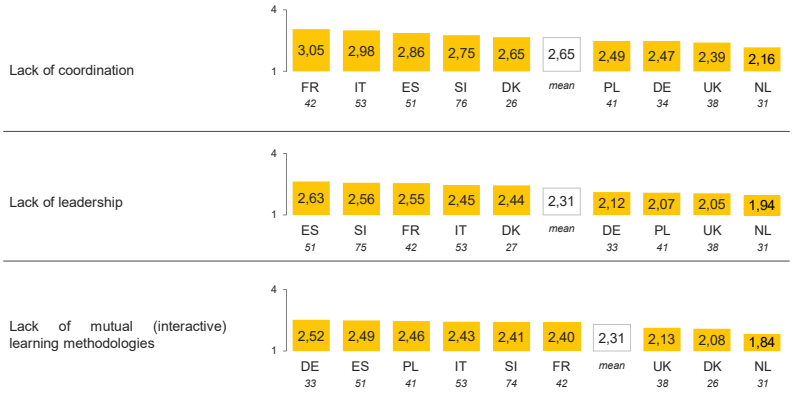
To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



44

LEARNING - Barriers 2

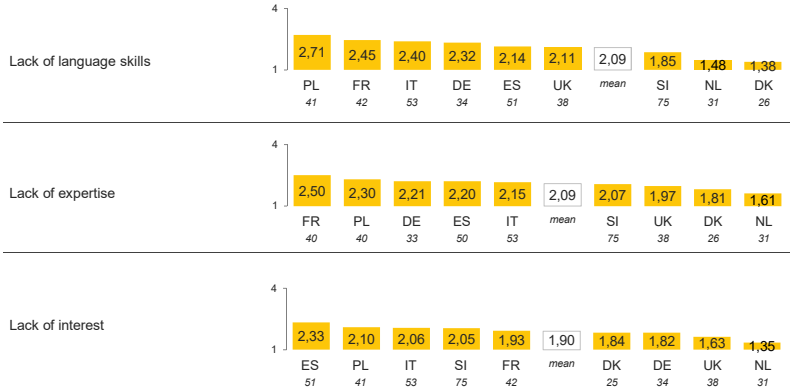
To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



45

LEARNING - Barriers 3

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



46

ITHACA
Interreg Europe

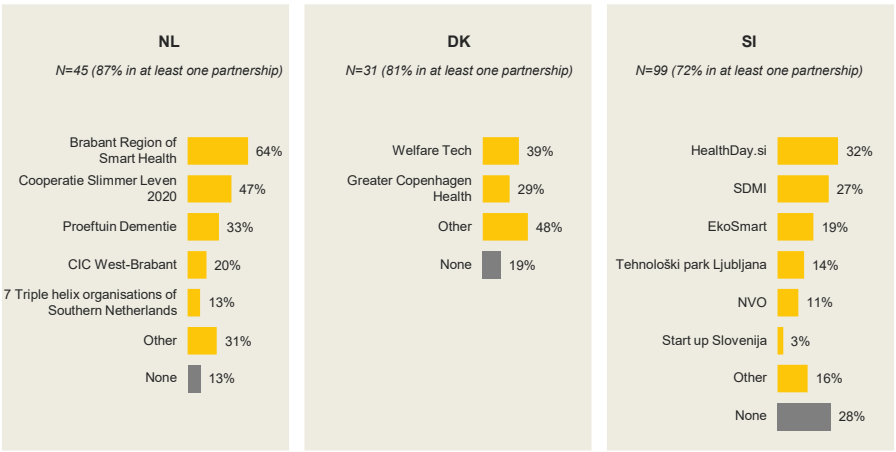
European Union
European Regional
Development Fund

Detailed sample characteristics

COOPERATION PARTNERSHIPS INVOLVEMENT 1

ITHACA
Interreg Europe

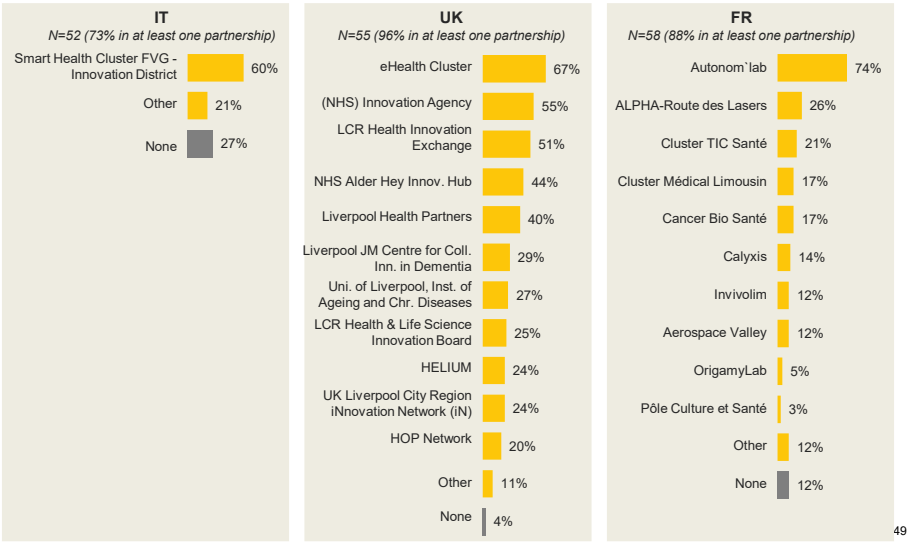
Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



48

COOPERATION PARTNERSHIPS INVOLVEMENT 2

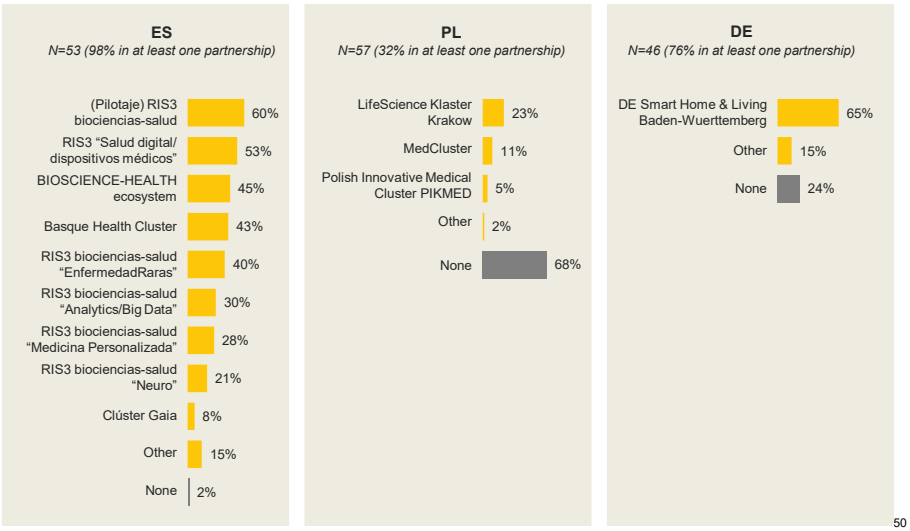
Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



49

COOPERATION PARTNERSHIPS INVOLVEMENT 3

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?

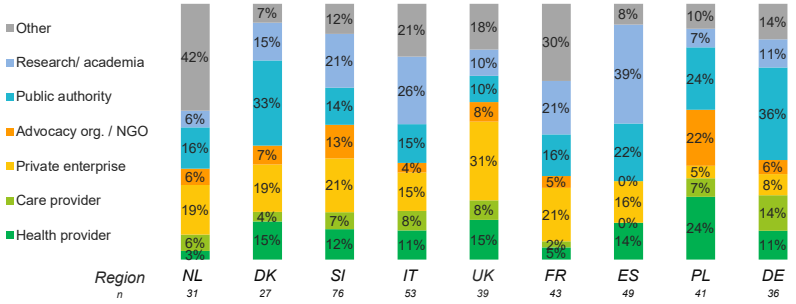


50

TYPE OF ORGANIZATION

Poland has the highest share of respondents that are health providers (24%) while the Netherlands and France have the lowest. UK has the highest share of respondents that are private enterprises (39%).

What type is your organization?

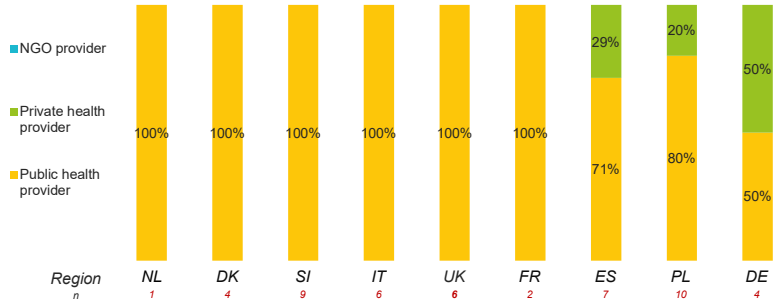


51

TYPE OF HEALTH PROVIDER

Although the samples are very small, the results indicate that in almost all regions a vast majority of health providers are public organizations.

What type of health provider is your organization?



52

TYPE OF CARE PROVIDER

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

What type of care provider is your organization?

53

TYPE OF ADVOCACY

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

What type of advocacy does your organization provide?

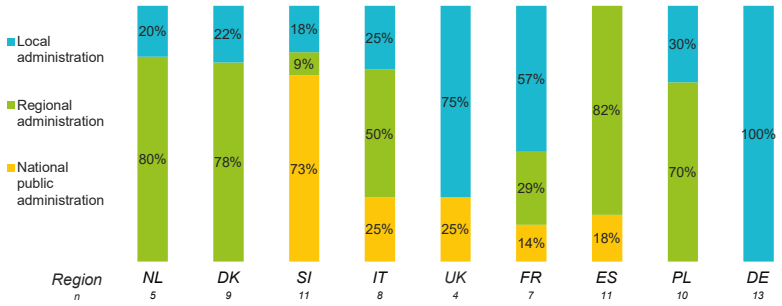
Region	n	H. CARE PROFESSIO-NALS	OLDER PEOPLE	PATIENTS	INFORMAL CAREGIVERS	OTHER
NL	2		50%	50%		100%
DK	2				50%	50%
SI	10		70%		20%	30%
IT	2		50%			50%
UK	3	67%	67%	67%	67%	33%
FR	2	50%			50%	
ES	0					
PL	4		50%		25%	75%
DE	2		50%	50%	50%	50%

54

LEVEL OF PUBLIC AUTHORITY

Although the samples are very small, the results indicate that Slovenian public organizations mostly have national authority, German public organizations have local authority, while Spanish and Polish mostly have regional authority.

What level of authority is your organization?



55

OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

In what fields does your organization operate?

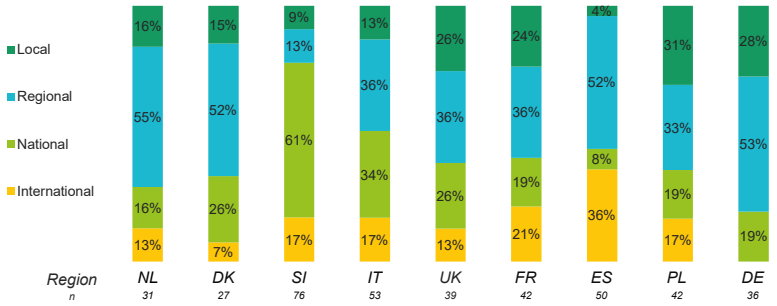
Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

56

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

What is the main scope of the organization?

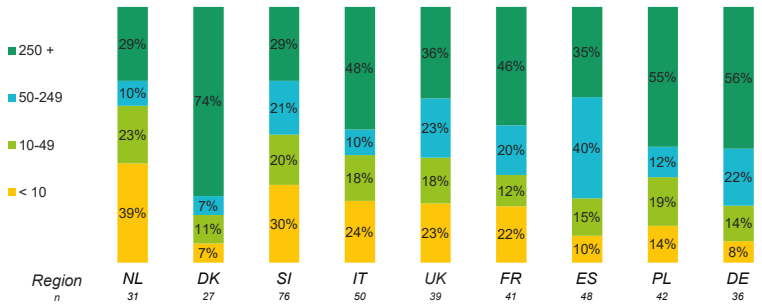


57

NUMBER OF EMPLOYEES

All regions have a noticeable share of organizations with more than 250 employees, the highest share was recorded in Denmark (74%), while in the Netherlands and Slovenia it is the lowest and stands at 29% in both regions. The Netherlands and Slovenia also have the highest share of organizations with less than 10 employees, 39% and 30% respectively.

How many employees does your organization have?



58

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Appendix 1: Wordings of survey questions

Input for "Regional Policy Framework Index"

Survey Question: *Thinking about the current policy framework in your region, to what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region?*

Scale: 1 [Don't agree at all] to 5 [Agree completely]

- The region's policy framework provides a lead for legitimating setting-up and implementing initiatives in the fields of smart health and care solutions.
- The region's policy framework influences funding decisions to support initiatives in the field of smart health and care solutions.
- The region's policy framework provides policy guidelines and a legal framework that helps the private and public sectors work together to implement smart health and care services.
- The region's policy framework supports integration of smart health and care services into the publicly-funded health and care system.
- The region's policy framework provides support for developing a clear implementation plan for successful deployment of smart health and care solutions.
- Regional policy makers stimulate innovation cooperation partnership approach to an inclusive engagement strategy that encourages commitment and creates a close cooperation between public authorities, education and research institutions, business, and citizens/patients.
- The region's policy framework explicitly supports transnational knowledge and experience exchange in the field of smart health and care.

Input for “Innovation Support Service Index”

Survey Question: *In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region?*

Scale: 1 [Not at all] to 4 [To a large extent]

- Establish infrastructure which enables development of innovation and knowledge transfer, for example living labs, demonstrators, test sites, show rooms, easily accessible research environments, clinical trials, open source facilities.
- Established knowledge networks, collaboration platforms to support continuous improvement.
- Established public-private partnerships.
- Support for bringing products and services to the market and growing market share.
- Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.
- Procedural and administrative simplifications.
- Programs for innovation cooperation partnerships.
- Support for the valorisation of research outcomes.
- Support on legal aspects including intellectual property rights, procurement, regulation.

Input for “Development & Use of innovative products & Services Index”

Survey Question: *How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region?*

Scale: 1 [Very low intensity] to 5 [Very high intensity]

- Development of new ideas related to smart health and care solutions in your region?
- Development of innovative products and services for smart health and care in your region?
- Use of innovative smart health and care products and services in practice on a daily basis in your region.

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Appendix 2: 9 regional reports (Survey results for regional meetings)

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Report 1: Noord Brabant (Netherlands)

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Sample & Respondents

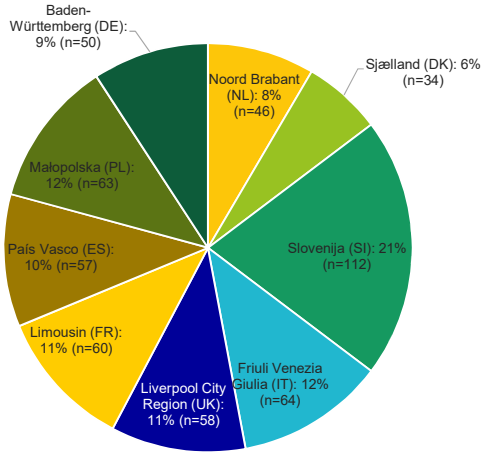
Input for „Intro to the theme“

ITHACA SURVEY BASICS

In total, 544 of stakeholders across nine European regions have responded to the ITHACA SA Survey. The highest absolute numbers of responses were collected in Slovenia, Italy and Poland, and the lowest in Denmark and the Netherlands.

TOTAL RESPONSES
544

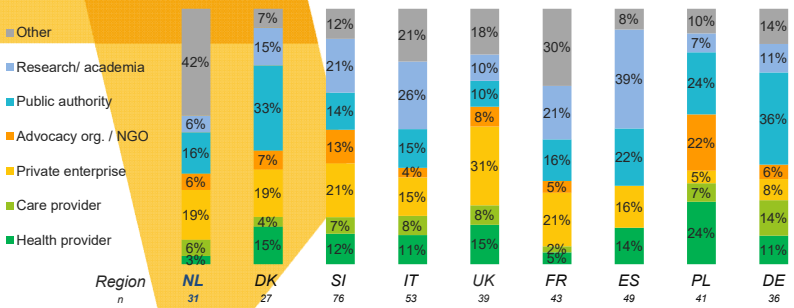
Note: Additionally, 4 responses from non listed regions were collected. But are excluded from further analysis.



TYPE OF ORGANIZATION

Poland has the highest share of respondents from health providing organizations (24%), while the Netherlands and France have the lowest. The share of respondents from private enterprises is the highest in the UK (39%).

What type is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

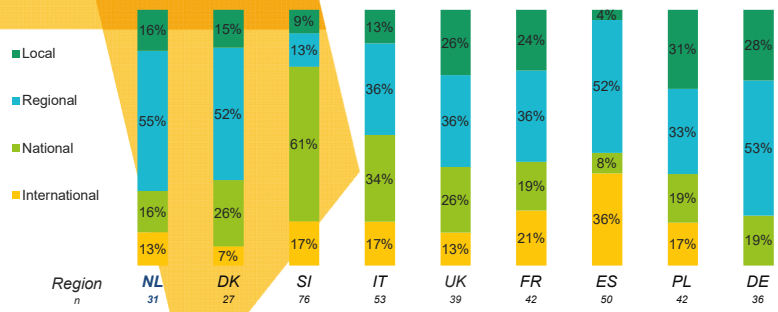
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

What is the main scope of the organization?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

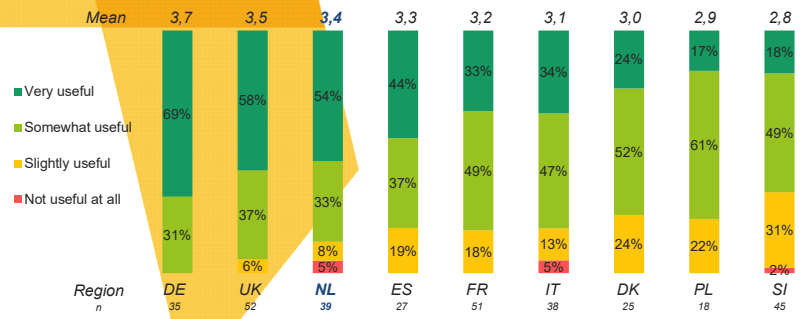
Results Summary

Input for „Intro to the theme“

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

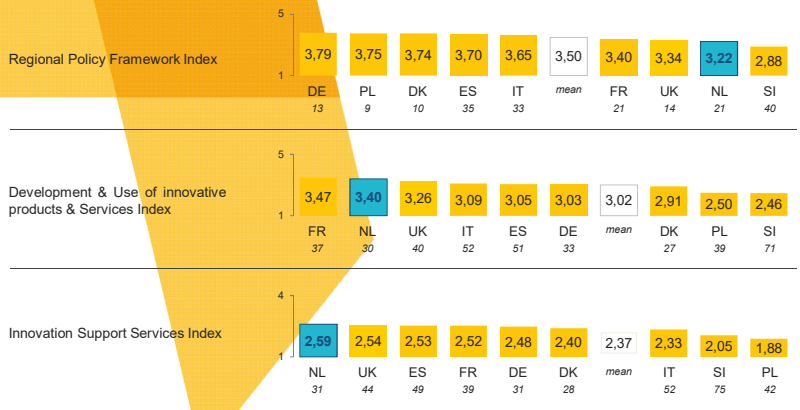
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION & POLICY INDICES

Composite indices are presented below. The highest average score on innovation support services was recorded in **the Netherlands** and the lowest in **Poland**. According to respondents the development and use of innovative products and services is the highest in France and the Netherlands, and the lowest in Slovenia and Poland. Regional policy framework on the other hand, is rated highly in **Germany**, **Poland** and **Denmark**, whereas in **Slovenia** it is distinctively lower.



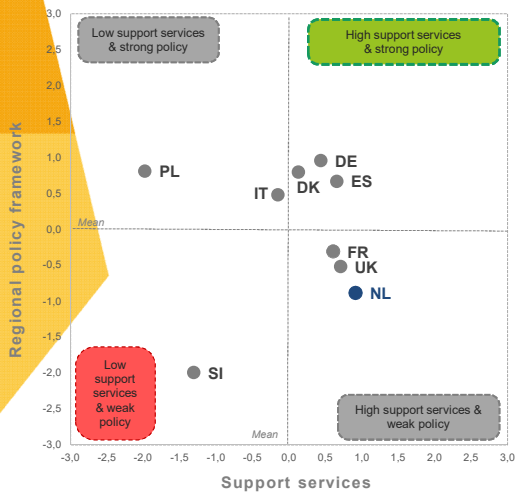
Note: Composite Regional indices are calculated as an average of participants' average score on all items within the same theme. Items for Innovation Support Service Index: Q13a to Q13i. Items for Development & Use of innovative products & Services Index: Q15a, Q15b and Q15c. Items for Regional Policy Framework Index: Q19a to Q19g.

REGION POSITIONING

In comparison of regions by innovation support services index and regional policy framework index, **Spain** and **Germany** are positioned as regions with high support services and strong policy, while **Slovenia** is positioned as a region with low support services and the weakest regional policy. Poland, on the other hand, is positioned as a region with strong policy but low support services, while in the Netherlands the situation is reversed.

Note: Regional Support services Indices on X axis and Regional policy framework indices on Y axis.

Values on both dimensions (Support services and Policy framework) have been standardized to neutralize the effect of different measurement scales.



ITHACA
Interreg Europe

European Union
European Regional Development Fund

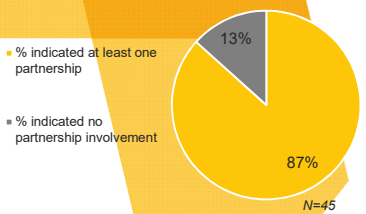
NL Highlights

Input for „World cafe“

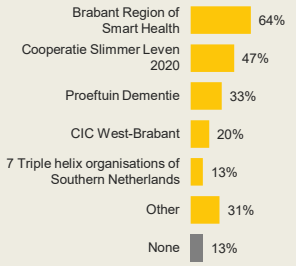
ECOSYSTEM – Cooperation partnership involvement

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?

Involvement in at least one cooperation partnership:



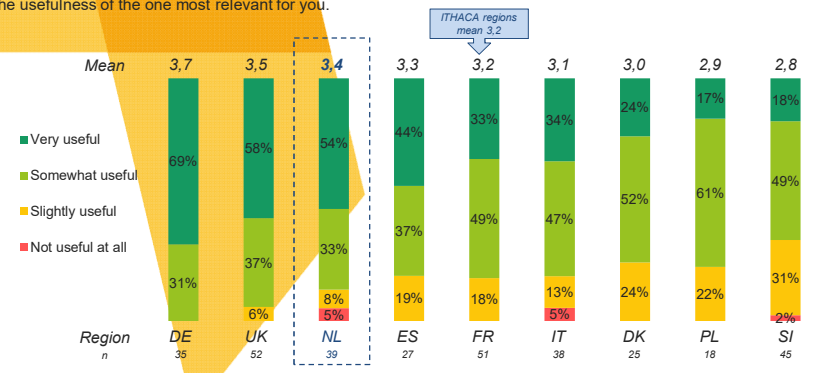
NL (*N=45*)



ECOSYSTEM - Usefulness of involvement

On a scale from 1 *(Not useful at all)* to 4 *(Very useful)*, the Netherlands region has the third highest average value amongst the ITHACA regions, with more than a half of respondents (54%) finding the involvement very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

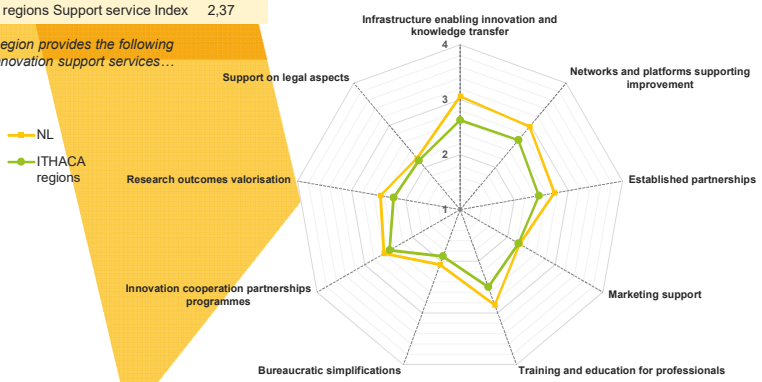
INNOVATION - Support services

The Netherlands Support Services Index is higher than the average index value of ITHACA regions. The rated extent of services is above the average for all measured aspects. However, *Marketing support* and *Support on legal aspects* are just slightly above the average.

Within the region, *Infrastructure enabling innovation and knowledge transfer* (3,06) has on average the highest rated extent of all Support services items, followed by *Networks and platforms supporting improvement* (2,97), while *Bureaucratic simplifications* (2,06), *Support on legal aspects* (2,22) and *Marketing support* (2,25) have the lowest ratings.

NL Support Services Index	**2,59**
ITHACA regions Support service Index	2,37

Region provides the following innovation support services…



Note: Regional index is based on respondents who answered all items within theme (Q13a to Q13i). Global index is a simple average over ITHACA regions, where units are regions.

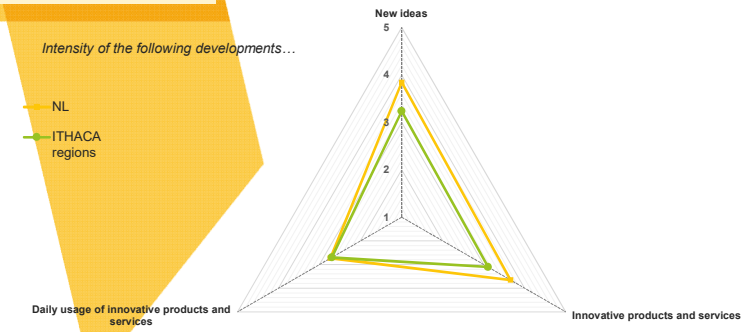
INNOVATION - Development & use of innovative products & services

The Netherlands Development & Use of innovative Products & Services Index is higher than the average index value of ITHACA regions. The rated intensities of *New Ideas and Innovative products and services* are well above the average, while the intensity for *Daily usage of innovative products and services* is just slightly above the average.

Within the region, *New ideas* (3,84) are rated as the most intensively occurring development in the field, followed by *Innovative products and services* (3,66). The value is rather lower for the intensity of *Daily usage of innovative products and services* (2,73).

NL Development & Use of innovative products & Services Index	**3,40**
ITHACA regions Development & Use of innovative products & Services Index	3,02

Intensity of the following developments…



Note: Regional index is based on respondents who answered all items within theme (Q15a to Q15c). Global index is a simple average over ITHACA regions, where units are regions.

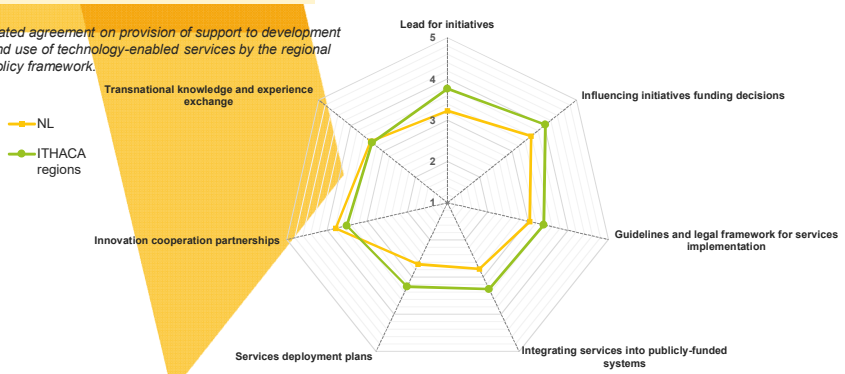
POLICY – Regional Policy Framework

NL Regional Policy Index is somewhat lower than the average index value of ITHACA regions. This is also true for most individual items, except for *Transnational knowledge and experience exchange* and *Innovation cooperation partnerships*, which are similar to and slightly above the ITHACA average, respectively.

Within the region, *Innovation cooperation partnerships* (3,78) has the highest average value among the regional policy framework facets, somewhat distantly followed by *Influencing initiatives funding decisions* (3,59). The lowest average values were recorded for *Services deployment plans* (2,65) and *Integrating services into publicly-funded systems* (2,78).

NL Policy Framework Index	**3,22**
ITHACA regions Policy Framework Index	3,50

Rated agreement on provision of support to development and use of technology-enabled services by the regional policy framework.

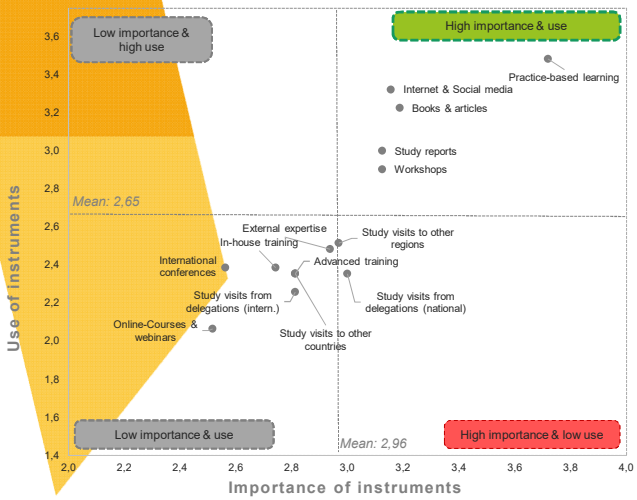


Note: Regional index is based on respondents who answered all items within theme (Q19a to Q19g). Global index is a simple average over ITHACA regions, where units are regions.

LEARNING – Relative importance & use of instruments

In NL the most important and most used instruments in practice from a relative point of view are: **Practice-based learning**, **Internet and social media** and **Books & articles**. None of the instruments has a high relative discrepancy between the importance and use – but Study visits from delegations (national) and Study visits to other regions do have above the average importance and below average use.

***Sample sizes** for presented instruments and their use/importance vary from 31 to 32.*



Note: Measurement scale for importance and use goes from 1 to 4.

ITHACA
Interreg Europe

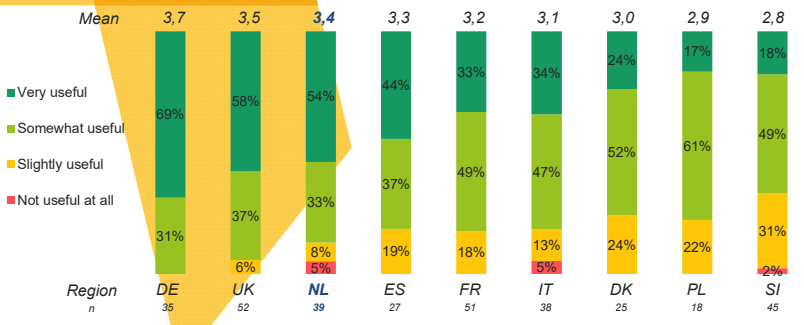
European Union
European Regional
Development Fund

Detailed overview of the results

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

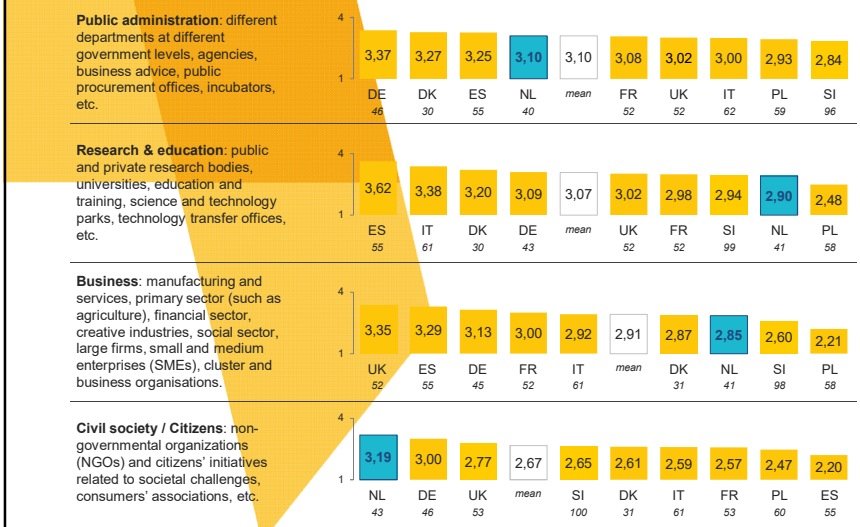
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

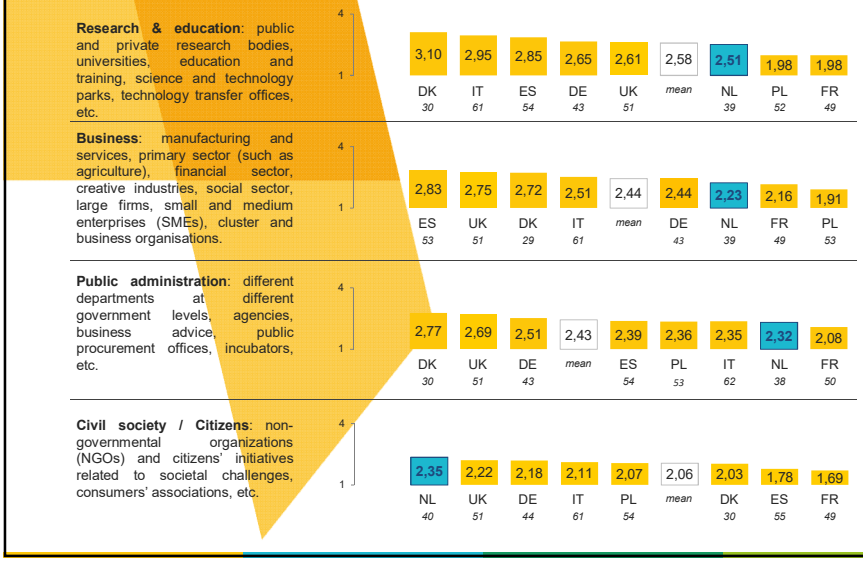
ECOSYSTEM – Regional collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within your region? *Scale 1 (Not at all) to 4 (To a large extent).*



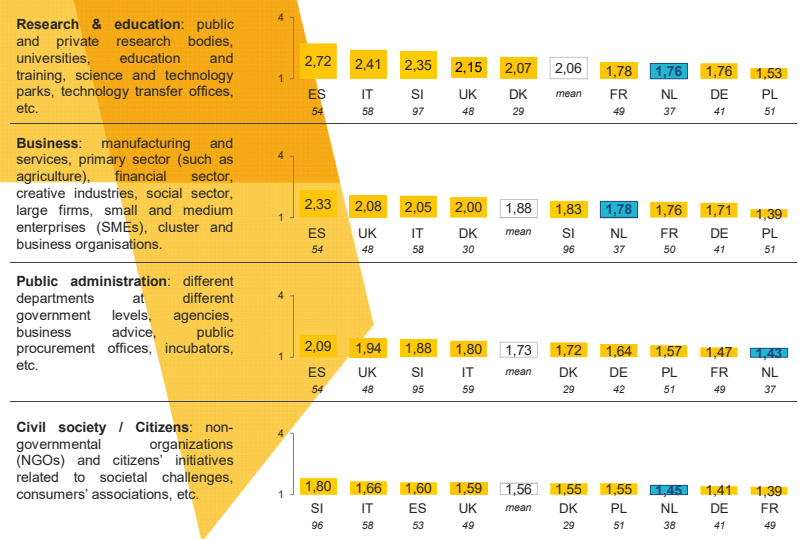
ECOSYSTEM – National collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other regions in your country? *Scale 1 (Not at all) to 4 (To a large extent).*



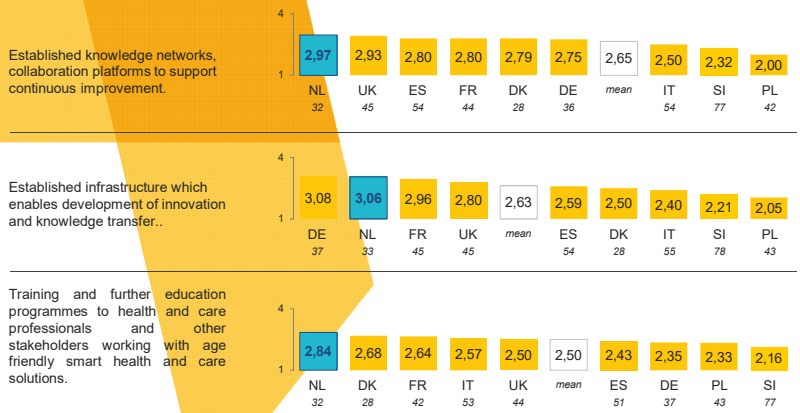
ECOSYSTEM – European collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other EU countries? *Scale 1 (Not at all) to 4 (To a large extent).*



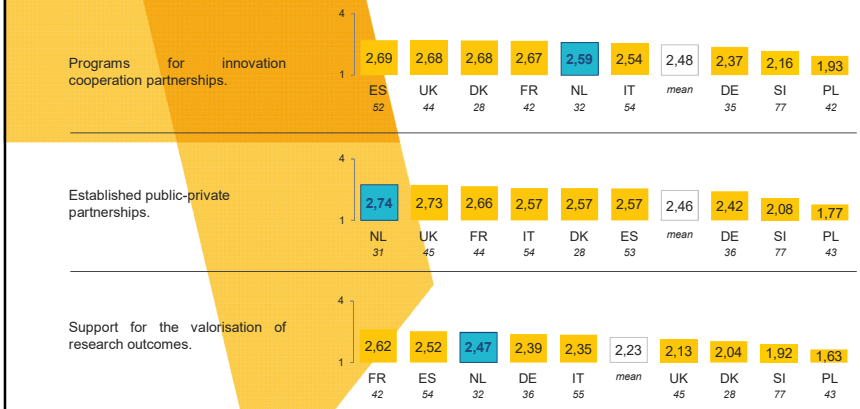
INNOVATION - Support services 1

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*



INNOVATION - Support services 2

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

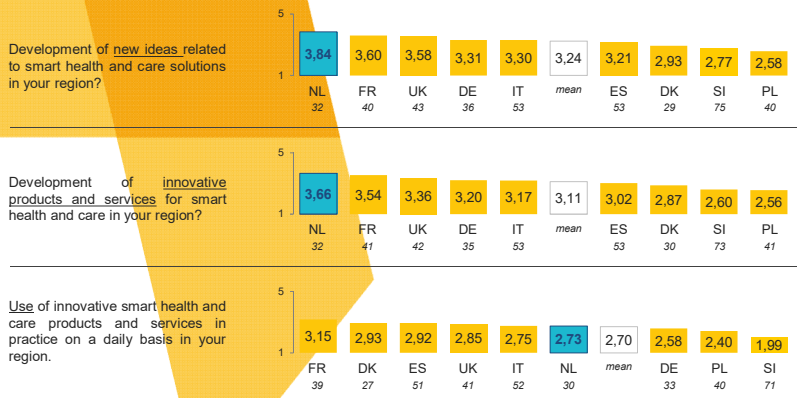


INNOVATION - Support services 3

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

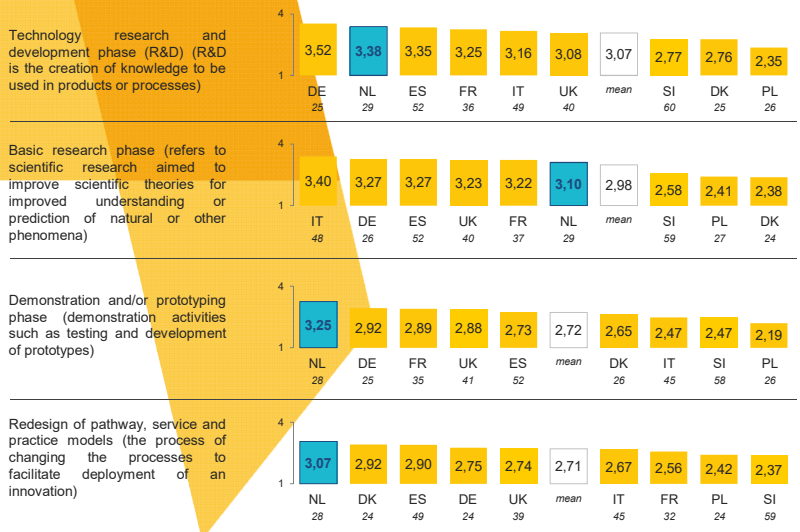
INNOVATION – Development and use of innovative products and services

How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region? *Scale 1 (Very low intensity) to 5 (Very high intensity).*



INNOVATION - Phases 1

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*



Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

INNOVATION - Phases 2

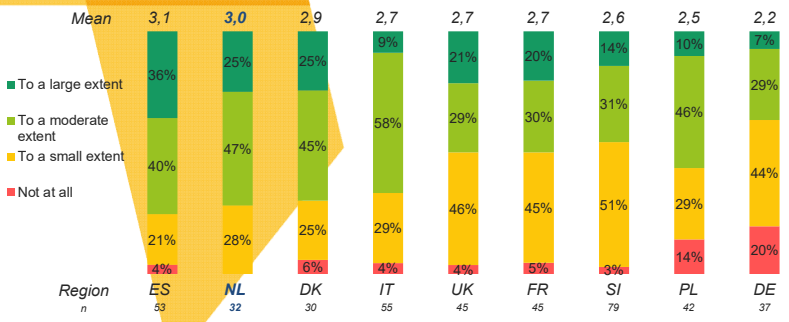
In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*

Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

POLICY - Information

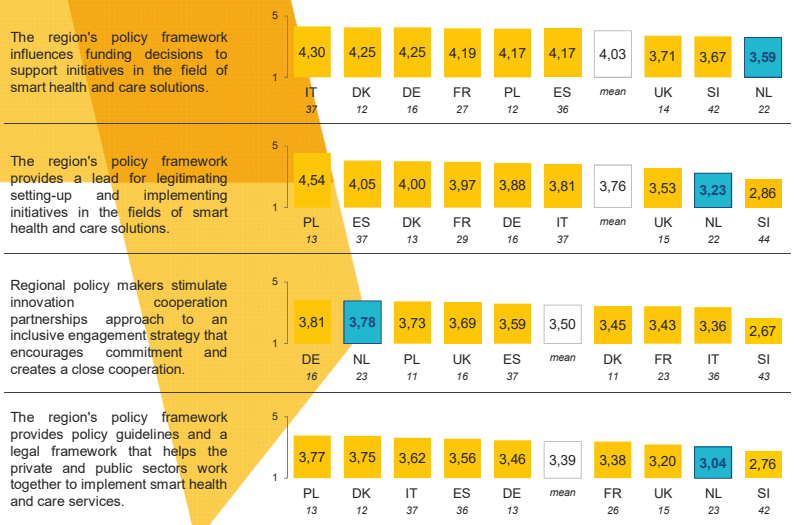
The share of respondents that are to a large or moderate extent informed about regional policy, strategies and programs is highest in **Spain**, **the Netherlands** and **Denmark**, and the lowest in Slovenia and Germany. The share of respondents who claim that are not informed at all is the highest in **Poland** and **Germany**.

To what extent are you informed about the regional policy, strategies, and programs in the field of smart health and care?



POLICY - Framework 1

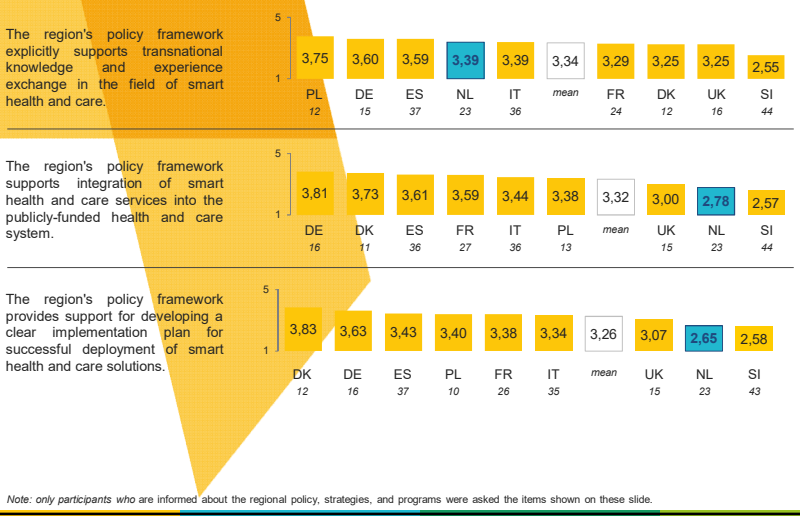
To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

POLICY - Framework 2

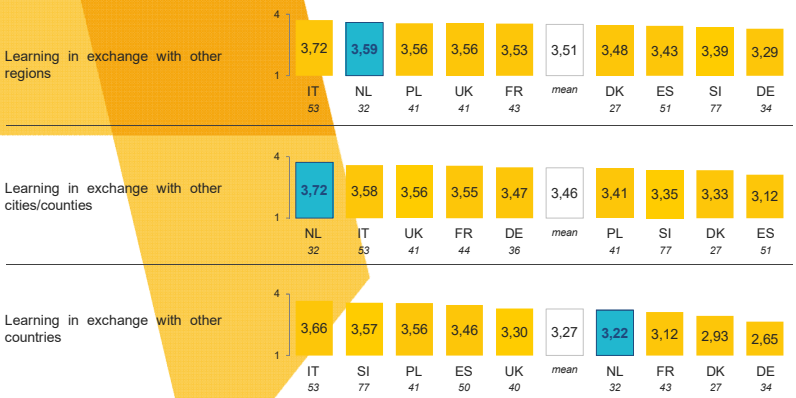
To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

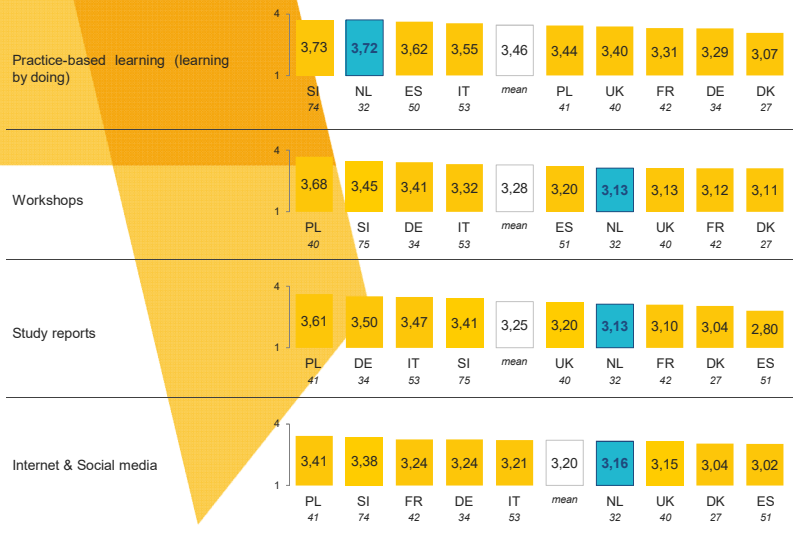
LEARNING - Importance to learn in exchange

How important is it for your work to learn in exchange with experts and other stakeholders within your own region/country or from other cities/counties, regions and countries? *Scale 1 (Not important at all) to 4 (Very important)*.



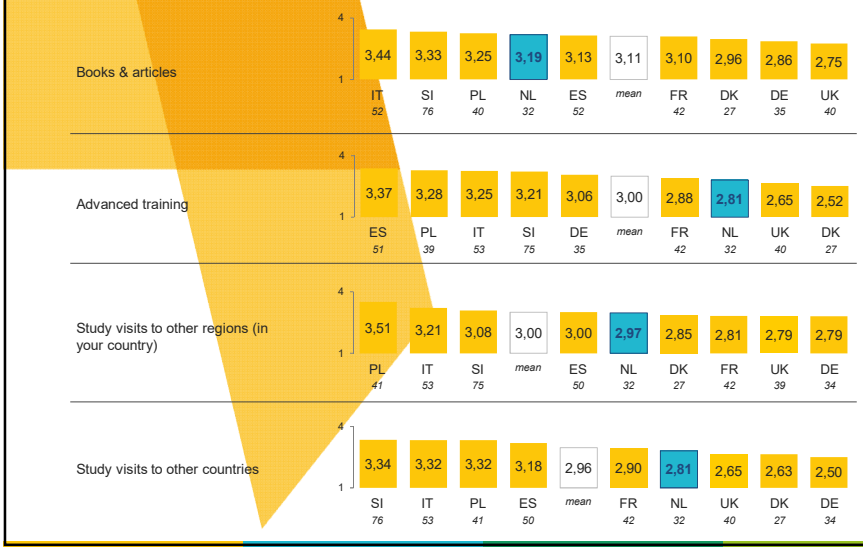
LEARNING - Importance of channels / instruments / approaches 1

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important)*.



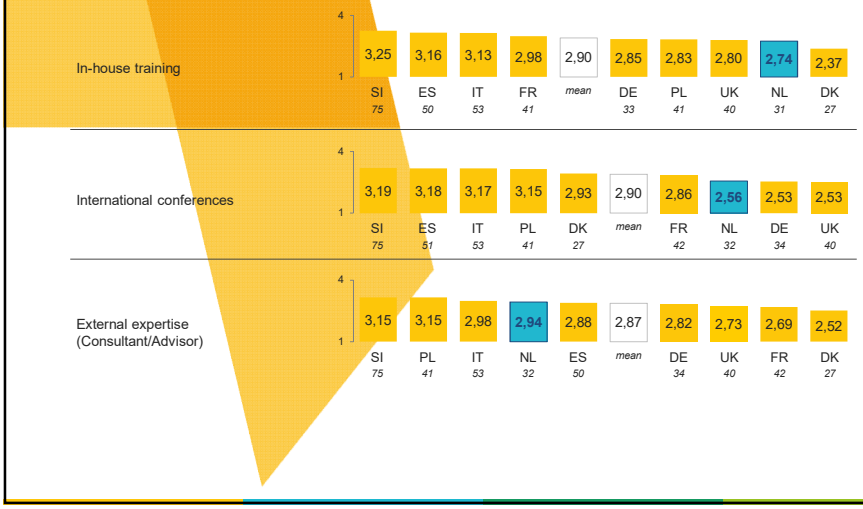
LEARNING - Importance of channels / instruments / approaches 2

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



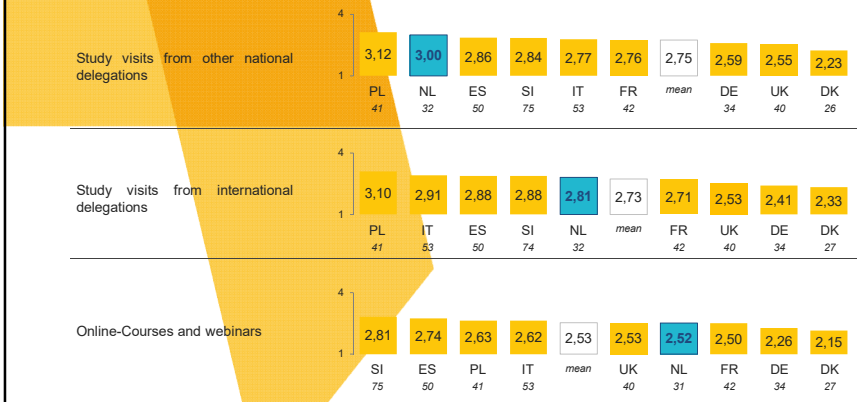
LEARNING - Importance of channels / instruments / approaches 3

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



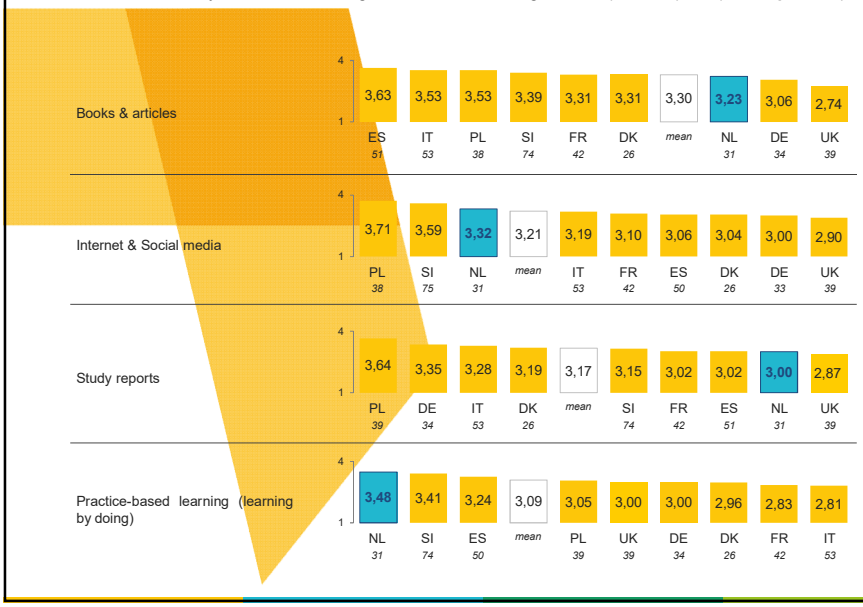
LEARNING - Importance of channels / instruments / approaches 4

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



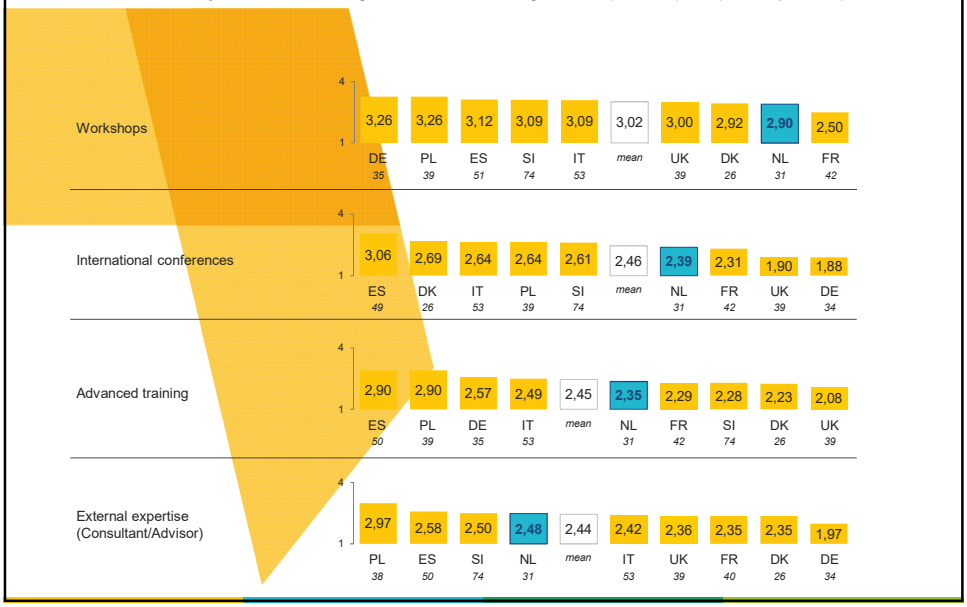
LEARNING - Use of instruments 1

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



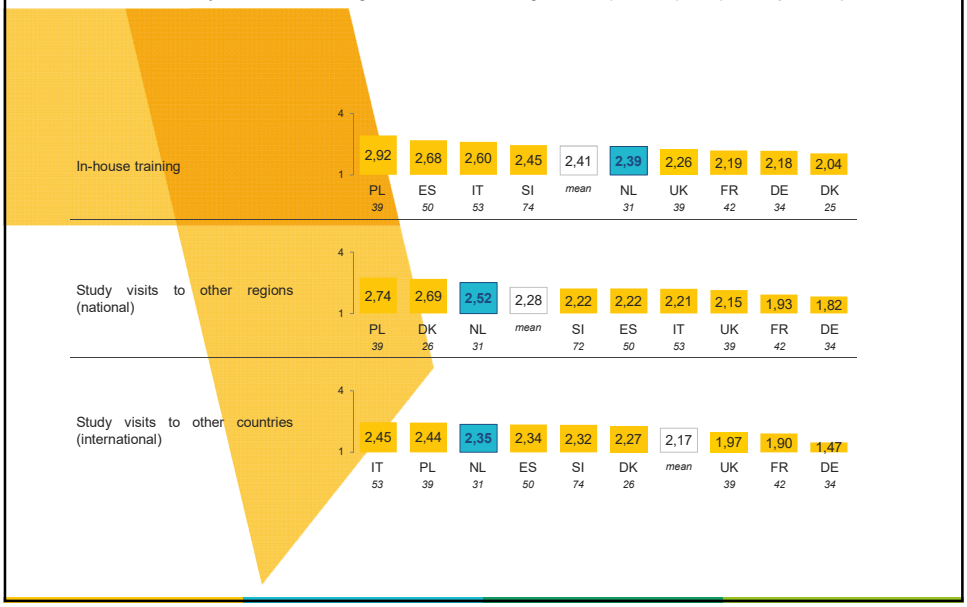
LEARNING - Use of instruments 2

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



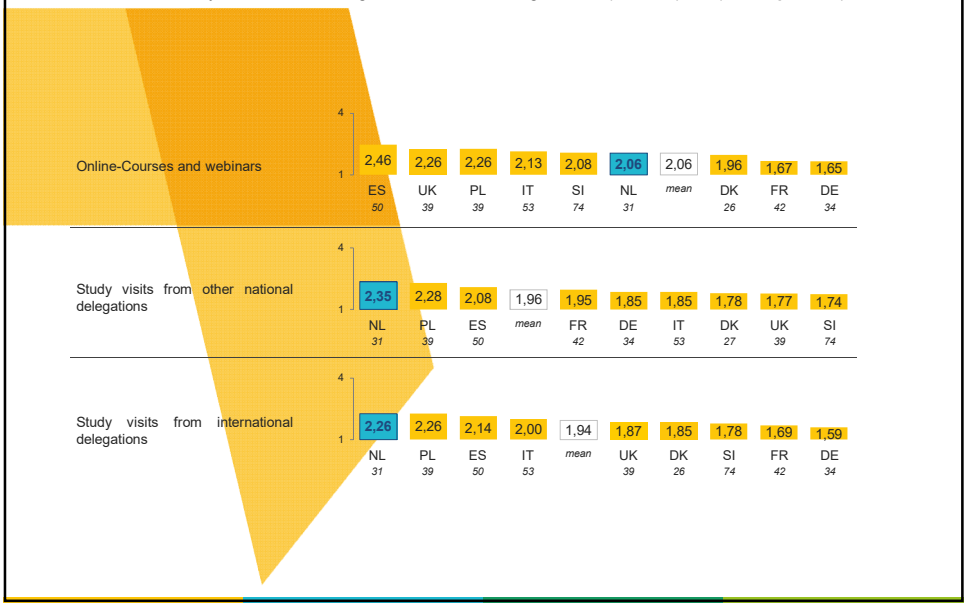
LEARNING - Use of instruments 3

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



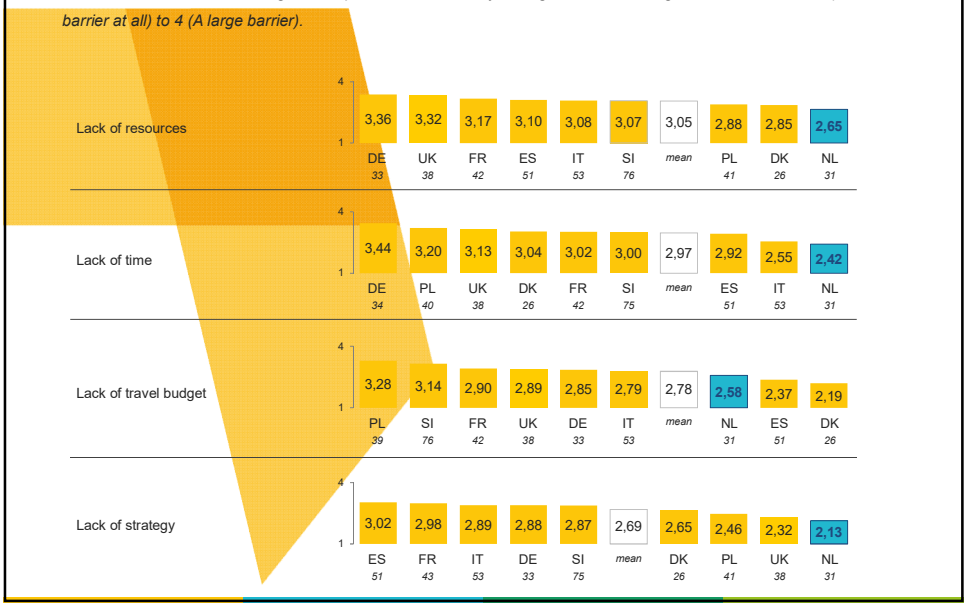
LEARNING - Use of instruments 4

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



LEARNING - Barriers 1

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

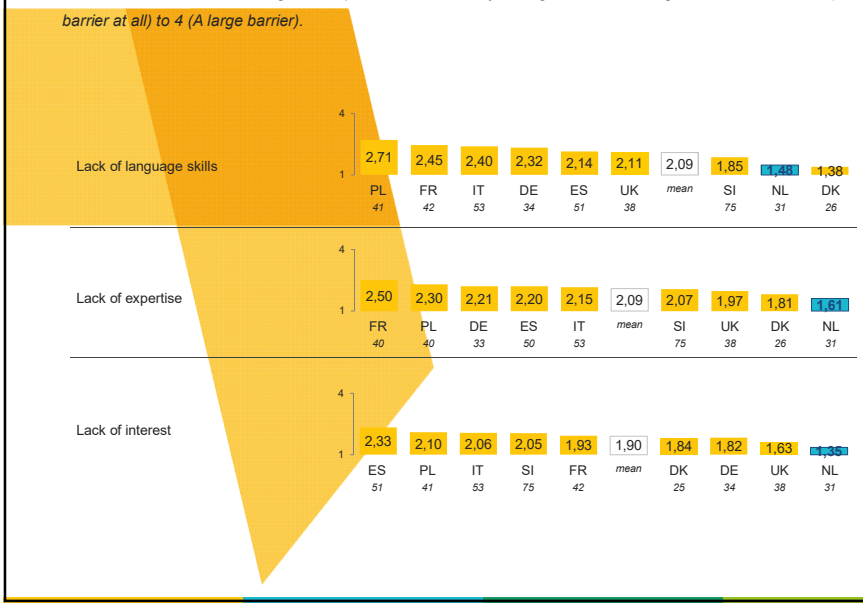


LEARNING - Barriers 2

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

LEARNING - Barriers 3

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



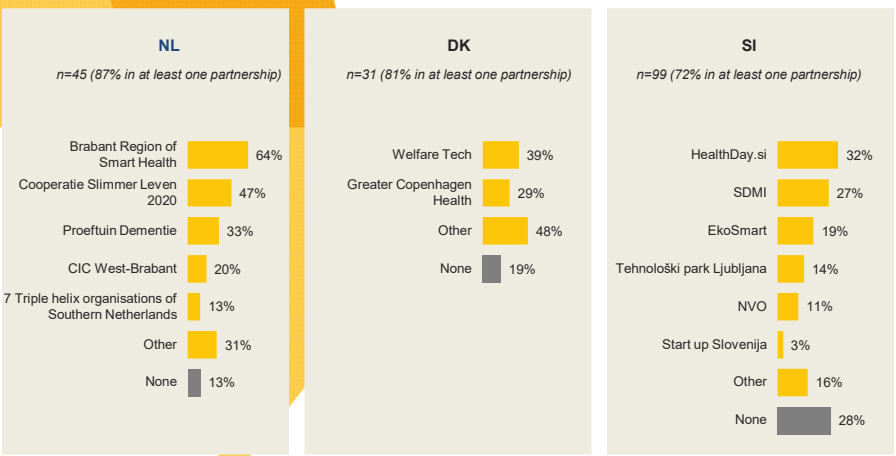
ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Detailed sample characteristics

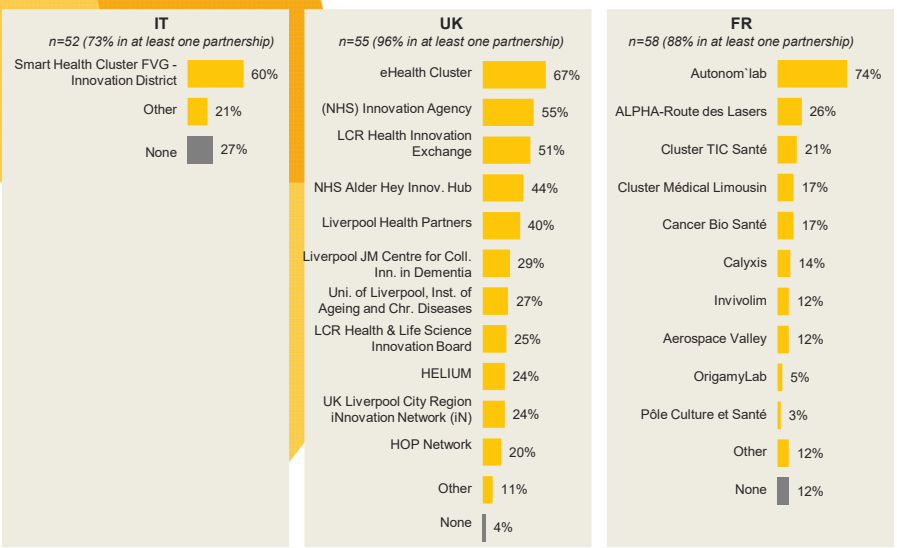
COOPERATION PARTNERSHIPS INVOLVEMENT 1

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



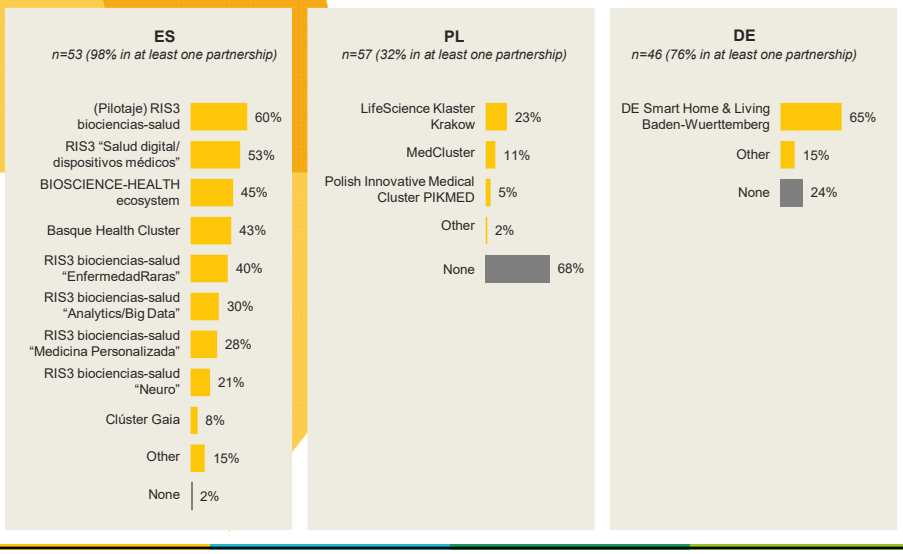
COOPERATION PARTNERSHIPS INVOLVEMENT 2

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



COOPERATION PARTNERSHIPS INVOLVEMENT 3

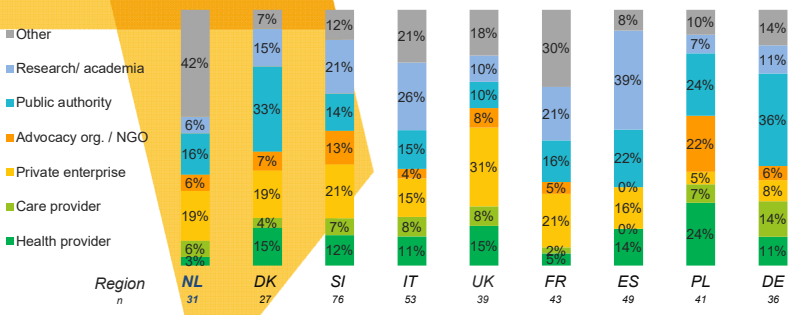
Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



TYPE OF ORGANIZATION

Poland has the highest share of respondents that are health providers (24%) while the Netherlands and France have the lowest. UK has the highest share of respondents that are private enterprises (39%).

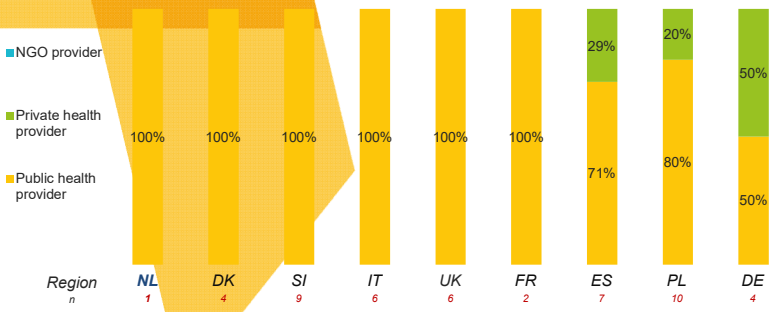
What type is your organization?



TYPE OF HEALTH PROVIDER

Although the samples are very small, the results indicate that in almost all regions a vast majority of health providers are public organizations.

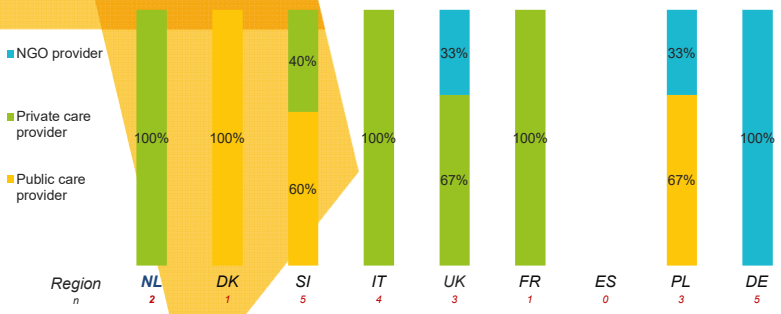
What type of health provider is your organization?



TYPE OF CARE PROVIDER

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

What type of care provider is your organization?



TYPE OF ADVOCACY

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

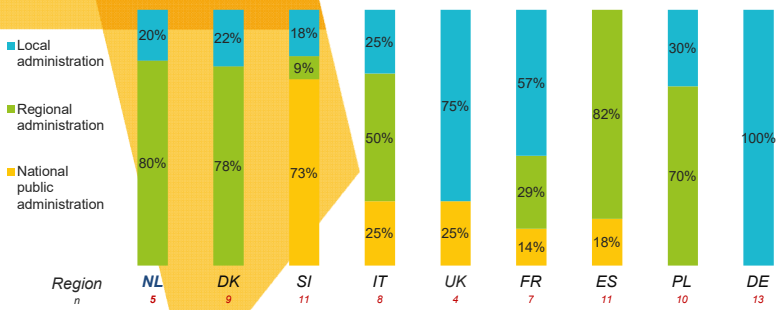
What type of advocacy does your organization provide?

Region	n	H. CARE PROFESSIO-NALS	OLDER PEOPLE	PATIENTS	INFORMAL CAREGIVERS	OTHER
NL	2		50%	50%		100%
DK	2				50%	50%
SI	10		70%		20%	30%
IT	2		50%			50%
UK	3	67%	67%	67%	67%	33%
FR	2	50%			50%	
ES	0					
PL	4		50%		25%	75%
DE	2		50%	50%	50%	50%

LEVEL OF PUBLIC AUTHORITY

Although the samples are very small, the results indicate that Slovenian public organizations mostly have national authority, German public organizations have local authority, while Spanish and Polish mostly have regional authority.

What level of authority is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

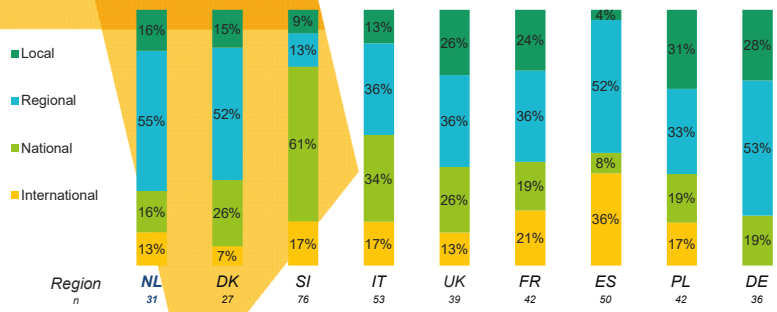
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

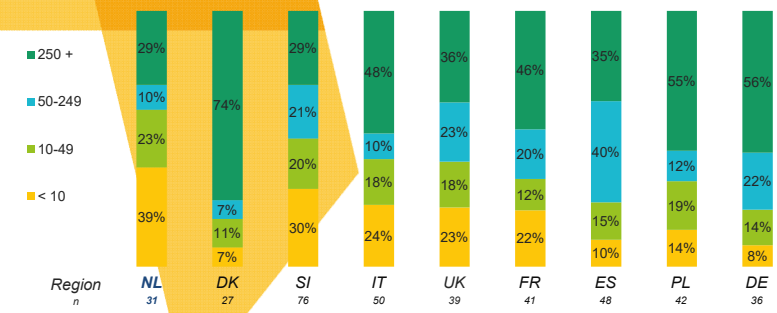
What is the main scope of the organization?



NUMBER OF EMPLOYEES

All regions have a noticeable share of organizations with more than 250 employees, the highest share was recorded in Denmark (74%), while in the Netherlands and Slovenia it is the lowest and stands at 29% in both regions. The Netherlands and Slovenia also have the highest share of organizations with less than 10 employees, 39% and 30% respectively.

How many employees does your organization have?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Appendix

Input for "Regional Policy Framework Index"

Survey Question: *Thinking about the current policy framework in your region, to what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region?*

- The region's policy framework provides a lead for legitimating setting-up and implementing initiatives in the fields of smart health and care solutions.
- The region's policy framework influences funding decisions to support initiatives in the field of smart health and care solutions.
- The region's policy framework provides policy guidelines and a legal framework that helps the private and public sectors work together to implement smart health and care services.
- The region's policy framework supports integration of smart health and care services into the publicly-funded health and care system.
- The region's policy framework provides support for developing a clear implementation plan for successful deployment of smart health and care solutions.
- Regional policy makers stimulate innovation cooperation partnership approach to an inclusive engagement strategy that encourages commitment and creates a close cooperation between public authorities, education and research institutions, business, and citizens/patients.
- The region's policy framework explicitly supports transnational knowledge and experience exchange in the field of smart health and care.

Input for “Innovation Support Service Index”

Survey Question: *In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region?*

- Establish infrastructure which enables development of innovation and knowledge transfer, for example living labs, demonstrators, test sites, show rooms, easily accessible research environments, clinical trials, open source facilities.
- Established knowledge networks, collaboration platforms to support continuous improvement.
- Established public-private partnerships.
- Support for bringing products and services to the market and growing market share.
- Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.
- Procedural and administrative simplifications.
- Programs for innovation cooperation partnerships.
- Support for the valorisation of research outcomes.
- Support on legal aspects including intellectual property rights, procurement, regulation.

Input for “Development & Use of innovative products & Services Index”

Survey Question: *How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region?*

- Development of new ideas related to smart health and care solutions in your region?
- Development of innovative products and services for smart health and care in your region?
- Use of innovative smart health and care products and services in practice on a daily basis in your region.

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

The end ☺

Questions welcome

Project smedia

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Report 2: Sjælland (Denmark)

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Sample & Respondents

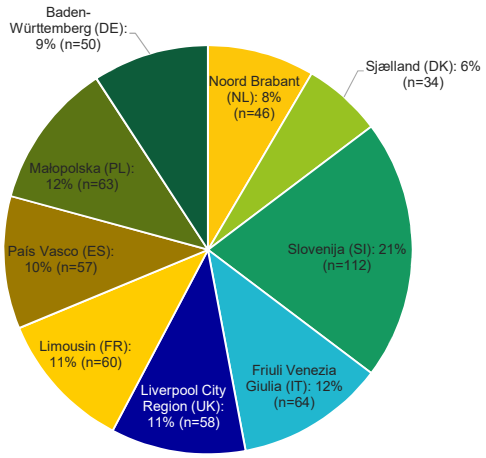
Input for „Intro to the theme“

ITHACA SURVEY BASICS

In total, 544 of stakeholders across nine European regions have responded to the ITHACA SA Survey. The highest absolute numbers of responses were collected in Slovenia, Italy and Poland, and the lowest in Denmark and the Netherlands.

TOTAL RESPONSES
544

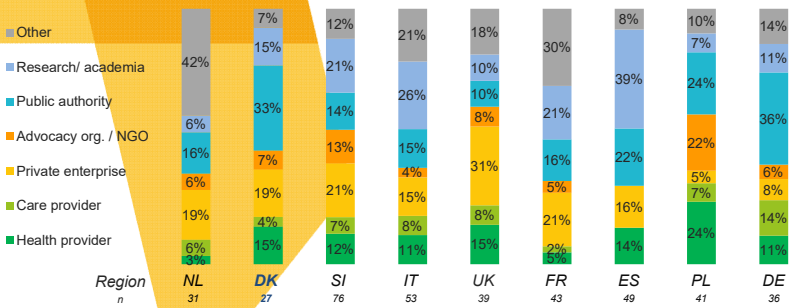
Note: Additionally, 4 responses from non listed regions were collected. But are excluded from further analysis.



TYPE OF ORGANIZATION

Poland has the highest share of respondents from health providing organizations (24%), while the Netherlands and France have the lowest. The share of respondents from private enterprises is the highest in the UK (39%).

What type is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

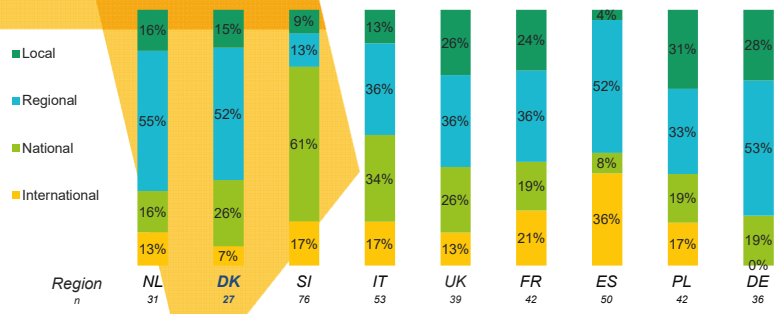
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

What is the main scope of the organization?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

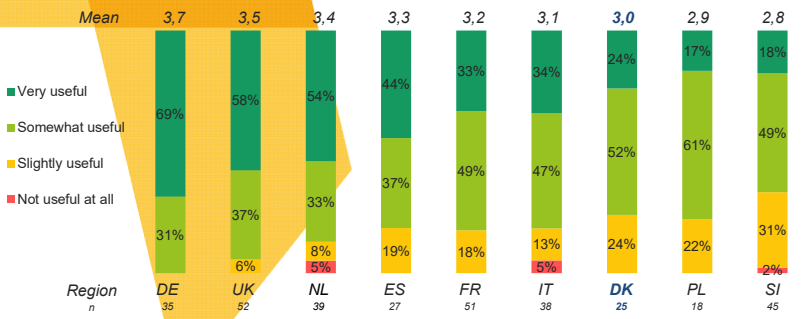
Results Summary

Input for „Intro to the theme“

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

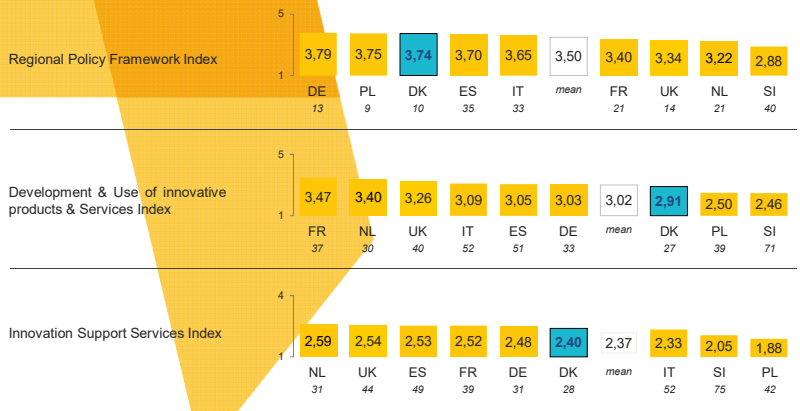
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION & POLICY INDICES

Composite indices are presented below. The highest average score on innovation support services was recorded in **the Netherlands** and the lowest in **Poland**. According to respondents the development and use of innovative products and services is the highest in France and the Netherlands, and the lowest in Slovenia and Poland. Regional policy framework on the other hand, is rated highly in **Germany**, **Poland** and **Denmark**, whereas in **Slovenia** it is distinctively lower.



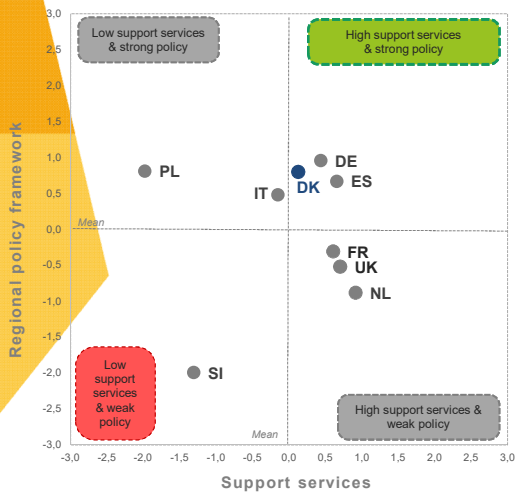
Note: Composite Regional indices are calculated as an average of participants' average score on all items within the same theme. Items for Innovation Support Service Index: Q13a to Q13i. Items for Development & Use of innovative products & Services Index: Q15a, Q15b and Q15c. Items for Regional Policy Framework Index: Q19a to Q19g.

REGION POSITIONING

In comparison of regions by innovation support services index and regional policy framework index, **Spain** and **Germany** are positioned as regions with high support services and strong policy, while **Slovenia** is positioned as a region with low support services and the weakest regional policy. Poland, on the other hand, is positioned as a region with strong policy but low support services, while in the Netherlands the situation is reversed.

Note: Regional Support services Indices on X axis and Regional policy framework indices on Y axis.

Values on both dimensions (Support services and Policy framework) have been standardized to neutralize the effect of different measurement scales.



ITHACA
Interreg Europe

European Union
European Regional Development Fund

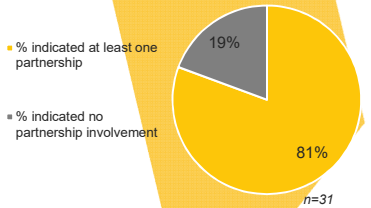
DK Highlights

Input for „World cafe“

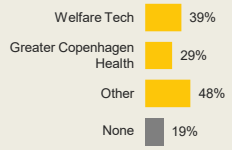
ECOSYSTEM – Cooperation partnership involvement

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?

Involvement in at least one cooperation partnership:



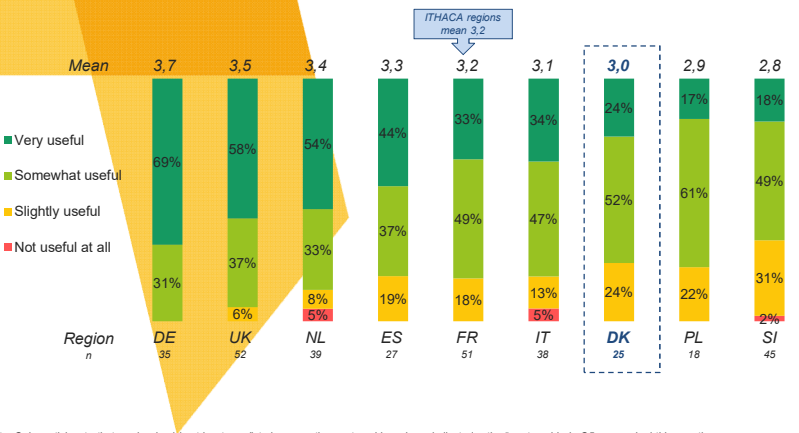
DK (*n=31*)



ECOSYSTEM - Usefulness of involvement

On a scale from 1 (Not useful at all) to 4 (Very useful), the DK region has average value below ITHACA average, with only 24% of respondents finding the involvement very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



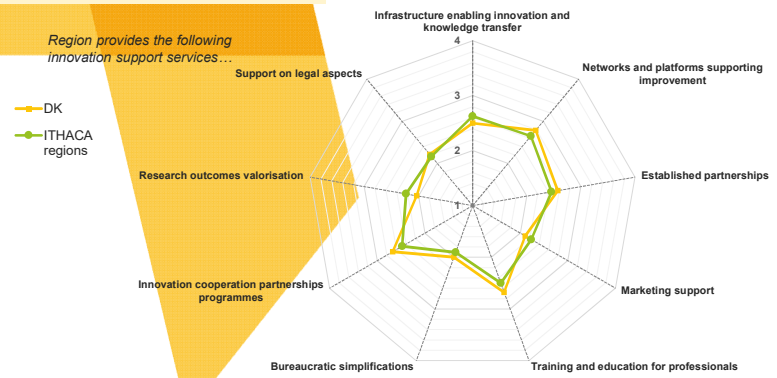
Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION - Support services

DK Support Services Index almost equals the average index value of ITHACA regions. The rated extent of services (individual items) are also very close to ITHACA averages.

Within the region, *Networks and platforms supporting improvement* (2,79) has on average the highest rated extent of all Support services items, followed by *Training and education for professionals* and *Innovation cooperation partnerships programmes*, both with the average of 2,68. *Bureaucratic simplifications* and *Research outcomes valorization* have the lowest ratings, with the average of 2,00 and 2,04, respectively.

DK Support Services Index	**2,40**
ITHACA regions Support service Index	2,37



Note: Regional index is based on respondents who answered all items within theme (Q13a to Q13i). Global index is a simple average over ITHACA regions, where units are regions.

INNOVATION - Development & use of innovative products & services

DK Development & Use of innovative Products & Services Index is somewhat lower than the average index value of ITHACA regions. The rated intensities for *New ideas* and *Innovative products and services* are just slightly below the corresponding averages of all ITHACA regions, while for *Daily usage of innovative products and services* it is slightly above the average.

Within the region, all developments in the field have been rated as similarly intensively occurring: *New ideas* (2,93), *Daily usage of innovative products and services* (2,93) and *Innovative products and services* (2,87).

DK Development & Use of innovative products & Services Index	**2,91**
ITHACA regions Development & Use of innovative products & Services Index	3,02

Note: Regional index is based on respondents who answered all items within theme (Q15a to Q15c). Global index is a simple average over ITHACA regions, where units are regions.

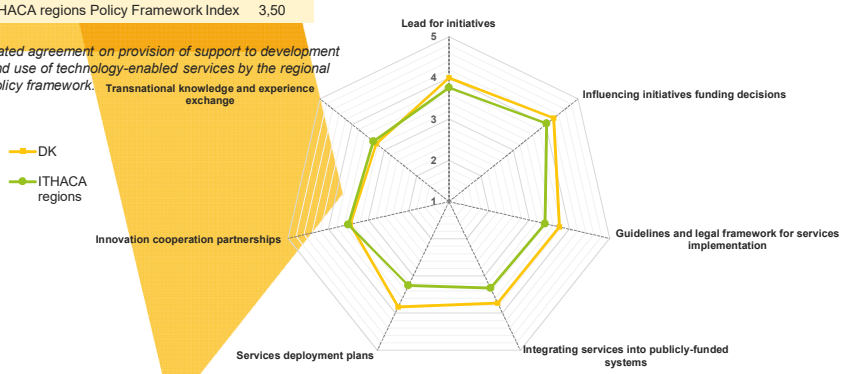
POLICY – Regional Policy Framework

DK Regional Policy Index is higher than the average index value of ITHACA regions. This is also true for most individual items, except for *Transnational knowledge and experience exchange* and *Innovation cooperation partnerships,* which are similar to the ITHACA average.

Within the region, *Influencing initiatives funding decisions* (4,25) has the highest average value among the regional policy framework facets, followed by *Lead for initiatives* (4,00). The lowest average values were recorded for *Innovation cooperation partnerships* (3,45) and *Transnational knowledge and experience exchange* (3,25).

DK Policy Framework Index	**3,74**
ITHACA regions Policy Framework Index	3,50

Rated agreement on provision of support to development and use of technology-enabled services by the regional policy framework.

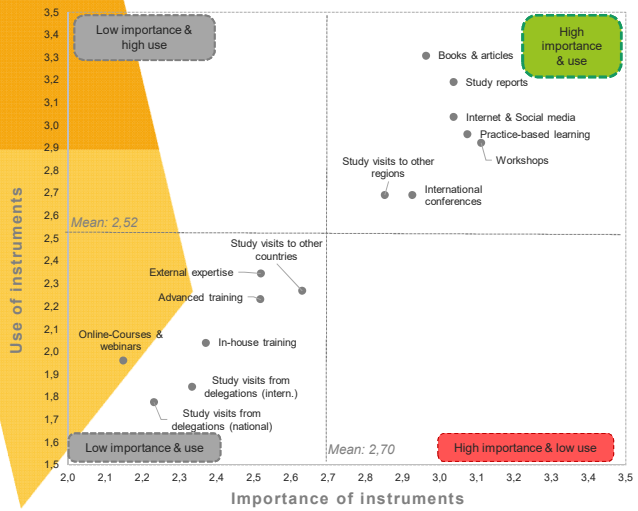


Note: Regional index is based on respondents who answered all items within theme (Q19a to Q19g). Global index is a simple average over ITHACA regions, where units are regions.

LEARNING – Relative importance & use of instruments

In DK the most important and most used instruments in practice from a relative point of view are: **Workshops, Practice-based learning**, **Study reports , Internet and social media** and **Books and articles**. None of the instruments has a high relative discrepancy between the importance and use – Study visits to other countries is the closest instrument to fall in that category.

***Sample sizes** for presented instruments and their use/importance vary from 25 to 27.*



Note: Measurement scale for importance and use goes from 1 to 4.

ITHACA
Interreg Europe

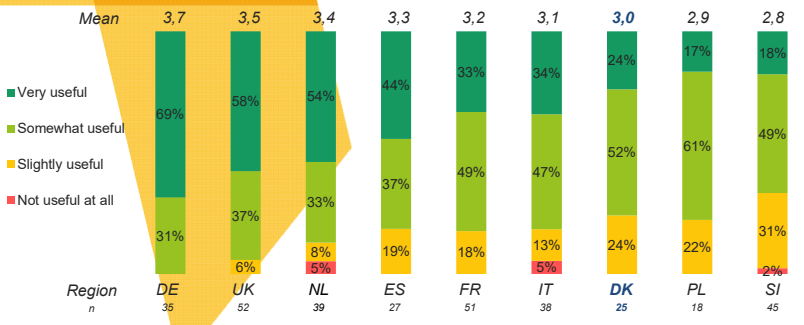
European Union
European Regional
Development Fund

Detailed overview of the results

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

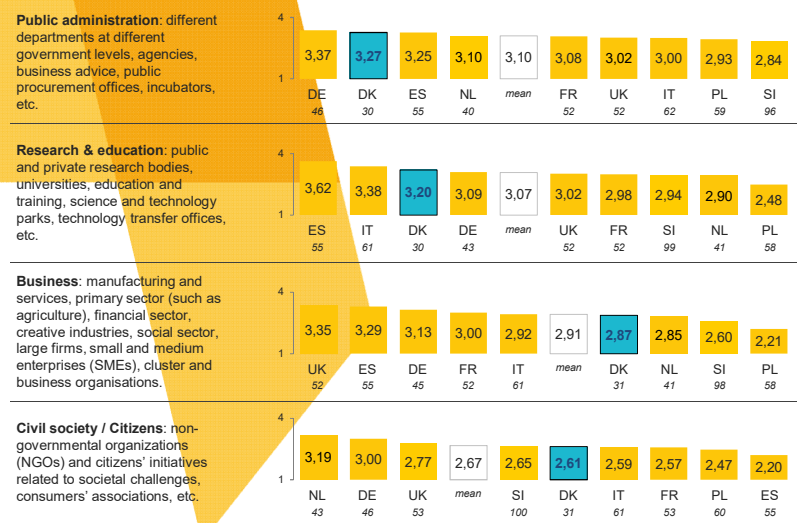
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

ECOSYSTEM – Regional collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within your region? *Scale 1 (Not at all) to 4 (To a large extent).*

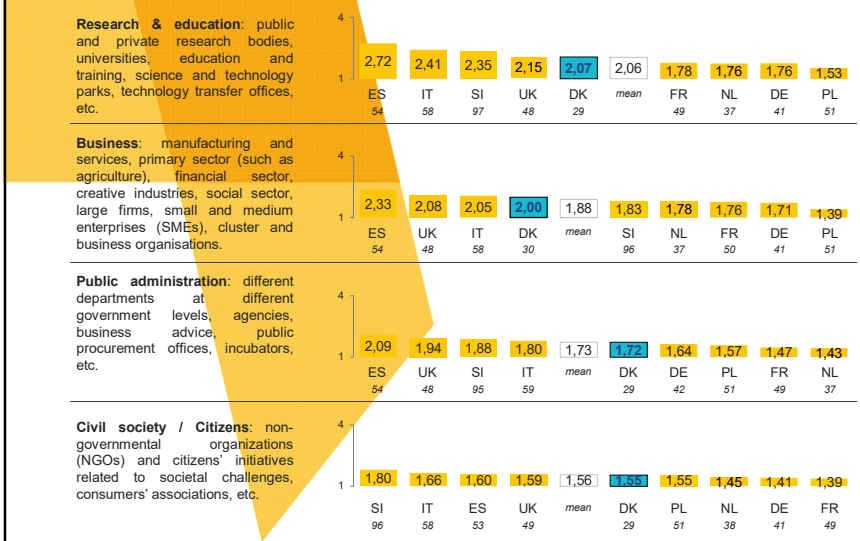


ECOSYSTEM – National collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other regions in your country? *Scale 1 (Not at all) to 4 (To a large extent).*

ECOSYSTEM – European collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other EU countries? *Scale 1 (Not at all) to 4 (To a large extent).*

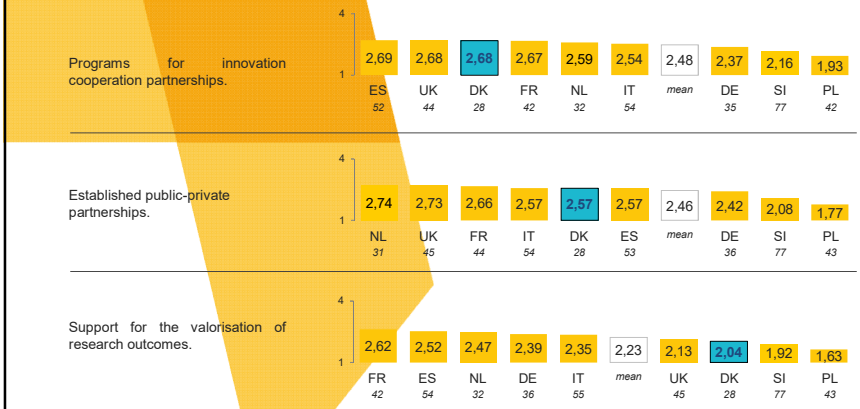


INNOVATION - Support services 1

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

INNOVATION - Support services 2

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

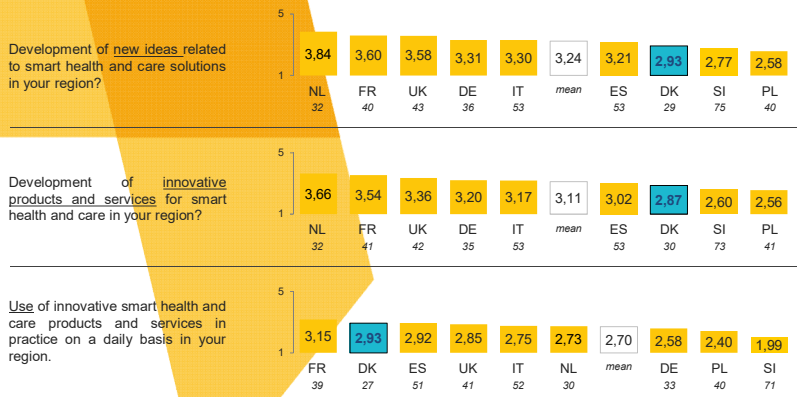


INNOVATION - Support services 3

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

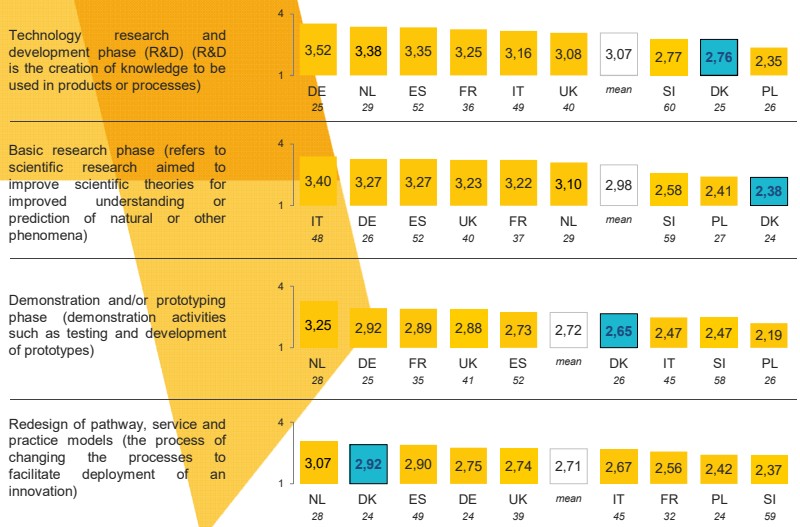
INNOVATION – Development and use of innovative products and services

How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region? *Scale 1 (Very low intensity) to 5 (Very high intensity).*



INNOVATION - Phases 1

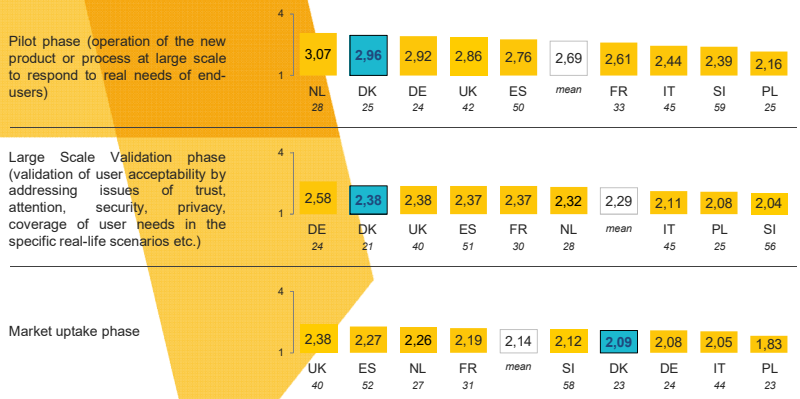
In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*



Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

INNOVATION - Phases 2

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*

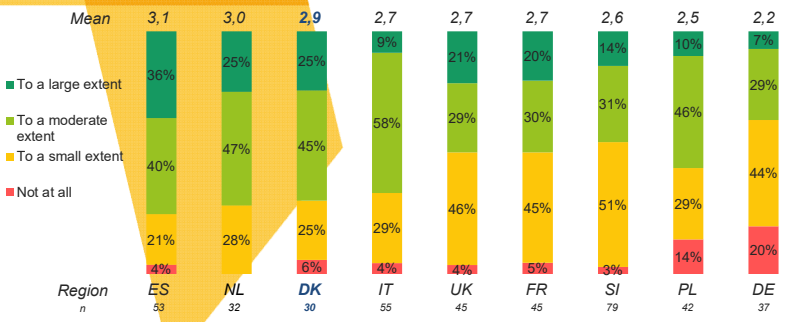


Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

POLICY - Information

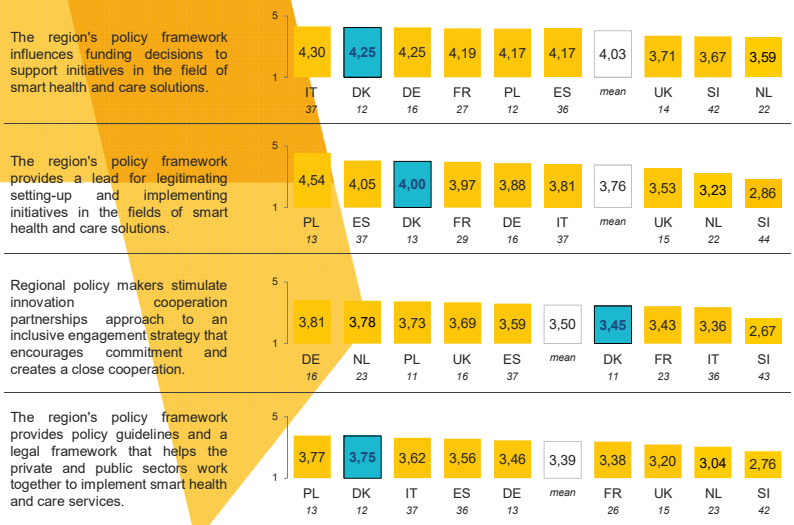
The share of respondents that are to a large or moderate extent informed about regional policy, strategies and programs is highest in **Spain**, **the Netherlands** and **Denmark**, and the lowest in Slovenia and Germany. The share of respondents who claim that are not informed at all is the highest in **Poland** and **Germany**.

To what extent are you informed about the regional policy, strategies, and programs in the field of smart health and care?



POLICY - Framework 1

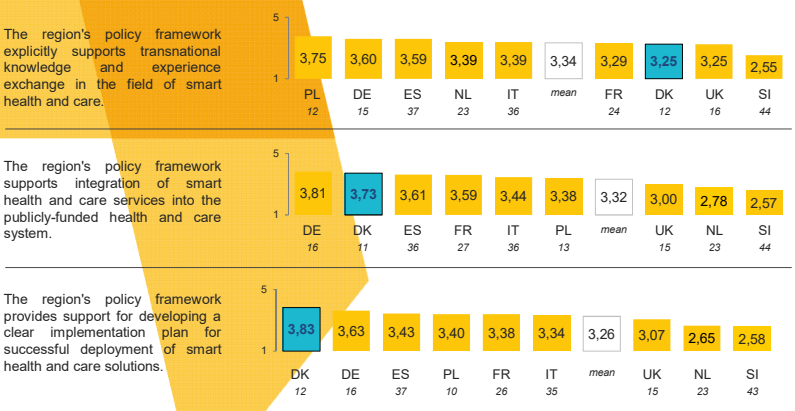
To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

POLICY - Framework 2

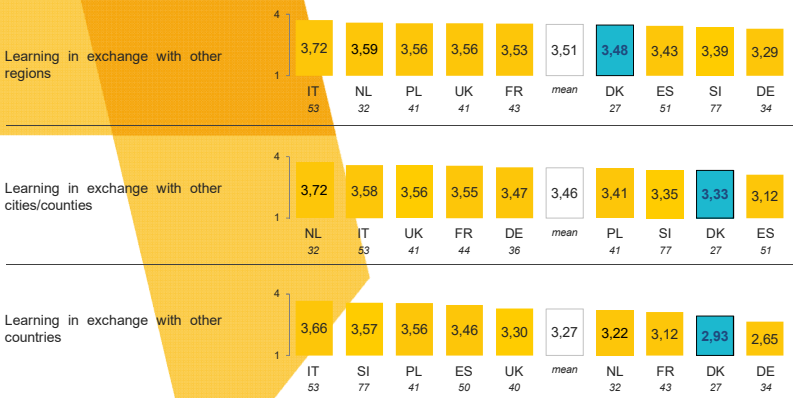
To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

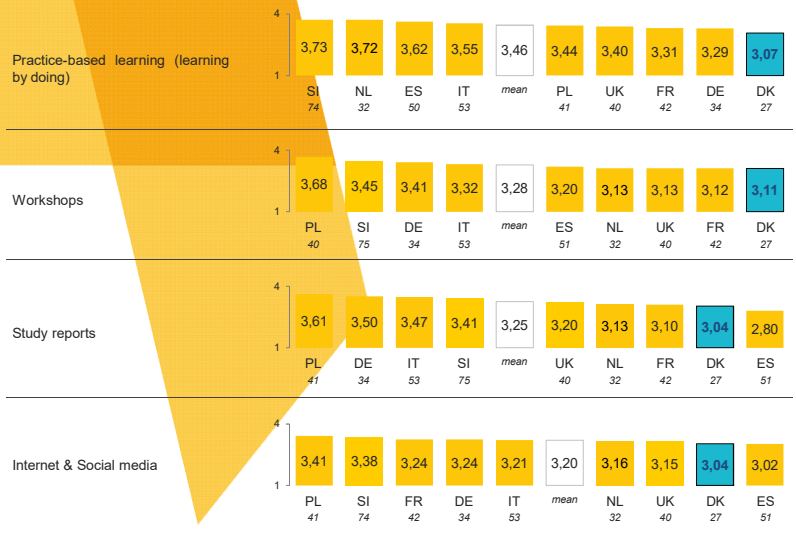
LEARNING - Importance to learn in exchange

How important is it for your work to learn in exchange with experts and other stakeholders within your own region/country or from other cities/counties, regions and countries? *Scale 1 (Not important at all) to 4 (Very important).*



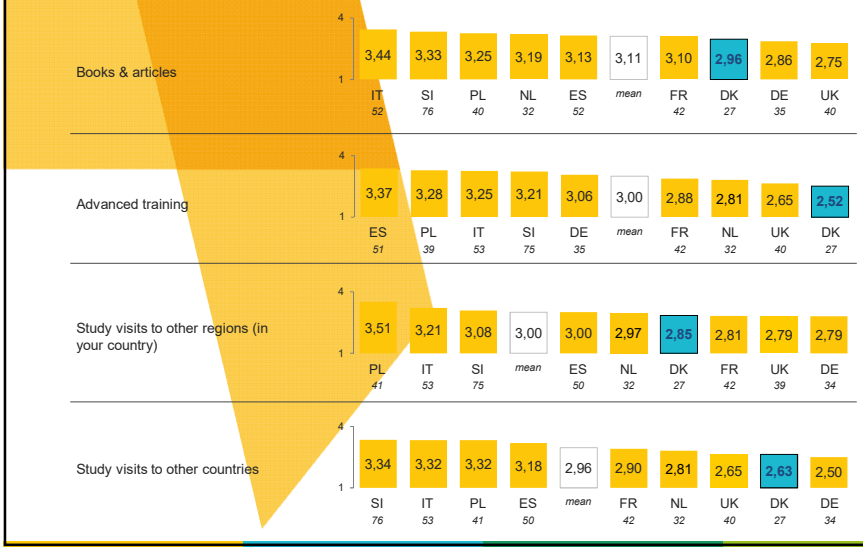
LEARNING - Importance of channels / instruments / approaches 1

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



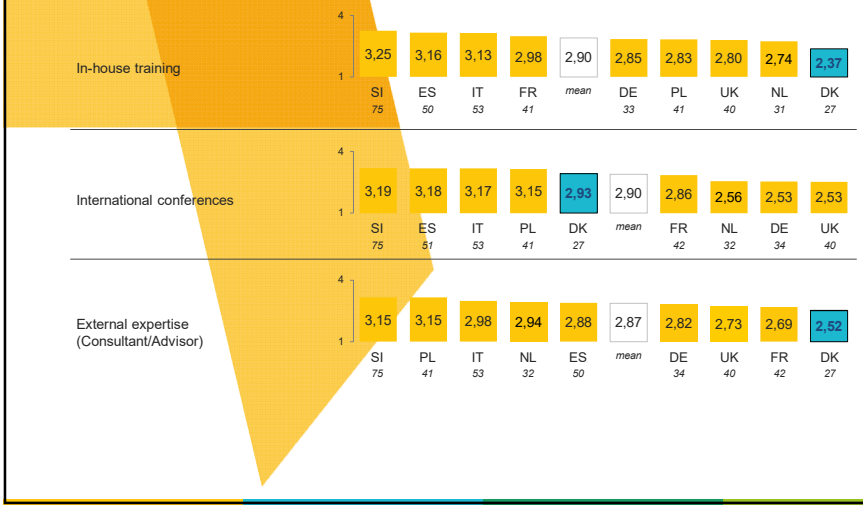
LEARNING - Importance of channels / instruments / approaches 2

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



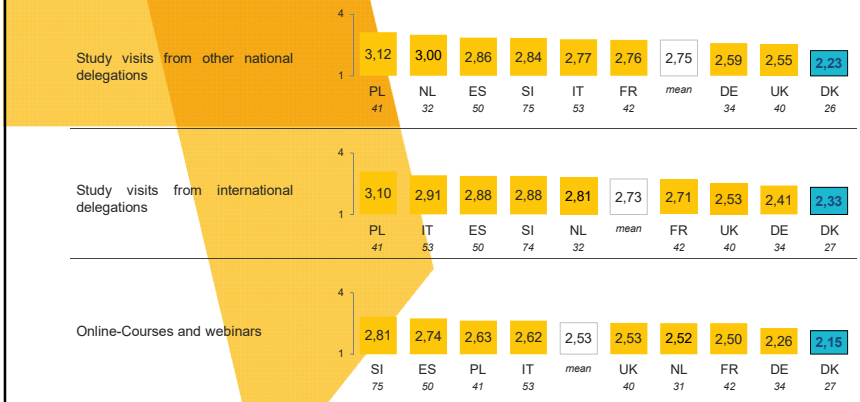
LEARNING - Importance of channels / instruments / approaches 3

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



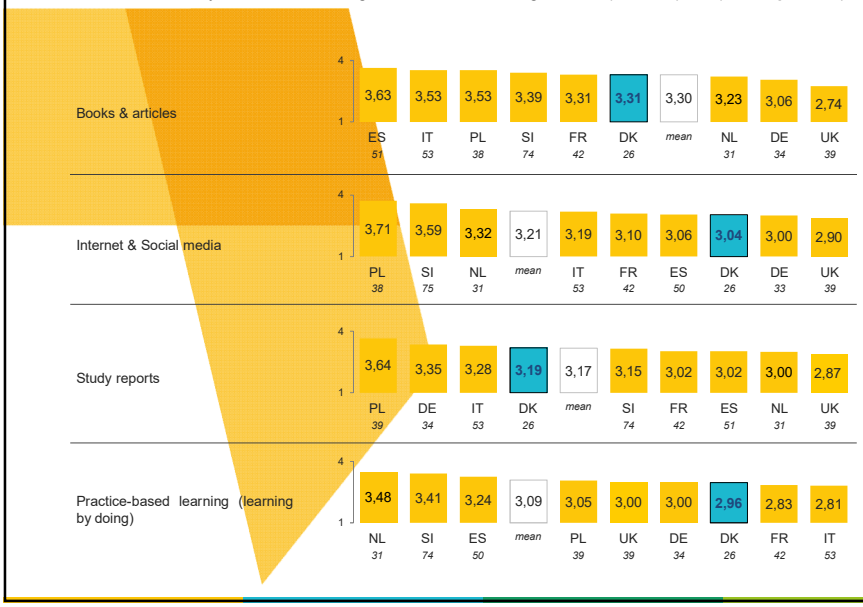
LEARNING - Importance of channels / instruments / approaches 4

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



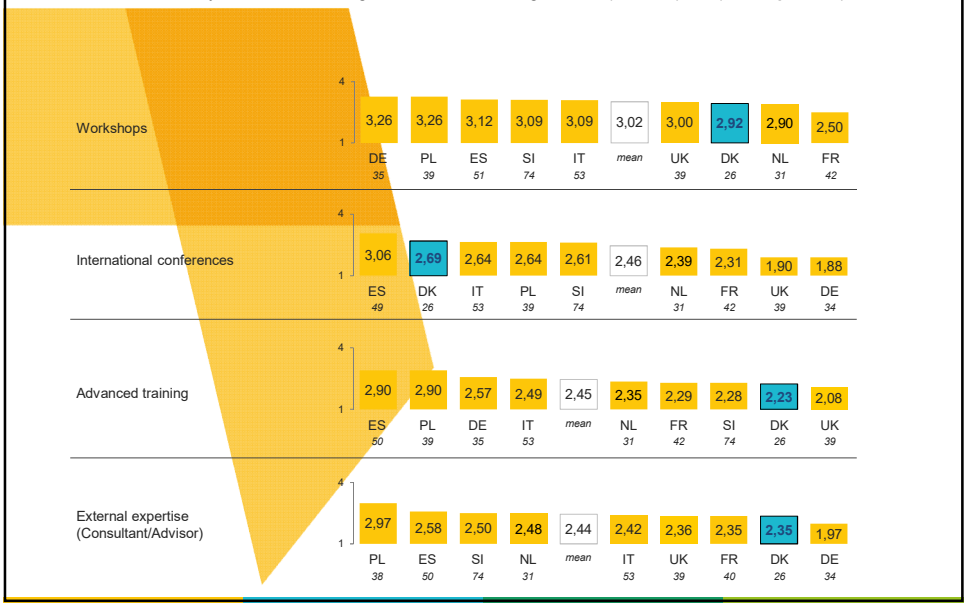
LEARNING - Use of instruments 1

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



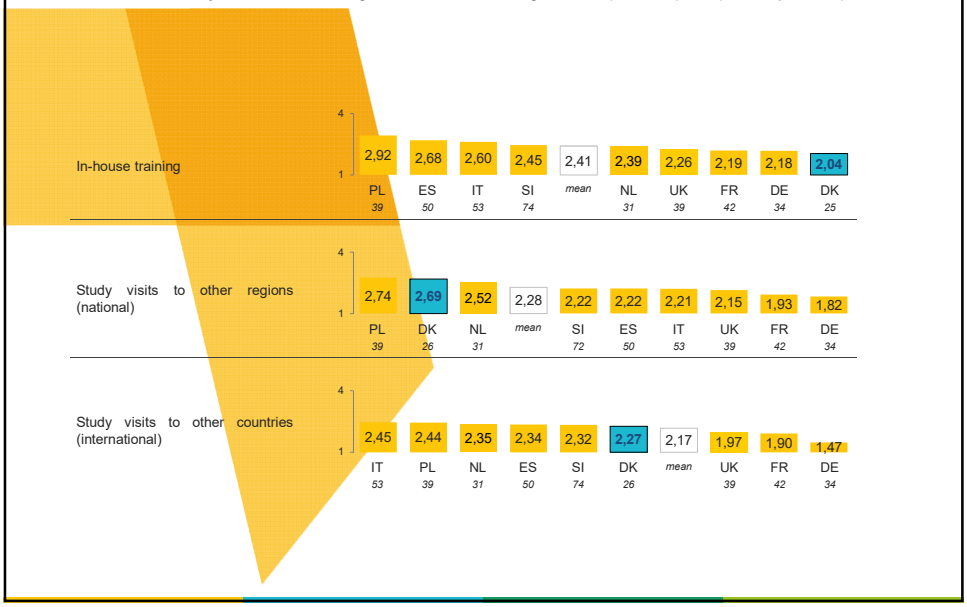
LEARNING - Use of instruments 2

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



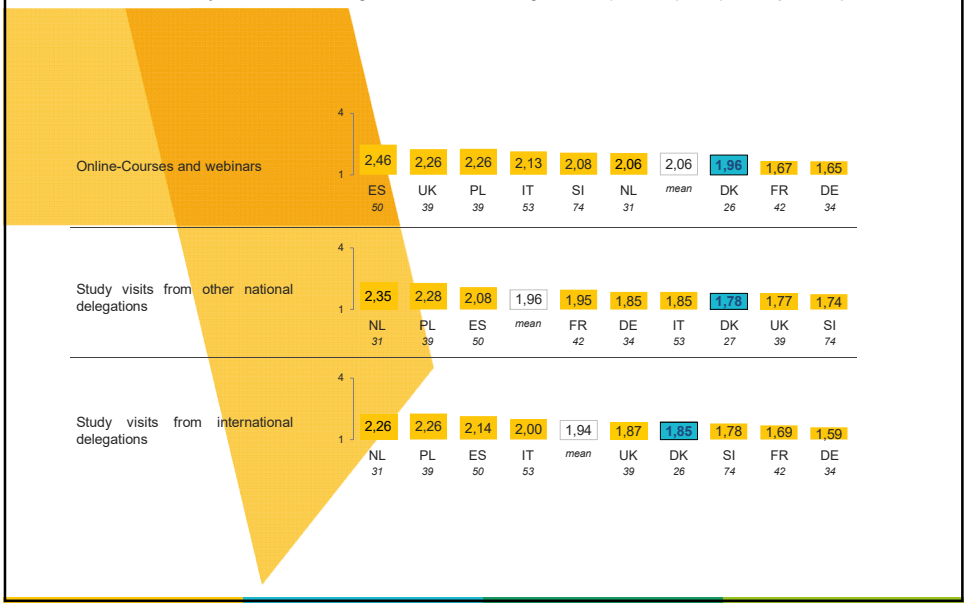
LEARNING - Use of instruments 3

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



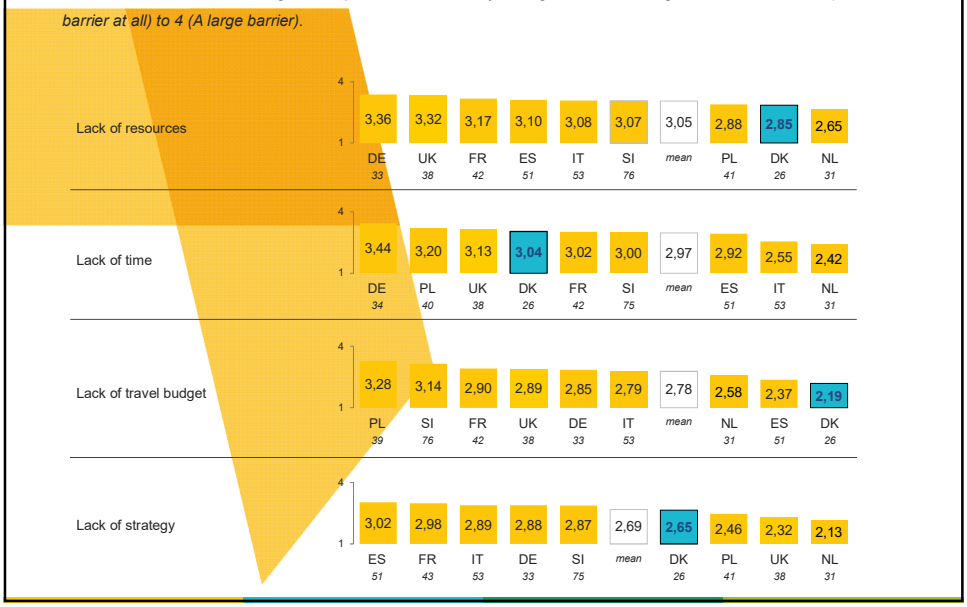
LEARNING - Use of instruments 4

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



LEARNING - Barriers 1

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

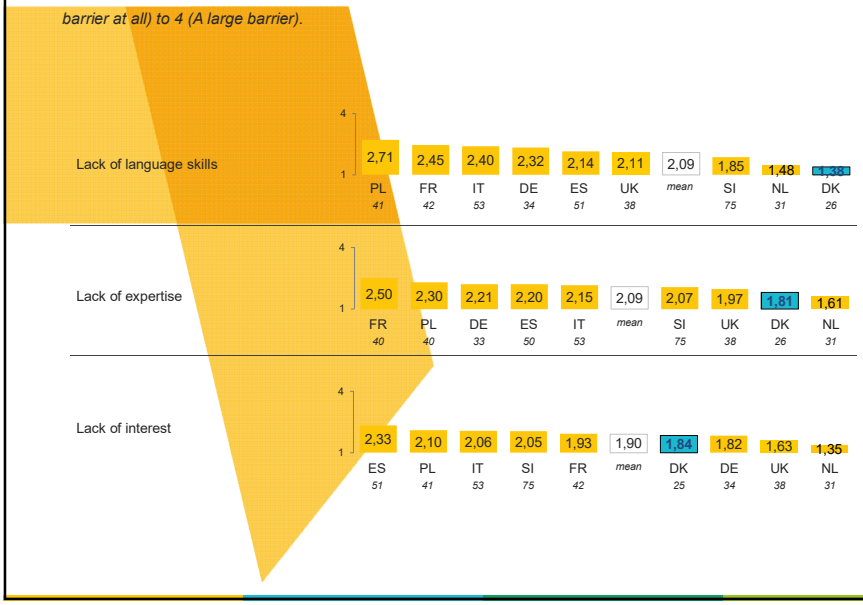


LEARNING - Barriers 2

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

LEARNING - Barriers 3

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



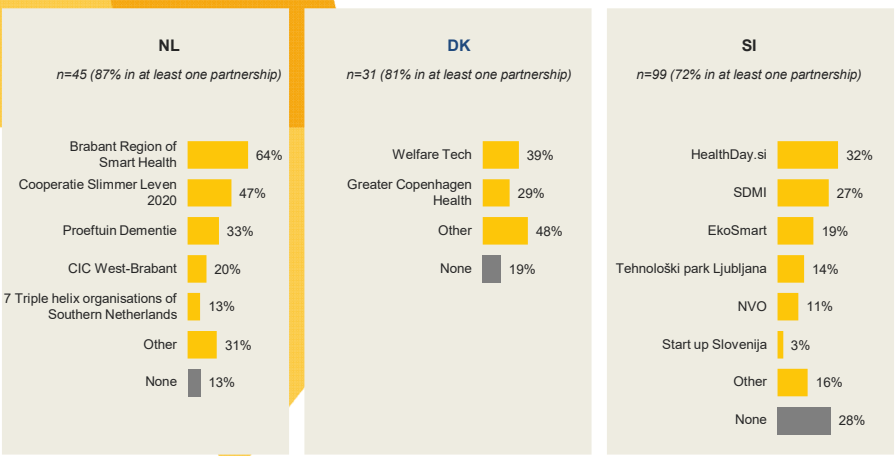
ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Detailed sample characteristics

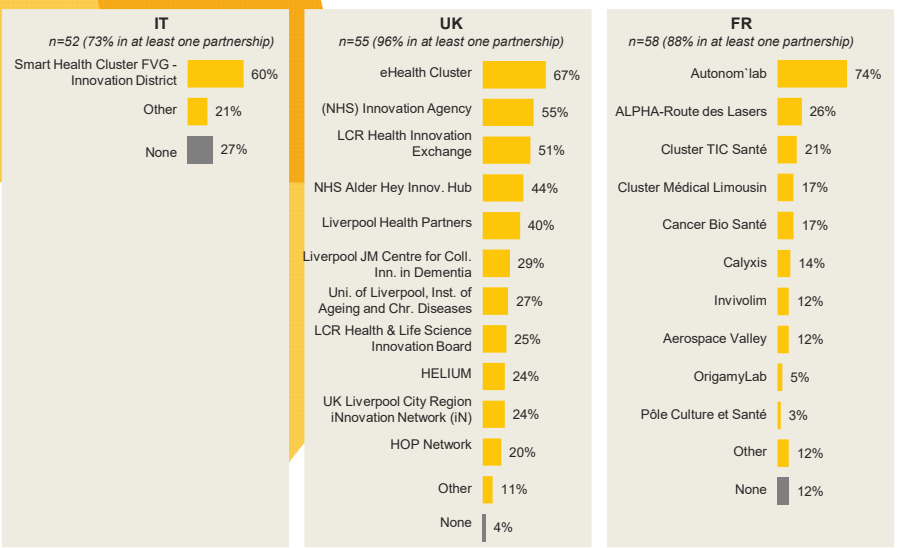
COOPERATION PARTNERSHIPS INVOLVEMENT 1

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



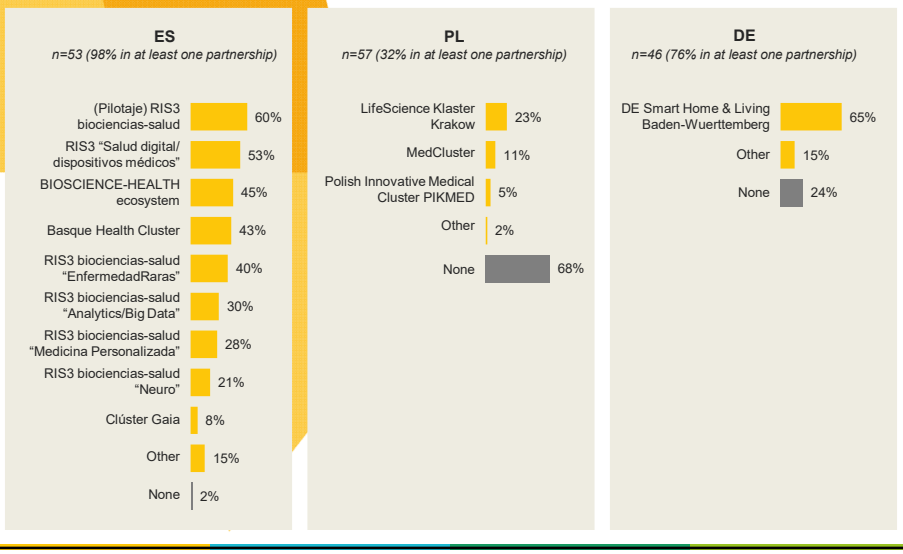
COOPERATION PARTNERSHIPS INVOLVEMENT 2

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



COOPERATION PARTNERSHIPS INVOLVEMENT 3

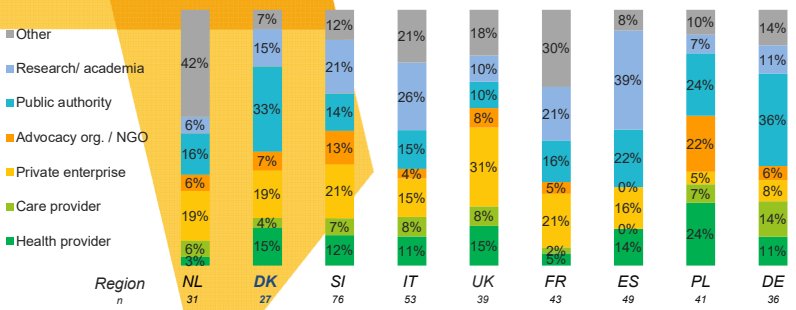
Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



TYPE OF ORGANIZATION

Poland has the highest share of respondents that are health providers (24%) while the Netherlands and France have the lowest. UK has the highest share of respondents that are private enterprises (39%).

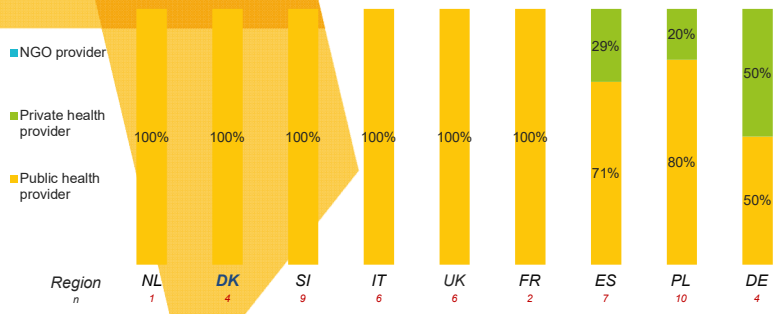
What type is your organization?



TYPE OF HEALTH PROVIDER

Although the samples are very small, the results indicate that in almost all regions a vast majority of health providers are public organizations.

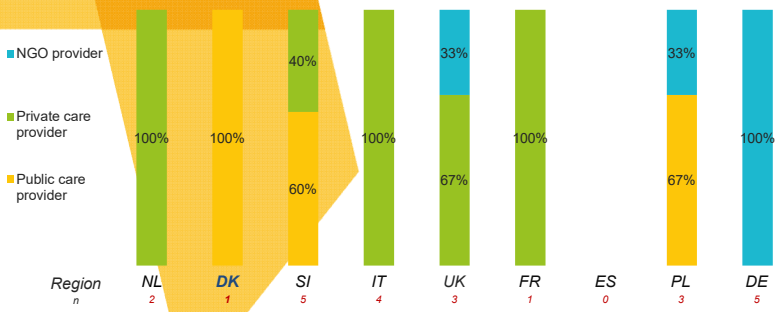
What type of health provider is your organization?



TYPE OF CARE PROVIDER

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

What type of care provider is your organization?



TYPE OF ADVOCACY

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

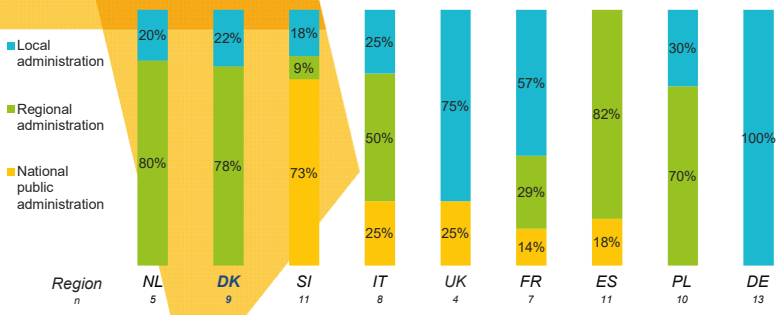
What type of advocacy does your organization provide?

Region	n	H. CARE PROFESSIO-NALS	OLDER PEOPLE	PATIENTS	INFORMAL CAREGIVERS	OTHER
NL	2		50%	50%		100%
DK	2				50%	50%
SI	10		70%		20%	30%
IT	2		50%			50%
UK	3	67%	67%	67%	67%	33%
FR	2	50%			50%	
ES	0					
PL	4		50%		25%	75%
DE	2		50%	50%	50%	50%

LEVEL OF PUBLIC AUTHORITY

Although the samples are very small, the results indicate that Slovenian public organizations mostly have national authority, German public organizations have local authority, while Spanish and Polish mostly have regional authority.

What level of authority is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

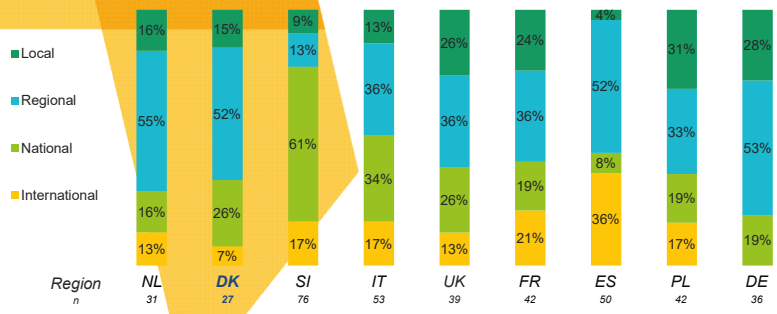
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

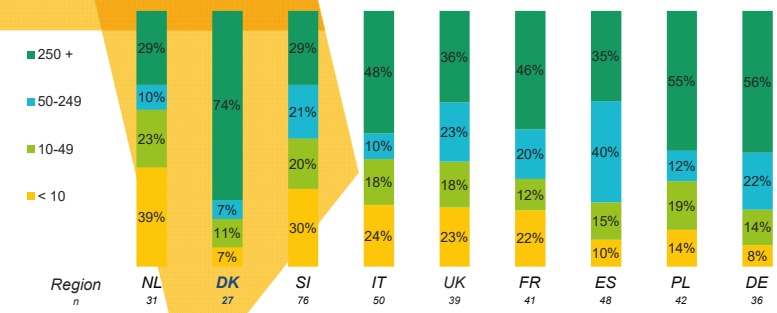
What is the main scope of the organization?



NUMBER OF EMPLOYEES

All regions have a noticeable share of organizations with more than 250 employees, the highest share was recorded in Denmark (74%), while in the Netherlands and Slovenia it is the lowest and stands at 29% in both regions. The Netherlands and Slovenia also have the highest share of organizations with less than 10 employees, 39% and 30% respectively.

How many employees does your organization have?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Appendix

Input for "Regional Policy Framework Index"

Survey Question: *Thinking about the current policy framework in your region, to what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region?*

- The region's policy framework provides a lead for legitimating setting-up and implementing initiatives in the fields of smart health and care solutions.
- The region's policy framework influences funding decisions to support initiatives in the field of smart health and care solutions.
- The region's policy framework provides policy guidelines and a legal framework that helps the private and public sectors work together to implement smart health and care services.
- The region's policy framework supports integration of smart health and care services into the publicly-funded health and care system.
- The region's policy framework provides support for developing a clear implementation plan for successful deployment of smart health and care solutions.
- Regional policy makers stimulate innovation cooperation partnership approach to an inclusive engagement strategy that encourages commitment and creates a close cooperation between public authorities, education and research institutions, business, and citizens/patients.
- The region's policy framework explicitly supports transnational knowledge and experience exchange in the field of smart health and care.

Input for “Innovation Support Service Index”

Survey Question: *In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region?*

- Establish infrastructure which enables development of innovation and knowledge transfer, for example living labs, demonstrators, test sites, show rooms, easily accessible research environments, clinical trials, open source facilities.
- Established knowledge networks, collaboration platforms to support continuous improvement.
- Established public-private partnerships.
- Support for bringing products and services to the market and growing market share.
- Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.
- Procedural and administrative simplifications.
- Programs for innovation cooperation partnerships.
- Support for the valorisation of research outcomes.
- Support on legal aspects including intellectual property rights, procurement, regulation.

Input for “Development & Use of innovative products & Services Index”

Survey Question: *How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region?*

- Development of new ideas related to smart health and care solutions in your region?
- Development of innovative products and services for smart health and care in your region?
- Use of innovative smart health and care products and services in practice on a daily basis in your region.

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

The end ☺

Questions welcome

Project smedia

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Report 3: Slovenia

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Sample & Respondents

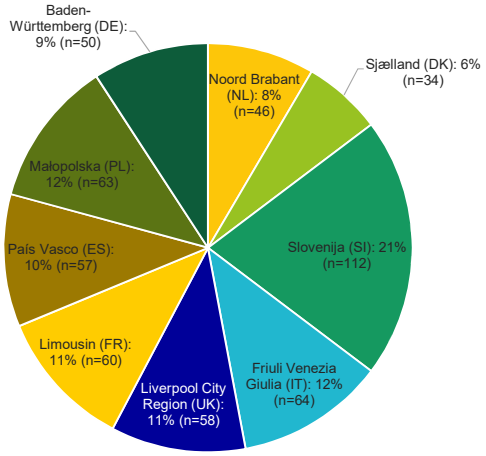
Input for „Intro to the theme“

ITHACA SURVEY BASICS

In total, 544 of stakeholders across nine European regions have responded to the ITHACA SA Survey. The highest absolute numbers of responses were collected in Slovenia, Italy and Poland, and the lowest in Denmark and the Netherlands.

TOTAL RESPONSES
544

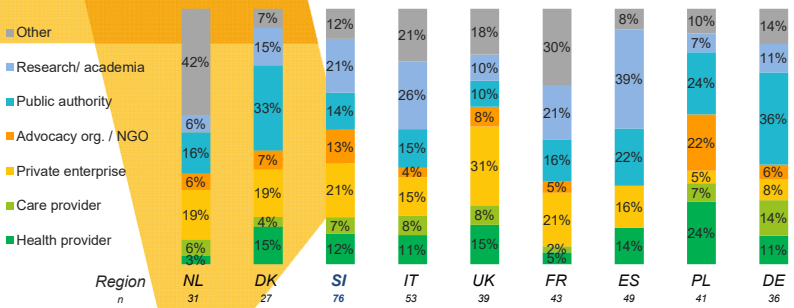
Note: Additionally, 4 responses from non listed regions were collected. But are excluded from further analysis.



TYPE OF ORGANIZATION

Poland has the highest share of respondents from health providing organizations (24%), while the Netherlands and France have the lowest. The share of respondents from private enterprises is the highest in the UK (39%).

What type is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

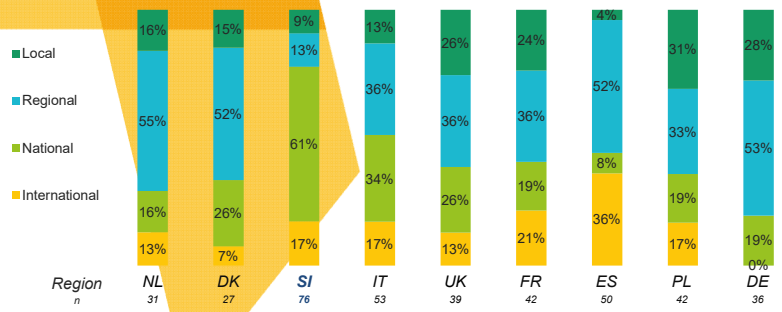
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

What is the main scope of the organization?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

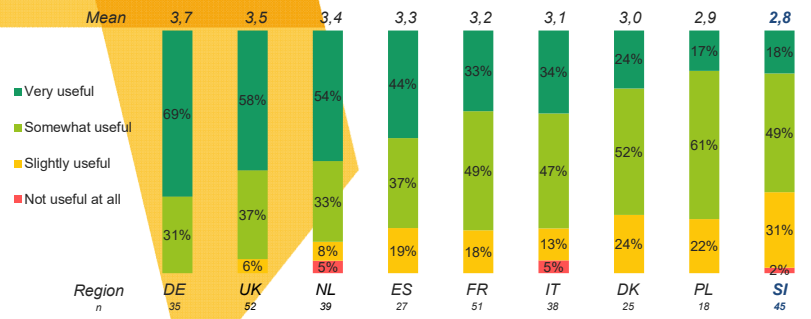
Results Summary

Input for „Intro to the theme“

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

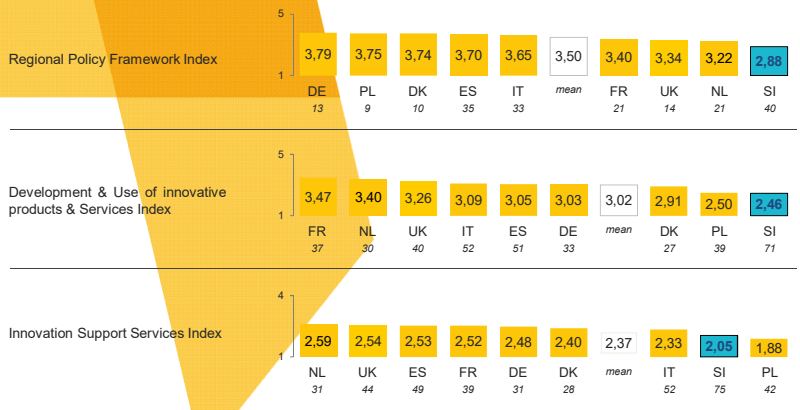
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION & POLICY INDICES

Composite indices are presented below. The highest average score on innovation support services was recorded in **the Netherlands** and the lowest in **Poland**. According to respondents the development and use of innovative products and services is the highest in France and the Netherlands, and the lowest in Slovenia and Poland. Regional policy framework on the other hand, is rated highly in **Germany**, **Poland** and **Denmark**, whereas in **Slovenia** it is distinctively lower.



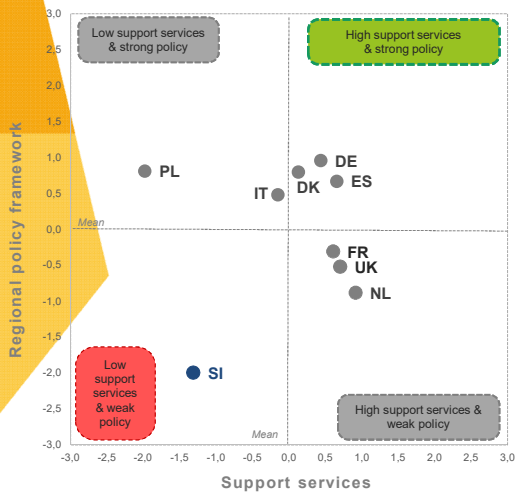
Note: Composite Regional indices are calculated as an average of participants' average score on all items within the same theme. Items for Innovation Support Service Index: Q13a to Q13i. Items for Development & Use of innovative products & Services Index: Q15a, Q15b and Q15c. Items for Regional Policy Framework Index: Q19a to Q19g.

REGION POSITIONING

In comparison of regions by innovation support services index and regional policy framework index, **Spain** and **Germany** are positioned as regions with high support services and strong policy, while **Slovenia** is positioned as a region with low support services and the weakest regional policy. Poland, on the other hand, is positioned as a region with strong policy but low support services, while in the Netherlands the situation is reversed.

Note: Regional Support services Indices on X axis and Regional policy framework indices on Y axis.

Values on both dimensions (Support services and Policy framework) have been standardized to neutralize the effect of different measurement scales.



ITHACA
Interreg Europe

European Union
European Regional Development Fund

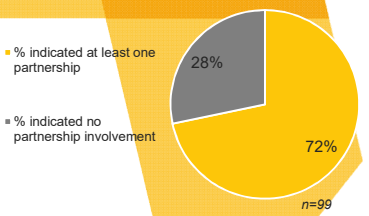
SI Highlights

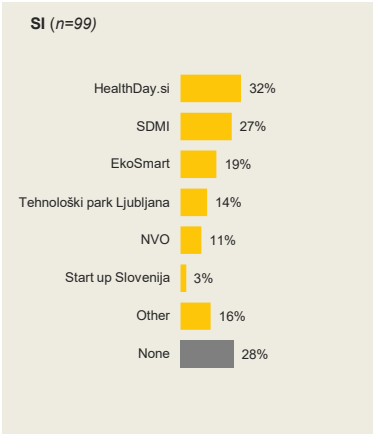
Input for „World cafe“

ECOSYSTEM – Cooperation partnership involvement

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?

Involvement in at least one cooperation partnership:

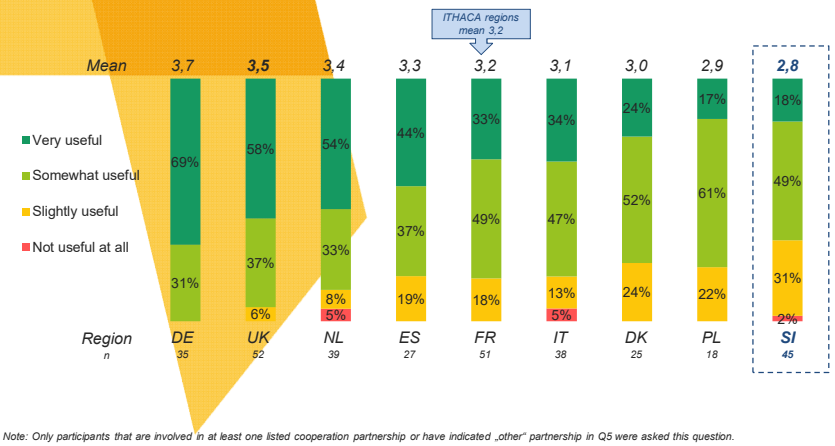




ECOSYSTEM - Usefulness of involvement

On a scale from 1 (Not useful at all) to 4 (Very useful), the SI region has the lowest average value amongst the ITHACA regions, with only 18% of respondents finding the involvement very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



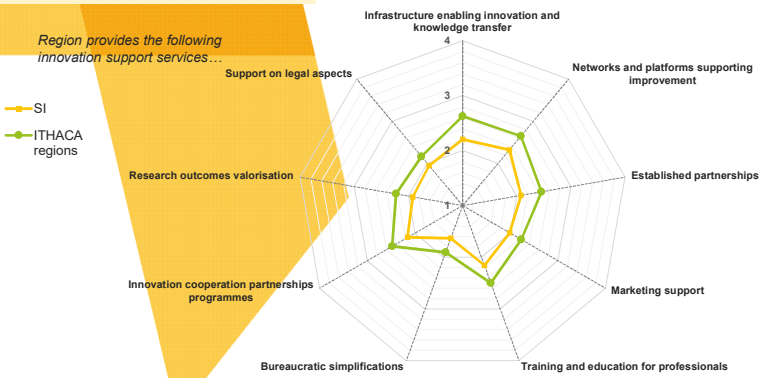
Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION - Support services

SI Support Services Index is lower than the average index value of ITHACA regions. All individual items are rated below the ITHACA average.

Within the region, *Networks and platforms supporting improvement* (2,32) has on average the highest rated extent of all Support services items, followed by *Infrastructure enabling innovation and knowledge transfer* (2,21), while *Bureaucratic simplifications* have by far the lowest ratings, with the average of 1,63.

SI Support Services Index	**2,05**
ITHACA regions Support service Index	2,37



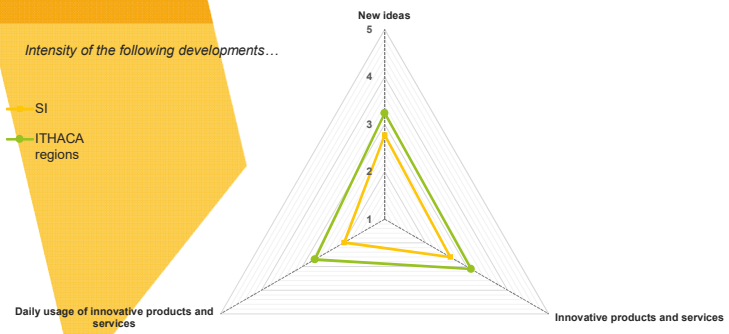
Note: Regional index is based on respondents who answered all items within theme (Q13a to Q13i). Global index is a simple average over ITHACA regions, where units are regions.

INNOVATION - Development & use of innovative products & services

SI Development & Use of innovative Products & Services Index is lower than the average index value of ITHACA regions. The rated intensities of all developments are below the corresponding averages of all ITHACA regions.

Within the region, *New ideas* (2,77) are rated as the most intensively occurring development in the field, followed by *Innovative products and services* (2,60). The value is much lower for the intensity of *Daily usage of innovative products and services* (1,99).

SI Development & Use of innovative products & Services Index	**2,46**
ITHACA regions Development & Use of innovative products & Services Index	3,02



Note: Regional index is based on respondents who answered all items within theme (Q15a to Q15c). Global index is a simple average over ITHACA regions, where units are regions.

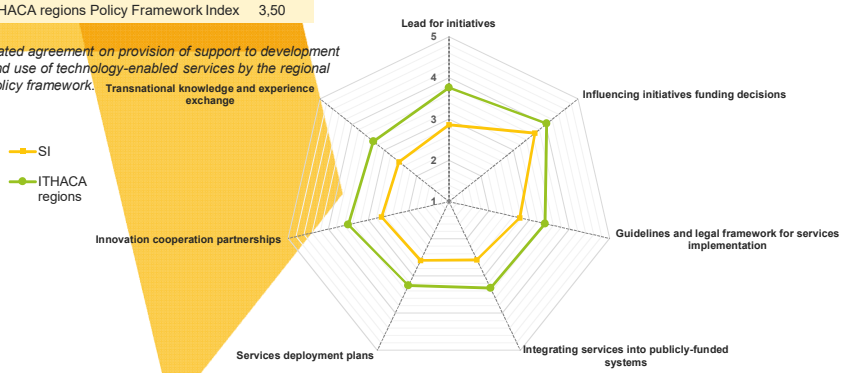
POLICY – Regional Policy Framework

SI Regional Policy Index is profoundly lower than the average index value of ITHACA regions. This is true for all individual items, except for *Influencing initiatives funding decisions*, where the difference is not that profound.

Within the region, *Influencing initiatives funding decisions* (3,67) has the highest average value among the regional policy framework facets, distantly followed by *Lead for initiatives* (2,86). The lowest average values were recorded for *Services deployment plans* (2,58), *Integrating services into publicly-funded systems* (2,57) and *Transnational knowledge and experience exchange* (2,55) .

SI Policy Framework Index	**2,88**
ITHACA regions Policy Framework Index	3,50

Rated agreement on provision of support to development and use of technology-enabled services by the regional policy framework.

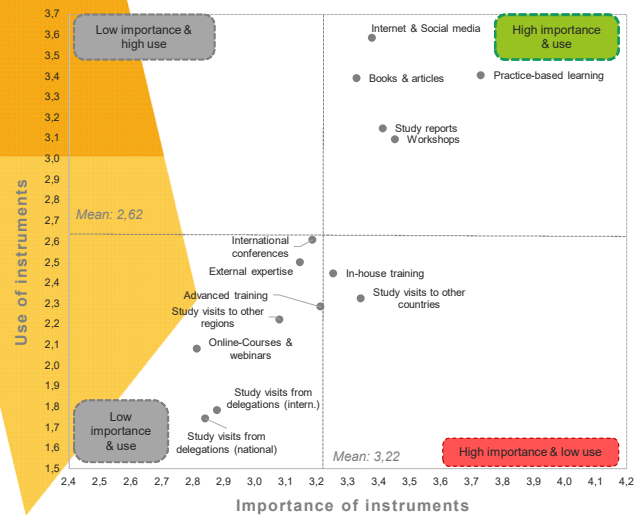


Note: Regional index is based on respondents who answered all items within theme (Q19a to Q19g). Global index is a simple average over ITHACA regions, where units are regions.

LEARNING – Relative importance & use of instruments

In SI the most important and most used instruments in practice from a relative point of view are: **Practice-based learning**, **Workshops**, **Study reports**, **Internet and social media** and **Books and articles**. While **In-house training** and **Study visits to other countries** fall in the category of high importance and low use.

***Sample sizes** for presented instruments and their use/importance vary from 72 to 76.*



Note: Measurement scale for importance and use goes from 1 to 4.

ITHACA
Interreg Europe

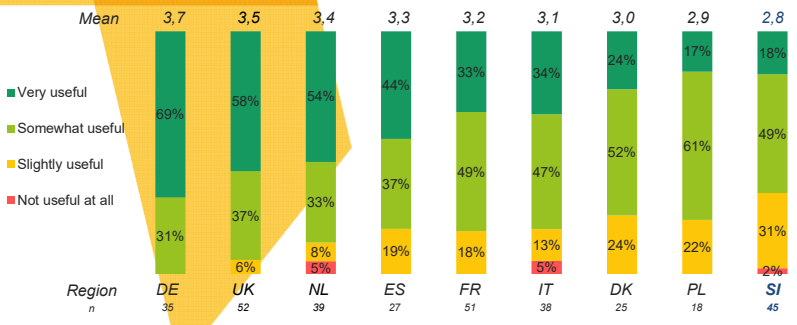
European Union
European Regional
Development Fund

Detailed overview of the results

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

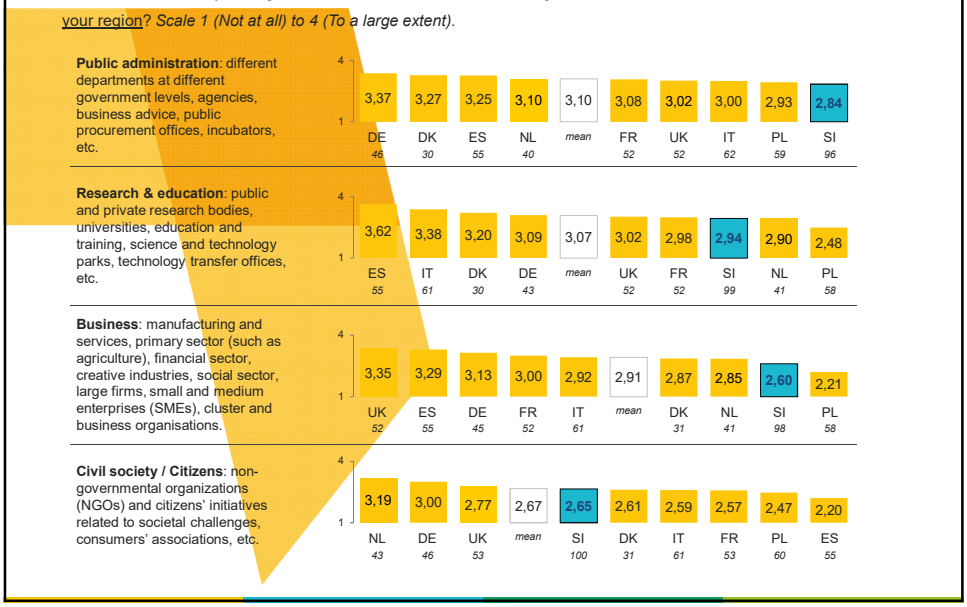
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

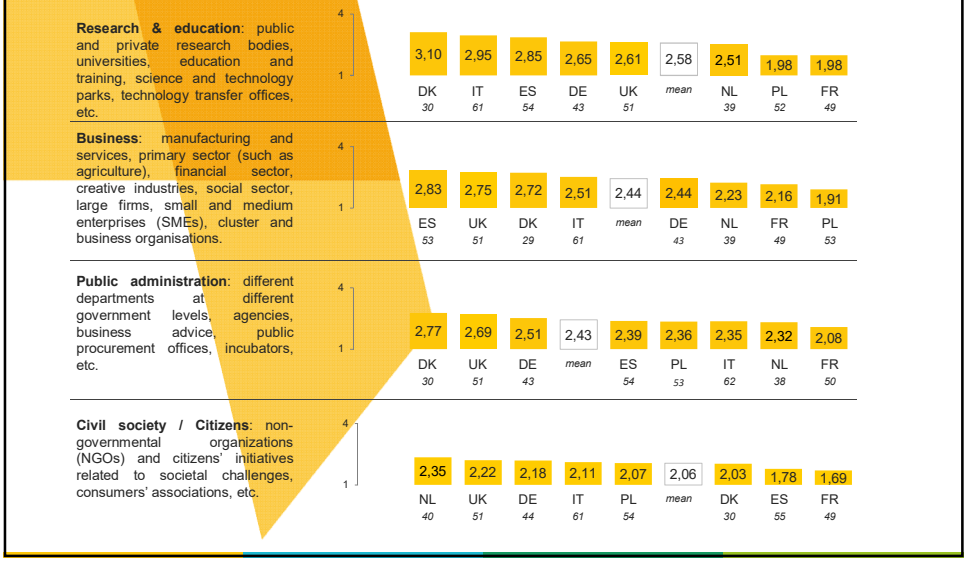
ECOSYSTEM – Regional collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within your region? *Scale 1 (Not at all) to 4 (To a large extent).*



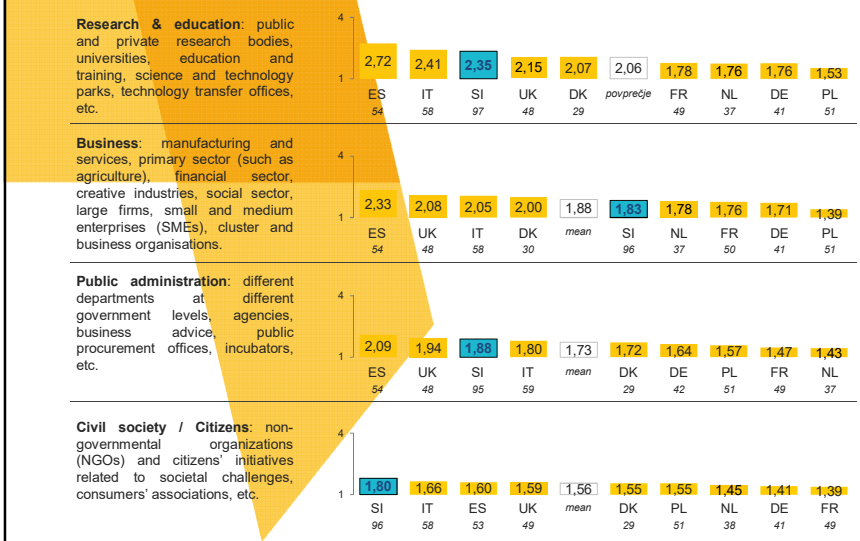
ECOSYSTEM – National collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other regions in your country? *Scale 1 (Not at all) to 4 (To a large extent).*



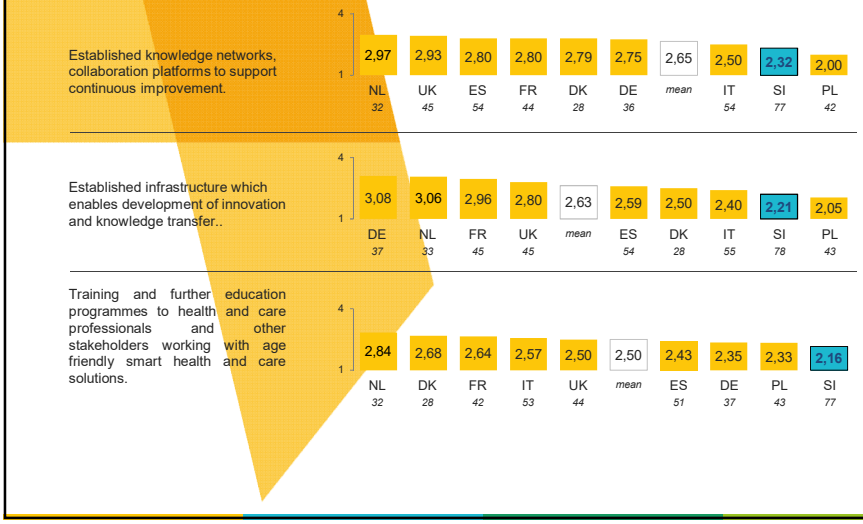
ECOSYSTEM – European collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other EU countries? *Scale 1 (Not at all) to 4 (To a large extent).*



INNOVATION - Support services 1

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*



INNOVATION - Support services 2

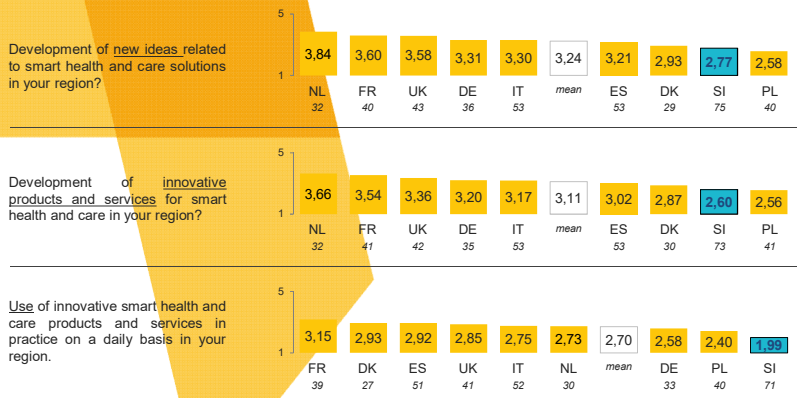
In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

INNOVATION - Support services 3

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

INNOVATION – Development and use of innovative products and services

How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region? *Scale 1 (Very low intensity) to 5 (Very high intensity).*



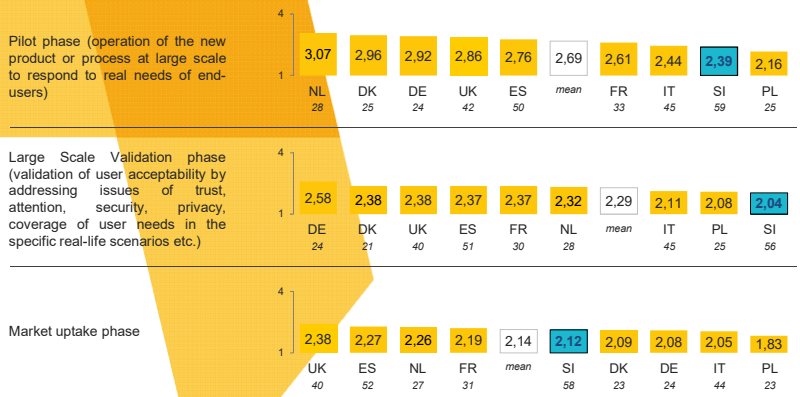
INNOVATION - Phases 1

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*

Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

INNOVATION - Phases 2

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*

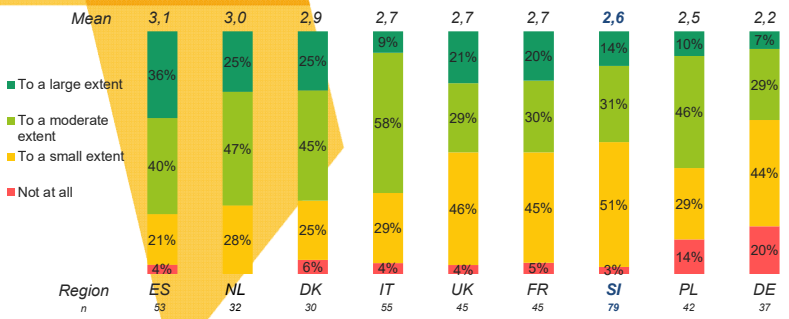


Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

POLICY - Information

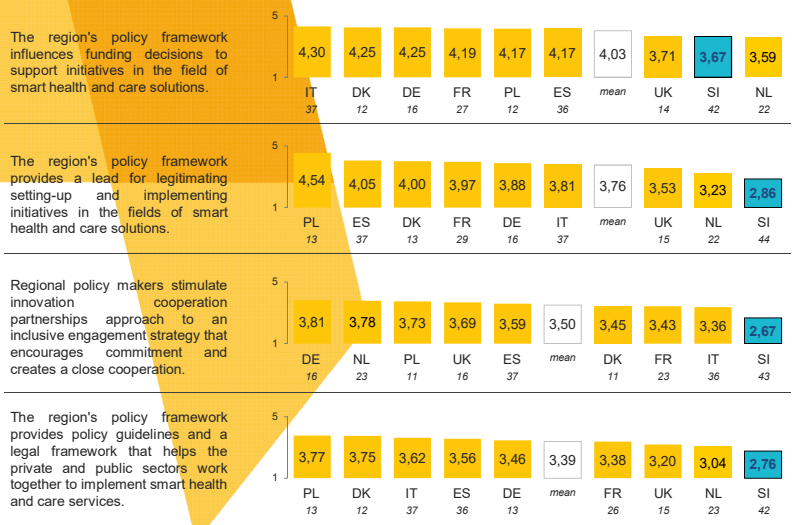
The share of respondents that are to a large or moderate extent informed about regional policy, strategies and programs is highest in **Spain**, **the Netherlands** and **Denmark**, and the lowest in Slovenia and Germany. The share of respondents who claim that are not informed at all is the highest in **Poland** and **Germany**.

To what extent are you informed about the regional policy, strategies, and programs in the field of smart health and care?



POLICY - Framework 1

To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

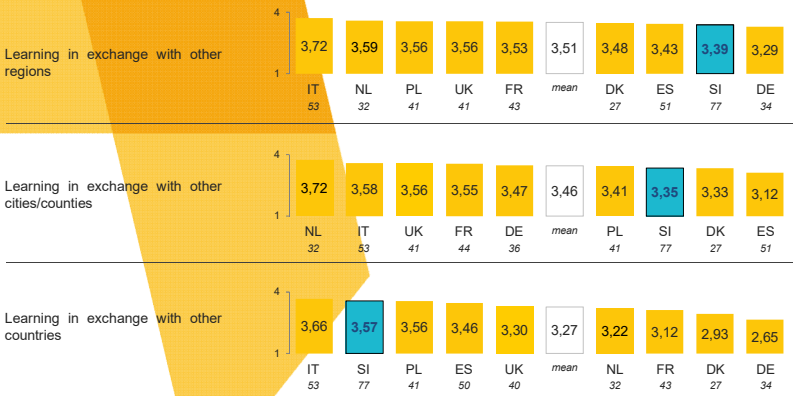
POLICY - Framework 2

To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*

Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

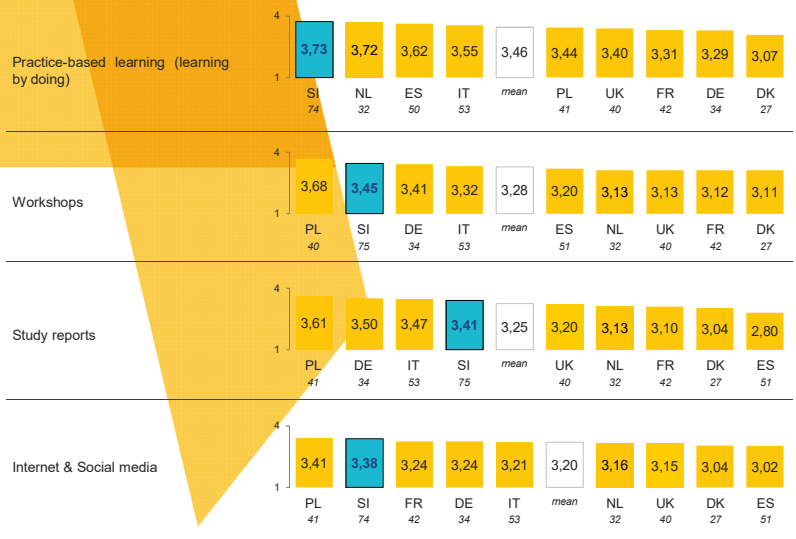
LEARNING - Importance to learn in exchange

How important is it for your work to learn in exchange with experts and other stakeholders within your own region/country or from other cities/counties, regions and countries? *Scale 1 (Not important at all) to 4 (Very important).*



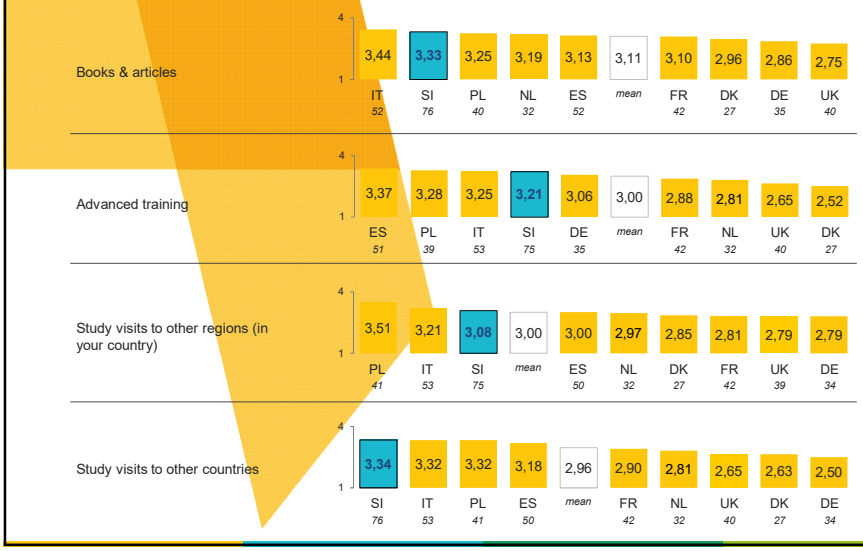
LEARNING - Importance of channels / instruments / approaches 1

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



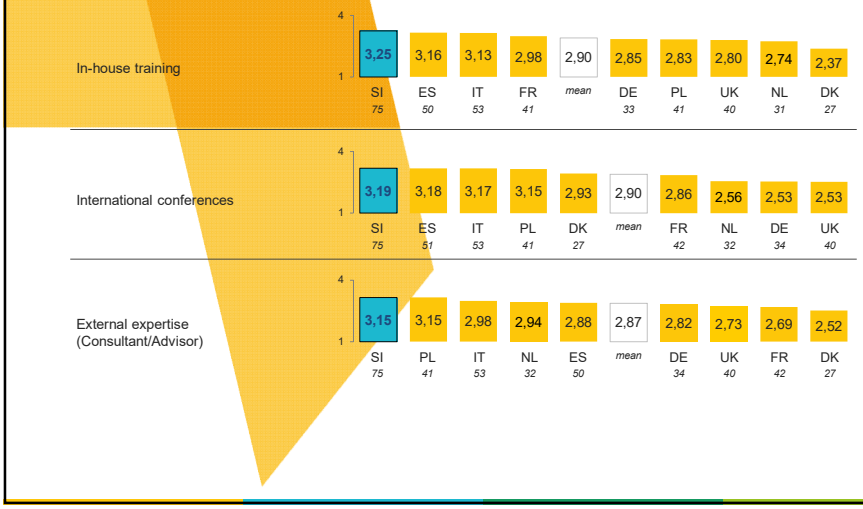
LEARNING - Importance of channels / instruments / approaches 2

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



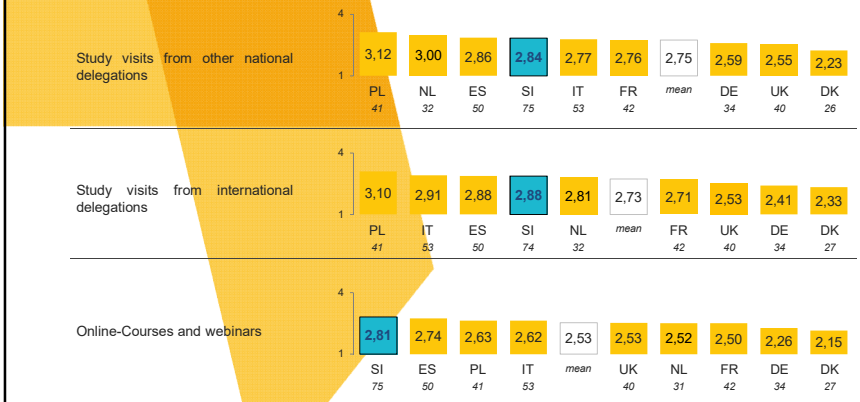
LEARNING - Importance of channels / instruments / approaches 3

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



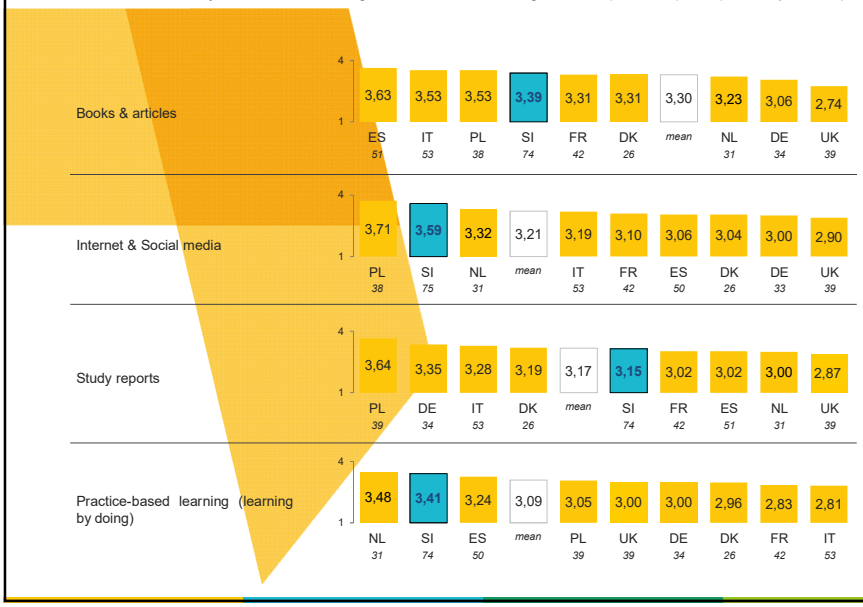
LEARNING - Importance of channels / instruments / approaches 4

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



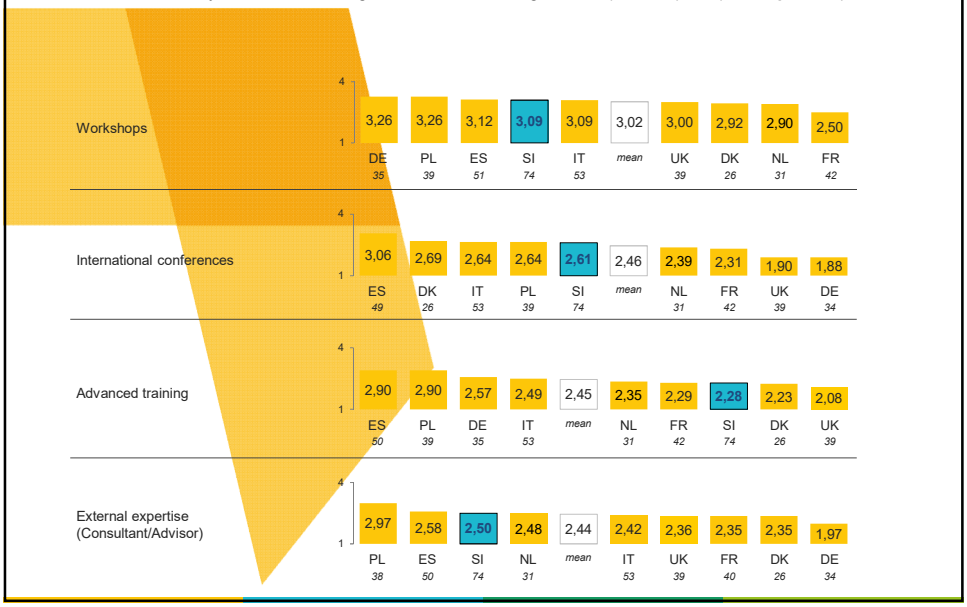
LEARNING - Use of instruments 1

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



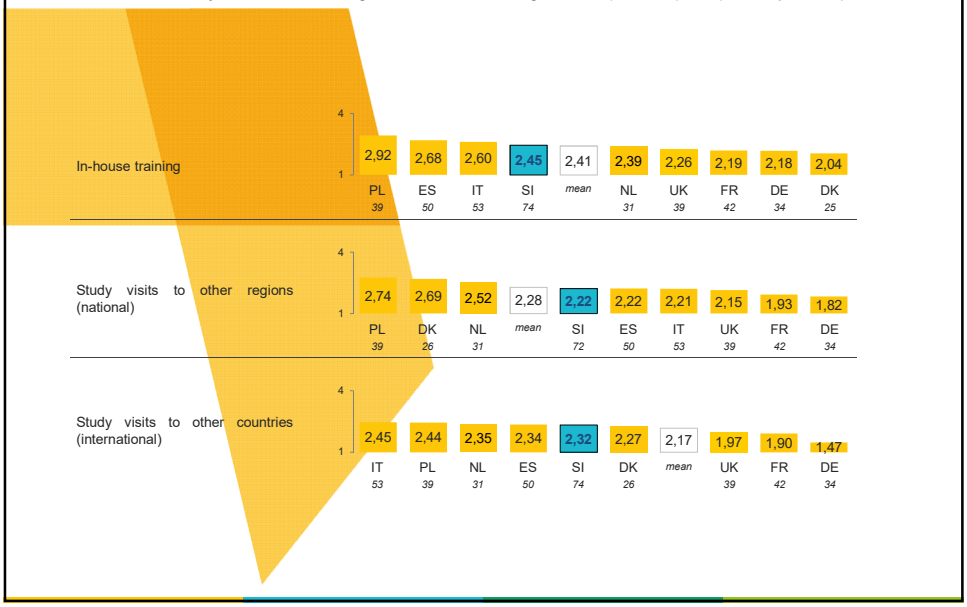
LEARNING - Use of instruments 2

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



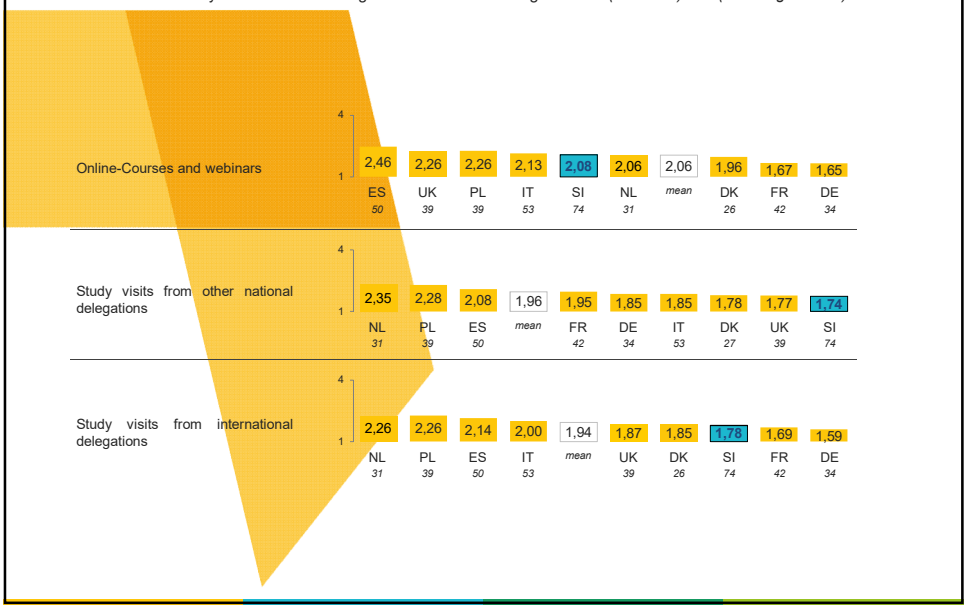
LEARNING - Use of instruments 3

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



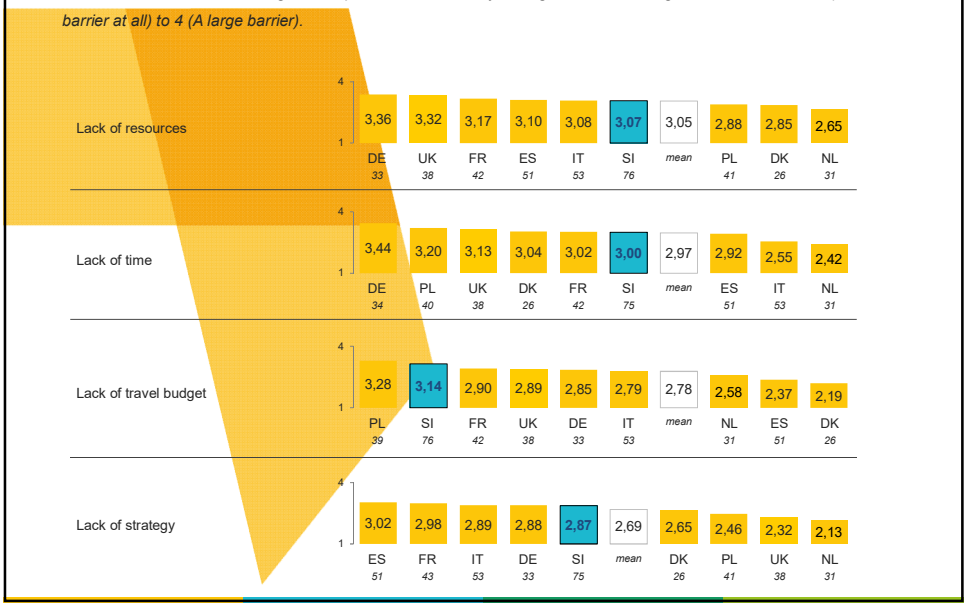
LEARNING - Use of instruments 4

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



LEARNING - Barriers 1

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



LEARNING - Barriers 2

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

LEARNING - Barriers 3

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

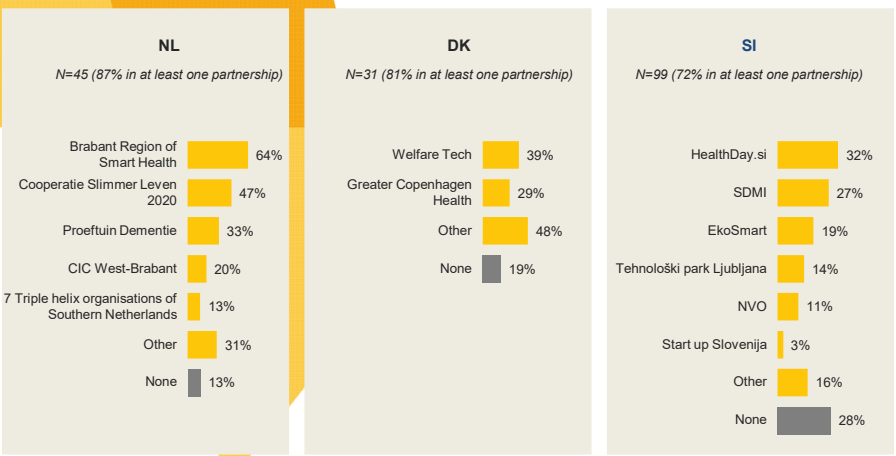
ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Detailed sample characteristics

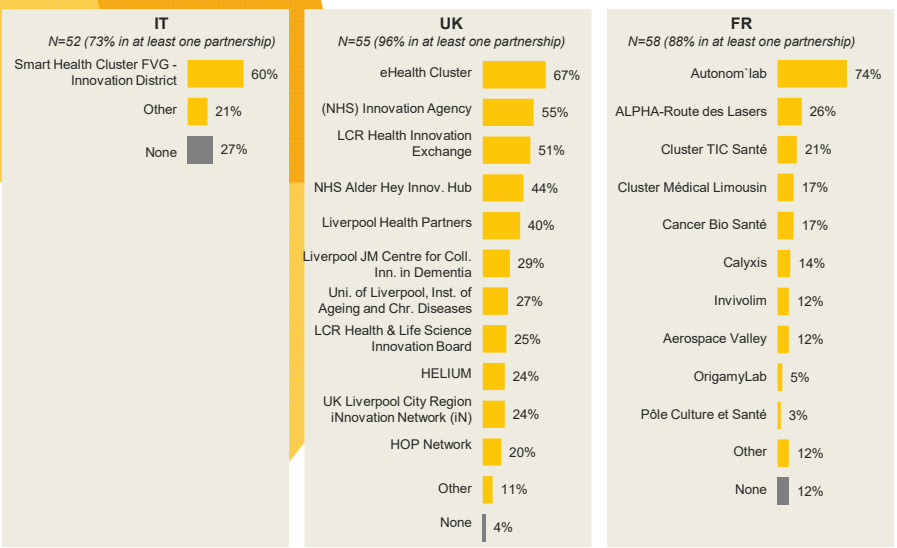
COOPERATION PARTNERSHIPS INVOLVEMENT 1

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



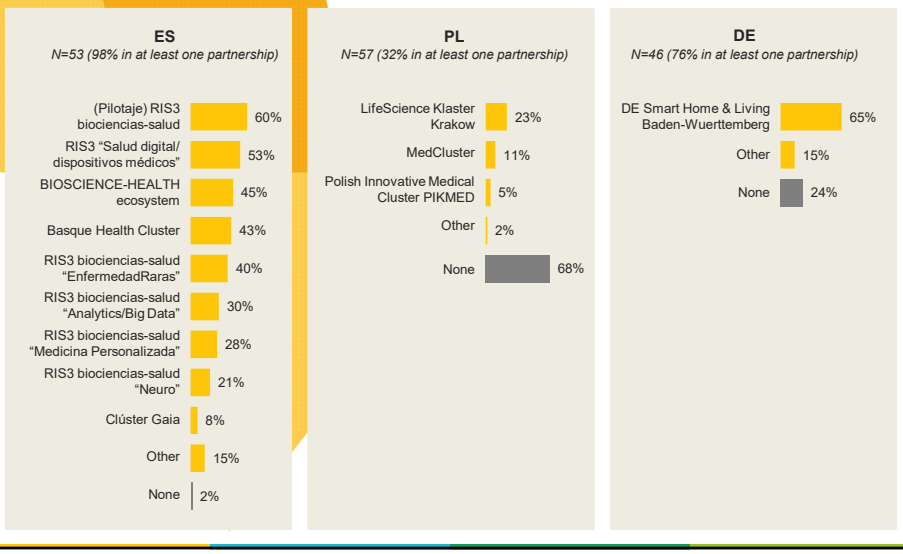
COOPERATION PARTNERSHIPS INVOLVEMENT 2

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



COOPERATION PARTNERSHIPS INVOLVEMENT 3

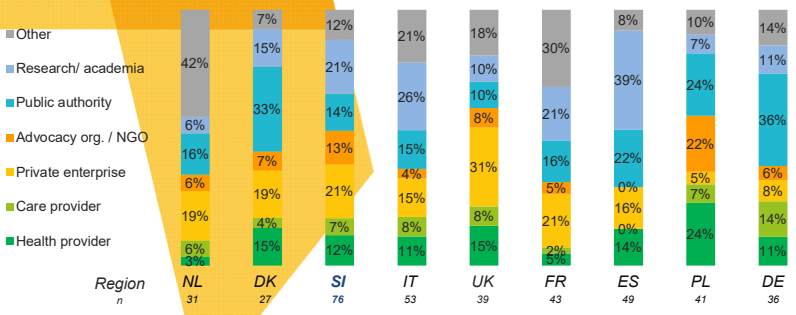
Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



TYPE OF ORGANIZATION

Poland has the highest share of respondents that are health providers (24%) while the Netherlands and France have the lowest. UK has the highest share of respondents that are private enterprises (39%).

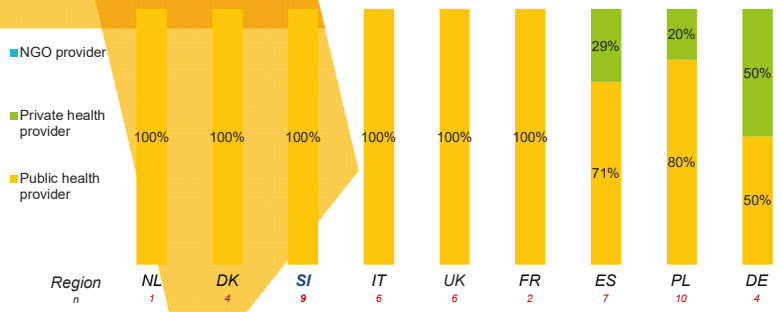
What type is your organization?



TYPE OF HEALTH PROVIDER

Although the samples are very small, the results indicate that in almost all regions a vast majority of health providers are public organizations.

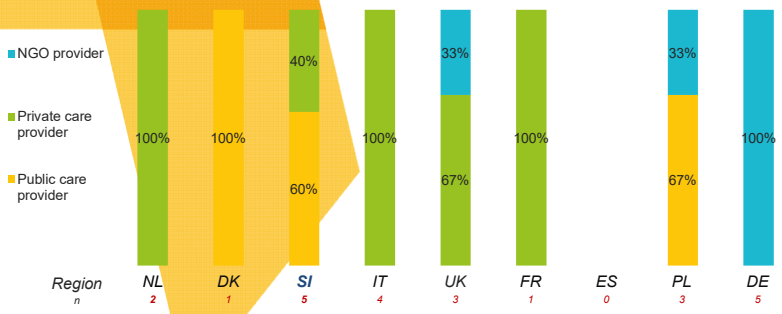
What type of health provider is your organization?



TYPE OF CARE PROVIDER

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

What type of care provider is your organization?



TYPE OF ADVOCACY

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

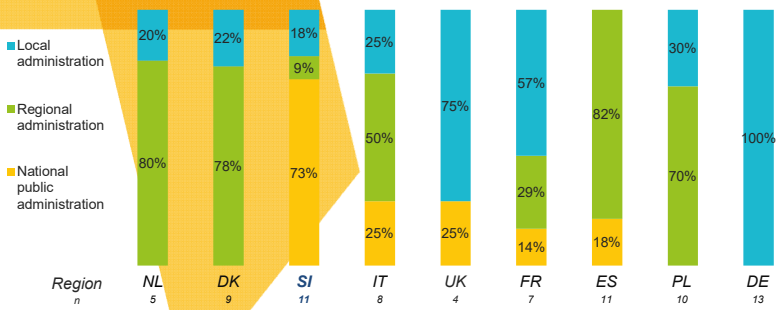
What type of advocacy does your organization provide?

Region	n	H. CARE PROFESSIO-NALS	OLDER PEOPLE	PATIENTS	INFORMAL CAREGIVERS	OTHER
NL	2		50%	50%		100%
DK	2				50%	50%
SI	10		70%		20%	30%
IT	2		50%			50%
UK	3	67%	67%	67%	67%	33%
FR	2	50%			50%	
ES	0					
PL	4		50%		25%	75%
DE	2		50%	50%	50%	50%

LEVEL OF PUBLIC AUTHORITY

Although the samples are very small, the results indicate that Slovenian public organizations mostly have national authority, German public organizations have local authority, while Spanish and Polish mostly have regional authority.

What level of authority is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

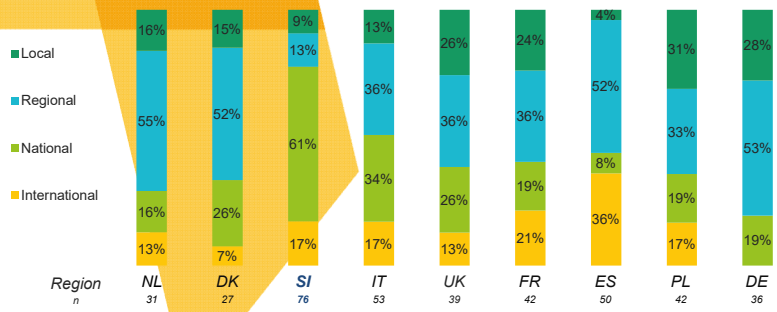
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

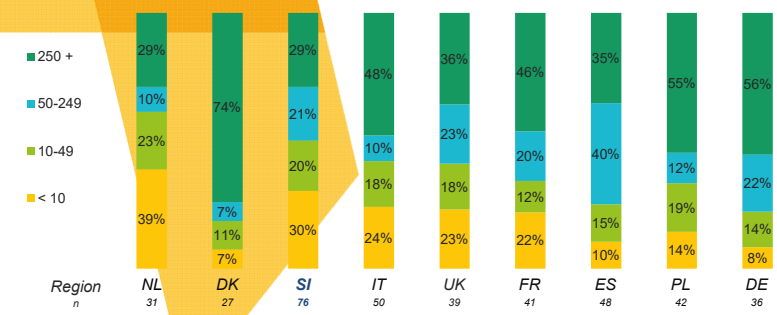
What is the main scope of the organization?



NUMBER OF EMPLOYEES

All regions have a noticeable share of organizations with more than 250 employees, the highest share was recorded in Denmark (74%), while in the Netherlands and Slovenia it is the lowest and stands at 29% in both regions. The Netherlands and Slovenia also have the highest share of organizations with less than 10 employees, 39% and 30% respectively.

How many employees does your organization have?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Appendix

Input for "Regional Policy Framework Index"

Survey Question: *Thinking about the current policy framework in your region, to what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region?*

- The region's policy framework provides a lead for legitimating setting-up and implementing initiatives in the fields of smart health and care solutions.
- The region's policy framework influences funding decisions to support initiatives in the field of smart health and care solutions.
- The region's policy framework provides policy guidelines and a legal framework that helps the private and public sectors work together to implement smart health and care services.
- The region's policy framework supports integration of smart health and care services into the publicly-funded health and care system.
- The region's policy framework provides support for developing a clear implementation plan for successful deployment of smart health and care solutions.
- Regional policy makers stimulate innovation cooperation partnership approach to an inclusive engagement strategy that encourages commitment and creates a close cooperation between public authorities, education and research institutions, business, and citizens/patients.
- The region's policy framework explicitly supports transnational knowledge and experience exchange in the field of smart health and care.

Input for “Innovation Support Service Index”

Survey Question: *In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region?*

- Establish infrastructure which enables development of innovation and knowledge transfer, for example living labs, demonstrators, test sites, show rooms, easily accessible research environments, clinical trials, open source facilities.
- Established knowledge networks, collaboration platforms to support continuous improvement.
- Established public-private partnerships.
- Support for bringing products and services to the market and growing market share.
- Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.
- Procedural and administrative simplifications.
- Programs for innovation cooperation partnerships.
- Support for the valorisation of research outcomes.
- Support on legal aspects including intellectual property rights, procurement, regulation.

Input for “Development & Use of innovative products & Services Index”

Survey Question: *How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region?*

- Development of new ideas related to smart health and care solutions in your region?
- Development of innovative products and services for smart health and care in your region?
- Use of innovative smart health and care products and services in practice on a daily basis in your region.

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

The end ☺

Questions welcome

Project smedia

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Report 4: Friuli Venezia Giulia (Italy)

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Sample & Respondents

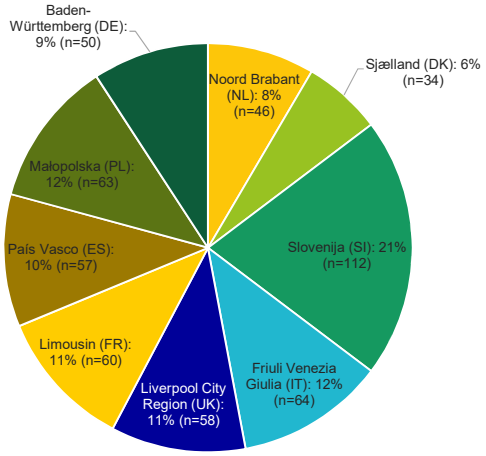
Input for „Intro to the theme“

ITHACA SURVEY BASICS

In total, 544 of stakeholders across nine European regions have responded to the ITHACA SA Survey. The highest absolute numbers of responses were collected in Slovenia, Italy and Poland, and the lowest in Denmark and the Netherlands.

TOTAL RESPONSES
544

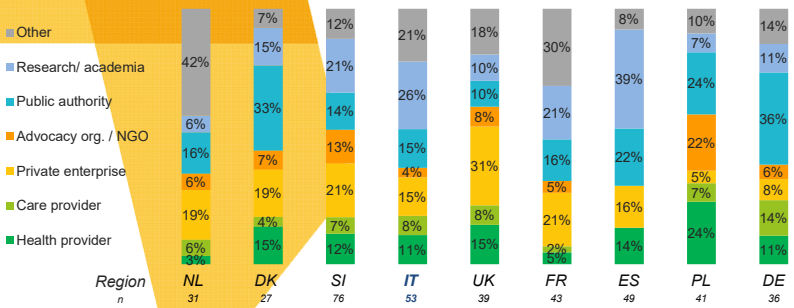
Note: Additionally, 4 responses from non listed regions were collected. But are excluded from further analysis.



TYPE OF ORGANIZATION

Poland has the highest share of respondents from health providing organizations (24%), while the Netherlands and France have the lowest. The share of respondents from private enterprises is the highest in the UK (39%).

What type is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

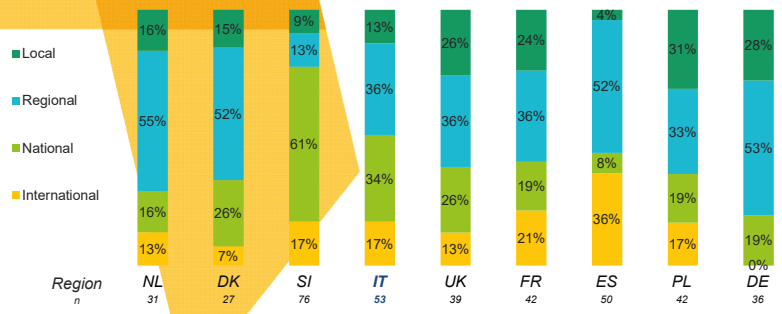
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

What is the main scope of the organization?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

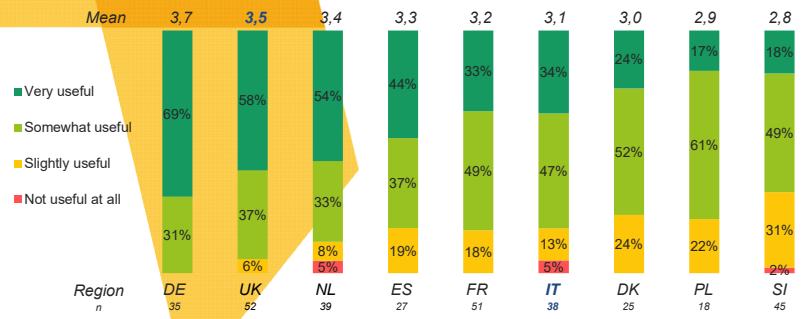
Results Summary

Input for „Intro to the theme“

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

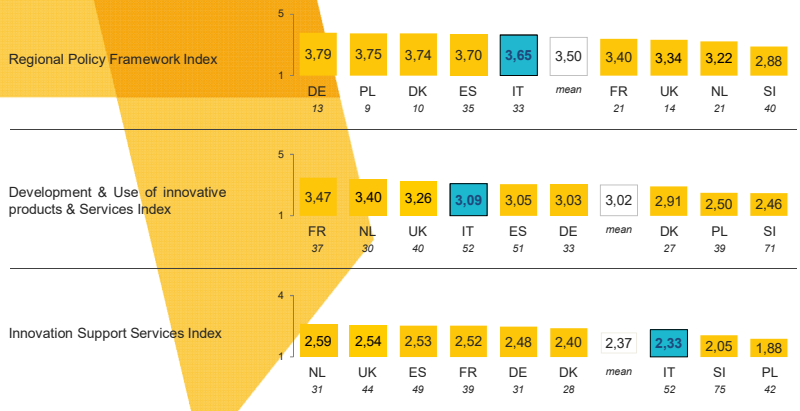
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION & POLICY INDICES

Composite indices are presented below. The highest average score on innovation support services was recorded in **the Netherlands** and the lowest in **Poland**. According to respondents the development and use of innovative products and services is the highest in France and the Netherlands, and the lowest in Slovenia and Poland. Regional policy framework on the other hand, is rated highly in **Germany**, **Poland** and **Denmark**, whereas in **Slovenia** it is distinctively lower.



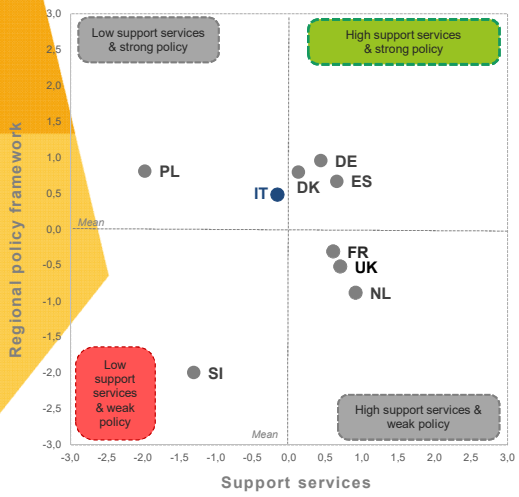
Note: Composite Regional indices are calculated as an average of participants' average score on all items within the same theme. Items for Innovation Support Service Index: Q13a to Q13i. Items for Development & Use of innovative products & Services Index: Q15a, Q15b and Q15c. Items for Regional Policy Framework Index: Q19a to Q19g.

REGION POSITIONING

In comparison of regions by innovation support services index and regional policy framework index, **Spain** and **Germany** are positioned as regions with high support services and strong policy, while **Slovenia** is positioned as a region with low support services and the weakest regional policy. Poland, on the other hand, is positioned as a region with strong policy but low support services, while in the Netherlands the situation is reversed.

Note: Regional Support services Indices on X axis and Regional policy framework indices on Y axis.

Values on both dimensions (Support services and Policy framework) have been standardized to neutralize the effect of different measurement scales.



ITHACA
Interreg Europe

European Union
European Regional Development Fund

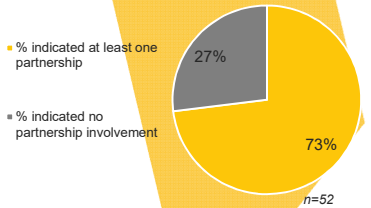
IT Highlights

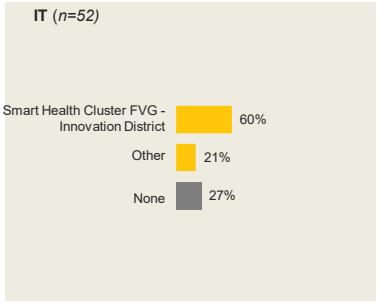
Input for „World cafe“

ECOSYSTEM – Cooperation partnership involvement

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?

Involvement in at least one cooperation partnership:

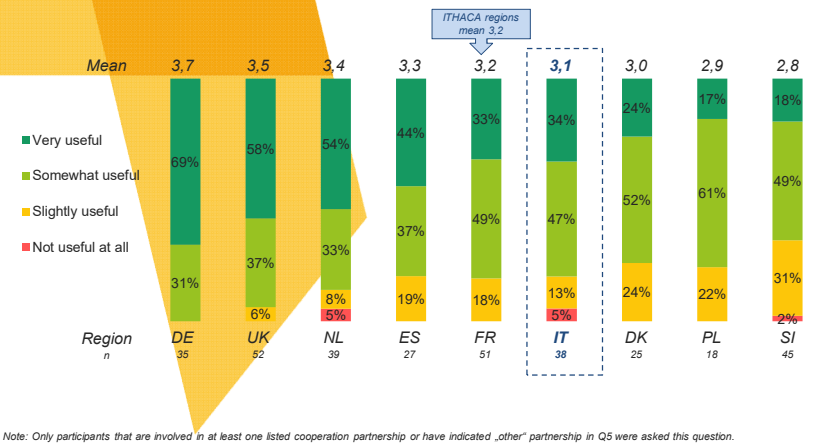




ECOSYSTEM - Usefulness of involvement

On a scale from 1 (Not useful at all) to 4 (Very useful), the IT region has the average value close to the average value of ITHACA regions, with 34% of respondents finding the involvement very useful, while 5% of respondents find it not useful at all.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



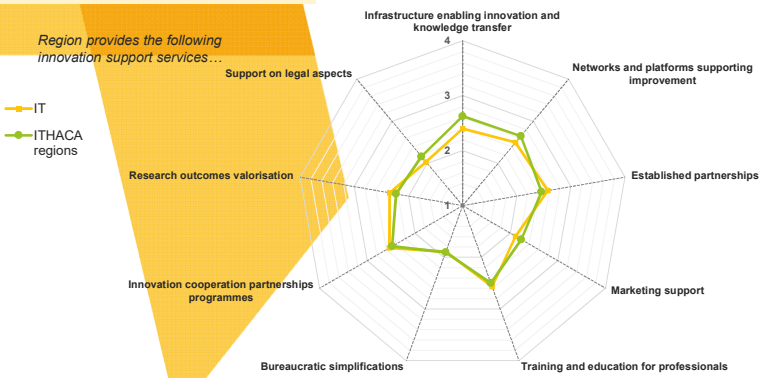
Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION - Support services

IT Support Services Index is very slightly lower than the average index value of ITHACA regions. The rated extent of services is close to ITHACA averages for all individual items.

Within the region, *Established partnerships* and *Training and education for professionals* have on average the highest rated extent of all Support services items, both with the average of 2,57, while *Bureaucratic simplifications* have by far the lowest rating, with the average of 1,89.

IT Support Services Index	**2,33**
ITHACA regions Support service Index	2,37



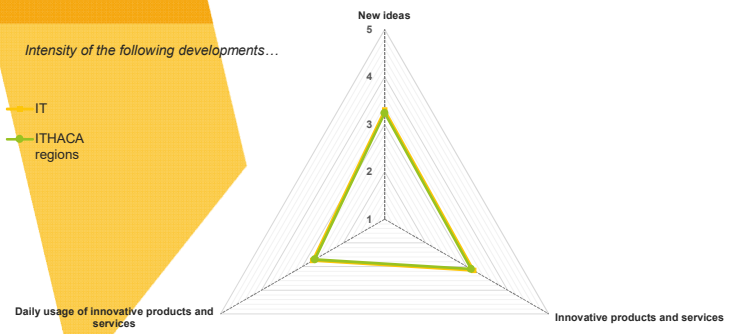
Note: Regional index is based on respondents who answered all items within theme (Q13a to Q13i). Global index is a simple average over ITHACA regions, where units are regions.

INNOVATION - Development & use of innovative products & services

IT Development & Use of innovative Products & Services Index is very slightly higher than the average index value of ITHACA regions. The rated intensities of all developments are just at about the same level as the corresponding averages of all ITHACA regions.

Within the region, *New ideas* (3,30) are rated as the most intensively occurring development in the field, followed by *Innovative products and services* (3,17). The value is somewhat lower for the intensity of *Daily usage of innovative products and services* (2,75).

IT Development & Use of innovative products & Services Index	**3,09**
ITHACA regions Development & Use of innovative products & Services Index	3,02



Note: Regional index is based on respondents who answered all items within theme (Q15a to Q15c). Global index is a simple average over ITHACA regions, where units are regions.

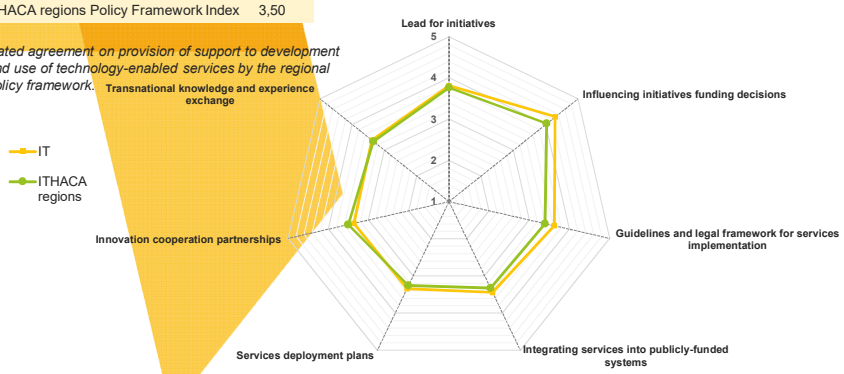
POLICY – Regional Policy Framework

IT Regional Policy Index is somewhat higher than the average index value of ITHACA regions. Most individual item averages are at about the same level as corresponding ITHACA regions averages, except for *Influencing initiatives funding decisions* and *Guidelines and legal framework for services implementation,* which are slightly above the corresponding ITHACA average.

Within the region, *Influencing initiatives funding decisions* (4,30) has by far the highest average value among the regional policy framework facets, followed by *Lead for initiatives* (3,81). The lowest average values were recorded for *Innovation cooperation partnerships* (3,36) and *Services deployment plans* (3,34).

IT Policy Framework Index	**3,65**
ITHACA regions Policy Framework Index	3,50

Rated agreement on provision of support to development and use of technology-enabled services by the regional policy framework.

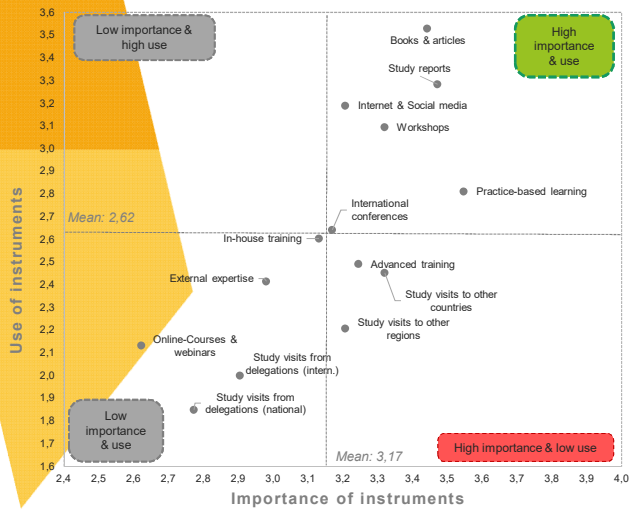


Note: Regional index is based on respondents who answered all items within theme (Q19a to Q19g). Global index is a simple average over ITHACA regions, where units are regions.

LEARNING – Relative importance & use of instruments

In IT the most important and most used instruments in practice from a relative point of view are: **Practice-based learning**, **Study reports**, **Books and articles**, **Workshops** and **Internet and social media**. While **Study visits to other countries**, **Advanced training** and **Study visits to other regions** have somewhat high relative discrepancy between the importance and use.

***Sample sizes** for presented instruments and their use/importance vary from 52 to 53.*



Note: Measurement scale for importance and use goes from 1 to 4.

ITHACA
Interreg Europe

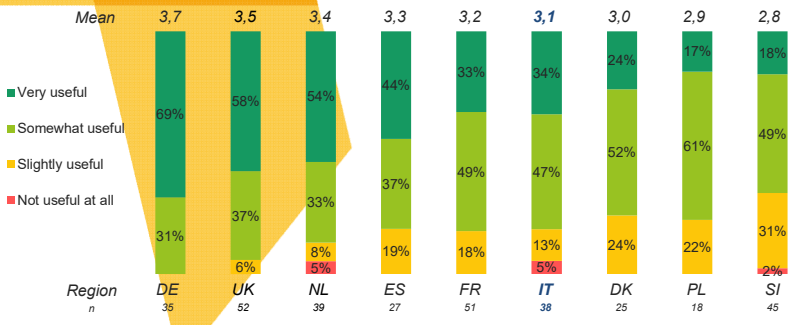
European Union
European Regional
Development Fund

Detailed overview of the results

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



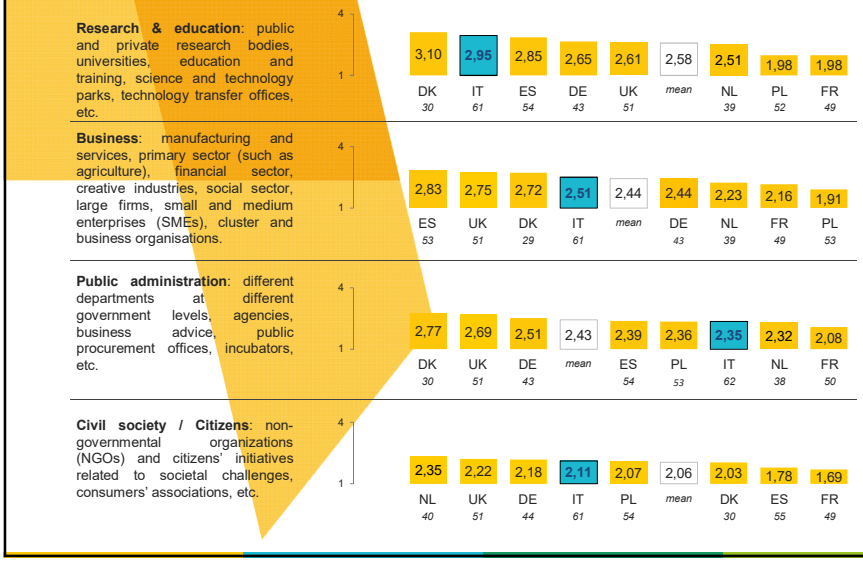
Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

ECOSYSTEM – Regional collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within your region? *Scale 1 (Not at all) to 4 (To a large extent).*

ECOSYSTEM – National collaboration

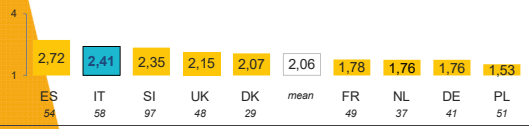
To what extent does your organization collaborate with the following actors in the fields of health and care within other regions in your country? *Scale 1 (Not at all) to 4 (To a large extent).*



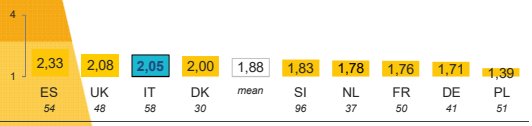
ECOSYSTEM – European collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other EU countries? *Scale 1 (Not at all) to 4 (To a large extent).*

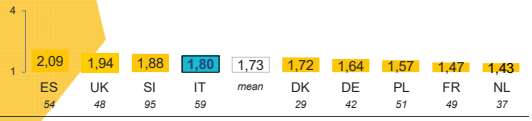
Research & education: public and private research bodies, universities, education and training, science and technology parks, technology transfer offices, etc.



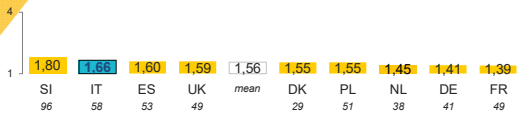
Business: manufacturing and services, primary sector (such as agriculture), financial sector, creative industries, social sector, large firms, small and medium enterprises (SMEs), cluster and business organisations.



Public administration: different departments at different government levels, agencies, business advice, public procurement offices, incubators, etc.



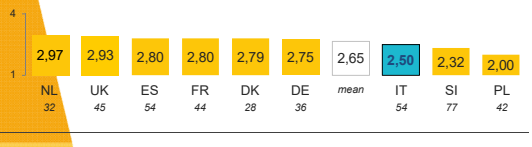
Civil society / Citizens: non-governmental organizations (NGOs) and citizens' initiatives related to societal challenges, consumers' associations, etc.



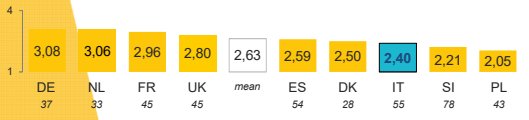
INNOVATION - Support services 1

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

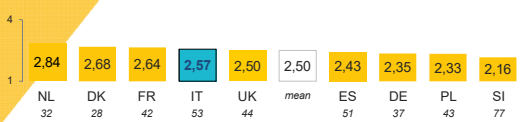
Established knowledge networks, collaboration platforms to support continuous improvement.



Established infrastructure which enables development of innovation and knowledge transfer..



Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.



INNOVATION - Support services 2

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

INNOVATION - Support services 3

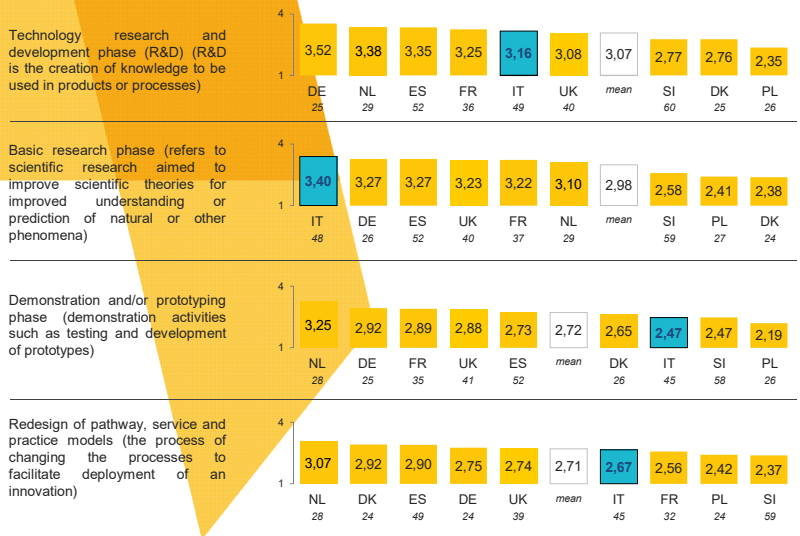
In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

INNOVATION – Development and use of innovative products and services

How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region? *Scale 1 (Very low intensity) to 5 (Very high intensity).*

INNOVATION - Phases 1

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*



Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

INNOVATION - Phases 2

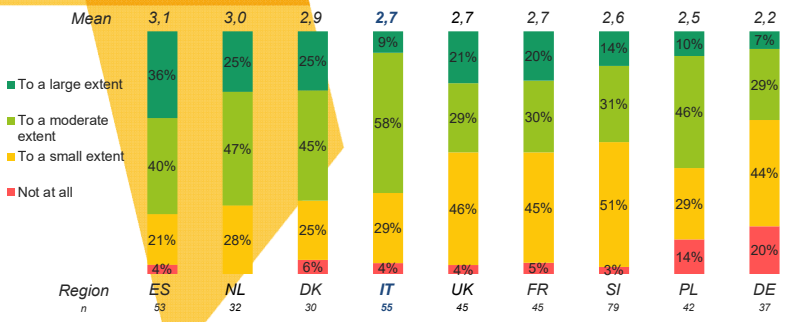
In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*

Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

POLICY - Information

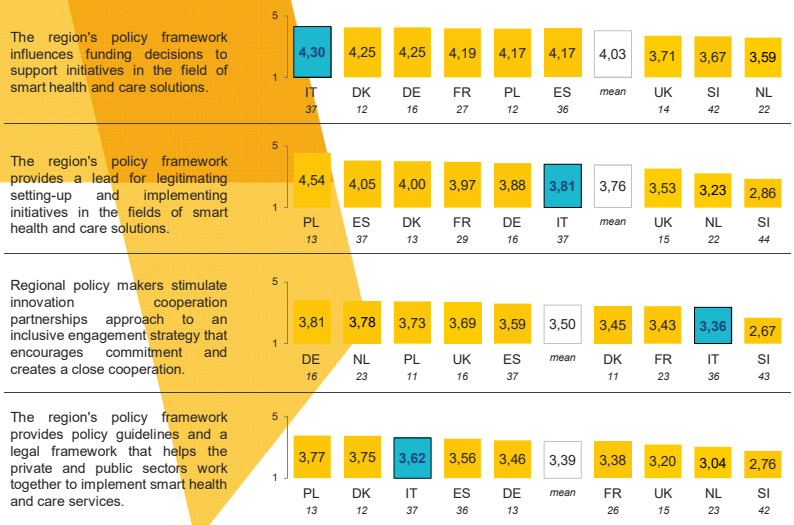
The share of respondents that are to a large or moderate extent informed about regional policy, strategies and programs is highest in **Spain**, **the Netherlands** and **Denmark**, and the lowest in Slovenia and Germany. The share of respondents who claim that are not informed at all is the highest in **Poland** and **Germany**.

To what extent are you informed about the regional policy, strategies, and programs in the field of smart health and care?



POLICY - Framework 1

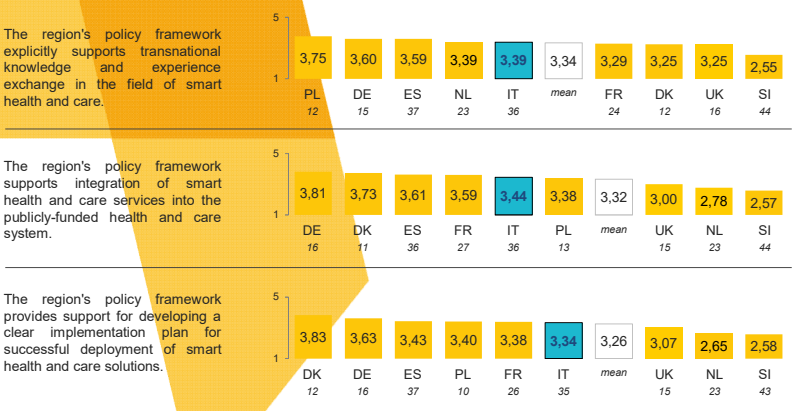
To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

POLICY - Framework 2

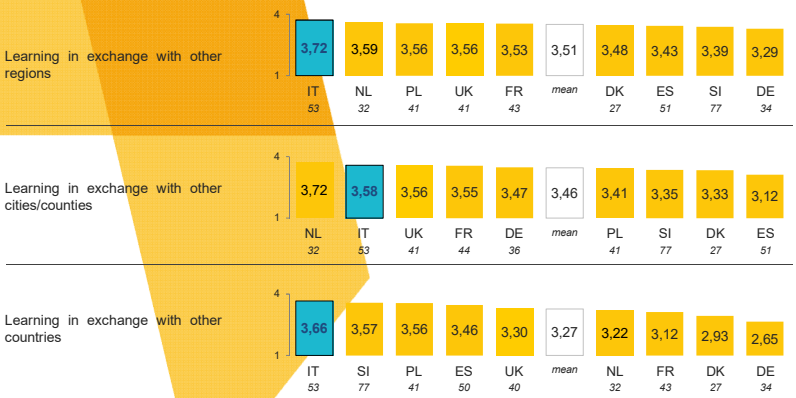
To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

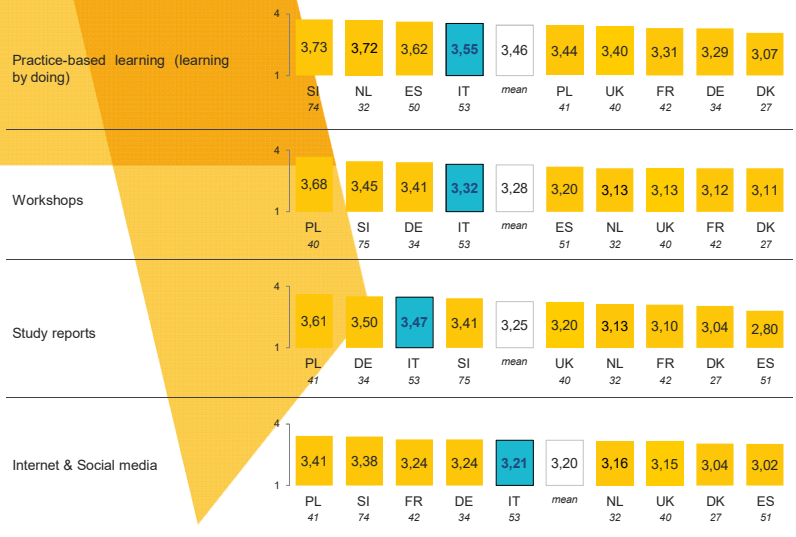
LEARNING - Importance to learn in exchange

How important is it for your work to learn in exchange with experts and other stakeholders within your own region/country or from other cities/counties, regions and countries? *Scale 1 (Not important at all) to 4 (Very important)*.



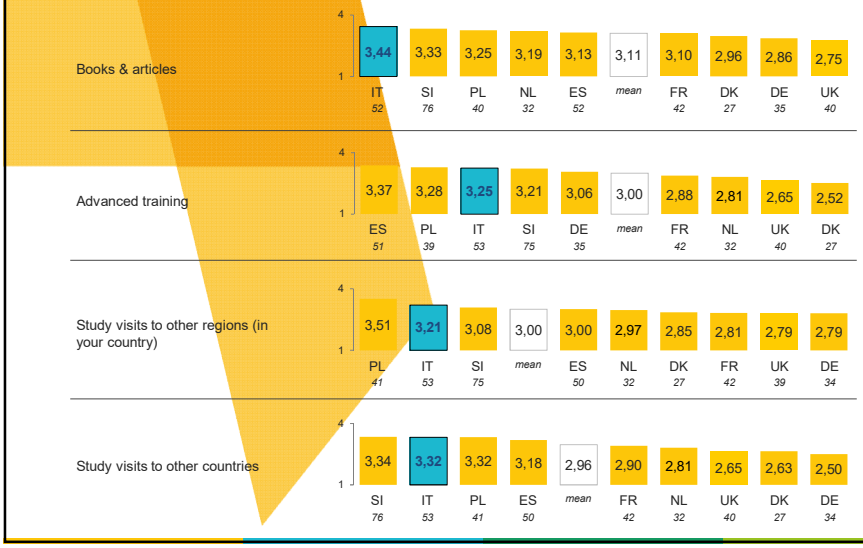
LEARNING - Importance of channels / instruments / approaches 1

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important)*.



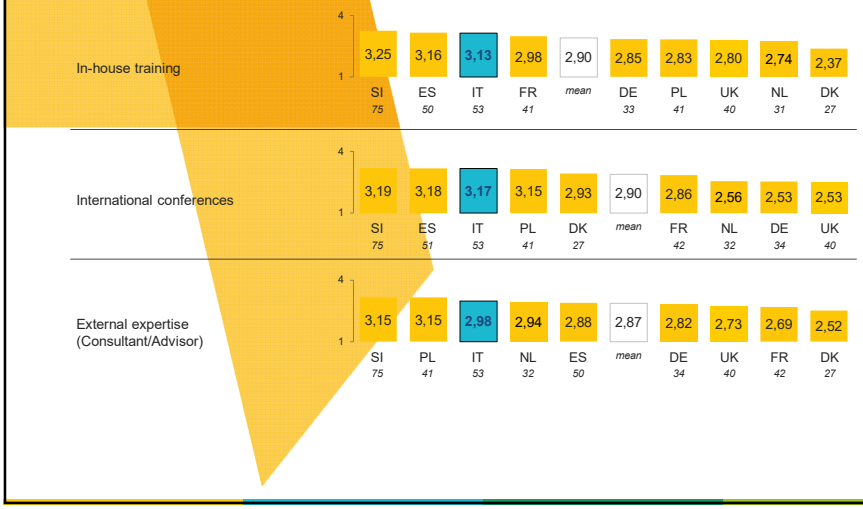
LEARNING - Importance of channels / instruments / approaches 2

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



LEARNING - Importance of channels / instruments / approaches 3

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*

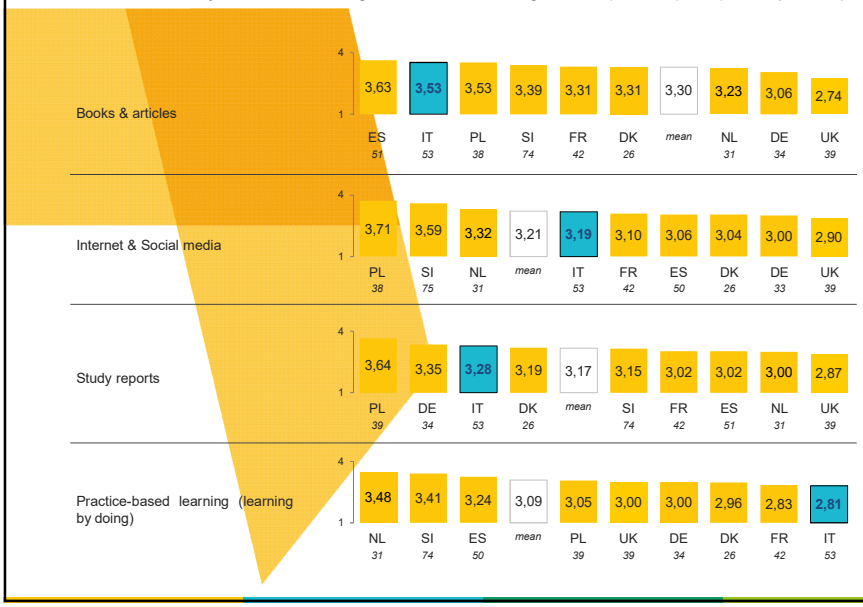


LEARNING - Importance of channels / instruments / approaches 4

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*

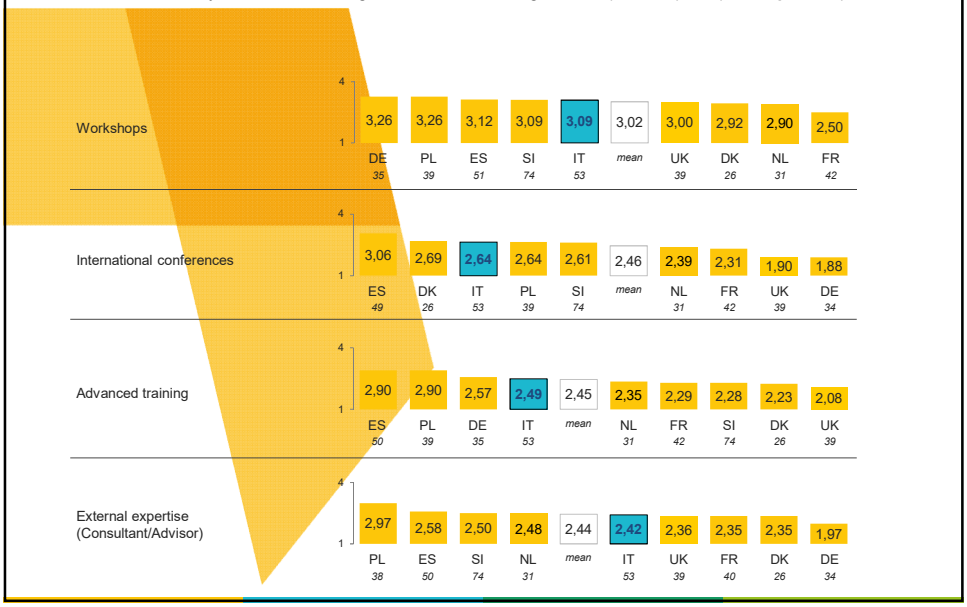
LEARNING - Use of instruments 1

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



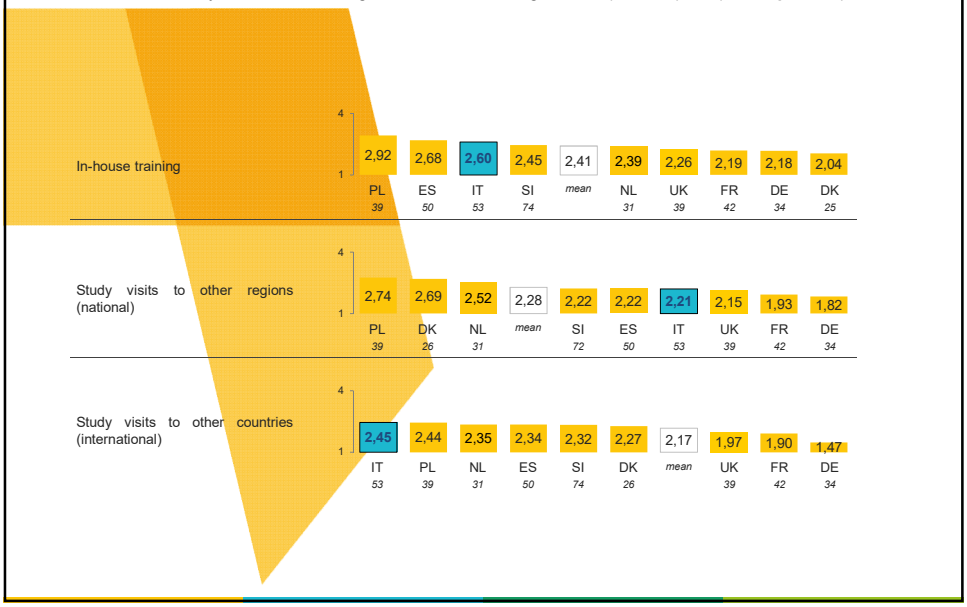
LEARNING - Use of instruments 2

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



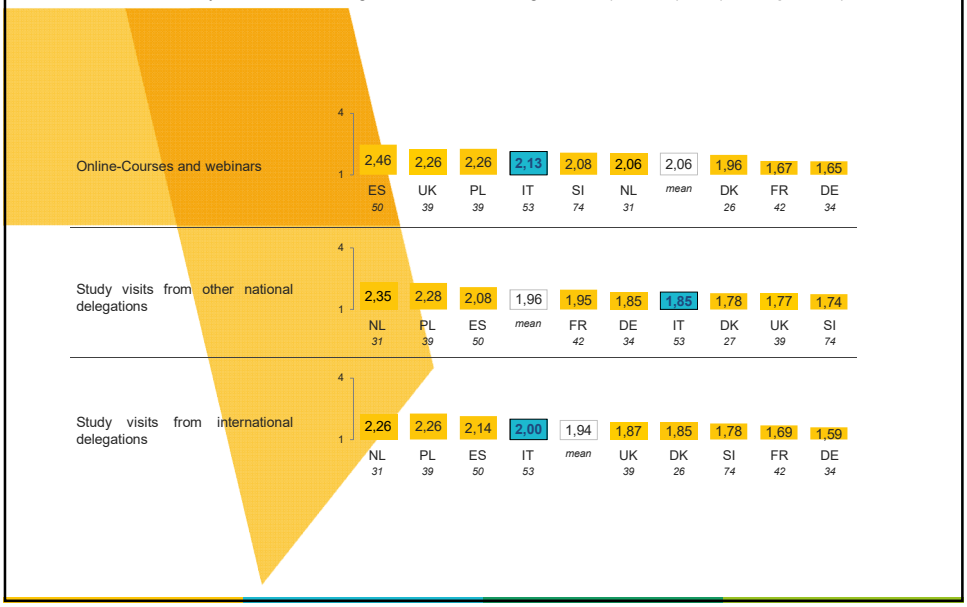
LEARNING - Use of instruments 3

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



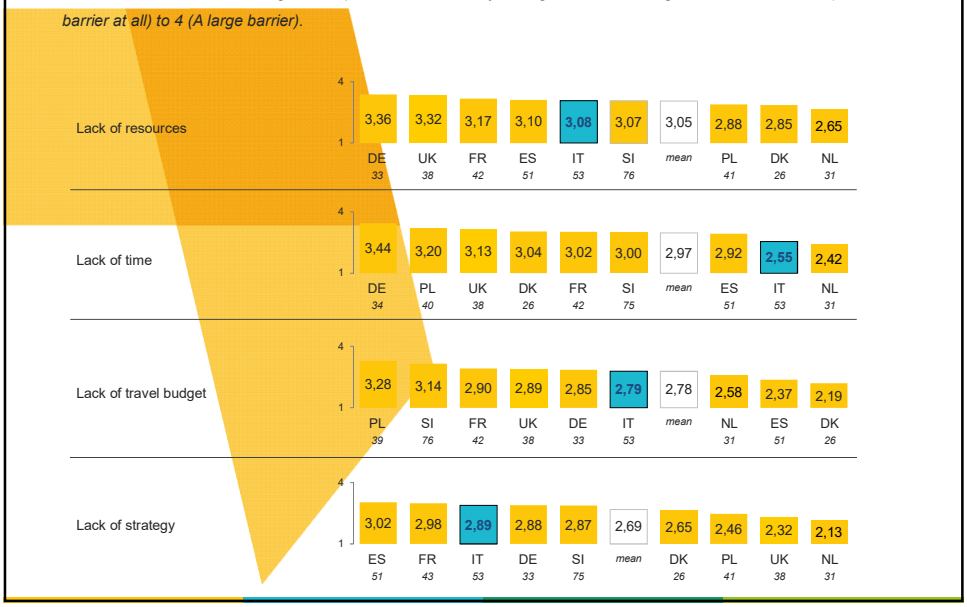
LEARNING - Use of instruments 4

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



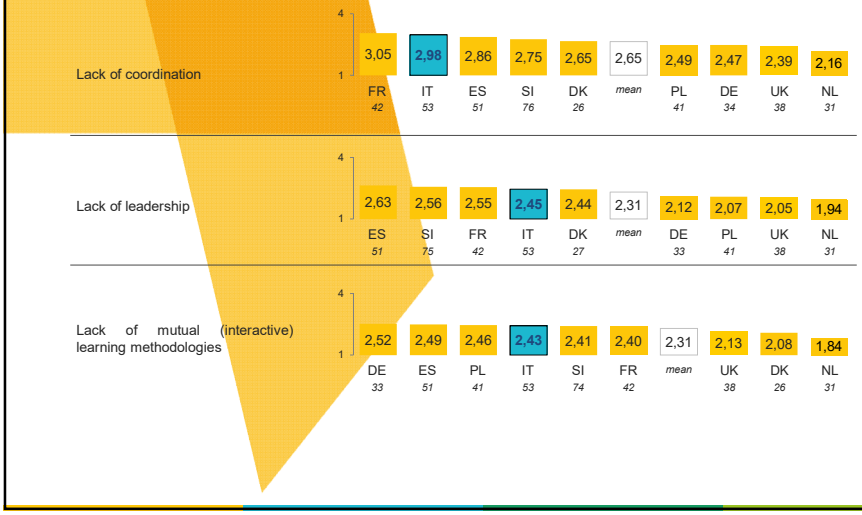
LEARNING - Barriers 1

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



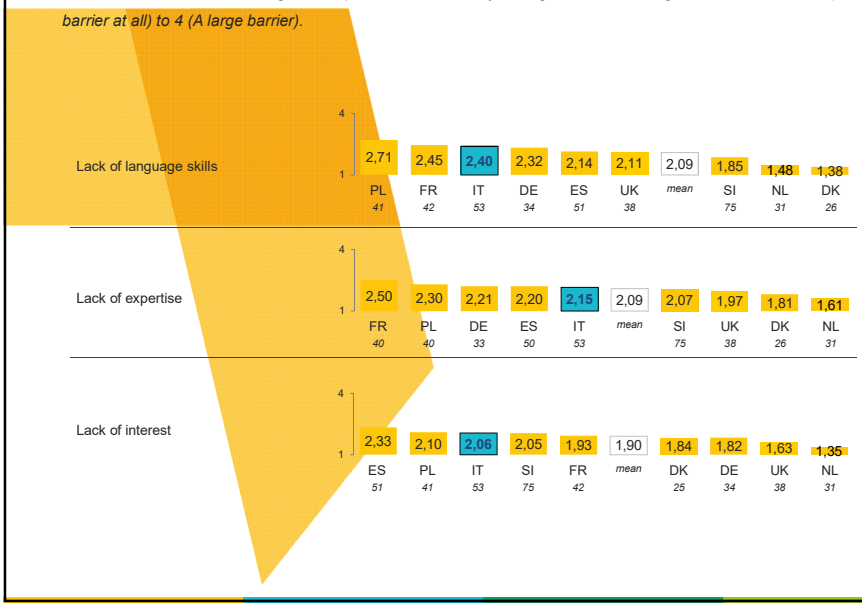
LEARNING - Barriers 2

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



LEARNING - Barriers 3

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



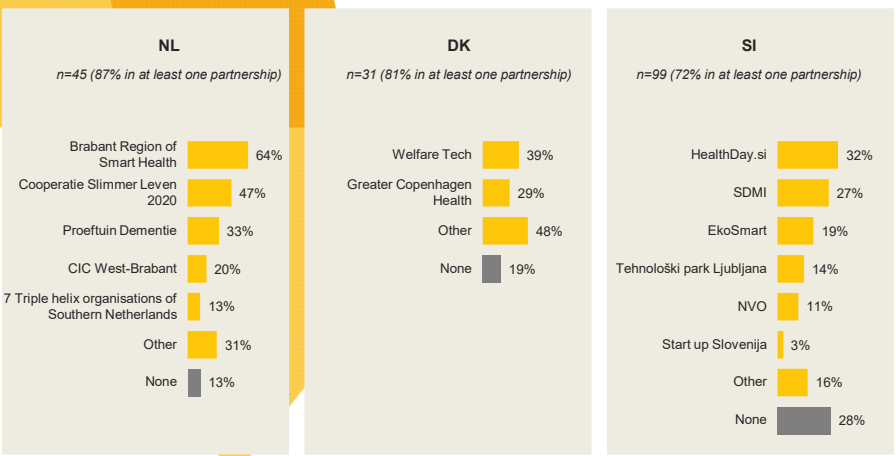
ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Detailed sample characteristics

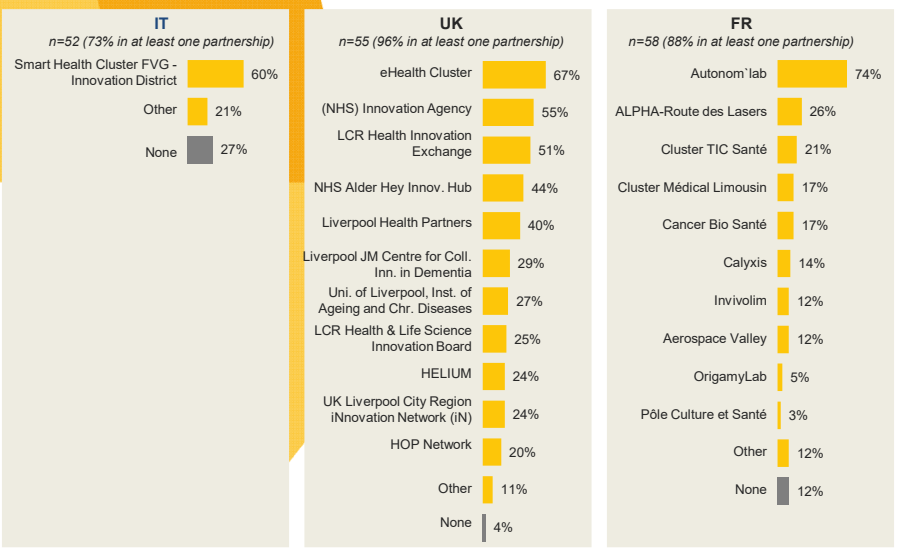
COOPERATION PARTNERSHIPS INVOLVEMENT 1

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



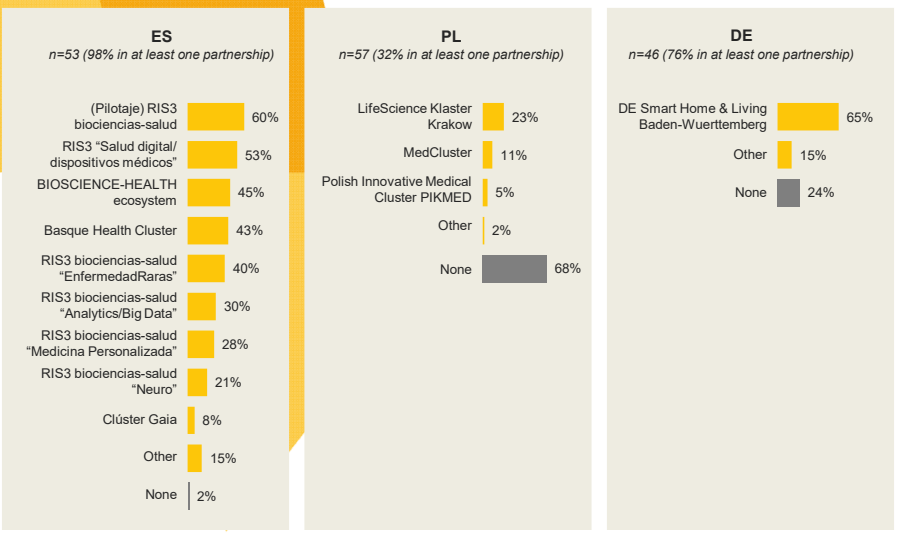
COOPERATION PARTNERSHIPS INVOLVEMENT 2

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



COOPERATION PARTNERSHIPS INVOLVEMENT 3

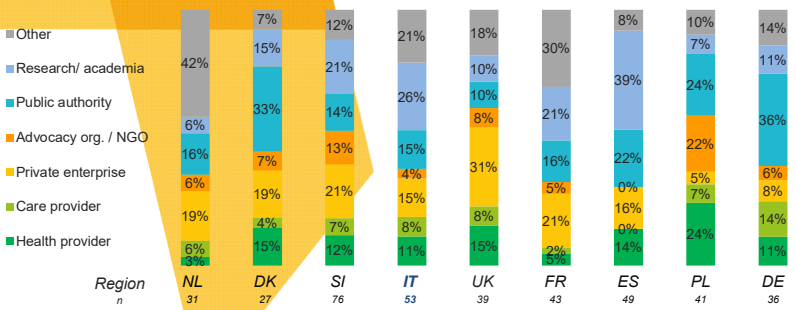
Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



TYPE OF ORGANIZATION

Poland has the highest share of respondents that are health providers (24%) while the Netherlands and France have the lowest. UK has the highest share of respondents that are private enterprises (39%).

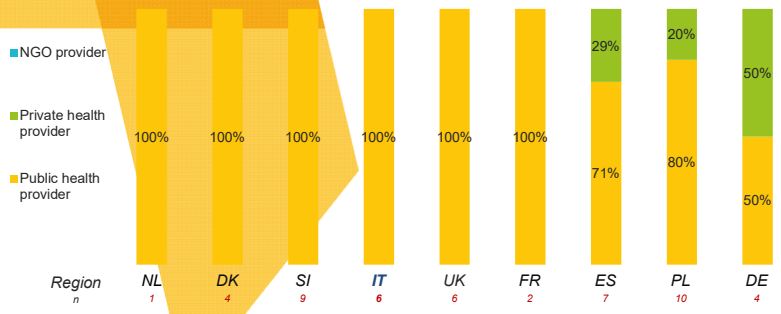
What type is your organization?



TYPE OF HEALTH PROVIDER

Although the samples are very small, the results indicate that in almost all regions a vast majority of health providers are public organizations.

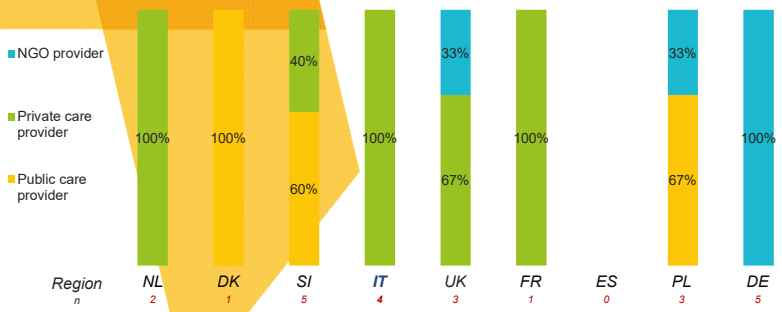
What type of health provider is your organization?



TYPE OF CARE PROVIDER

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

What type of care provider is your organization?



TYPE OF ADVOCACY

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

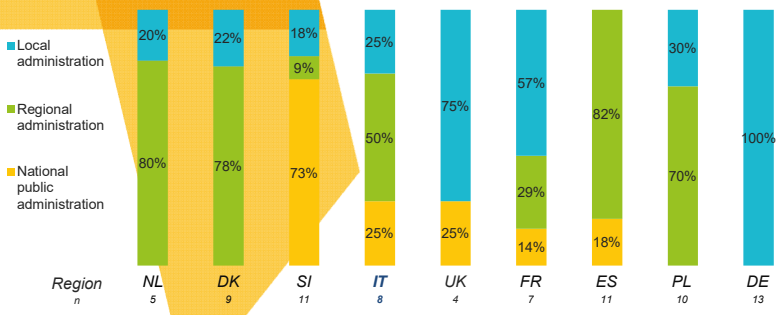
What type of advocacy does your organization provide?

Region	n	H. CARE PROFESSIO-NALS	OLDER PEOPLE	PATIENTS	INFORMAL CAREGIVERS	OTHER
NL	2		50%	50%		100%
DK	2				50%	50%
SI	10		70%		20%	30%
IT	2		50%			50%
UK	3	67%	67%	67%	67%	33%
FR	2	50%			50%	
ES	0					
PL	4		50%		25%	75%
DE	2		50%	50%	50%	50%

LEVEL OF PUBLIC AUTHORITY

Although the samples are very small, the results indicate that Slovenian public organizations mostly have national authority, German public organizations have local authority, while Spanish and Polish mostly have regional authority.

What level of authority is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

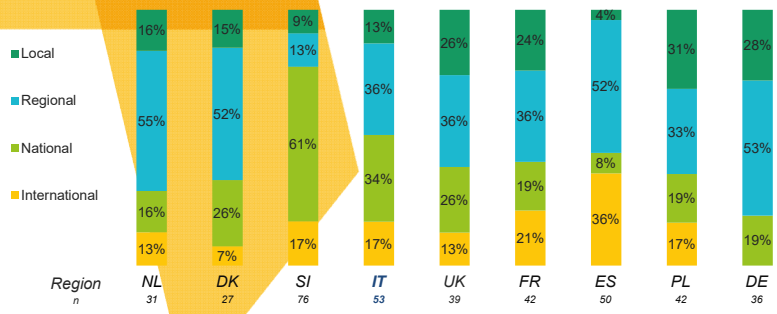
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

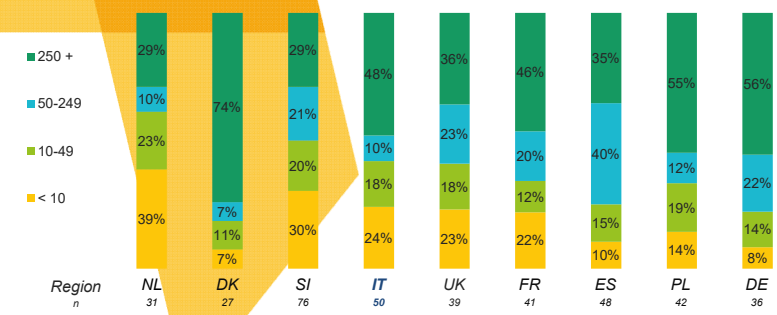
What is the main scope of the organization?



NUMBER OF EMPLOYEES

All regions have a noticeable share of organizations with more than 250 employees, the highest share was recorded in Denmark (74%), while in the Netherlands and Slovenia it is the lowest and stands at 29% in both regions. The Netherlands and Slovenia also have the highest share of organizations with less than 10 employees, 39% and 30% respectively.

How many employees does your organization have?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Appendix

Input for "Regional Policy Framework Index"

Survey Question: *Thinking about the current policy framework in your region, to what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region?*

- The region's policy framework provides a lead for legitimating setting-up and implementing initiatives in the fields of smart health and care solutions.
- The region's policy framework influences funding decisions to support initiatives in the field of smart health and care solutions.
- The region's policy framework provides policy guidelines and a legal framework that helps the private and public sectors work together to implement smart health and care services.
- The region's policy framework supports integration of smart health and care services into the publicly-funded health and care system.
- The region's policy framework provides support for developing a clear implementation plan for successful deployment of smart health and care solutions.
- Regional policy makers stimulate innovation cooperation partnership approach to an inclusive engagement strategy that encourages commitment and creates a close cooperation between public authorities, education and research institutions, business, and citizens/patients.
- The region's policy framework explicitly supports transnational knowledge and experience exchange in the field of smart health and care.

Input for “Innovation Support Service Index”

Survey Question: *In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region?*

- Establish infrastructure which enables development of innovation and knowledge transfer, for example living labs, demonstrators, test sites, show rooms, easily accessible research environments, clinical trials, open source facilities.
- Established knowledge networks, collaboration platforms to support continuous improvement.
- Established public-private partnerships.
- Support for bringing products and services to the market and growing market share.
- Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.
- Procedural and administrative simplifications.
- Programs for innovation cooperation partnerships.
- Support for the valorisation of research outcomes.
- Support on legal aspects including intellectual property rights, procurement, regulation.

Input for “Development & Use of innovative products & Services Index”

Survey Question: *How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region?*

- Development of new ideas related to smart health and care solutions in your region?
- Development of innovative products and services for smart health and care in your region?
- Use of innovative smart health and care products and services in practice on a daily basis in your region.

ITHACA
Interreg Europe
European Union
European Regional
Development Fund
The end ☺
Questions welcome
Project smedia

ITHACA
Interreg Europe
European Union
European Regional
Development Fund
Report 5: Liverpool City Region
(United Kingdom)

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Sample & Respondents

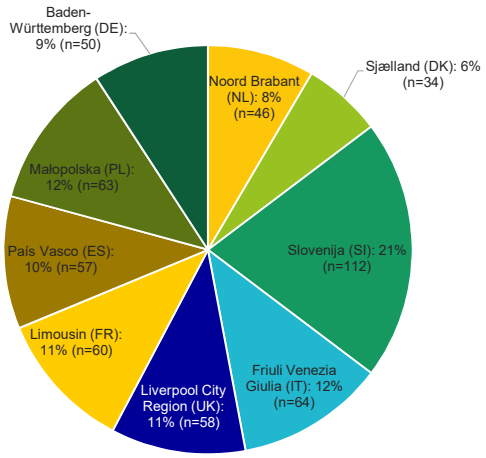
Input for „Intro to the theme“

ITHACA SURVEY BASICS

In total, 544 of stakeholders across nine European regions have responded to the ITHACA SA Survey. The highest absolute numbers of responses were collected in Slovenia, Italy and Poland, and the lowest in Denmark and the Netherlands.

TOTAL RESPONSES
544

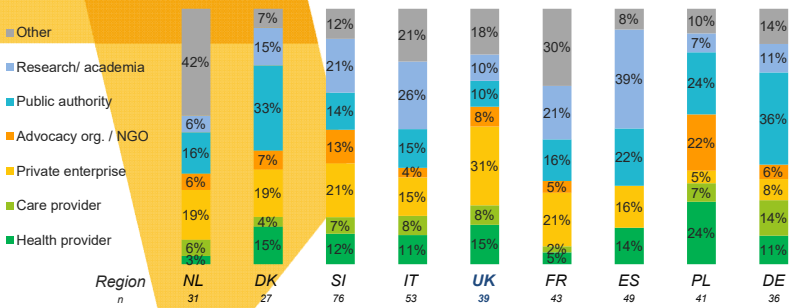
Note: Additionally, 4 responses from non listed regions were collected. But are excluded from further analysis.



TYPE OF ORGANIZATION

Poland has the highest share of respondents from health providing organizations (24%), while the Netherlands and France have the lowest. The share of respondents from private enterprises is the highest in the UK (39%).

What type is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

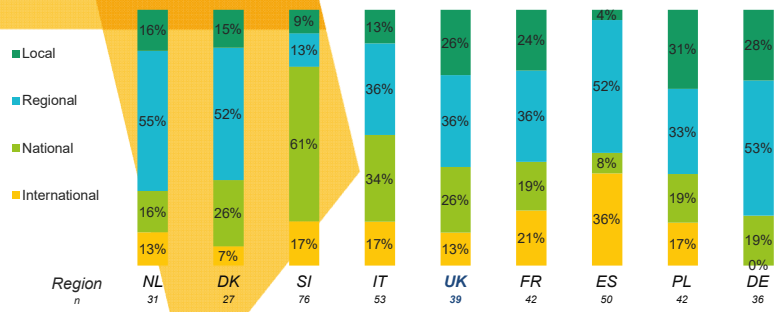
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

What is the main scope of the organization?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

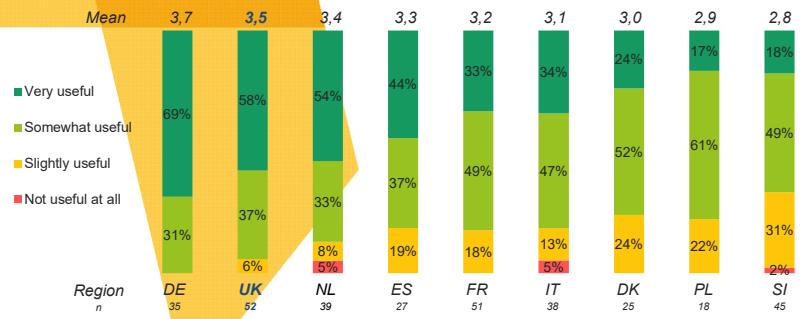
Results Summary

Input for „Intro to the theme“

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

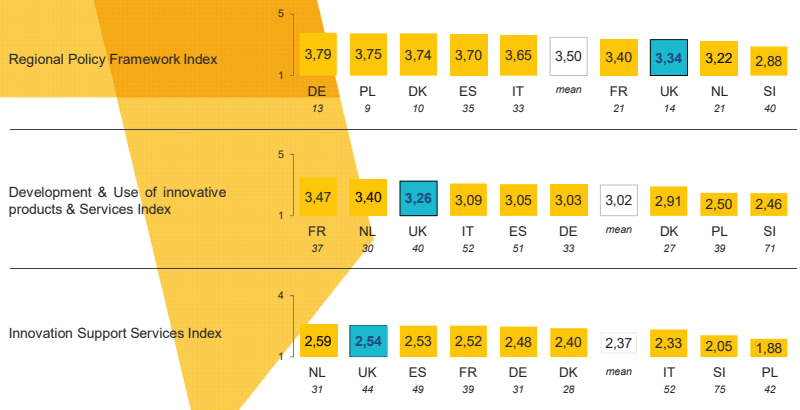
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION & POLICY INDICES

Composite indices are presented below. The highest average score on innovation support services was recorded in **the Netherlands** and the lowest in **Poland**. According to respondents the development and use of innovative products and services is the highest in France and the Netherlands, and the lowest in Slovenia and Poland. Regional policy framework on the other hand, is rated highly in **Germany**, **Poland** and **Denmark**, whereas in **Slovenia** it is distinctively lower.



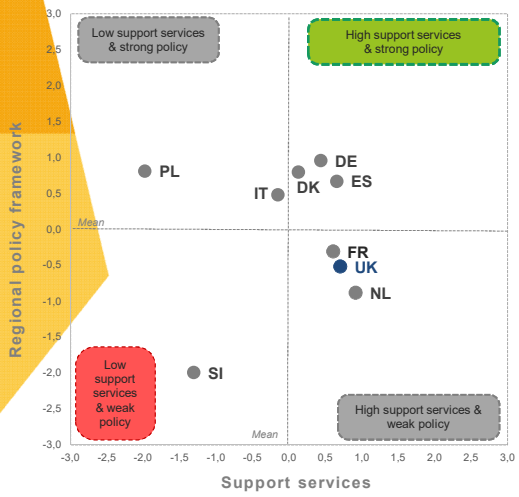
Note: Composite Regional indices are calculated as an average of participants' average score on all items within the same theme. Items for Innovation Support Service Index: Q13a to Q13i. Items for Development & Use of innovative products & Services Index: Q15a, Q15b and Q15c. Items for Regional Policy Framework Index: Q19a to Q19g.

REGION POSITIONING

In comparison of regions by innovation support services index and regional policy framework index, **Spain** and **Germany** are positioned as regions with high support services and strong policy, while **Slovenia** is positioned as a region with low support services and the weakest regional policy. Poland, on the other hand, is positioned as a region with strong policy but low support services, while in the Netherlands the situation is reversed.

Note: Regional Support services Indices on X axis and Regional policy framework indices on Y axis.

Values on both dimensions (Support services and Policy framework) have been standardized to neutralize the effect of different measurement scales.



ITHACA
Interreg Europe

European Union
European Regional Development Fund

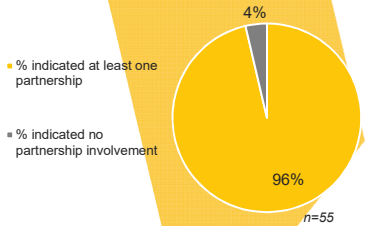
UK Highlights

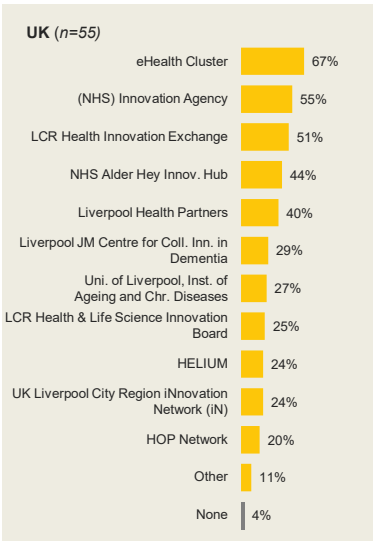
Input for „World cafe“

ECOSYSTEM – Cooperation partnership involvement

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?

Involvement in at least one cooperation partnership:

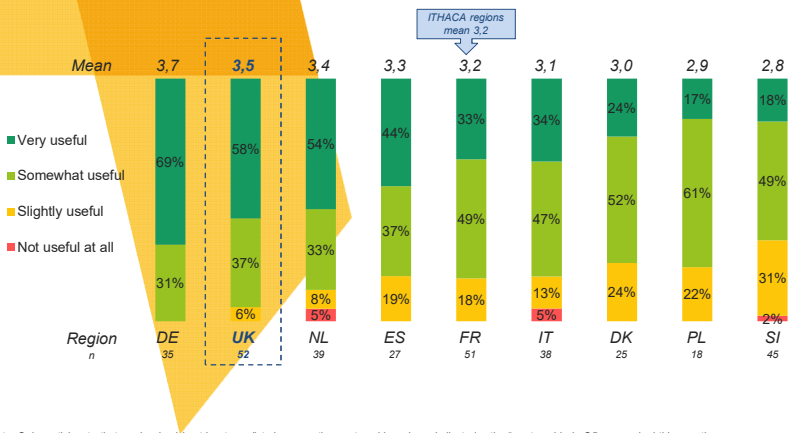




ECOSYSTEM - Usefulness of involvement

On a scale from 1 *(Not useful at all)* to 4 *(Very useful)*, the UK region has the second highest average value amongst the ITHACA regions, with more than a half of respondents (58%) finding the involvement very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

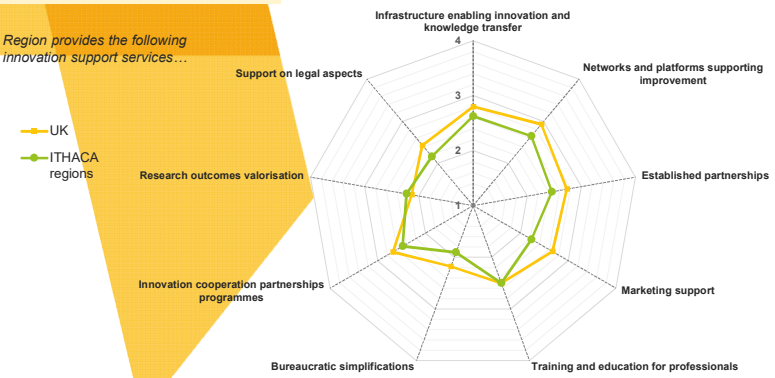
INNOVATION - Support services

UK Support Services Index is higher than the average index value of ITHACA regions. The rated extent of services is slightly below the average only for the *Research outcomes valorization* and about the same as the average for *Training and education for professionals*.

Within the region, *Networks and platforms supporting improvement* (2,93) has on average the highest rated extent of all Support services items, followed by *Infrastructure enabling innovation and knowledge transfer* (2,80), while *Bureaucratic simplifications* and *Research outcomes valorization* have the lowest ratings, with the average of 2,18 and 2,13, respectively.

UK Support Services Index	**2,54**
ITHACA regions Support service Index	2,37

Region provides the following innovation support services…



Note: Regional index is based on respondents who answered all items within theme (Q13a to Q13i). Global index is a simple average over ITHACA regions, where units are regions.

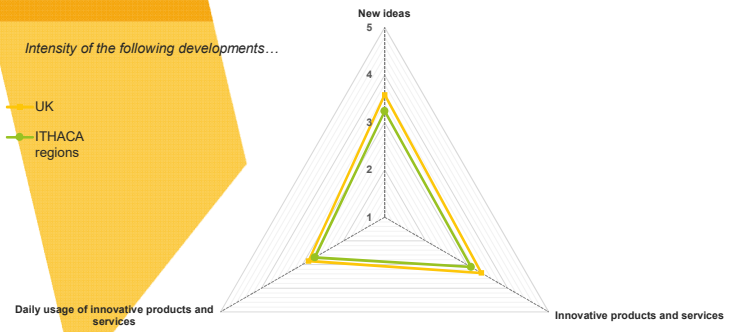
INNOVATION - Development & use of innovative products & services

UK Development & Use of innovative Products & Services Index is somewhat higher than the average index value of ITHACA regions. The rated intensities of all developments are just slightly above the corresponding averages of all ITHACA regions.

Within the region, *New ideas* (3,58) are rated as the most intensively occurring development in the field, followed by *Innovative products and services* (3,36). The value is somewhat lower for the intensity of *Daily usage of innovative products and services* (2,85).

UK Development & Use of innovative products & Services Index	**3,26**
ITHACA regions Development & Use of innovative products & Services Index	3,02

Intensity of the following developments…



Note: Regional index is based on respondents who answered all items within theme (Q15a to Q15c). Global index is a simple average over ITHACA regions, where units are regions.

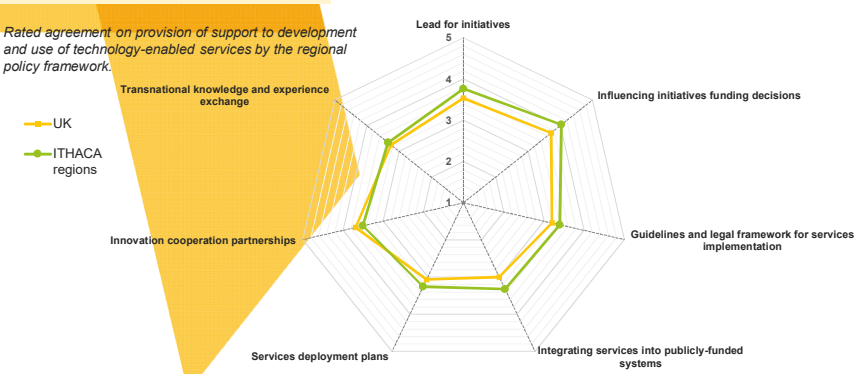
POLICY – Regional Policy Framework

UK Regional Policy Index is somewhat lower than the average index value of ITHACA regions. This is also true for most individual items, except for *Transnational knowledge and experience exchange* and *Innovation cooperation partnerships*, which are similar to and slightly above the ITHACA average, respectively.

Within the region, *Influencing initiatives funding decisions* (3,71) has the highest average value among the regional policy framework facets, closely followed by *Innovation cooperation partnerships* (3,69). The lowest average values were recorded for *Services deployment plans* (3,07) and *Integrating services into publicly-funded systems* (3,00).

UK Policy Framework Index	**3,34**
ITHACA regions Policy Framework Index	3,50

Rated agreement on provision of support to development and use of technology-enabled services by the regional policy framework.

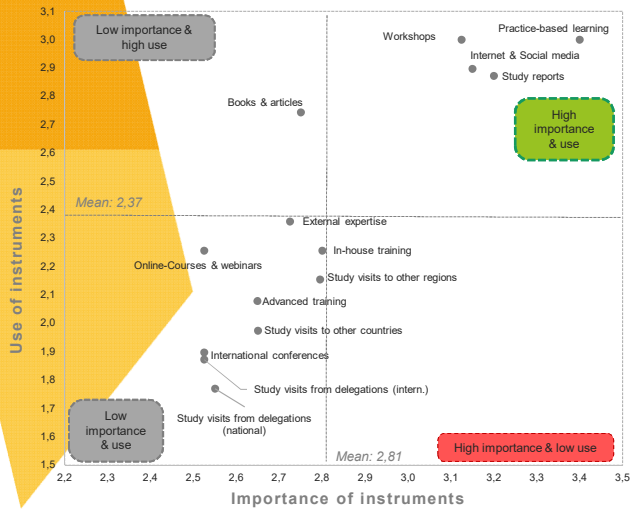


Note: Regional index is based on respondents who answered all items within theme (Q19a to Q19g). Global index is a simple average over ITHACA regions, where units are regions.

LEARNING – Relative importance & use of instruments

In UK the most important and most used instruments in practice from a relative point of view are: **Practice-based learning**, **Study reports**, **Internet and social media** and **Workshops**. None of the instruments has a high relative discrepancy between the importance and use – Study visits to other regions and In-house training are the closest instruments to fall in that category.

***Sample sizes** for presented instruments and their use/importance vary from 39 to 40.*



Note: Measurement scale for importance and use goes from 1 to 4.

ITHACA
Interreg Europe

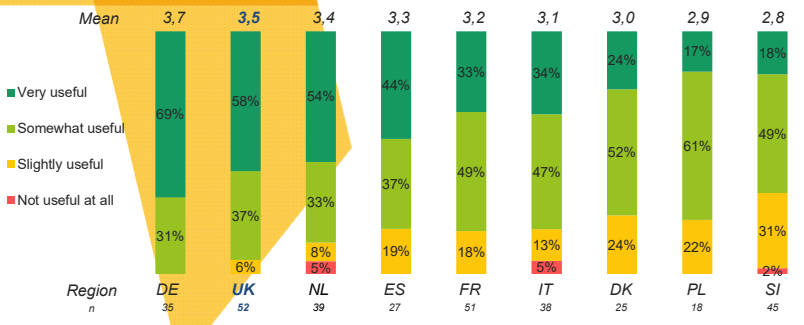
European Union
European Regional
Development Fund

Detailed overview of the results

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.

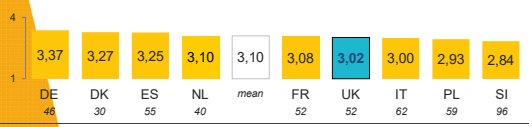


Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

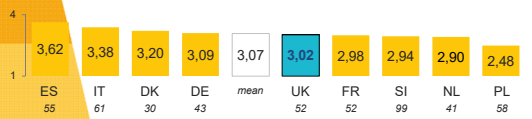
ECOSYSTEM – Regional collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within your region? *Scale 1 (Not at all) to 4 (To a large extent).*

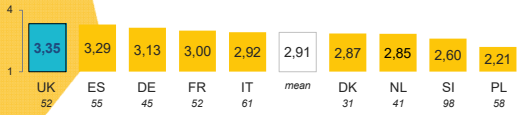
Public administration: different departments at different government levels, agencies, business advice, public procurement offices, incubators, etc.



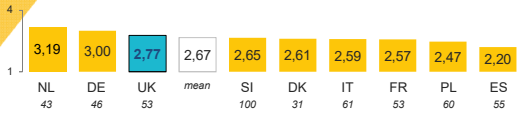
Research & education: public and private research bodies, universities, education and training, science and technology parks, technology transfer offices, etc.



Business: manufacturing and services, primary sector (such as agriculture), financial sector, creative industries, social sector, large firms, small and medium enterprises (SMEs), cluster and business organisations.



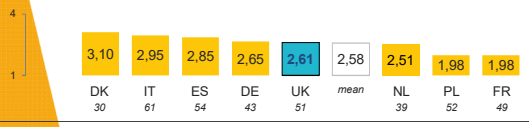
Civil society / Citizens: non-governmental organizations (NGOs) and citizens' initiatives related to societal challenges, consumers' associations, etc.



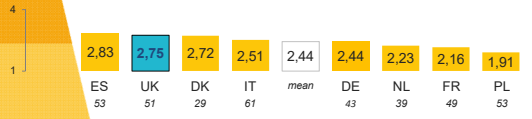
ECOSYSTEM – National collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other regions in your country? *Scale 1 (Not at all) to 4 (To a large extent).*

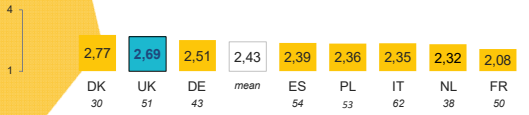
Research & education: public and private research bodies, universities, education and training, science and technology parks, technology transfer offices, etc.



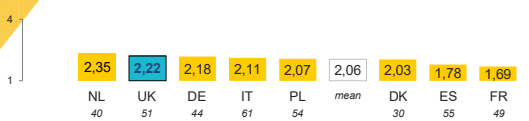
Business: manufacturing and services, primary sector (such as agriculture), financial sector, creative industries, social sector, large firms, small and medium enterprises (SMEs), cluster and business organisations.



Public administration: different departments at different government levels, agencies, business advice, public procurement offices, incubators, etc.

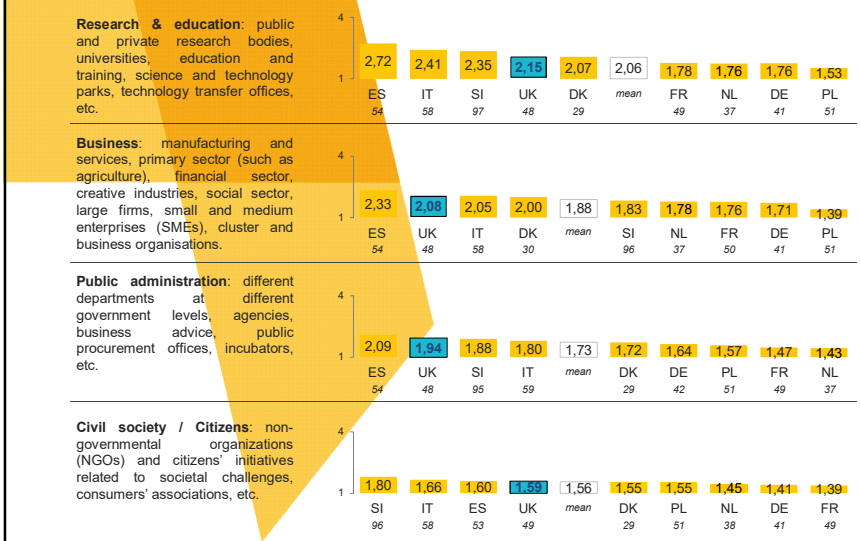


Civil society / Citizens: non-governmental organizations (NGOs) and citizens' initiatives related to societal challenges, consumers' associations, etc.



ECOSYSTEM – European collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other EU countries? *Scale 1 (Not at all) to 4 (To a large extent).*

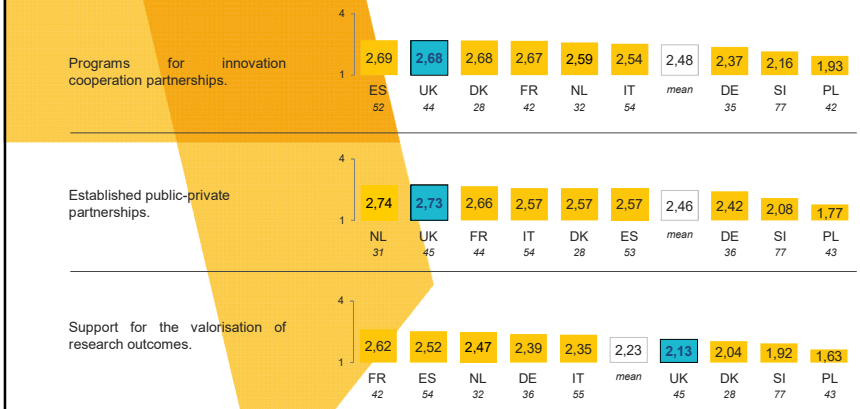


INNOVATION - Support services 1

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

INNOVATION - Support services 2

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

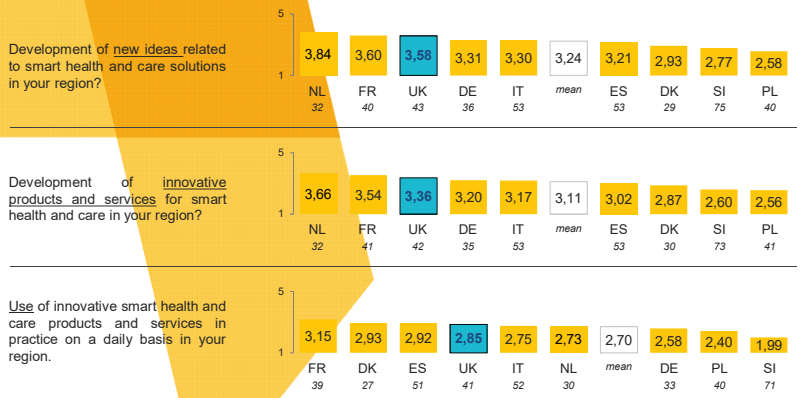


INNOVATION - Support services 3

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

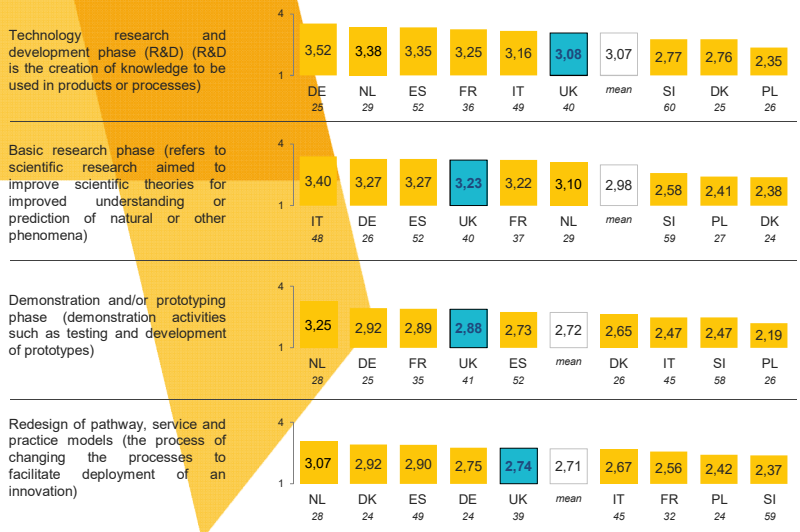
INNOVATION – Development and use of innovative products and services

How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region? *Scale 1 (Very low intensity) to 5 (Very high intensity).*



INNOVATION - Phases 1

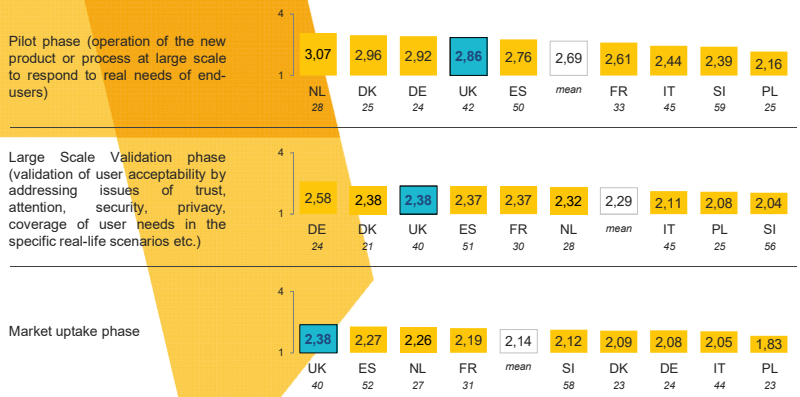
In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*



Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

INNOVATION - Phases 2

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*

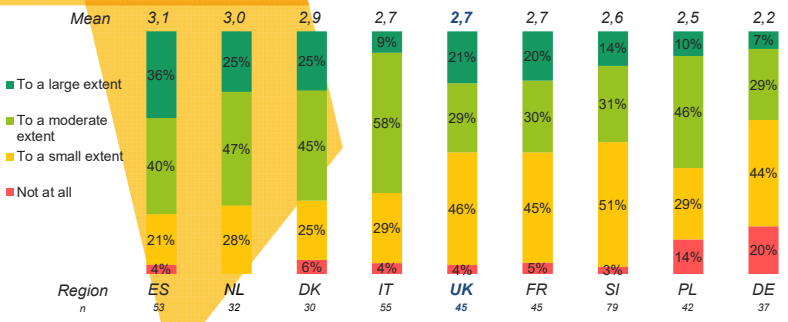


Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

POLICY - Information

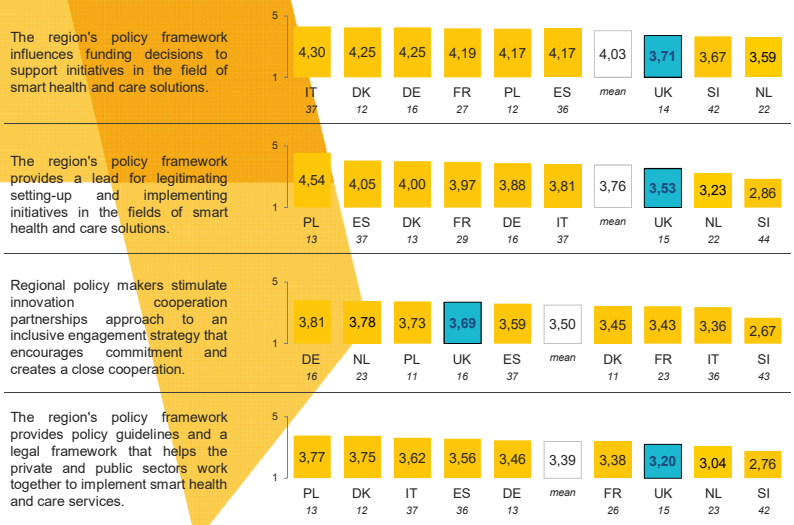
The share of respondents that are to a large or moderate extent informed about regional policy, strategies and programs is highest in **Spain**, **the Netherlands** and **Denmark**, and the lowest in Slovenia and Germany. The share of respondents who claim that are not informed at all is the highest in **Poland** and **Germany**.

To what extent are you informed about the regional policy, strategies, and programs in the field of smart health and care?



POLICY - Framework 1

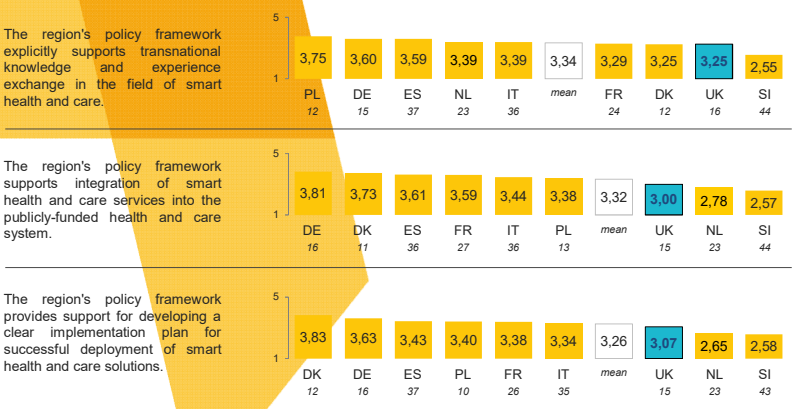
To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

POLICY - Framework 2

To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



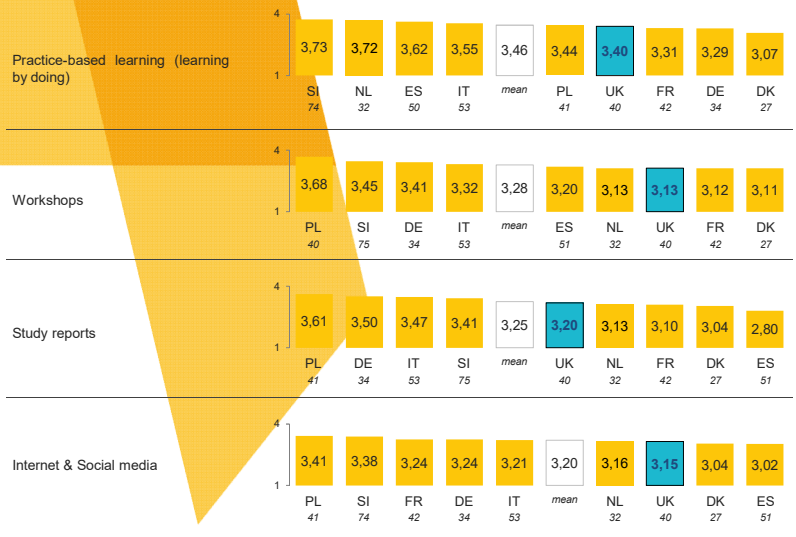
Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

LEARNING - Importance to learn in exchange

How important is it for your work to learn in exchange with experts and other stakeholders within your own region/country or from other cities/counties, regions and countries? *Scale 1 (Not important at all) to 4 (Very important)*.

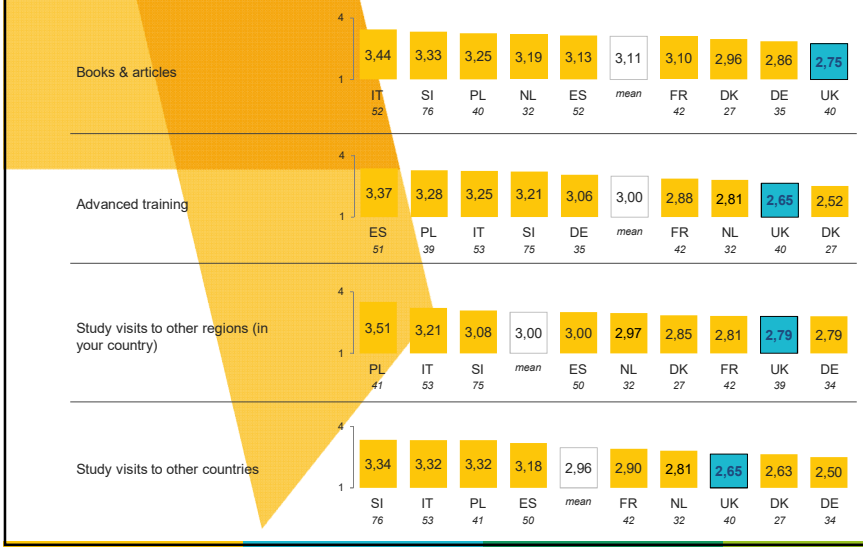
LEARNING - Importance of channels / instruments / approaches 1

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important)*.



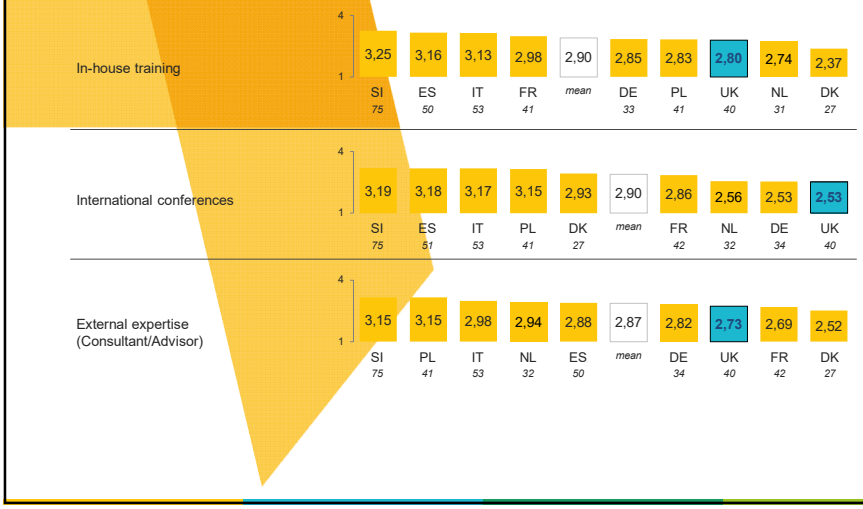
LEARNING - Importance of channels / instruments / approaches 2

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



LEARNING - Importance of channels / instruments / approaches 3

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*

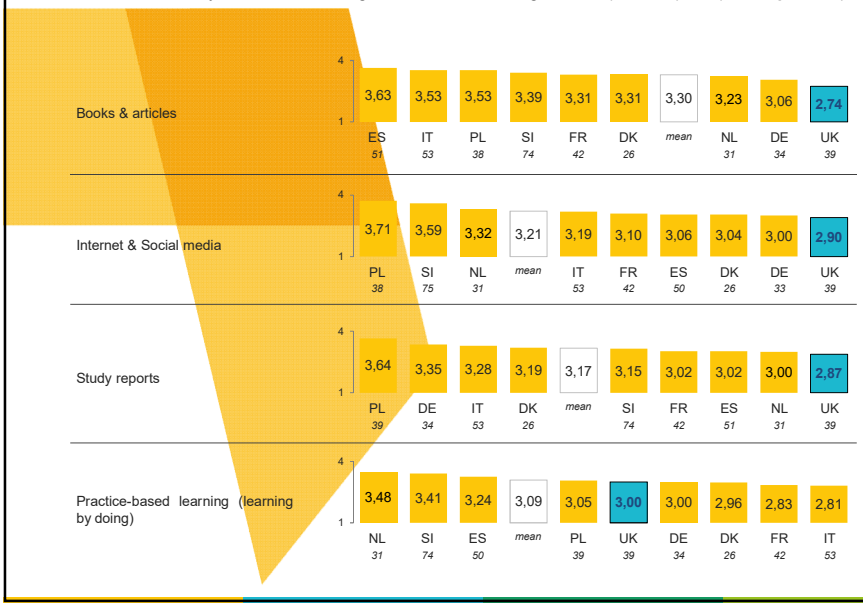


LEARNING - Importance of channels / instruments / approaches 4

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*

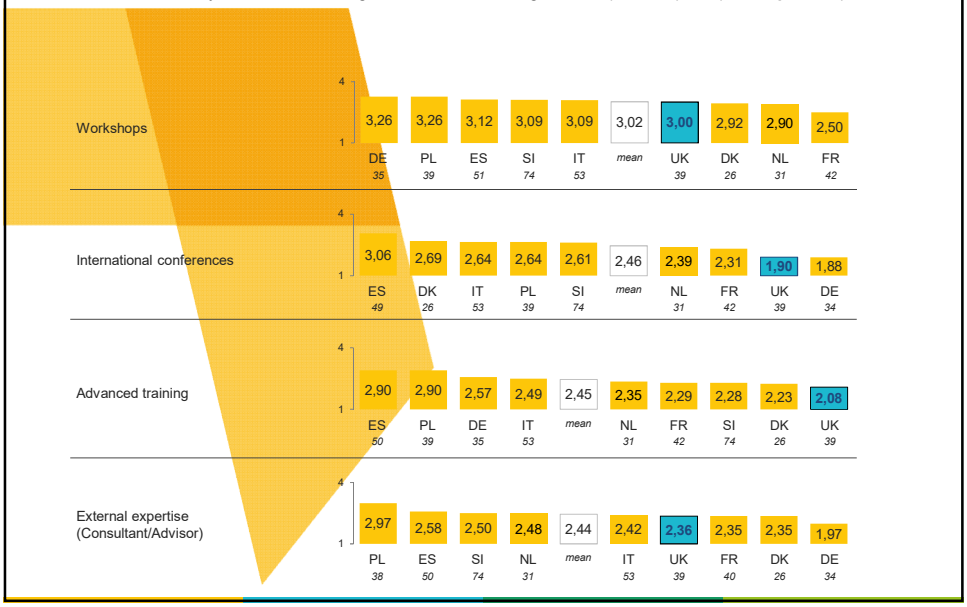
LEARNING - Use of instruments 1

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



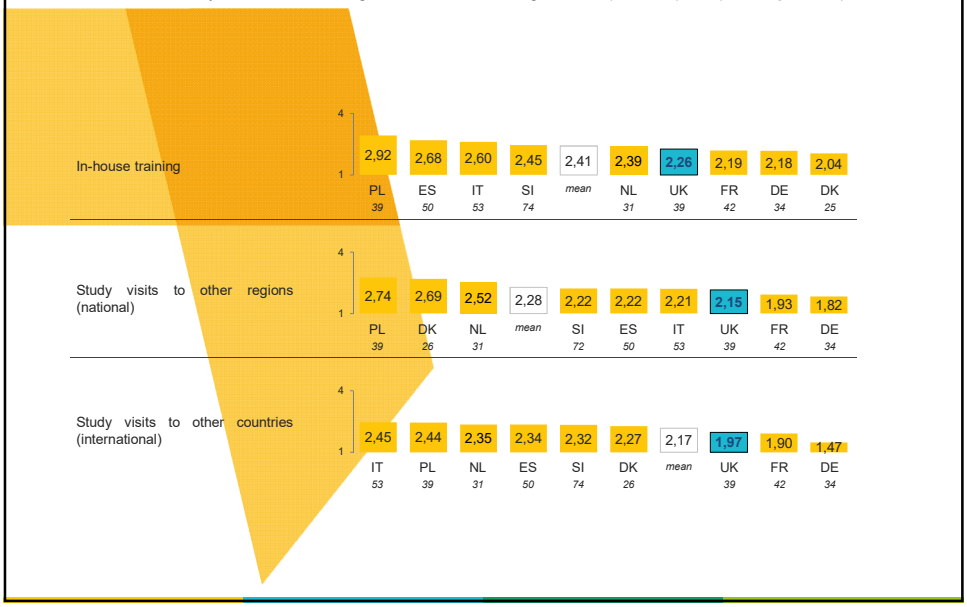
LEARNING - Use of instruments 2

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



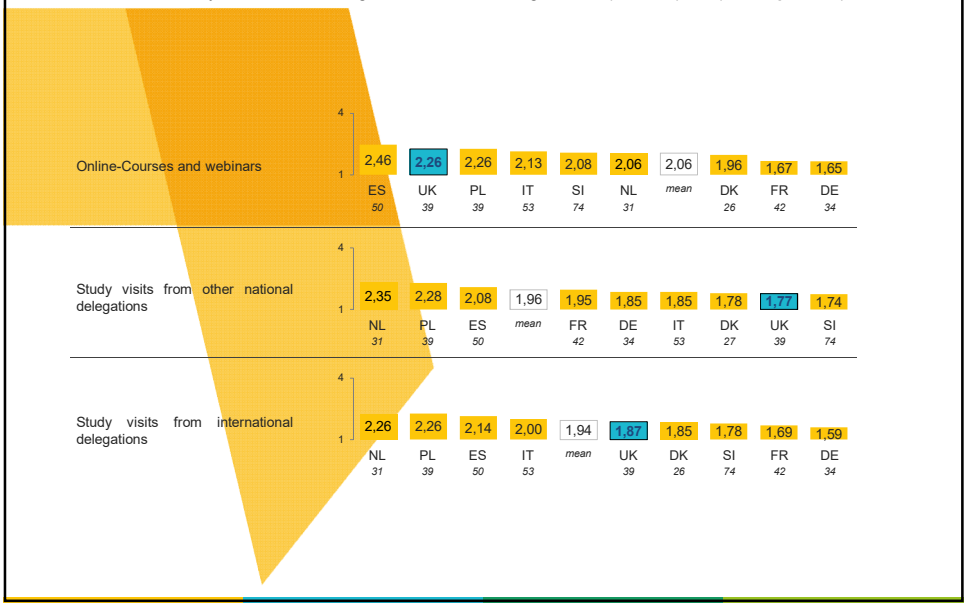
LEARNING - Use of instruments 3

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



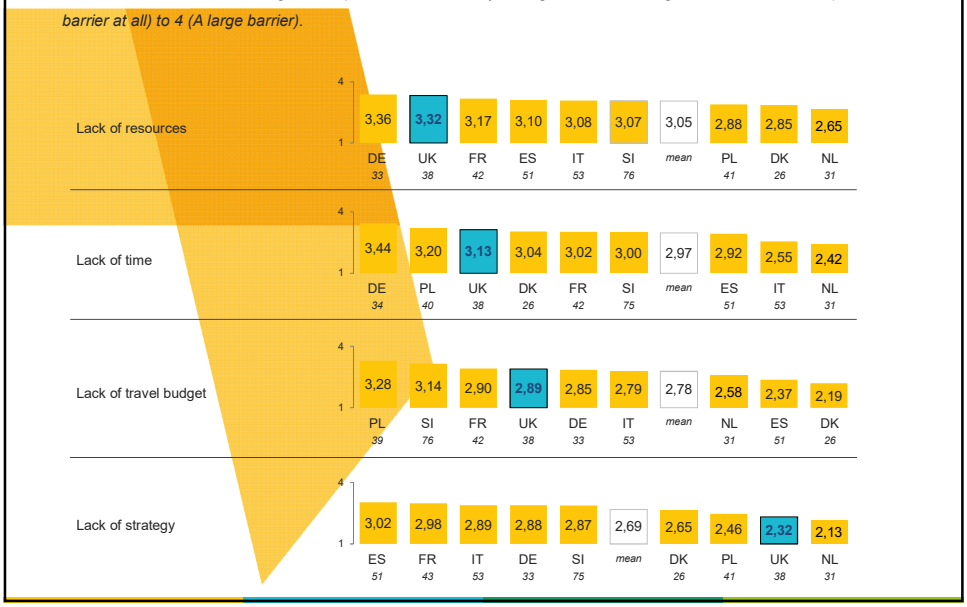
LEARNING - Use of instruments 4

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



LEARNING - Barriers 1

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



LEARNING - Barriers 2

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

LEARNING - Barriers 3

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

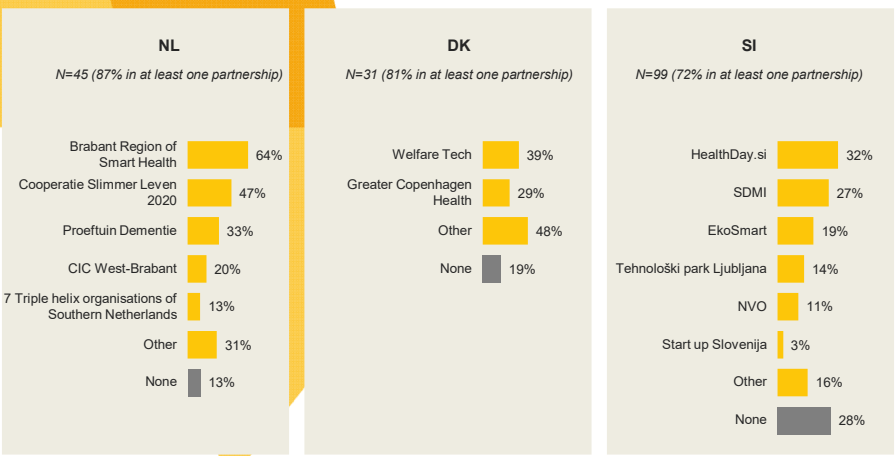
ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Detailed sample characteristics

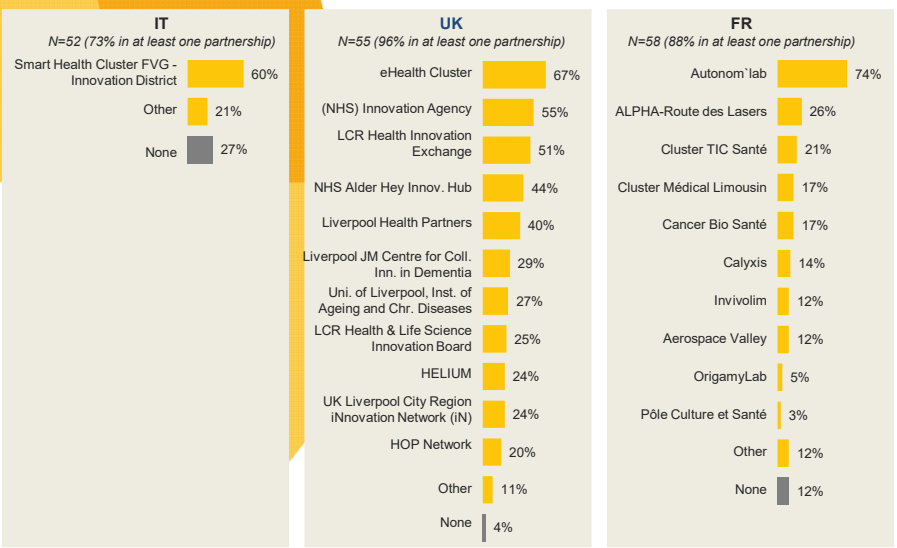
COOPERATION PARTNERSHIPS INVOLVEMENT 1

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



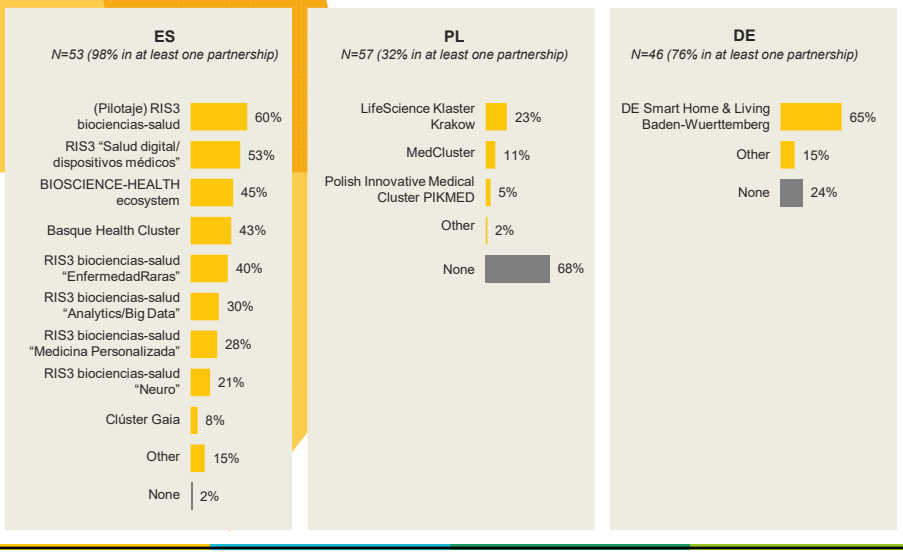
COOPERATION PARTNERSHIPS INVOLVEMENT 2

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



COOPERATION PARTNERSHIPS INVOLVEMENT 3

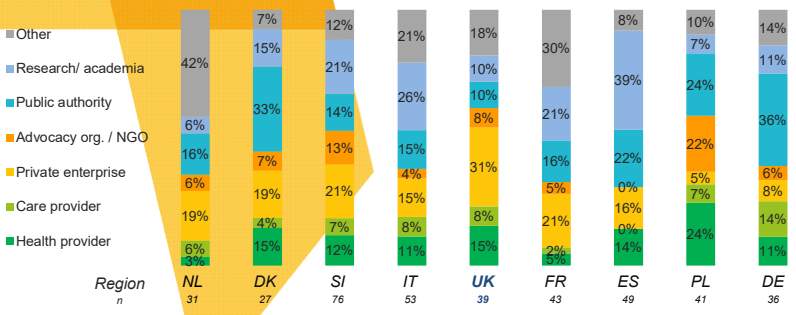
Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



TYPE OF ORGANIZATION

Poland has the highest share of respondents that are health providers (24%) while the Netherlands and France have the lowest. UK has the highest share of respondents that are private enterprises (39%).

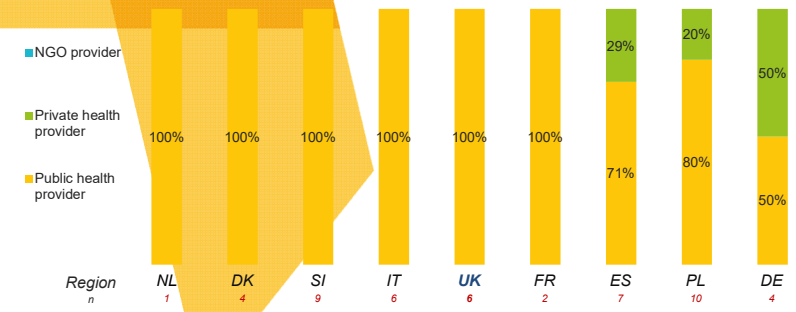
What type is your organization?



TYPE OF HEALTH PROVIDER

Although the samples are very small, the results indicate that in almost all regions a vast majority of health providers are public organizations.

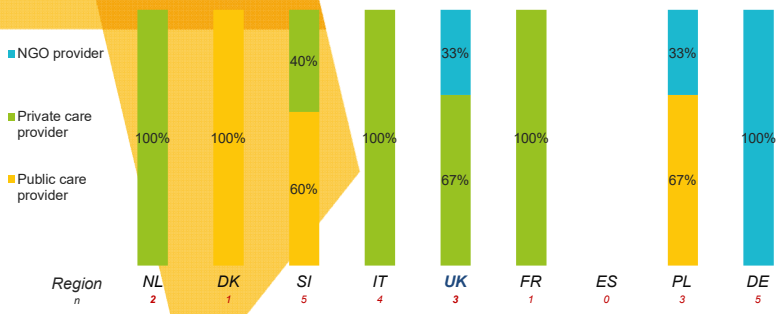
What type of health provider is your organization?



TYPE OF CARE PROVIDER

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

What type of care provider is your organization?



TYPE OF ADVOCACY

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

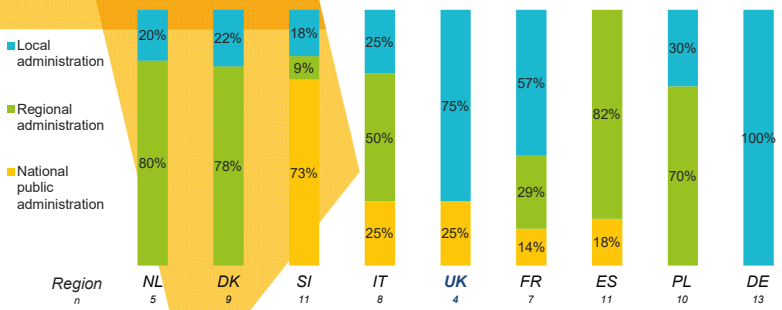
What type of advocacy does your organization provide?

Region	n	H. CARE PROFESSIO-NALS	OLDER PEOPLE	PATIENTS	INFORMAL CAREGIVERS	OTHER
NL	2		50%	50%		100%
DK	2				50%	50%
SI	10		70%		20%	30%
IT	2		50%			50%
UK	3	67%	67%	67%	67%	33%
FR	2	50%			50%	
ES	0					
PL	4		50%		25%	75%
DE	2		50%	50%	50%	50%

LEVEL OF PUBLIC AUTHORITY

Although the samples are very small, the results indicate that Slovenian public organizations mostly have national authority, German public organizations have local authority, while Spanish and Polish mostly have regional authority.

What level of authority is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

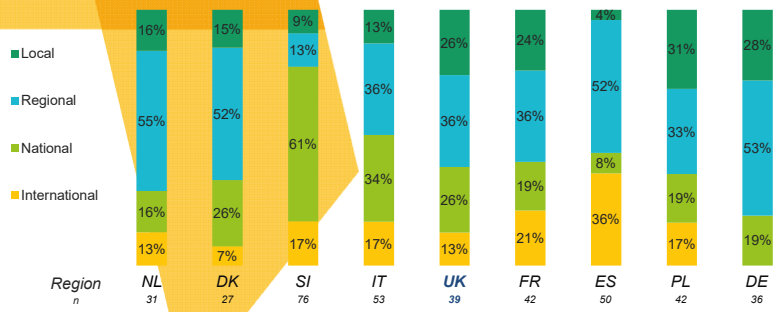
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

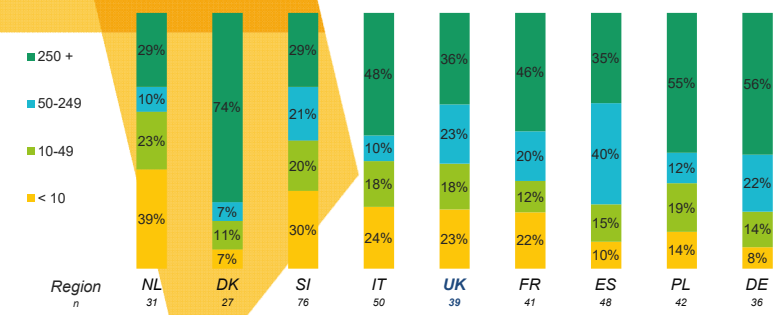
What is the main scope of the organization?



NUMBER OF EMPLOYEES

All regions have a noticeable share of organizations with more than 250 employees, the highest share was recorded in Denmark (74%), while in the Netherlands and Slovenia it is the lowest and stands at 29% in both regions. The Netherlands and Slovenia also have the highest share of organizations with less than 10 employees, 39% and 30% respectively.

How many employees does your organization have?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Appendix

Input for "Regional Policy Framework Index"

Survey Question: *Thinking about the current policy framework in your region, to what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region?*

- The region's policy framework provides a lead for legitimating setting-up and implementing initiatives in the fields of smart health and care solutions.
- The region's policy framework influences funding decisions to support initiatives in the field of smart health and care solutions.
- The region's policy framework provides policy guidelines and a legal framework that helps the private and public sectors work together to implement smart health and care services.
- The region's policy framework supports integration of smart health and care services into the publicly-funded health and care system.
- The region's policy framework provides support for developing a clear implementation plan for successful deployment of smart health and care solutions.
- Regional policy makers stimulate innovation cooperation partnership approach to an inclusive engagement strategy that encourages commitment and creates a close cooperation between public authorities, education and research institutions, business, and citizens/patients.
- The region's policy framework explicitly supports transnational knowledge and experience exchange in the field of smart health and care.

Input for “Innovation Support Service Index”

Survey Question: *In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region?*

- Establish infrastructure which enables development of innovation and knowledge transfer, for example living labs, demonstrators, test sites, show rooms, easily accessible research environments, clinical trials, open source facilities.
- Established knowledge networks, collaboration platforms to support continuous improvement.
- Established public-private partnerships.
- Support for bringing products and services to the market and growing market share.
- Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.
- Procedural and administrative simplifications.
- Programs for innovation cooperation partnerships.
- Support for the valorisation of research outcomes.
- Support on legal aspects including intellectual property rights, procurement, regulation.

Input for “Development & Use of innovative products & Services Index”

Survey Question: *How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region?*

- Development of new ideas related to smart health and care solutions in your region?
- Development of innovative products and services for smart health and care in your region?
- Use of innovative smart health and care products and services in practice on a daily basis in your region.

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

The end ☺

Questions welcome

Project smedia

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Report 6: Limousin (France)

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Sample & Respondents

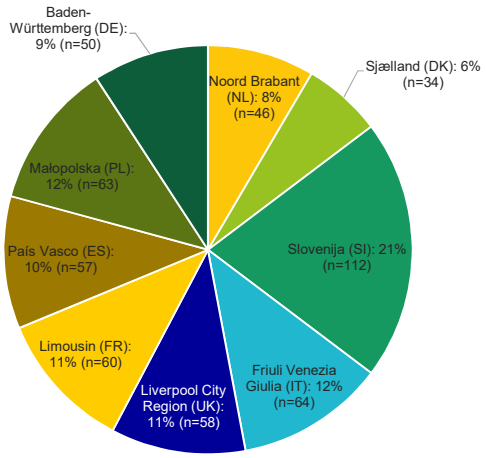
Input for „Intro to the theme“

ITHACA SURVEY BASICS

In total, 544 of stakeholders across nine European regions have responded to the ITHACA SA Survey. The highest absolute numbers of responses were collected in Slovenia, Italy and Poland, and the lowest in Denmark and the Netherlands.

TOTAL RESPONSES
544

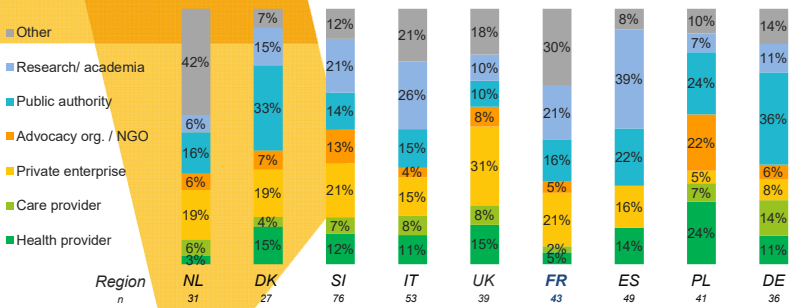
Note: Additionally, 4 responses from non listed regions were collected. But are excluded from further analysis.



TYPE OF ORGANIZATION

Poland has the highest share of respondents from health providing organizations (24%), while the Netherlands and France have the lowest. The share of respondents from private enterprises is the highest in the UK (39%).

What type is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

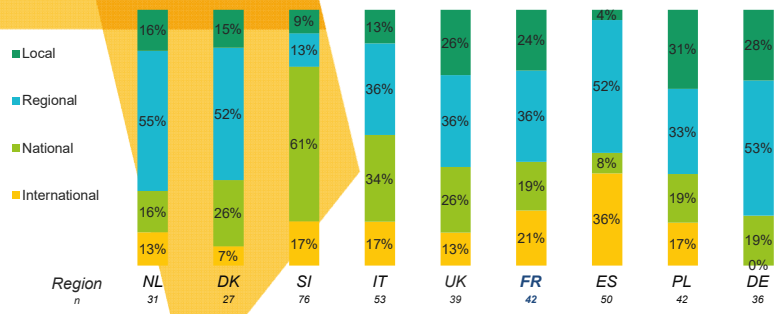
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

What is the main scope of the organization?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

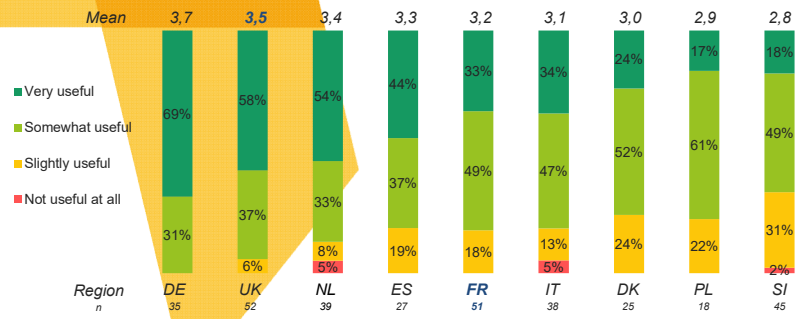
Results Summary

Input for „Intro to the theme“

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

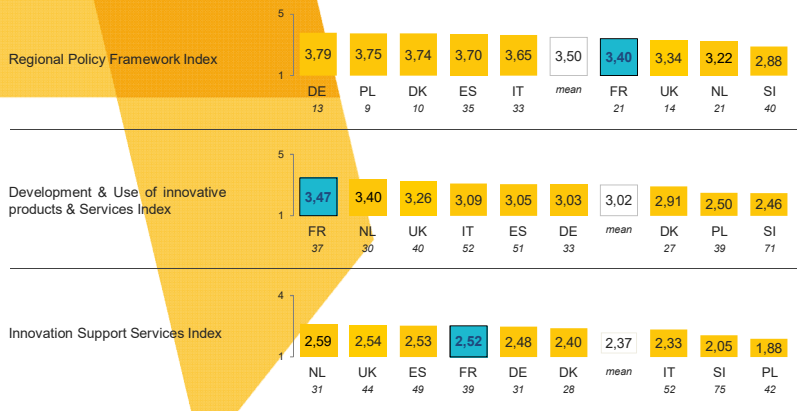
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION & POLICY INDICES

Composite indices are presented below. The highest average score on innovation support services was recorded in **the Netherlands** and the lowest in **Poland**. According to respondents the development and use of innovative products and services is the highest in France and the Netherlands, and the lowest in Slovenia and Poland. Regional policy framework on the other hand, is rated highly in **Germany**, **Poland** and **Denmark**, whereas in **Slovenia** it is distinctively lower.



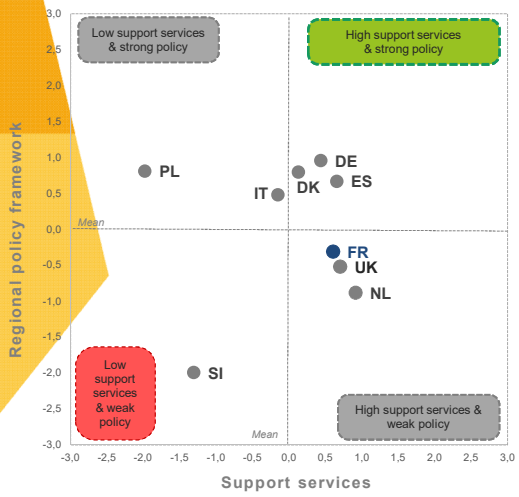
Note: Composite Regional indices are calculated as an average of participants' average score on all items within the same theme. Items for Innovation Support Service Index: Q13a to Q13i. Items for Development & Use of innovative products & Services Index: Q15a, Q15b and Q15c. Items for Regional Policy Framework Index: Q19a to Q19g.

REGION POSITIONING

In comparison of regions by innovation support services index and regional policy framework index, **Spain** and **Germany** are positioned as regions with high support services and strong policy, while **Slovenia** is positioned as a region with low support services and the weakest regional policy. Poland, on the other hand, is positioned as a region with strong policy but low support services, while in the Netherlands the situation is reversed.

Note: Regional Support services Indices on X axis and Regional policy framework indices on Y axis.

Values on both dimensions (Support services and Policy framework) have been standardized to neutralize the effect of different measurement scales.



ITHACA
Interreg Europe

European Union
European Regional Development Fund

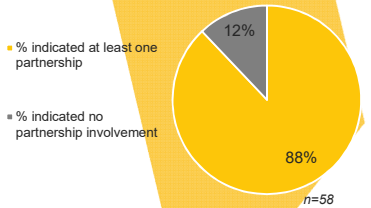
FR Highlights

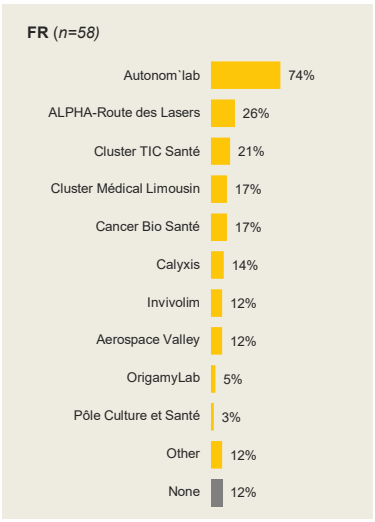
Input for „World cafe“

ECOSYSTEM – Cooperation partnership involvement

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?

Involvement in at least one cooperation partnership:

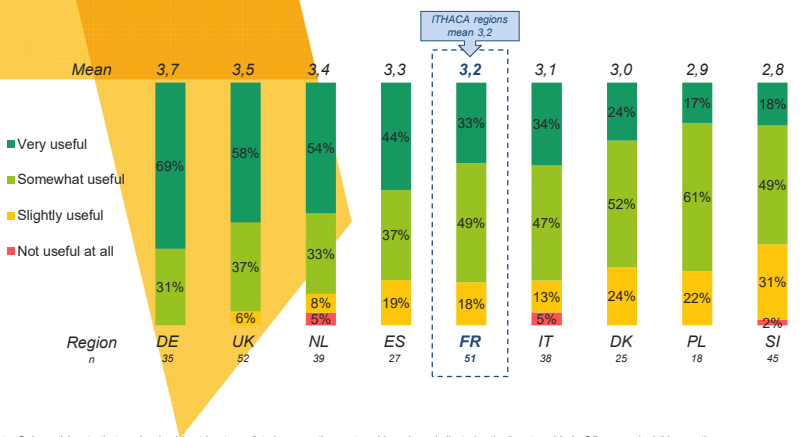




ECOSYSTEM - Usefulness of involvement

On a scale from 1 (Not useful at all) to 4 (Very useful), the FR region average equals the average of ITHACA regions, with 33% of respondents finding the involvement very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



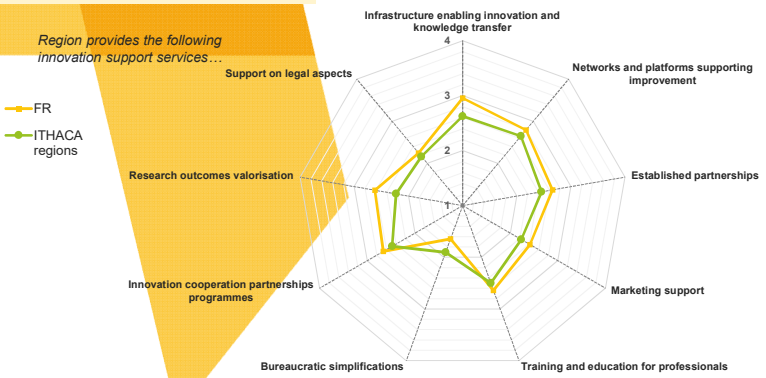
Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION - Support services

FR Support Services Index is higher than the average index value of ITHACA regions. The rated extent of services is somewhat below the average only for the *Bureaucratic simplifications*.

Within the region, *Infrastructure enabling innovation and knowledge transfer* (2,96) has on average the highest rated extent of all Support services items, followed by *Networks and platforms supporting improvement* (2,80), while *Bureaucratic simplifications* have by far the lowest rating, with the average of 1,64.

FR Support Services Index	**2,52**
ITHACA regions Support service Index	2,37



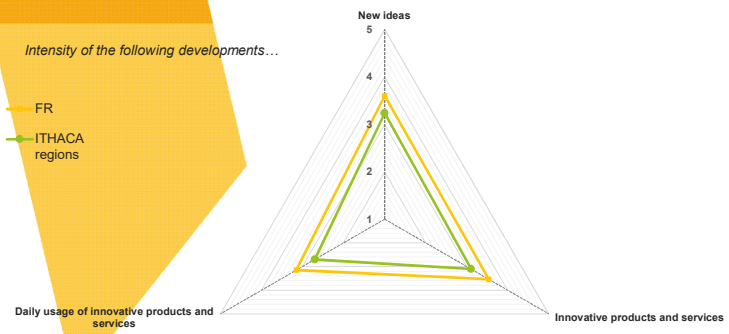
Note: Regional index is based on respondents who answered all items within theme (Q13a to Q13i). Global index is a simple average over ITHACA regions, where units are regions.

INNOVATION - Development & use of innovative products & services

FR Development & Use of innovative Products & Services Index is higher than the average index value of ITHACA regions. The rated intensities of all developments are above the corresponding averages of all ITHACA regions.

Within the region, *New ideas* (3,60) are rated as the most intensively occurring development in the field, followed by *Innovative products and services* (3,54). The value is somewhat lower for the intensity of *Daily usage of innovative products and services* (3,15).

FR Development & Use of innovative products & Services Index	**3,47**
ITHACA regions Development & Use of innovative products & Services Index	3,02



Note: Regional index is based on respondents who answered all items within theme (Q15a to Q15c). Global index is a simple average over ITHACA regions, where units are regions.

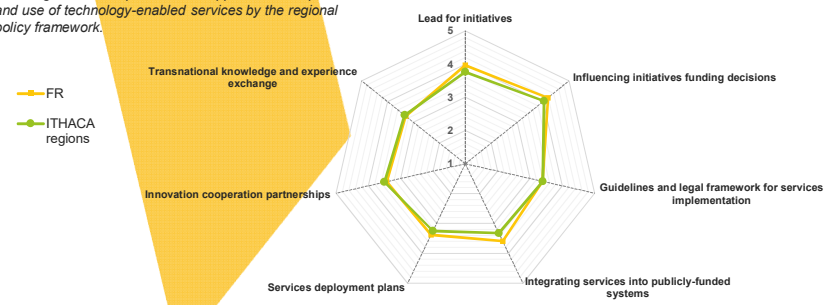
POLICY – Regional Policy Framework

FR Regional Policy Index is somewhat lower than the average index value of ITHACA regions. Averages of individual items are at about the same level as corresponding ITHACA regions averages.

Within the region, *Influencing initiatives funding decisions* (4,19) has the highest average value among the regional policy framework facets, followed by *Lead for initiatives* (3,97). The lowest average values were recorded for *Services deployment plans* and *Guidelines and legal framework for services implementation*, both 3,38, and for *Transnational knowledge and experience exchange* (3,29).

FR Policy Framework Index	**3,40**
ITHACA regions Policy Framework Index	3,50

Rated agreement on provision of support to development and use of technology-enabled services by the regional policy framework.

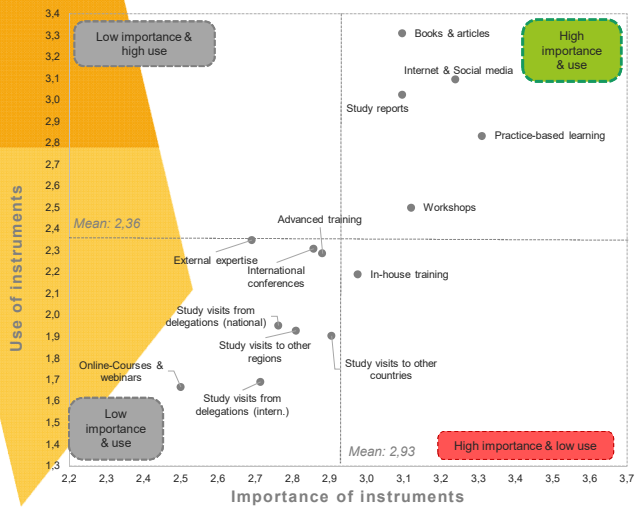


Note: Regional index is based on respondents who answered all items within theme (Q19a to Q19g). Global index is a simple average over ITHACA regions, where units are regions.

LEARNING – Relative importance & use of instruments

In FR the most important and most used instruments in practice from a relative point of view are: **Practice-based learning**, **Internet and social media, Workshops, Study reports** and **Books and articles**. In-house training is the only instruments to fall in the category with high relative discrepancy between the importance and use.

***Sample sizes** for presented instruments and their use/importance vary from 40 to 42.*



Note: Measurement scale for importance and use goes from 1 to 4.

ITHACA
Interreg Europe

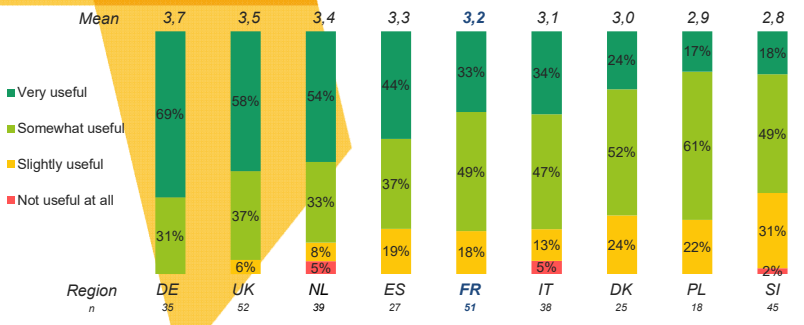
European Union
European Regional
Development Fund

Detailed overview of the results

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

ECOSYSTEM – Regional collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within your region? *Scale 1 (Not at all) to 4 (To a large extent).*

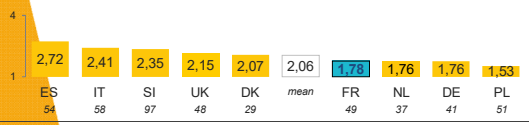
ECOSYSTEM – National collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other regions in your country? *Scale 1 (Not at all) to 4 (To a large extent).*

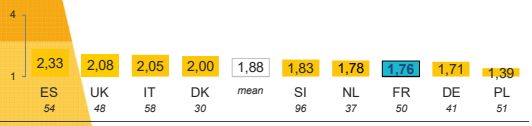
ECOSYSTEM – European collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other EU countries? *Scale 1 (Not at all) to 4 (To a large extent).*

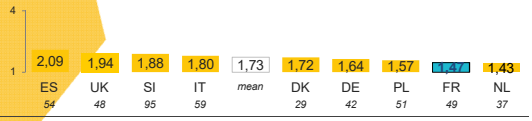
Research & education: public and private research bodies, universities, education and training, science and technology parks, technology transfer offices, etc.



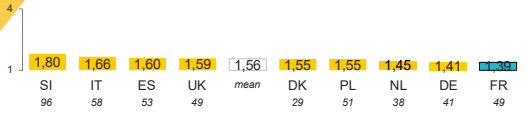
Business: manufacturing and services, primary sector (such as agriculture), financial sector, creative industries, social sector, large firms, small and medium enterprises (SMEs), cluster and business organisations.



Public administration: different departments at different government levels, agencies, business advice, public procurement offices, incubators, etc.



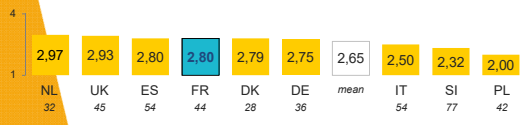
Civil society / Citizens: non-governmental organizations (NGOs) and citizens' initiatives related to societal challenges, consumers' associations, etc.



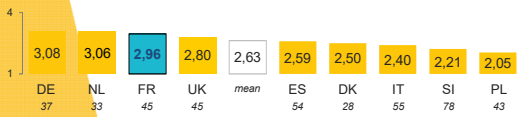
INNOVATION - Support services 1

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

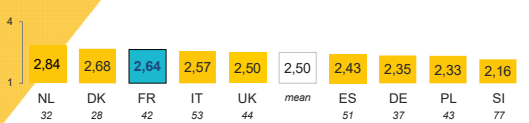
Established knowledge networks, collaboration platforms to support continuous improvement.



Established infrastructure which enables development of innovation and knowledge transfer..

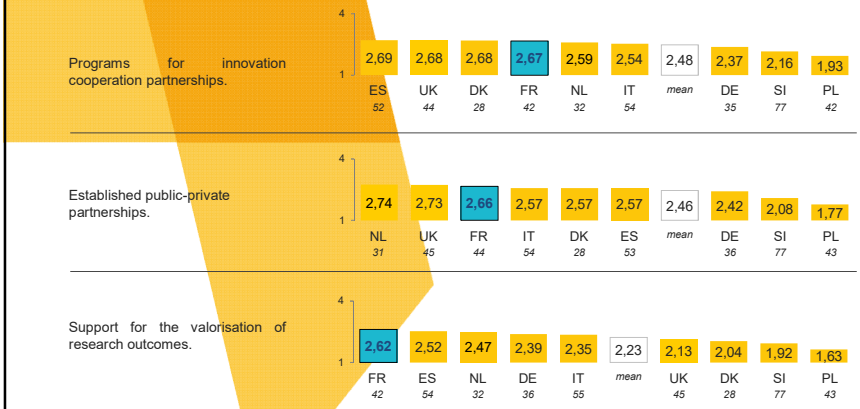


Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.



INNOVATION - Support services 2

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

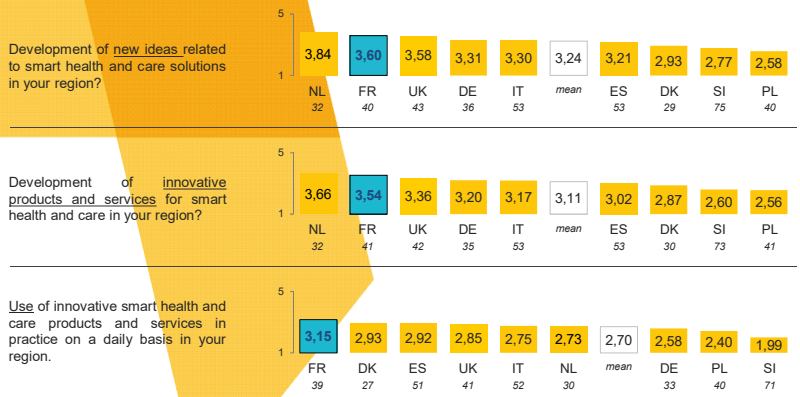


INNOVATION - Support services 3

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

INNOVATION – Development and use of innovative products and services

How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region? *Scale 1 (Very low intensity) to 5 (Very high intensity).*



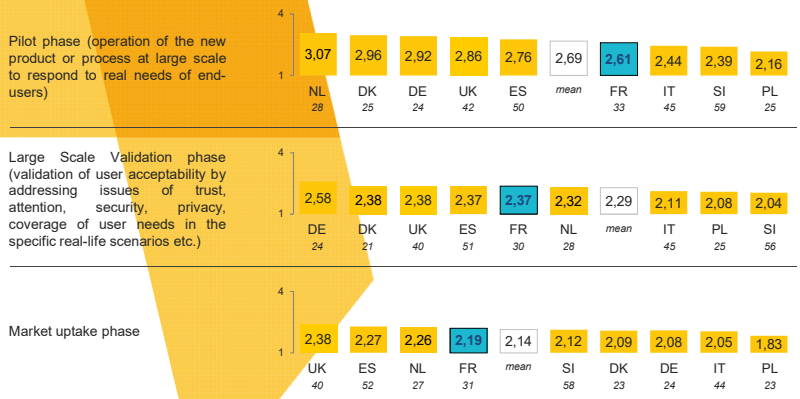
INNOVATION - Phases 1

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*

Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

INNOVATION - Phases 2

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*

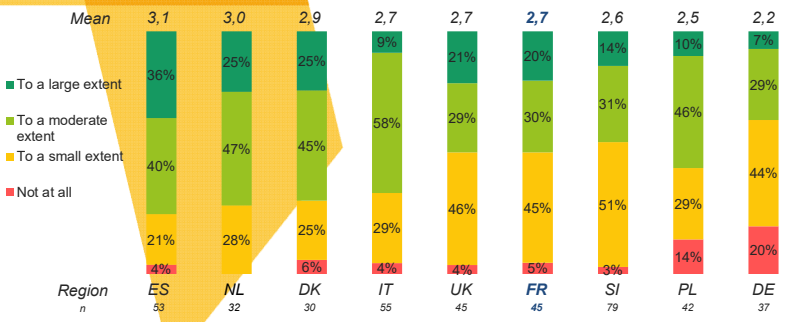


Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

POLICY - Information

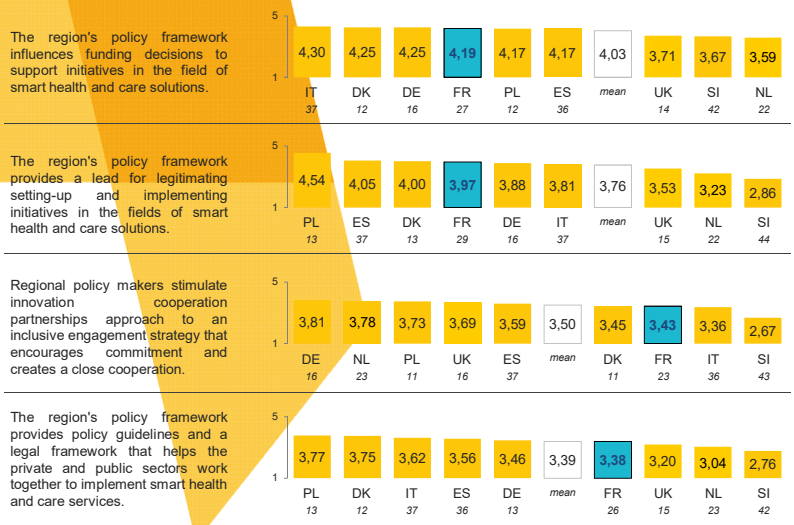
The share of respondents that are to a large or moderate extent informed about regional policy, strategies and programs is highest in **Spain**, **the Netherlands** and **Denmark**, and the lowest in Slovenia and Germany. The share of respondents who claim that are not informed at all is the highest in **Poland** and **Germany**.

To what extent are you informed about the regional policy, strategies, and programs in the field of smart health and care?



POLICY - Framework 1

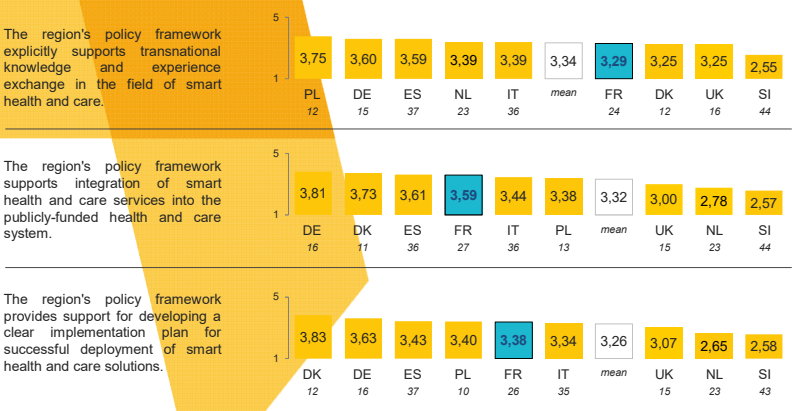
To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

POLICY - Framework 2

To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



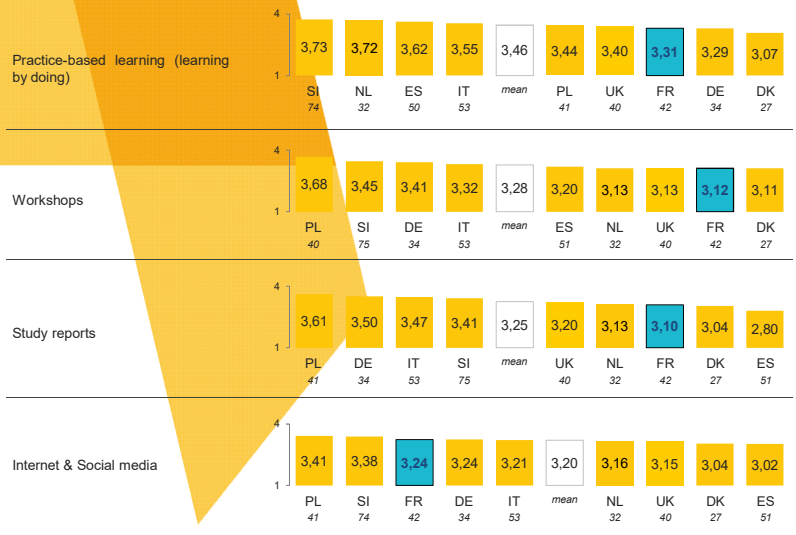
Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

LEARNING - Importance to learn in exchange

How important is it for your work to learn in exchange with experts and other stakeholders within your own region/country or from other cities/counties, regions and countries? *Scale 1 (Not important at all) to 4 (Very important)*.

LEARNING - Importance of channels / instruments / approaches 1

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important)*.

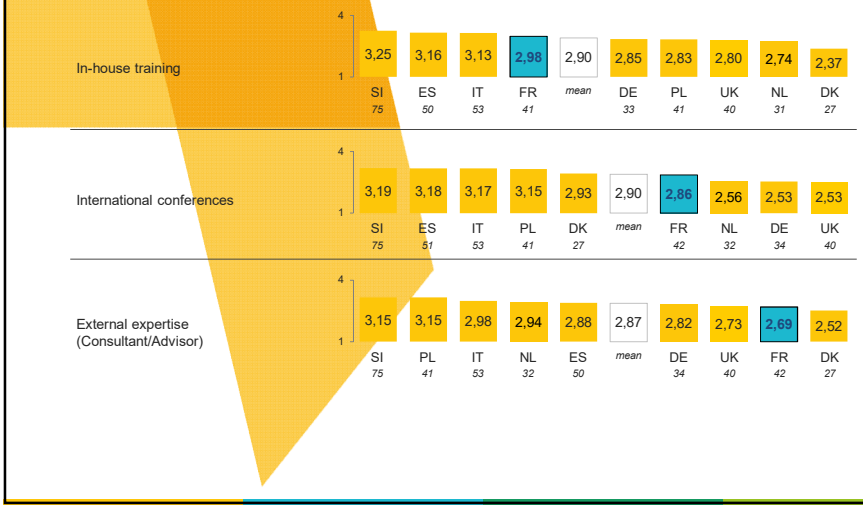


LEARNING - Importance of channels / instruments / approaches 2

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*

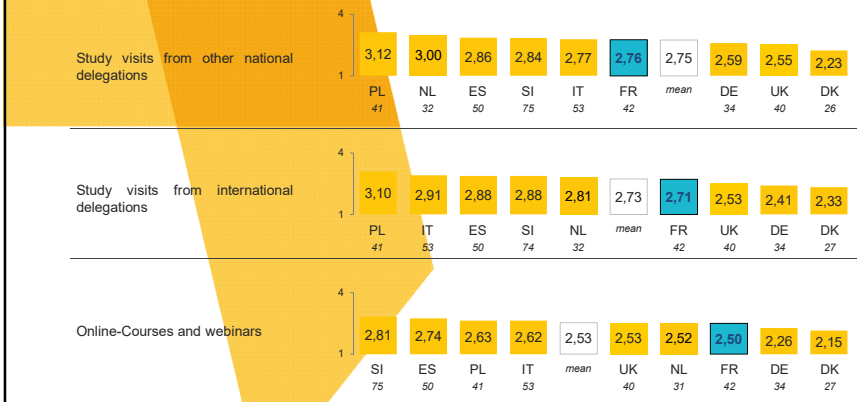
LEARNING - Importance of channels / instruments / approaches 3

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



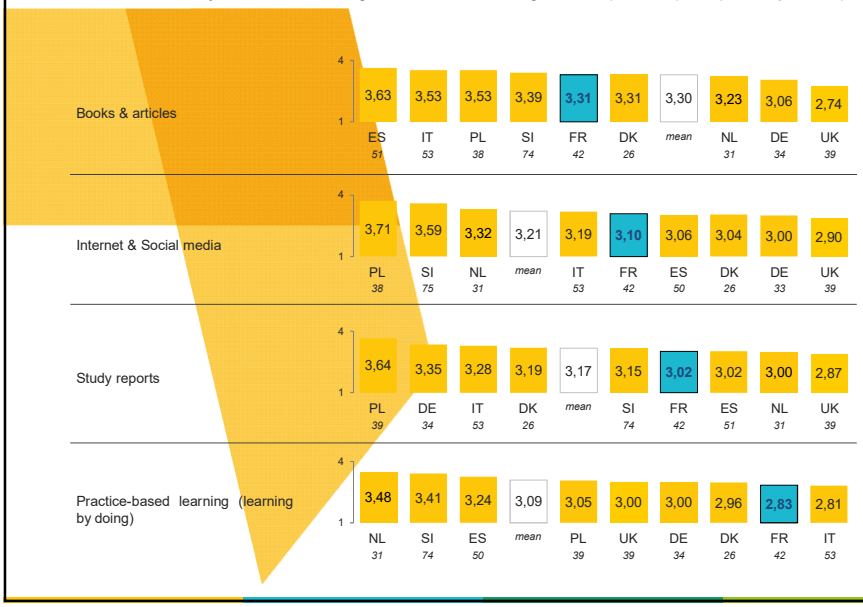
LEARNING - Importance of channels / instruments / approaches 4

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



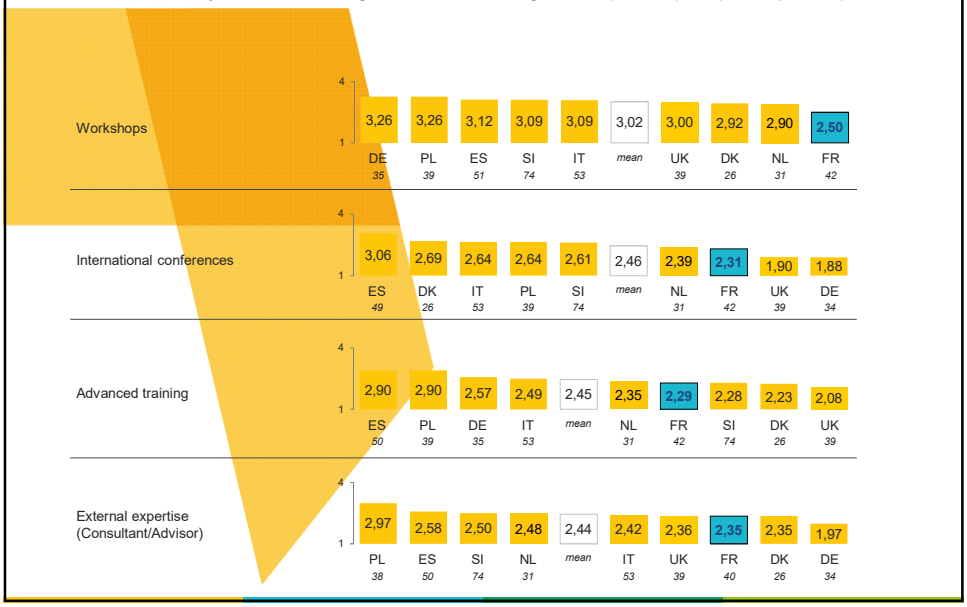
LEARNING - Use of instruments 1

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



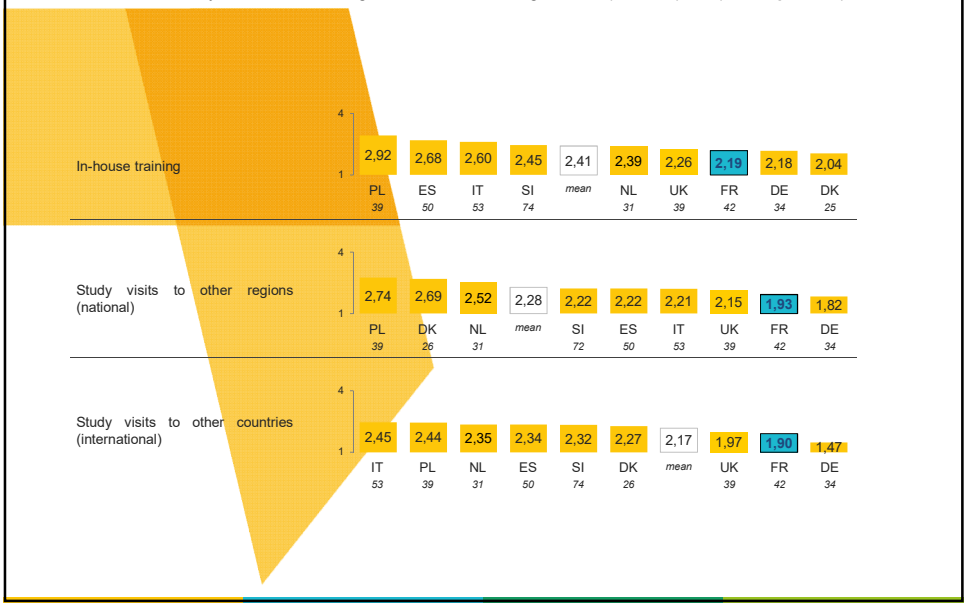
LEARNING - Use of instruments 2

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



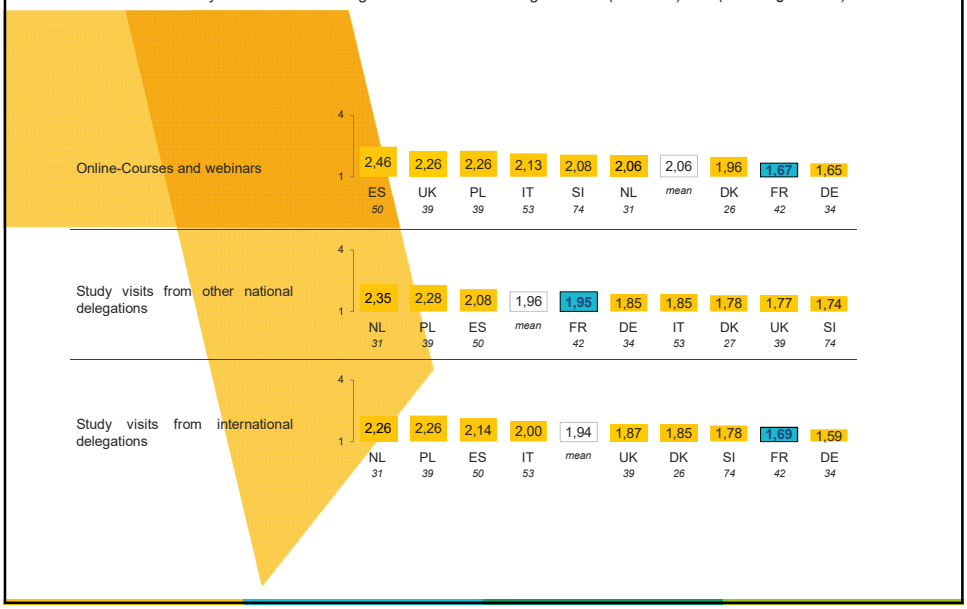
LEARNING - Use of instruments 3

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



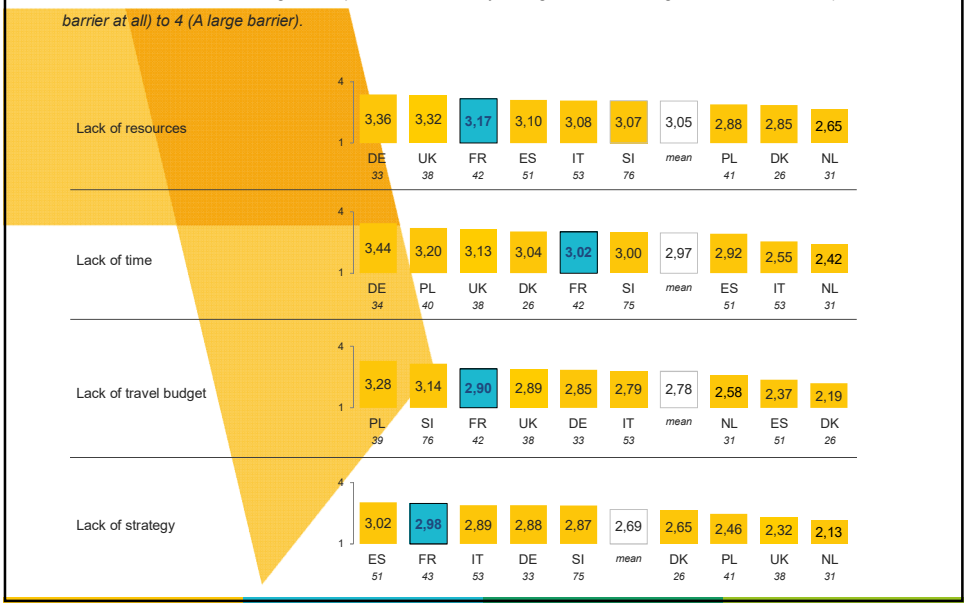
LEARNING - Use of instruments 4

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



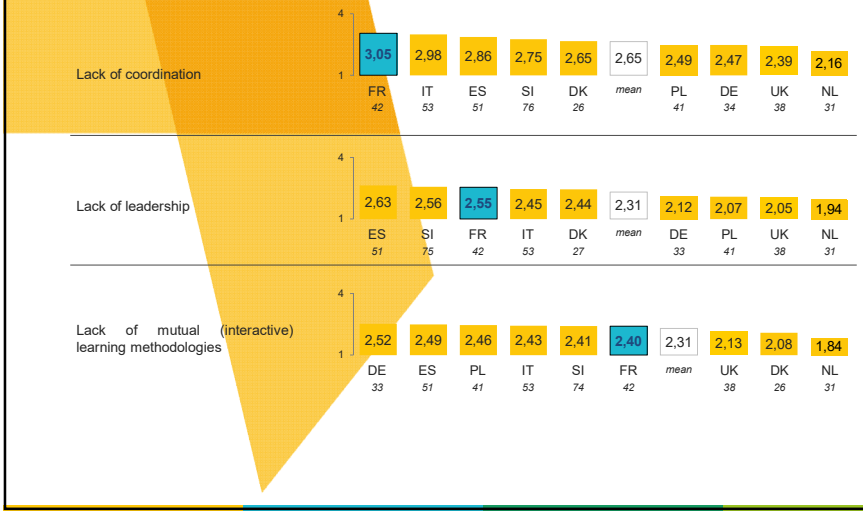
LEARNING - Barriers 1

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



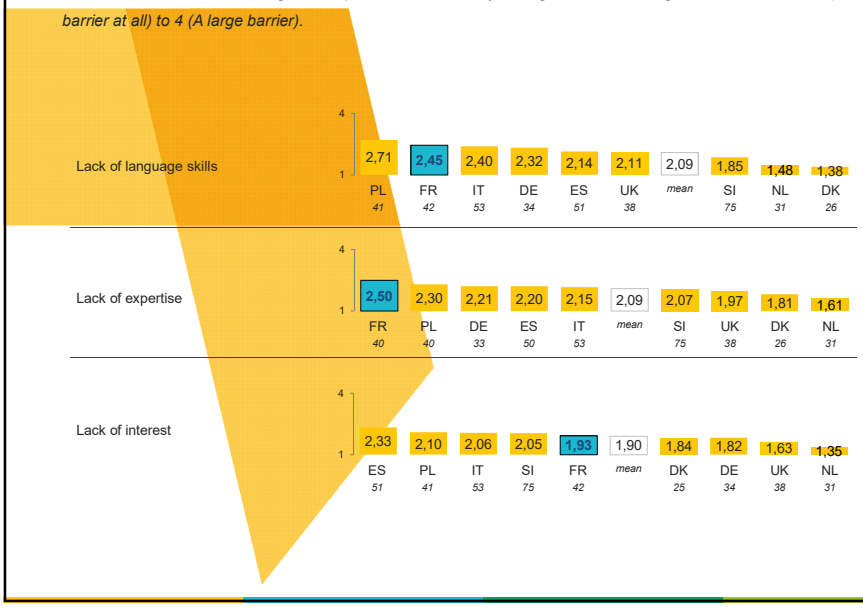
LEARNING - Barriers 2

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



LEARNING - Barriers 3

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



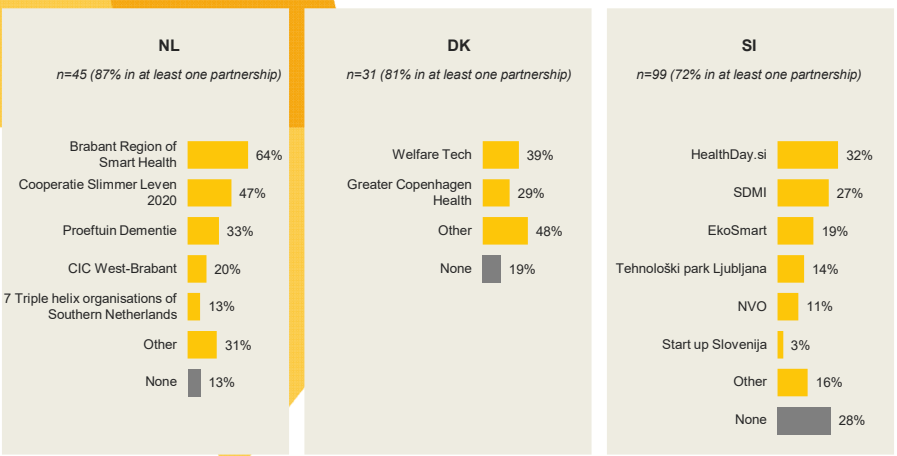
ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Detailed sample characteristics

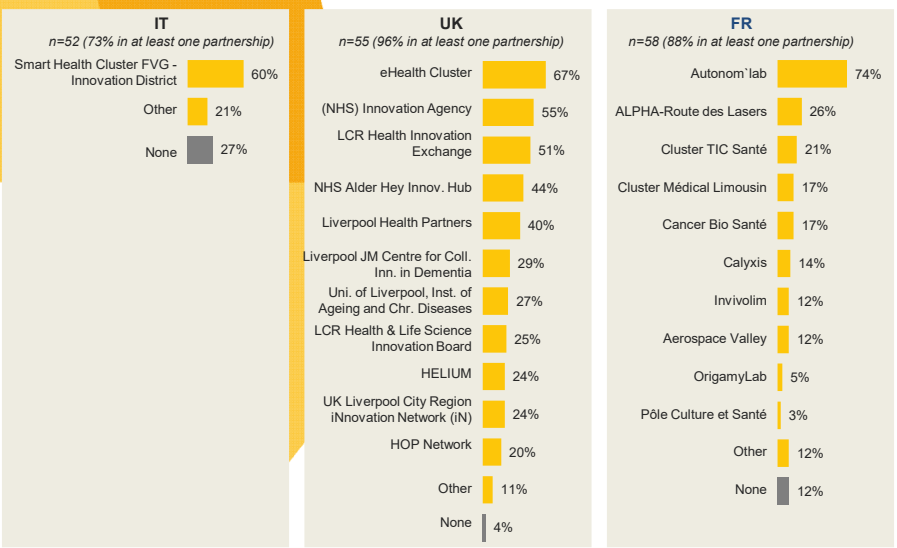
COOPERATION PARTNERSHIPS INVOLVEMENT 1

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



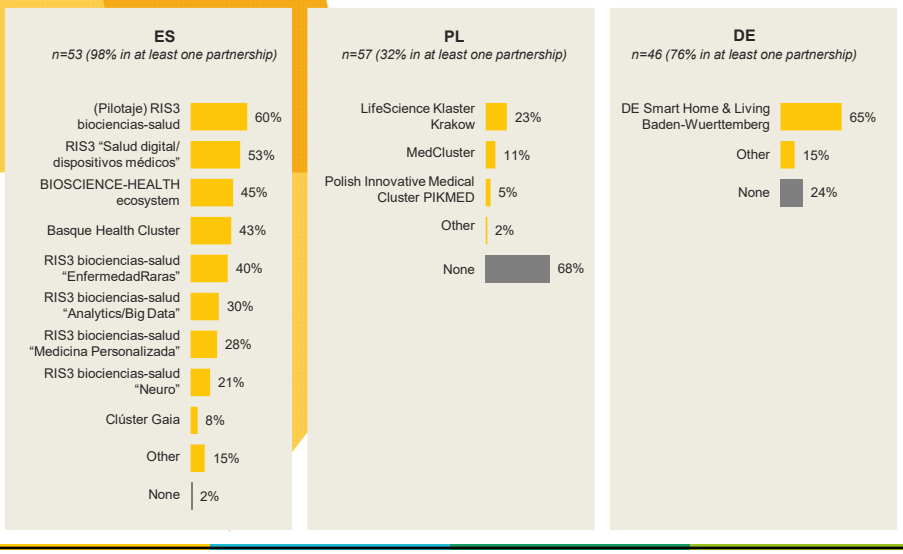
COOPERATION PARTNERSHIPS INVOLVEMENT 2

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



COOPERATION PARTNERSHIPS INVOLVEMENT 3

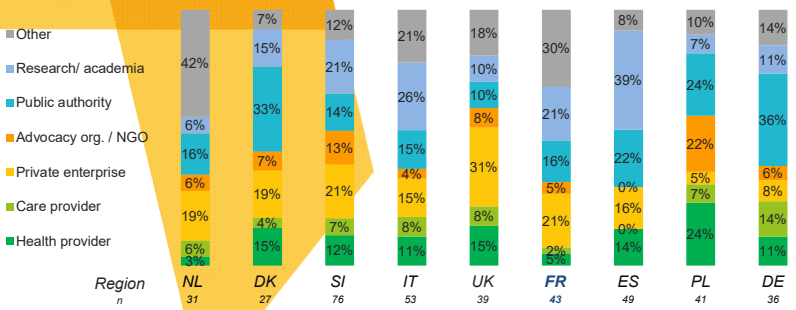
Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



TYPE OF ORGANIZATION

Poland has the highest share of respondents that are health providers (24%) while the Netherlands and France have the lowest. UK has the highest share of respondents that are private enterprises (39%).

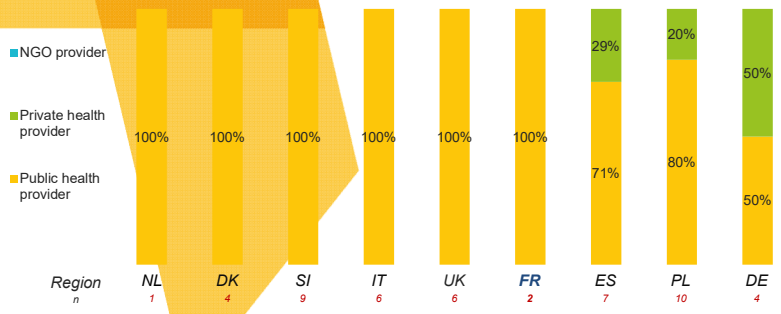
What type is your organization?



TYPE OF HEALTH PROVIDER

Although the samples are very small, the results indicate that in almost all regions a vast majority of health providers are public organizations.

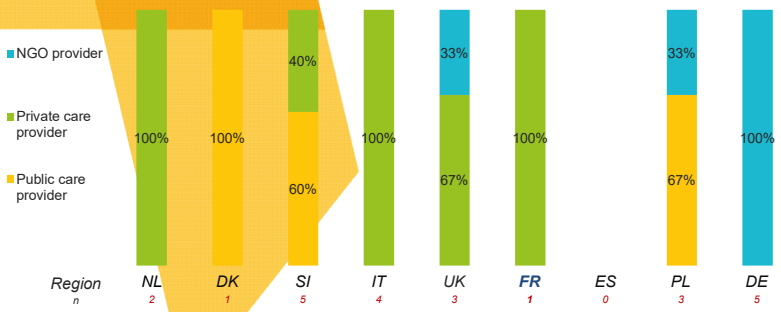
What type of health provider is your organization?



TYPE OF CARE PROVIDER

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

What type of care provider is your organization?



TYPE OF ADVOCACY

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

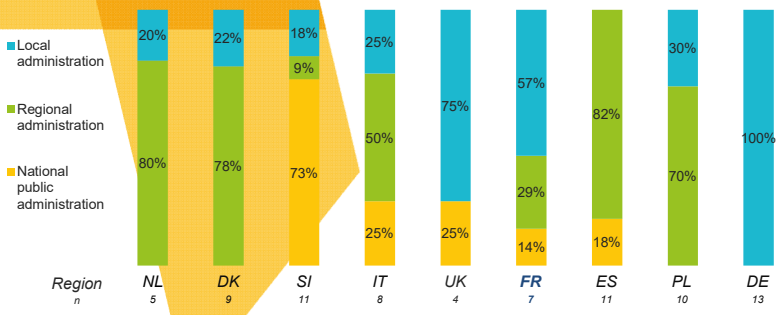
What type of advocacy does your organization provide?

Region	n	H. CARE PROFESSIO-NALS	OLDER PEOPLE	PATIENTS	INFORMAL CAREGIVERS	OTHER
NL	2		50%	50%		100%
DK	2				50%	50%
SI	10		70%		20%	30%
IT	2		50%			50%
UK	3	67%	67%	67%	67%	33%
FR	2	50%			50%	
ES	0					
PL	4		50%		25%	75%
DE	2		50%	50%	50%	50%

LEVEL OF PUBLIC AUTHORITY

Although the samples are very small, the results indicate that Slovenian public organizations mostly have national authority, German public organizations have local authority, while Spanish and Polish mostly have regional authority.

What level of authority is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

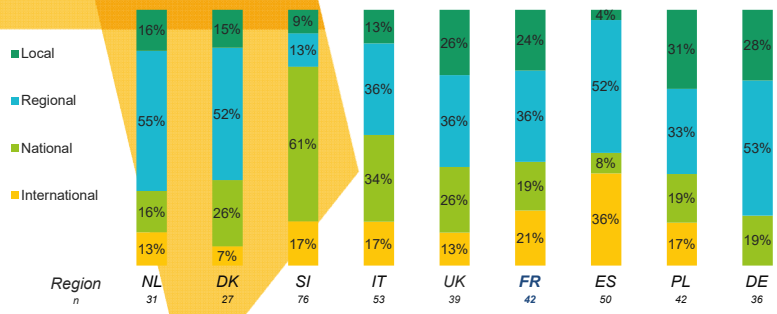
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

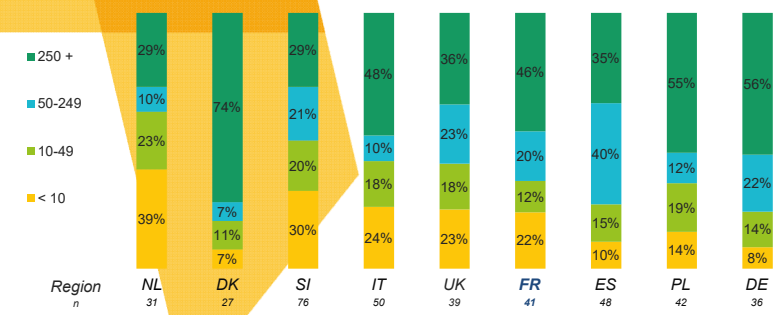
What is the main scope of the organization?



NUMBER OF EMPLOYEES

All regions have a noticeable share of organizations with more than 250 employees, the highest share was recorded in Denmark (74%), while in the Netherlands and Slovenia it is the lowest and stands at 29% in both regions. The Netherlands and Slovenia also have the highest share of organizations with less than 10 employees, 39% and 30% respectively.

How many employees does your organization have?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Appendix

Input for "Regional Policy Framework Index"

Survey Question: *Thinking about the current policy framework in your region, to what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region?*

- The region's policy framework provides a lead for legitimating setting-up and implementing initiatives in the fields of smart health and care solutions.
- The region's policy framework influences funding decisions to support initiatives in the field of smart health and care solutions.
- The region's policy framework provides policy guidelines and a legal framework that helps the private and public sectors work together to implement smart health and care services.
- The region's policy framework supports integration of smart health and care services into the publicly-funded health and care system.
- The region's policy framework provides support for developing a clear implementation plan for successful deployment of smart health and care solutions.
- Regional policy makers stimulate innovation cooperation partnership approach to an inclusive engagement strategy that encourages commitment and creates a close cooperation between public authorities, education and research institutions, business, and citizens/patients.
- The region's policy framework explicitly supports transnational knowledge and experience exchange in the field of smart health and care.

Input for “Innovation Support Service Index”

Survey Question: *In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region?*

- Establish infrastructure which enables development of innovation and knowledge transfer, for example living labs, demonstrators, test sites, show rooms, easily accessible research environments, clinical trials, open source facilities.
- Established knowledge networks, collaboration platforms to support continuous improvement.
- Established public-private partnerships.
- Support for bringing products and services to the market and growing market share.
- Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.
- Procedural and administrative simplifications.
- Programs for innovation cooperation partnerships.
- Support for the valorisation of research outcomes.
- Support on legal aspects including intellectual property rights, procurement, regulation.

Input for “Development & Use of innovative products & Services Index”

Survey Question: *How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region?*

- Development of new ideas related to smart health and care solutions in your region?
- Development of innovative products and services for smart health and care in your region?
- Use of innovative smart health and care products and services in practice on a daily basis in your region.

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

The end ☺

Questions welcome

Project smedia

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Report 7: País Vasco (Spain)

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Sample & Respondents

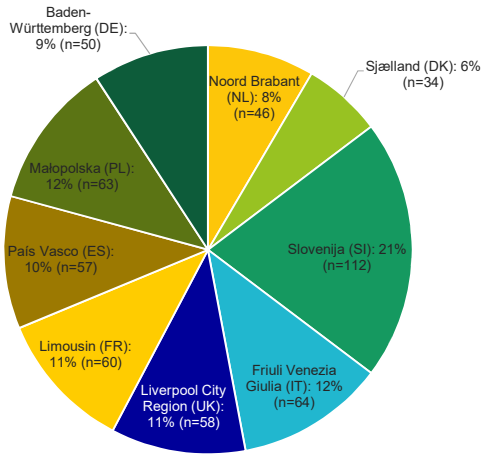
Input for „Intro to the theme“

ITHACA SURVEY BASICS

In total, 544 of stakeholders across nine European regions have responded to the ITHACA SA Survey. The highest absolute numbers of responses were collected in Slovenia, Italy and Poland, and the lowest in Denmark and the Netherlands.

TOTAL RESPONSES
544

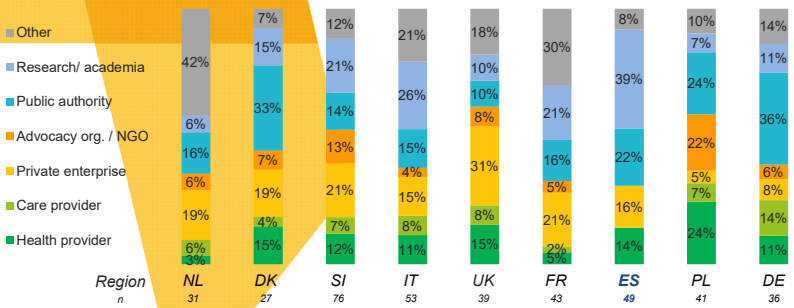
Note: Additionally, 4 responses from non listed regions were collected. But are excluded from further analysis.



TYPE OF ORGANIZATION

Poland has the highest share of respondents from health providing organizations (24%), while the Netherlands and France have the lowest. The share of respondents from private enterprises is the highest in the UK (39%).

What type is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

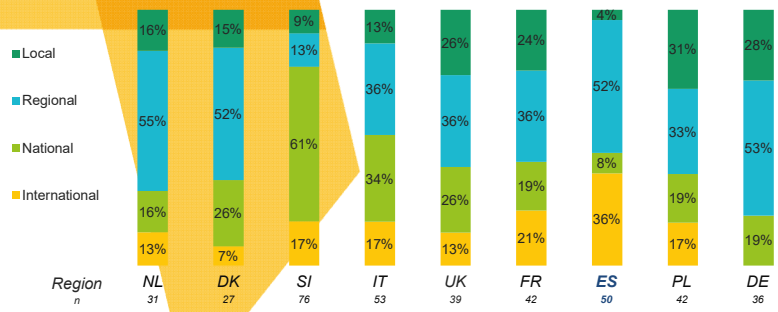
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

What is the main scope of the organization?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

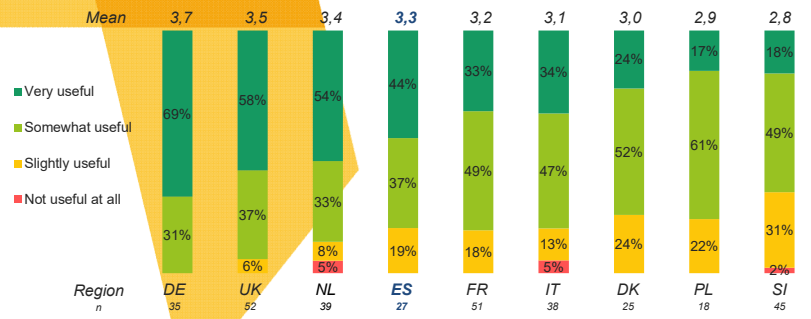
Results Summary

Input for „Intro to the theme“

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

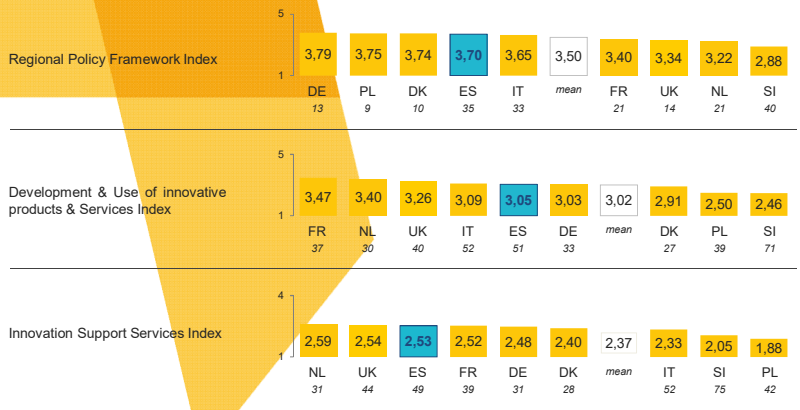
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION & POLICY INDICES

Composite indices are presented below. The highest average score on innovation support services was recorded in **the Netherlands** and the lowest in **Poland**. According to respondents the development and use of innovative products and services is the highest in France and the Netherlands, and the lowest in Slovenia and Poland. Regional policy framework on the other hand, is rated highly in **Germany**, **Poland** and **Denmark**, whereas in **Slovenia** it is distinctively lower.



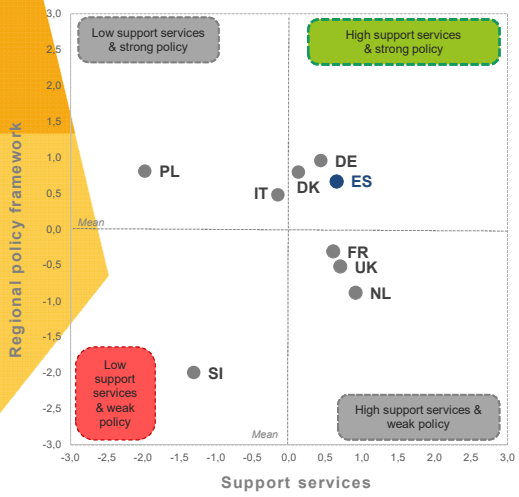
Note: Composite Regional indices are calculated as an average of participants' average score on all items within the same theme. Items for Innovation Support Service Index: Q13a to Q13i. Items for Development & Use of innovative products & Services Index: Q15a, Q15b and Q15c. Items for Regional Policy Framework Index: Q19a to Q19g.

REGION POSITIONING

In comparison of regions by innovation support services index and regional policy framework index, **Spain** and **Germany** are positioned as regions with high support services and strong policy, while **Slovenia** is positioned as a region with low support services and the weakest regional policy. Poland, on the other hand, is positioned as a region with strong policy but low support services, while in the Netherlands the situation is reversed.

Note: Regional Support services Indices on X axis and Regional policy framework indices on Y axis.

Values on both dimensions (Support services and Policy framework) have been standardized to neutralize the effect of different measurement scales.



ITHACA
Interreg Europe

European Union
European Regional Development Fund

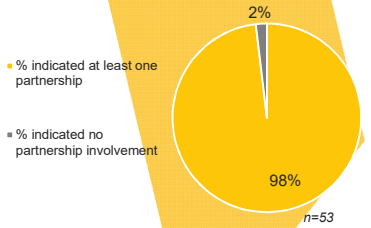
ES Highlights

Input for „World cafe“

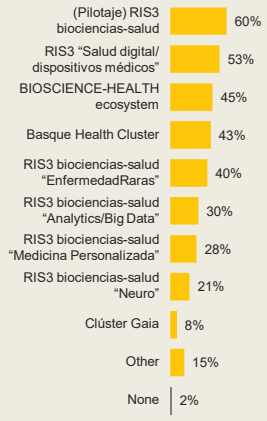
ECOSYSTEM – Cooperation partnership involvement

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?

Involvement in at least one cooperation partnership:



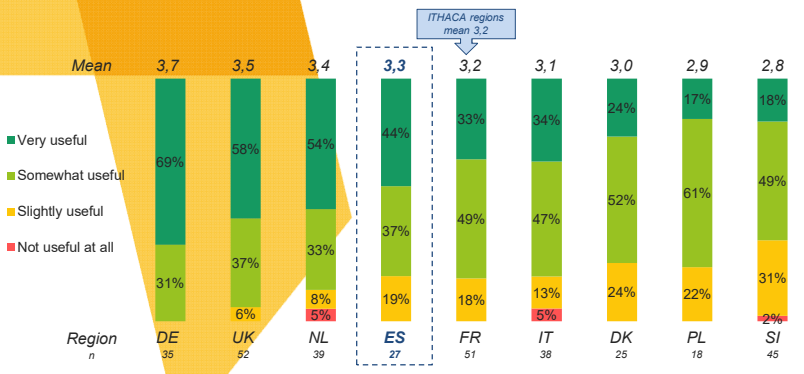
ES (*n=53*)



ECOSYSTEM - Usefulness of involvement

On a scale from 1 (Not useful at all) to 4 (Very useful), ES region has average value slightly above ITHACA average, with 44% of respondents finding the involvement very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



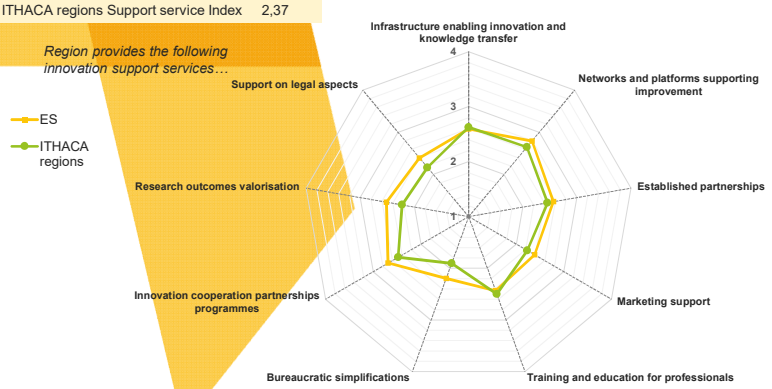
Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION - Support services

ES Support Services Index is higher than the average index value of ITHACA regions. The rated extent of services (individual items) are mostly close to ITHACA averages, with *Bureaucratic simplifications*, *Research outcomes valorisation* and *Support on legal aspects* having somewhat higher averages compared to the corresponding values for ITHACA regions.

Within the region, *Networks and platforms supporting improvement* (2,80) have on average the highest rated extent of all Support services items, followed by *Innovation cooperation partnerships programmes* (2,69). *Bureaucratic simplifications* have the lowest ratings, with the average value of 2,19.

ES Support Services Index	**2,53**
ITHACA regions Support service Index	2,37



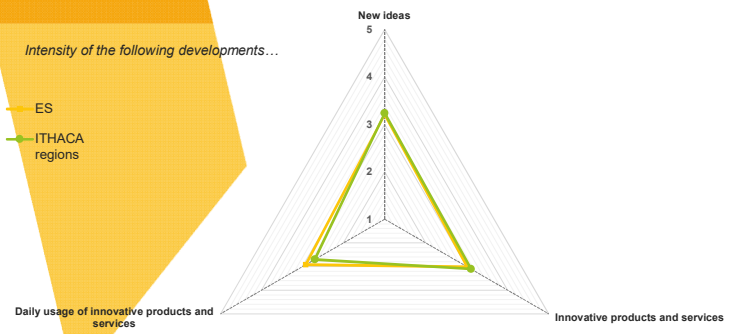
Note: Regional index is based on respondents who answered all items within theme (Q13a to Q13i). Global index is a simple average over ITHACA regions, where units are regions.

INNOVATION - Development & use of innovative products & services

ES Development & Use of innovative Products & Services Index is very close to the average index value of ITHACA regions. The rated intensities for individual items are similar to the corresponding averages of all ITHACA regions.

Within the region, *New ideas* (3,21) are rated as the most intensively occurring development in the field, followed by *Innovative products and services* (3,02), while *Daily usage of innovative products and services* (2,92) is rated as the least intensively occurring development in the field.

ES Development & Use of innovative products & Services Index	**3,05**
ITHACA regions Development & Use of innovative products & Services Index	3,02



Note: Regional index is based on respondents who answered all items within theme (Q15a to Q15c). Global index is a simple average over ITHACA regions, where units are regions.

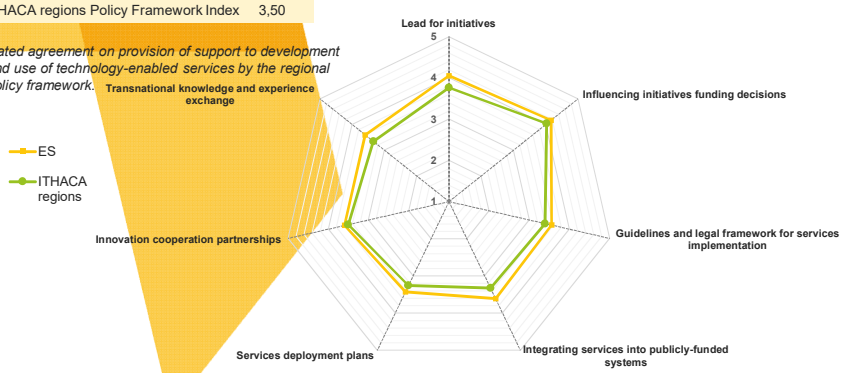
POLICY – Regional Policy Framework

ES Regional Policy Index is somewhat higher than the average index value of ITHACA regions. This is also true for all individual items, although items *Innovation cooperation partnerships* and *Influencing initiatives funding decisions* have average values just slightly above the corresponding ITHACA averages.

Within the region, *Influencing initiatives funding decisions* (4,17) has the highest average value among the regional policy framework facets, followed by *Lead for initiatives* (4,05). The lowest average values were recorded for *Guidelines and legal framework for services implementation* (3,56) and *Services deployment plans* (3,43).

ES Policy Framework Index	**3,70**
ITHACA regions Policy Framework Index	3,50

Rated agreement on provision of support to development and use of technology-enabled services by the regional policy framework.

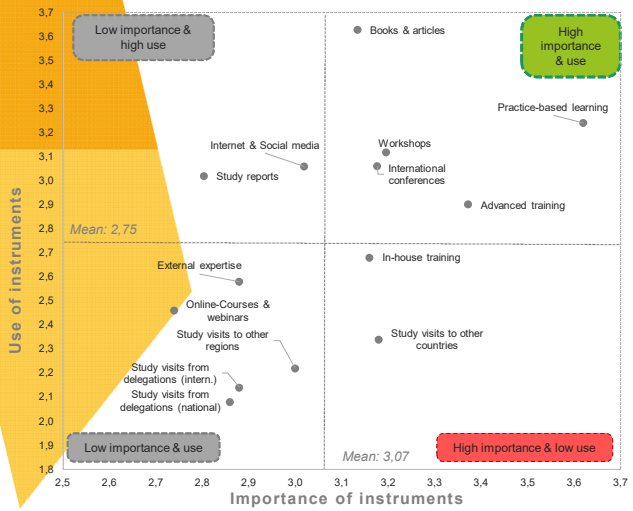


Note: Regional index is based on respondents who answered all items within theme (Q19a to Q19g). Global index is a simple average over ITHACA regions, where units are regions.

LEARNING – Relative importance & use of instruments

In ES region, the most important and most used instruments in practice from a relative point of view are: **Practice-based learning, Advanced training, Workshops, International conferences** and **Books and articles**. On the other side, **In-house training** and especially **Study visits to other countries** have a high relative discrepancy between the importance and use.

***Sample sizes** for presented instruments and their use/importance vary from 49 to 52.*



Note: Measurement scale for importance and use goes from 1 to 4.

ITHACA
Interreg Europe

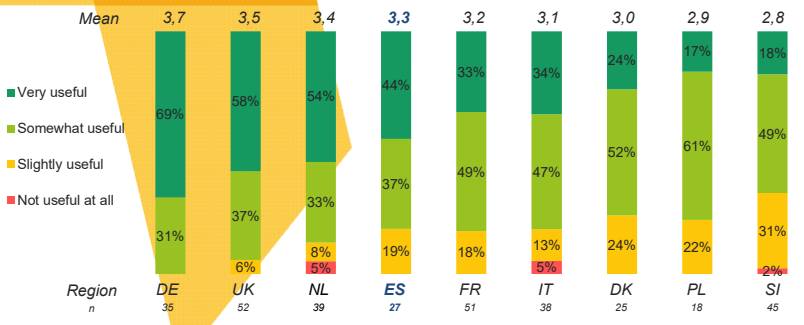
European Union
European Regional
Development Fund

Detailed overview of the results

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

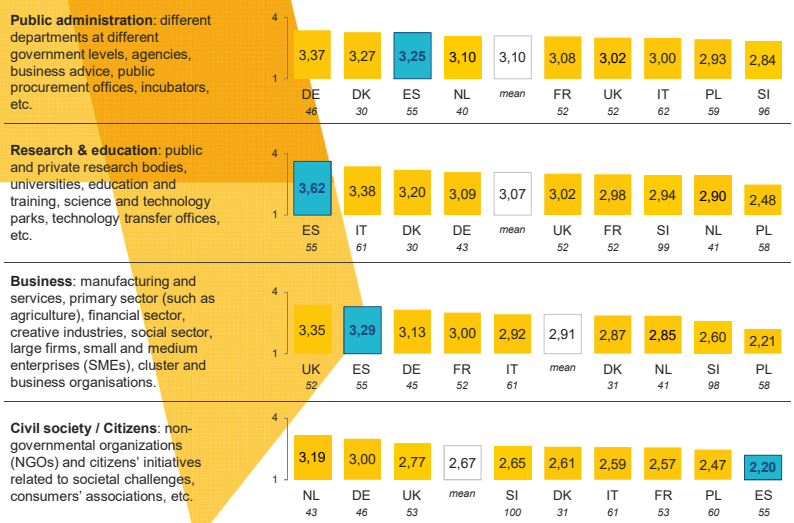
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

ECOSYSTEM – Regional collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within your region? *Scale 1 (Not at all) to 4 (To a large extent).*



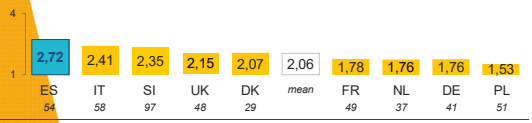
ECOSYSTEM – National collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other regions in your country? *Scale 1 (Not at all) to 4 (To a large extent).*

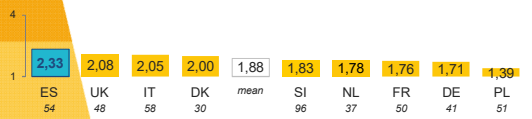
ECOSYSTEM – European collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other EU countries? *Scale 1 (Not at all) to 4 (To a large extent).*

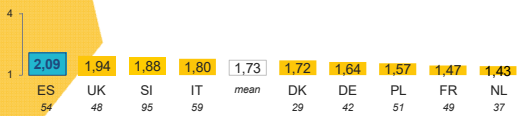
Research & education: public and private research bodies, universities, education and training, science and technology parks, technology transfer offices, etc.



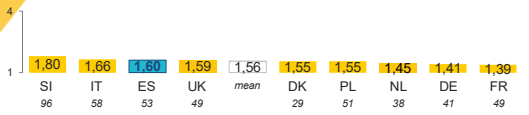
Business: manufacturing and services, primary sector (such as agriculture), financial sector, creative industries, social sector, large firms, small and medium enterprises (SMEs), cluster and business organisations.



Public administration: different departments at different government levels, agencies, business advice, public procurement offices, incubators, etc.



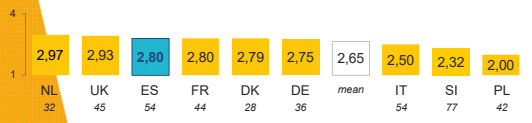
Civil society / Citizens: non-governmental organizations (NGOs) and citizens' initiatives related to societal challenges, consumers' associations, etc.



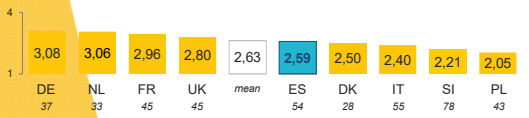
INNOVATION - Support services 1

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

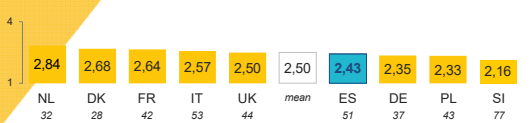
Established knowledge networks, collaboration platforms to support continuous improvement.



Established infrastructure which enables development of innovation and knowledge transfer..



Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.



INNOVATION - Support services 2

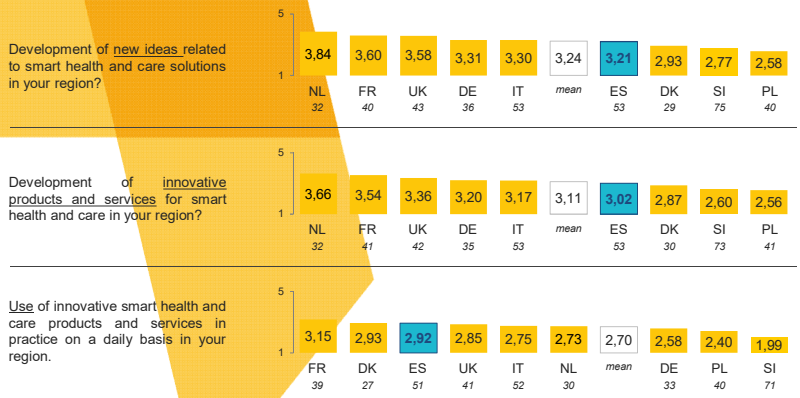
In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

INNOVATION - Support services 3

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

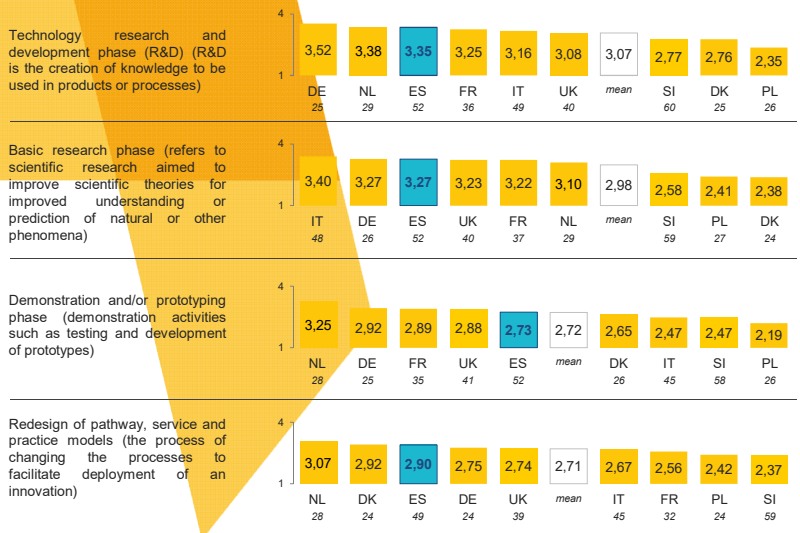
INNOVATION – Development and use of innovative products and services

How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region? *Scale 1 (Very low intensity) to 5 (Very high intensity).*



INNOVATION - Phases 1

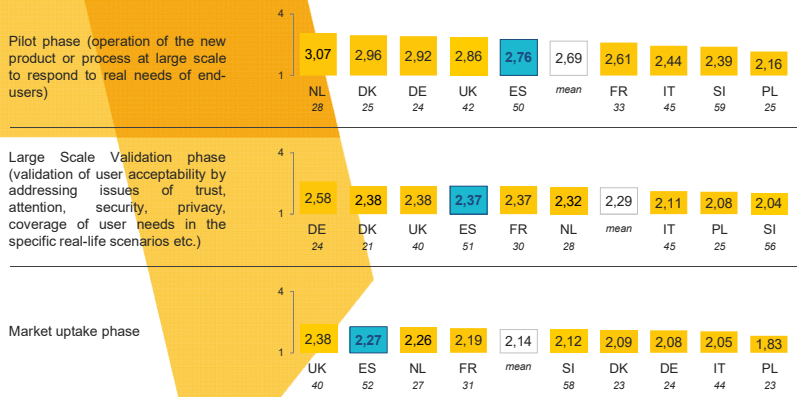
In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*



Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

INNOVATION - Phases 2

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*

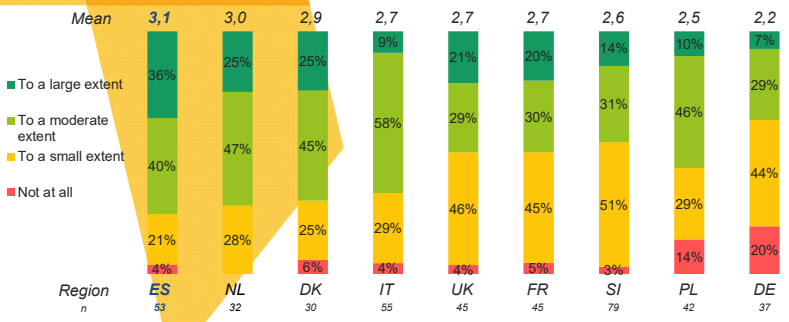


Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

POLICY - Information

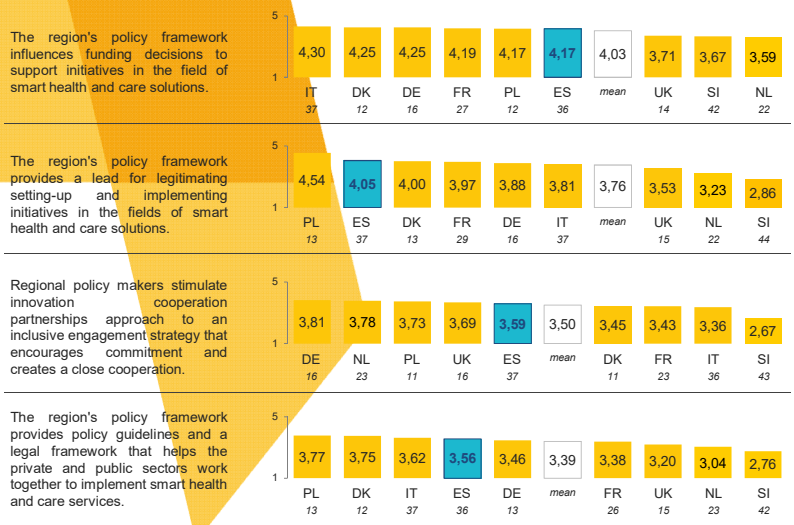
The share of respondents that are to a large or moderate extent informed about regional policy, strategies and programs is highest in **Spain**, **the Netherlands** and **Denmark**, and the lowest in Slovenia and Germany. The share of respondents who claim that are not informed at all is the highest in **Poland** and **Germany**.

To what extent are you informed about the regional policy, strategies, and programs in the field of smart health and care?



POLICY - Framework 1

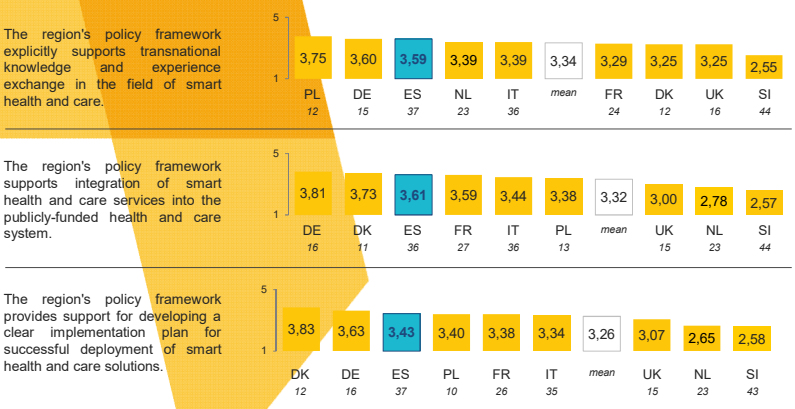
To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

POLICY - Framework 2

To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



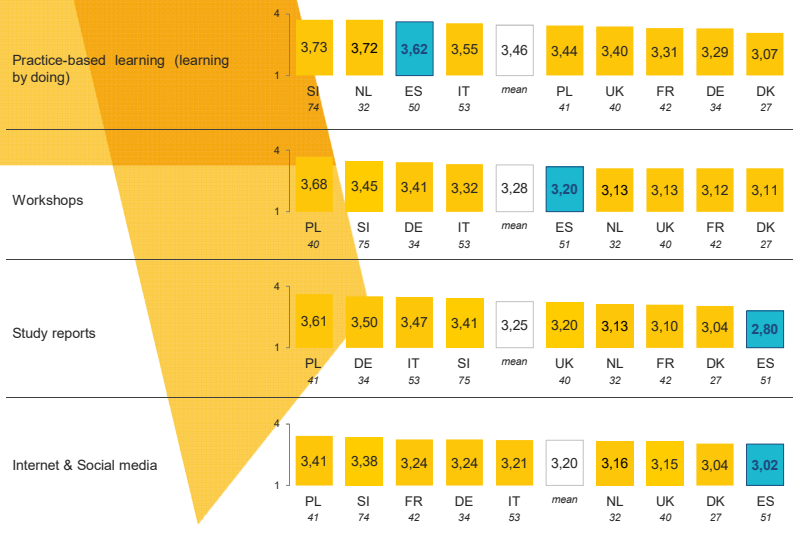
Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

LEARNING - Importance to learn in exchange

How important is it for your work to learn in exchange with experts and other stakeholders within your own region/country or from other cities/counties, regions and countries? *Scale 1 (Not important at all) to 4 (Very important)*.

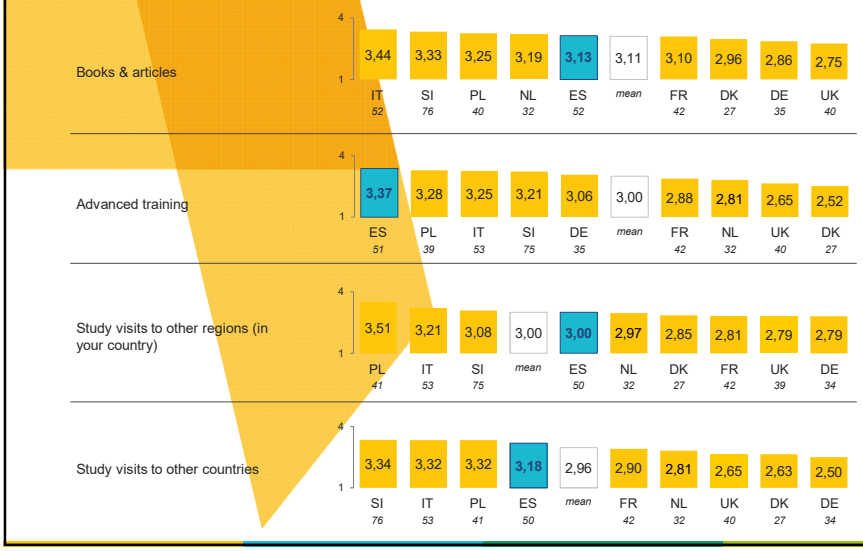
LEARNING - Importance of channels / instruments / approaches 1

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important)*.



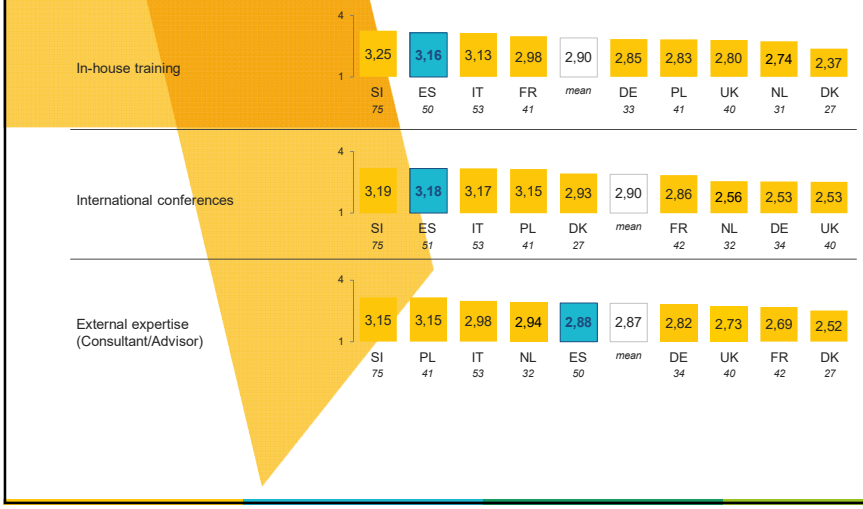
LEARNING - Importance of channels / instruments / approaches 2

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



LEARNING - Importance of channels / instruments / approaches 3

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*

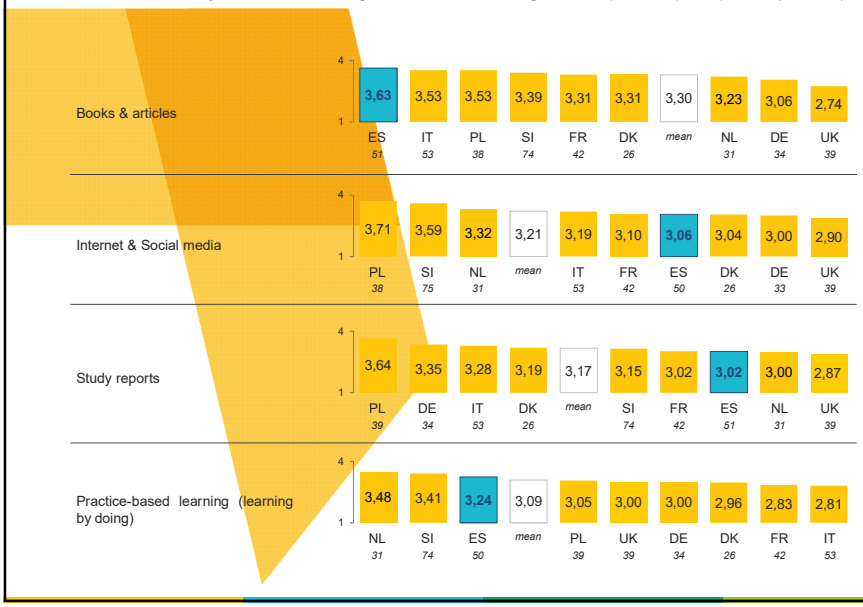


LEARNING - Importance of channels / instruments / approaches 4

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*

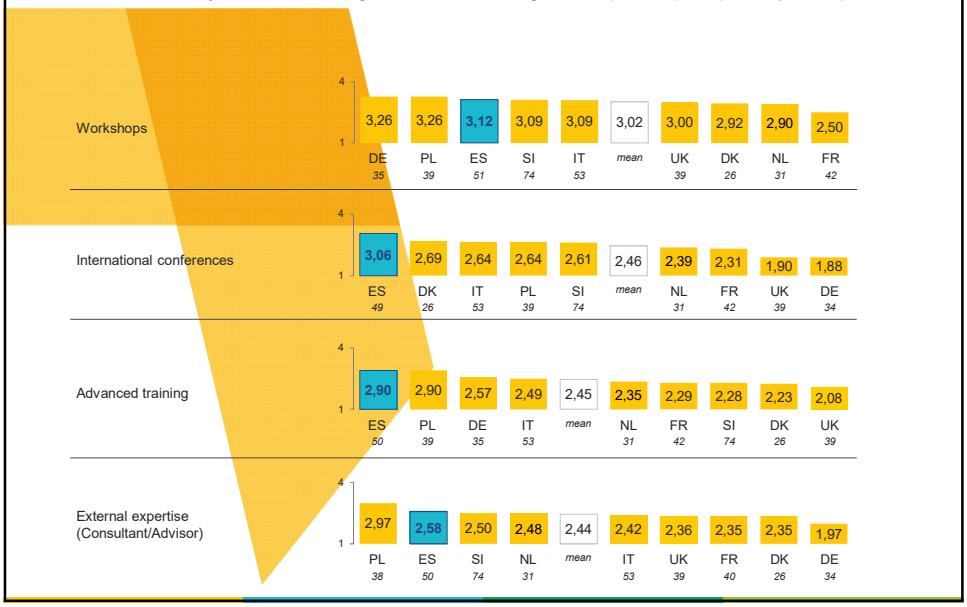
LEARNING - Use of instruments 1

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



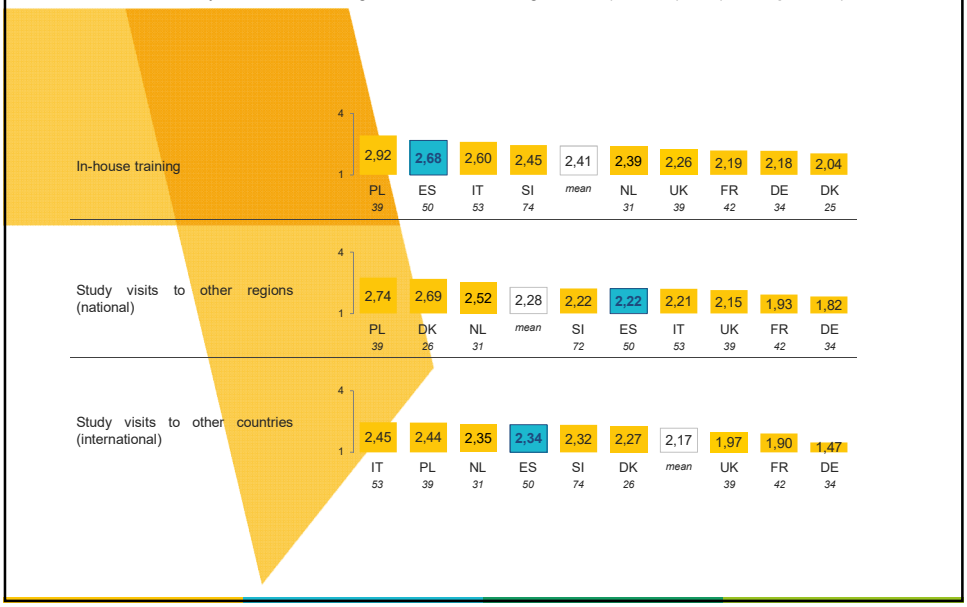
LEARNING - Use of instruments 2

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



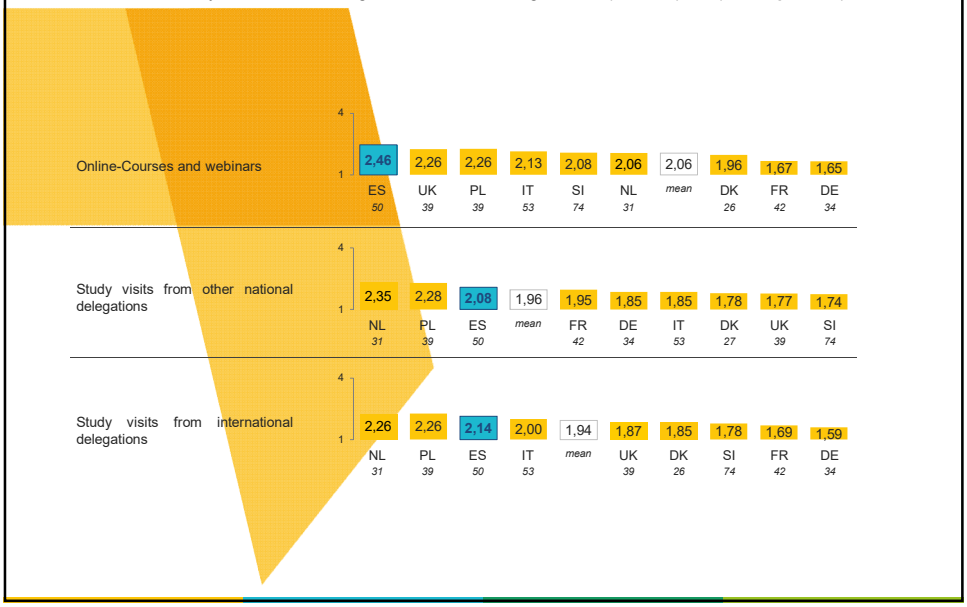
LEARNING - Use of instruments 3

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



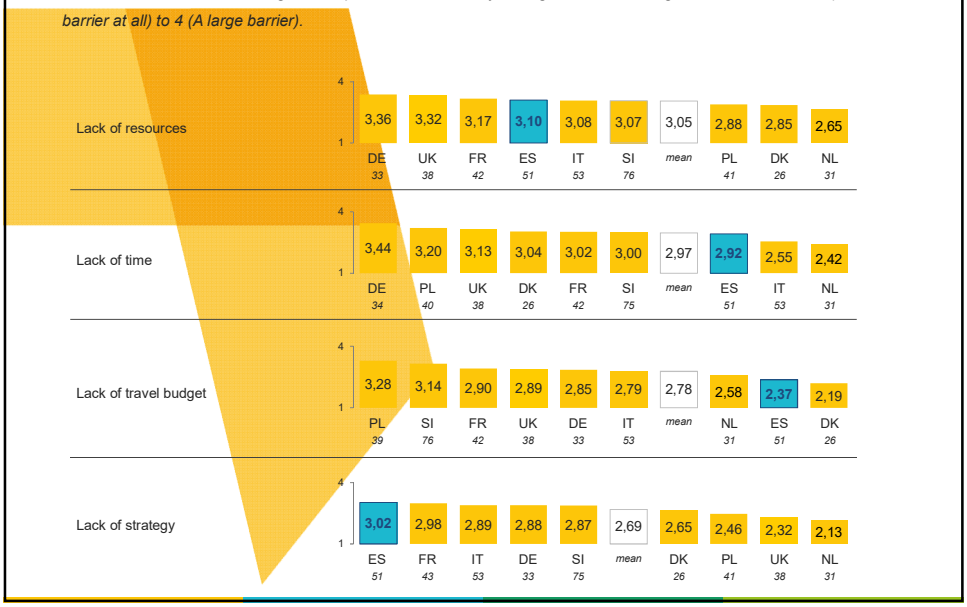
LEARNING - Use of instruments 4

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



LEARNING - Barriers 1

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



LEARNING - Barriers 2

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

LEARNING - Barriers 3

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

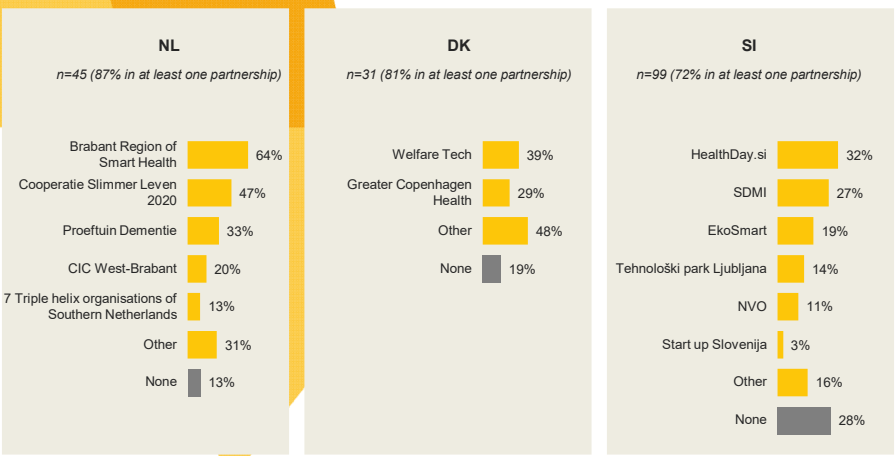
ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Detailed sample characteristics

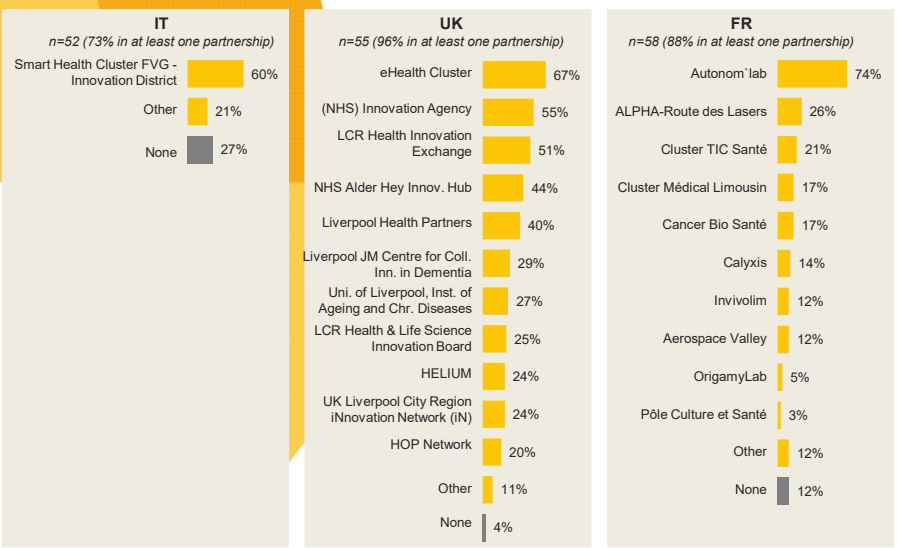
COOPERATION PARTNERSHIPS INVOLVEMENT 1

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



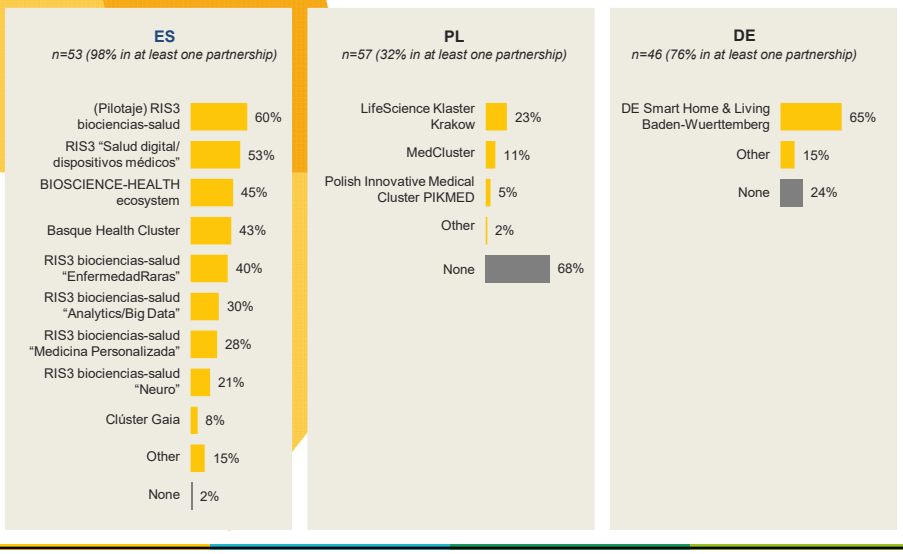
COOPERATION PARTNERSHIPS INVOLVEMENT 2

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



COOPERATION PARTNERSHIPS INVOLVEMENT 3

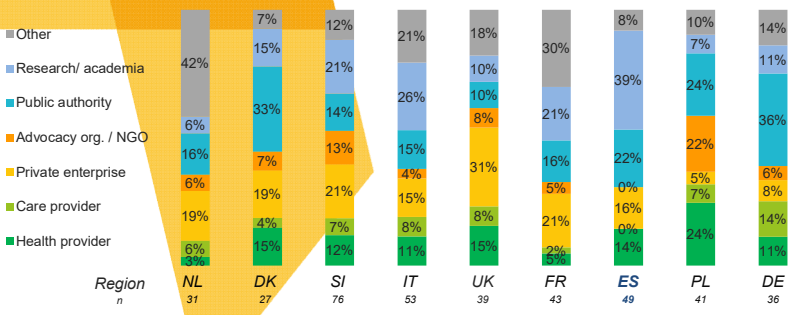
Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



TYPE OF ORGANIZATION

Poland has the highest share of respondents that are health providers (24%) while the Netherlands and France have the lowest. UK has the highest share of respondents that are private enterprises (39%).

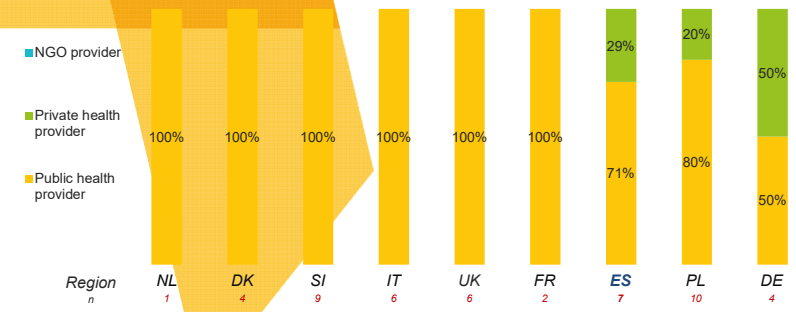
What type is your organization?



TYPE OF HEALTH PROVIDER

Although the samples are very small, the results indicate that in almost all regions a vast majority of health providers are public organizations.

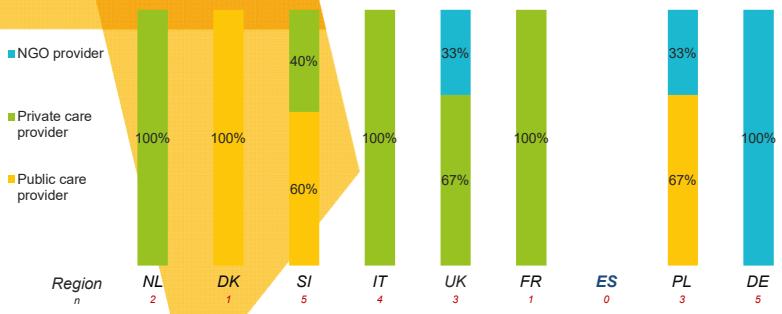
What type of health provider is your organization?



TYPE OF CARE PROVIDER

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

What type of care provider is your organization?



TYPE OF ADVOCACY

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

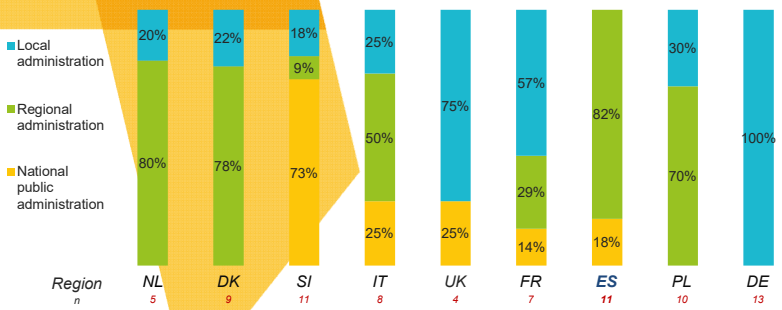
What type of advocacy does your organization provide?

Region	n	H. CARE PROFESSIO-NALS	OLDER PEOPLE	PATIENTS	INFORMAL CAREGIVERS	OTHER
NL	2		50%	50%		100%
DK	2				50%	50%
SI	10		70%		20%	30%
IT	2		50%			50%
UK	3	67%	67%	67%	67%	33%
FR	2	50%			50%	
ES	0					
PL	4		50%		25%	75%
DE	2		50%	50%	50%	50%

LEVEL OF PUBLIC AUTHORITY

Although the samples are very small, the results indicate that Slovenian public organizations mostly have national authority, German public organizations have local authority, while Spanish and Polish mostly have regional authority.

What level of authority is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

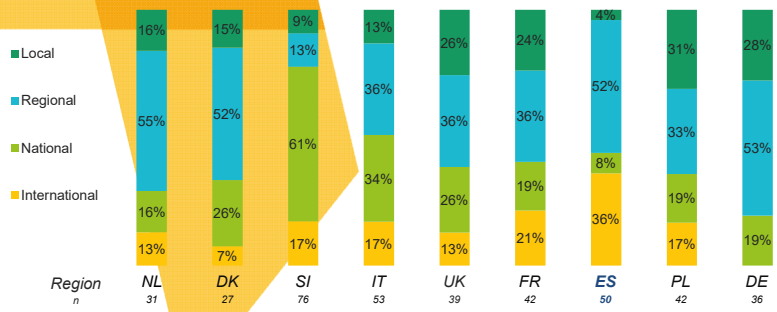
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

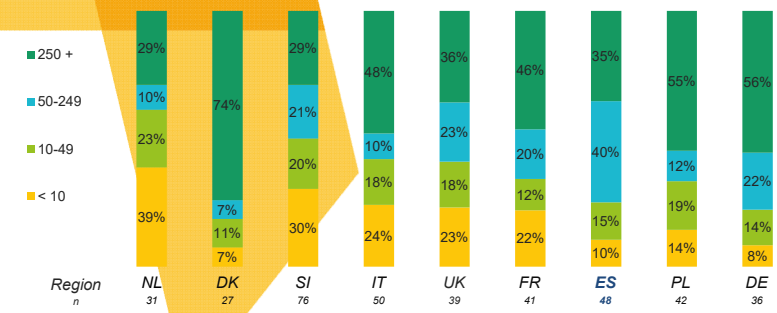
What is the main scope of the organization?



NUMBER OF EMPLOYEES

All regions have a noticeable share of organizations with more than 250 employees, the highest share was recorded in Denmark (74%), while in the Netherlands and Slovenia it is the lowest and stands at 29% in both regions. The Netherlands and Slovenia also have the highest share of organizations with less than 10 employees, 39% and 30% respectively.

How many employees does your organization have?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Appendix

Input for "Regional Policy Framework Index"

Survey Question: *Thinking about the current policy framework in your region, to what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region?*

- The region's policy framework provides a lead for legitimating setting-up and implementing initiatives in the fields of smart health and care solutions.
- The region's policy framework influences funding decisions to support initiatives in the field of smart health and care solutions.
- The region's policy framework provides policy guidelines and a legal framework that helps the private and public sectors work together to implement smart health and care services.
- The region's policy framework supports integration of smart health and care services into the publicly-funded health and care system.
- The region's policy framework provides support for developing a clear implementation plan for successful deployment of smart health and care solutions.
- Regional policy makers stimulate innovation cooperation partnership approach to an inclusive engagement strategy that encourages commitment and creates a close cooperation between public authorities, education and research institutions, business, and citizens/patients.
- The region's policy framework explicitly supports transnational knowledge and experience exchange in the field of smart health and care.

Input for “Innovation Support Service Index”

Survey Question: *In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region?*

- Establish infrastructure which enables development of innovation and knowledge transfer, for example living labs, demonstrators, test sites, show rooms, easily accessible research environments, clinical trials, open source facilities.
- Established knowledge networks, collaboration platforms to support continuous improvement.
- Established public-private partnerships.
- Support for bringing products and services to the market and growing market share.
- Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.
- Procedural and administrative simplifications.
- Programs for innovation cooperation partnerships.
- Support for the valorisation of research outcomes.
- Support on legal aspects including intellectual property rights, procurement, regulation.

Input for “Development & Use of innovative products & Services Index”

Survey Question: *How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region?*

- Development of new ideas related to smart health and care solutions in your region?
- Development of innovative products and services for smart health and care in your region?
- Use of innovative smart health and care products and services in practice on a daily basis in your region.

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

The end ☺

Questions welcome

Project smedia

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Report 8: Małopolska (Poland)

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Sample & Respondents

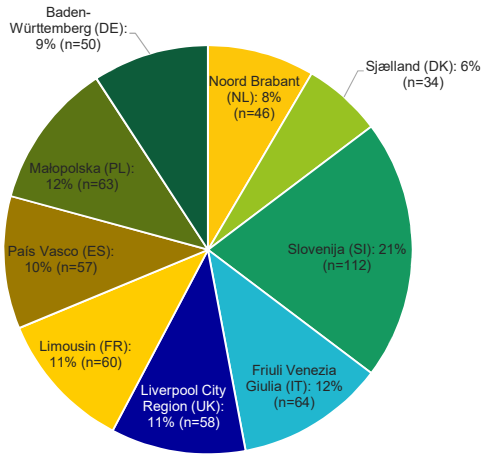
Input for „Intro to the theme“

ITHACA SURVEY BASICS

In total, 544 of stakeholders across nine European regions have responded to the ITHACA SA Survey. The highest absolute numbers of responses were collected in Slovenia, Italy and Poland, and the lowest in Denmark and the Netherlands.

TOTAL RESPONSES
544

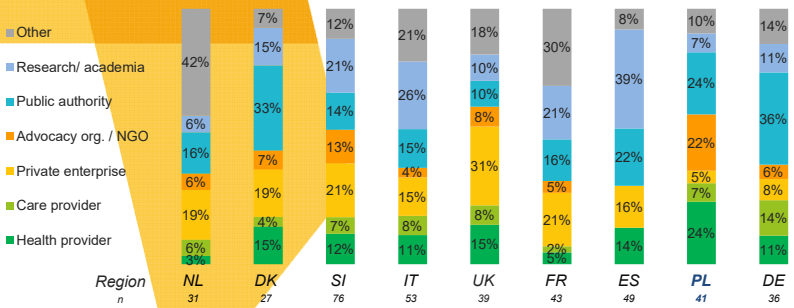
Note: Additionally, 4 responses from non listed regions were collected. But are excluded from further analysis.



TYPE OF ORGANIZATION

Poland has the highest share of respondents from health providing organizations (24%), while the Netherlands and France have the lowest. The share of respondents from private enterprises is the highest in the UK (39%).

What type is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

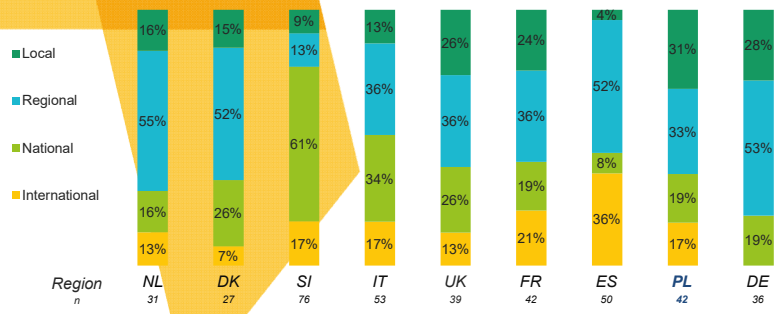
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

What is the main scope of the organization?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

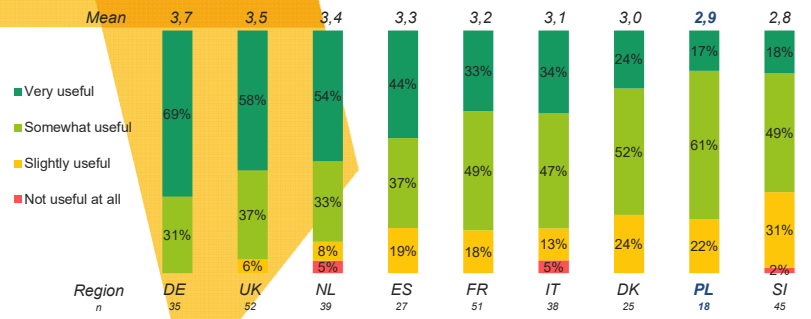
Results Summary

Input for „Intro to the theme“

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

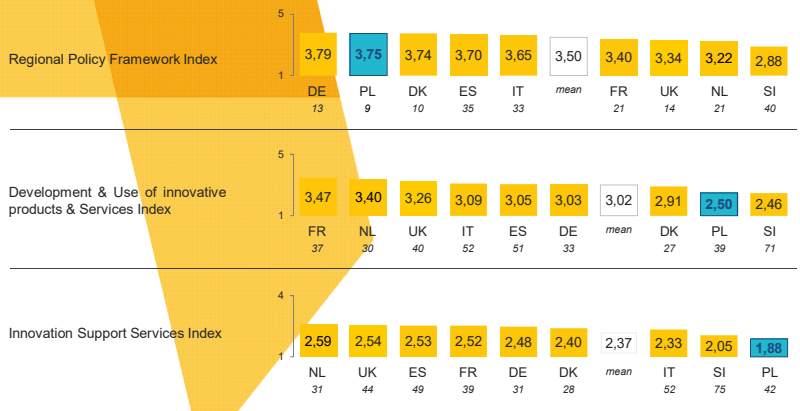
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION & POLICY INDICES

Composite indices are presented below. The highest average score on innovation support services was recorded in **the Netherlands** and the lowest in **Poland**. According to respondents the development and use of innovative products and services is the highest in France and the Netherlands, and the lowest in Slovenia and Poland. Regional policy framework on the other hand, is rated highly in **Germany**, **Poland** and **Denmark**, whereas in **Slovenia** it is distinctively lower.



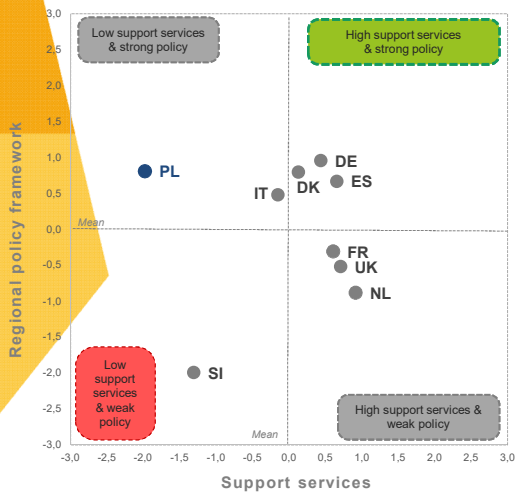
Note: Composite Regional indices are calculated as an average of participants' average score on all items within the same theme. Items for Innovation Support Service Index: Q13a to Q13i. Items for Development & Use of innovative products & Services Index: Q15a, Q15b and Q15c. Items for Regional Policy Framework Index: Q19a to Q19g.

REGION POSITIONING

In comparison of regions by innovation support services index and regional policy framework index, **Spain** and **Germany** are positioned as regions with high support services and strong policy, while **Slovenia** is positioned as a region with low support services and the weakest regional policy. Poland, on the other hand, is positioned as a region with strong policy but low support services, while in the Netherlands the situation is reversed.

Note: Regional Support services Indices on X axis and Regional policy framework indices on Y axis.

Values on both dimensions (Support services and Policy framework) have been standardized to neutralize the effect of different measurement scales.



ITHACA
Interreg Europe

European Union
European Regional Development Fund

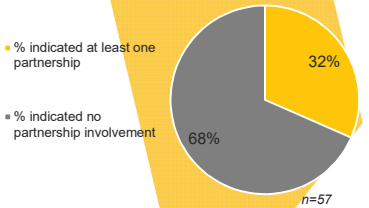
PL Highlights

Input for „World cafe“

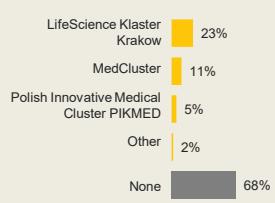
ECOSYSTEM – Cooperation partnership involvement

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?

Involvement in at least one cooperation partnership:



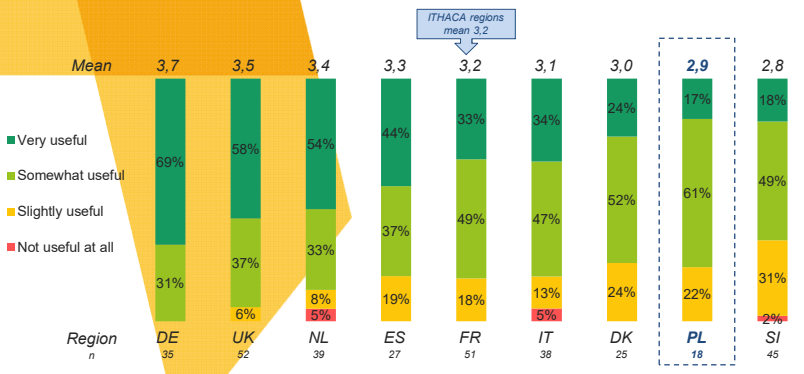
PL (*n=57*)



ECOSYSTEM - Usefulness of involvement

On a scale from 1 (Not useful at all) to 4 (Very useful), PL region has average value below ITHACA average, with only 17% of respondents finding the involvement very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



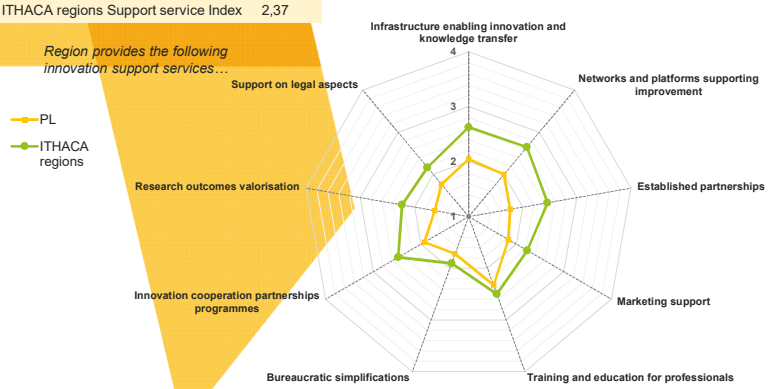
Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION - Support services

PL Support Services Index is noticeably lower than the average index value of ITHACA regions. The rated extent of services (individual items) are all below the corresponding averages of all ITHACA regions, although the average values for *Training and education for professionals* and *Bureaucratic simplifications* are somewhat closer to ITHACA averages.

Within the region, *Training and education for professionals* (2,33) has on average the highest rated extent of all Support services items, followed by *Infrastructure enabling innovation and knowledge transfer* (2,05) and *Networks and platforms supporting improvement* (2,00). On the other hand, *Bureaucratic simplifications* (1,72) and *Research outcomes valorization* (1,63) have the lowest ratings.

PL Support Services Index	**1,88**
ITHACA regions Support service Index	2,37



Note: Regional index is based on respondents who answered all items within theme (Q13a to Q13i). Global index is a simple average over ITHACA regions, where units are regions.

INNOVATION - Development & use of innovative products & services

PL Development & Use of innovative Products & Services Index is lower than the average index value of ITHACA regions. The rated intensities for all individual items are below the corresponding averages of all ITHACA regions.

Within the region, *New ideas* (2,58) and *Innovative products and services* (2,56) are rated as the most intensively occurring development in the field. While *Daily usage of innovative products and services* (2,40) is rated as the least intensively occurring.

PL Development & Use of innovative products & Services Index	**2,50**
ITHACA regions Development & Use of innovative products & Services Index	3,02

Note: Regional index is based on respondents who answered all items within theme (Q15a to Q15c). Global index is a simple average over ITHACA regions, where units are regions.

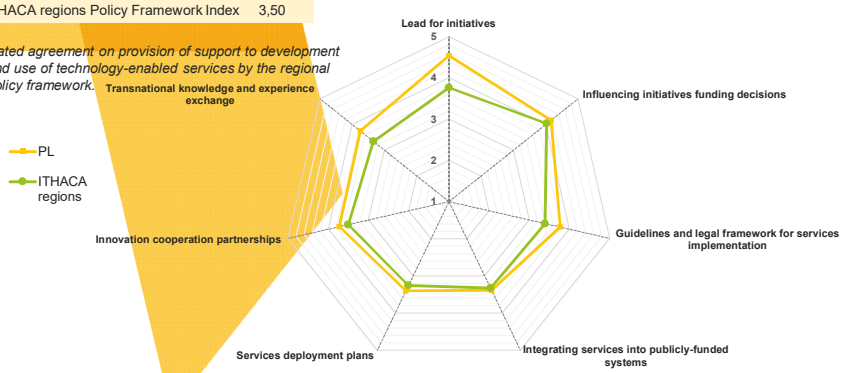
POLICY – Regional Policy Framework

PL Regional Policy Index is higher than the average index value of ITHACA regions. This is also true for all individual items, where *Lead for initiatives* is noticeably higher than the corresponding average for all ITHACA regions, whereas some items (*Integrating services into publicly-funded systems, Influencing initiatives funding decisions* and *Services deployment plans)* are just slightly above the ITHACA average.

Within the region, *Lead for initiatives* (4,54) has the highest average value among the regional policy framework facets, followed by *Influencing initiatives funding decisions* (4,17). The lowest average values were recorded for *Services deployment plans* (3,40) and *Integrating services into publicly-funded systems* (3,38).

PL Policy Framework Index	**3,75**
ITHACA regions Policy Framework Index	3,50

Rated agreement on provision of support to development and use of technology-enabled services by the regional policy framework.

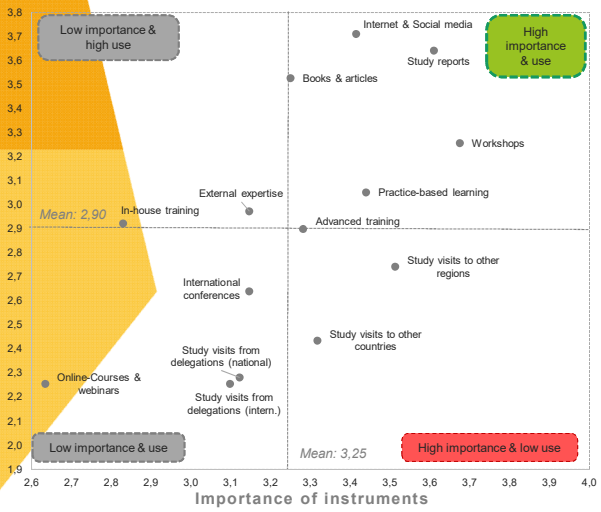


Note: Regional index is based on respondents who answered all items within theme (Q19a to Q19g). Global index is a simple average over ITHACA regions, where units are regions.

LEARNING – Relative importance & use of instruments

In PL region, the most important and most used instruments in practice from a relative point of view are: **Workshops, Study reports, Practice-based learning** and **Internet and social media**. On the other side, **Study visits to other regions** and **Study visits to other countries** have a high relative discrepancy between the importance and use.

***Sample sizes** for presented instruments and their use/importance vary from 38 to 41.*



Note: Measurement scale for importance and use goes from 1 to 4.

ITHACA
Interreg Europe

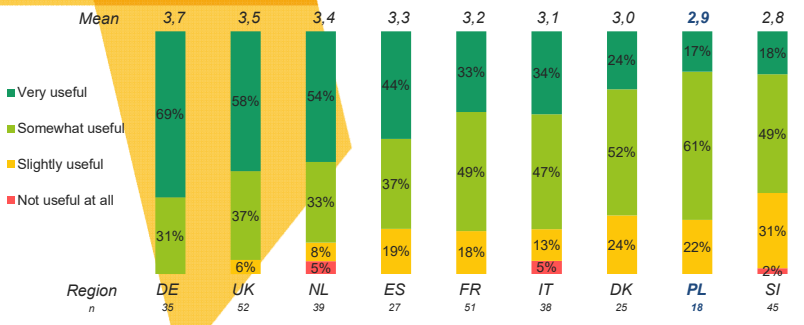
European Union
European Regional
Development Fund

Detailed overview of the results

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

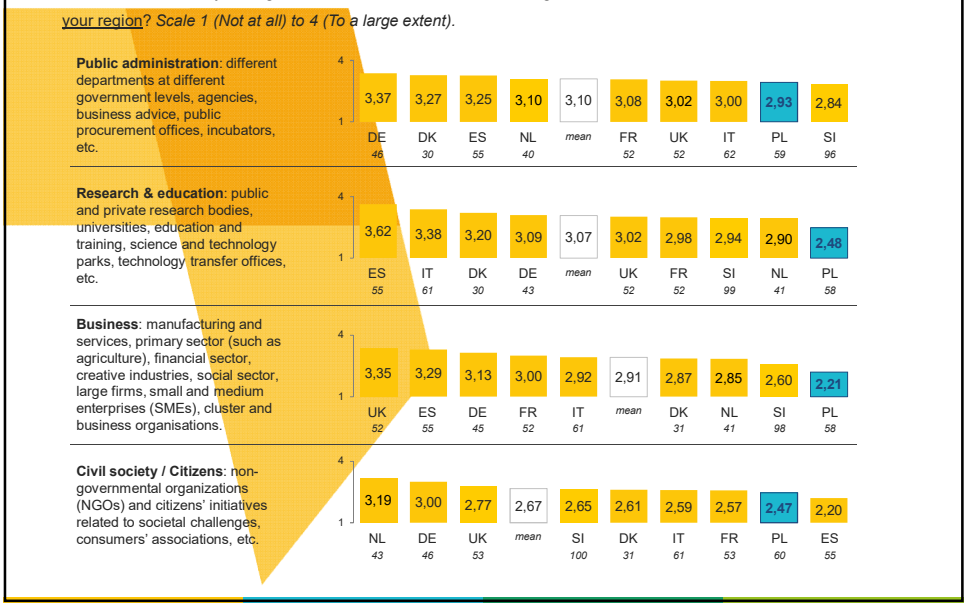
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

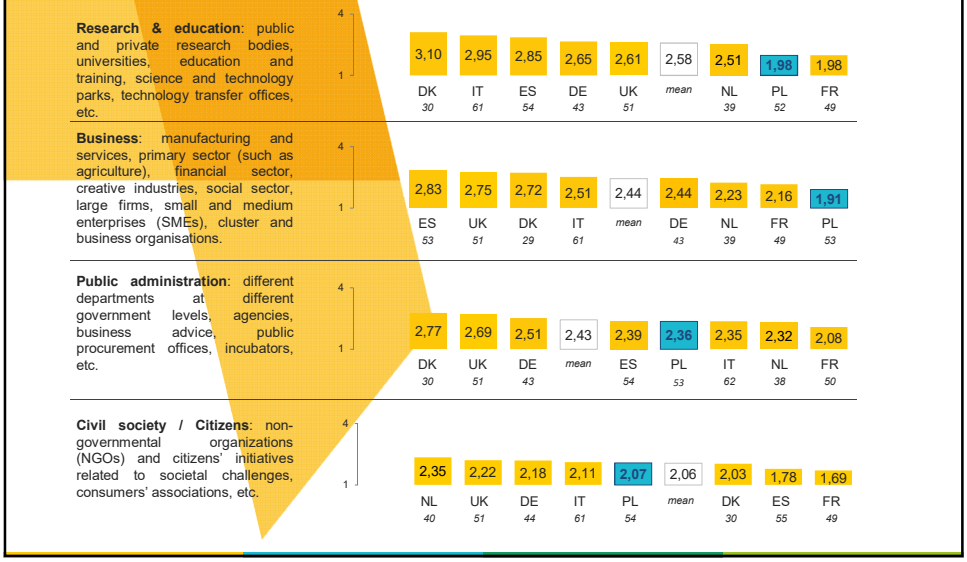
ECOSYSTEM – Regional collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within your region? *Scale 1 (Not at all) to 4 (To a large extent).*



ECOSYSTEM – National collaboration

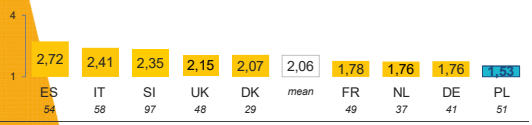
To what extent does your organization collaborate with the following actors in the fields of health and care within other regions in your country? *Scale 1 (Not at all) to 4 (To a large extent).*



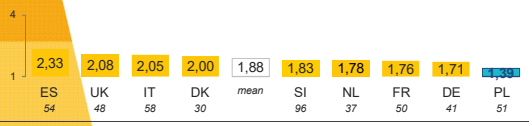
ECOSYSTEM – European collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other EU countries? *Scale 1 (Not at all) to 4 (To a large extent).*

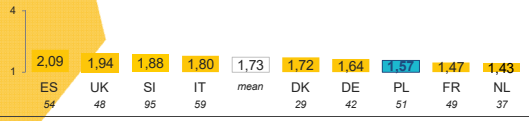
Research & education: public and private research bodies, universities, education and training, science and technology parks, technology transfer offices, etc.



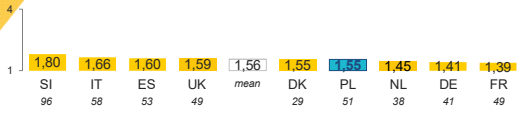
Business: manufacturing and services, primary sector (such as agriculture), financial sector, creative industries, social sector, large firms, small and medium enterprises (SMEs), cluster and business organisations.



Public administration: different departments at different government levels, agencies, business advice, public procurement offices, incubators, etc.



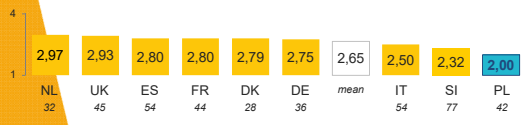
Civil society / Citizens: non-governmental organizations (NGOs) and citizens' initiatives related to societal challenges, consumers' associations, etc.



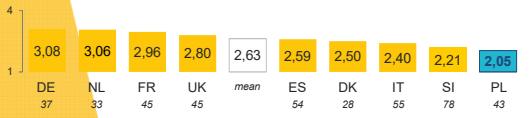
INNOVATION - Support services 1

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

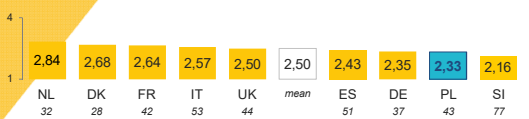
Established knowledge networks, collaboration platforms to support continuous improvement.



Established infrastructure which enables development of innovation and knowledge transfer..



Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.



INNOVATION - Support services 2

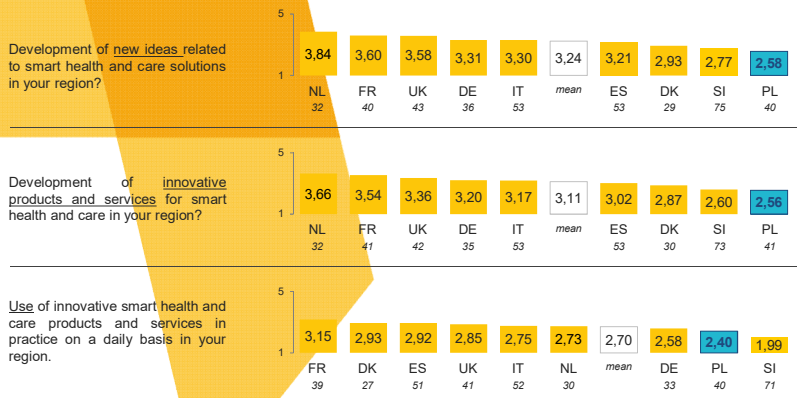
In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

INNOVATION - Support services 3

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

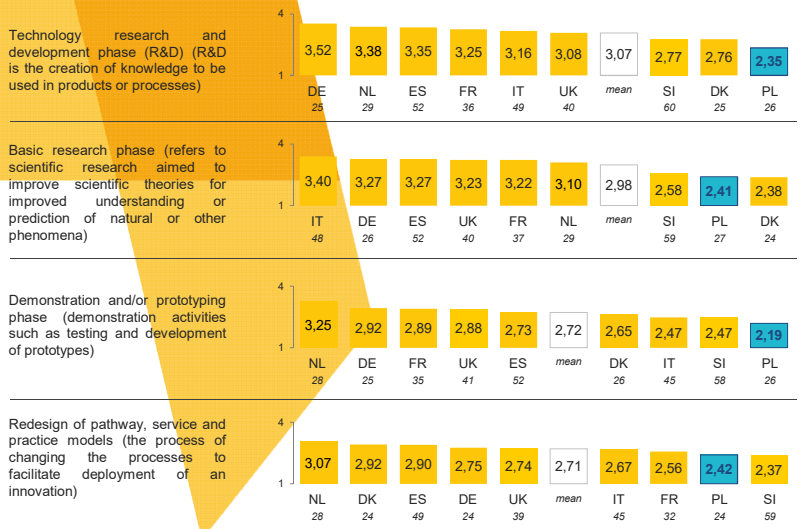
INNOVATION – Development and use of innovative products and services

How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region? *Scale 1 (Very low intensity) to 5 (Very high intensity).*



INNOVATION - Phases 1

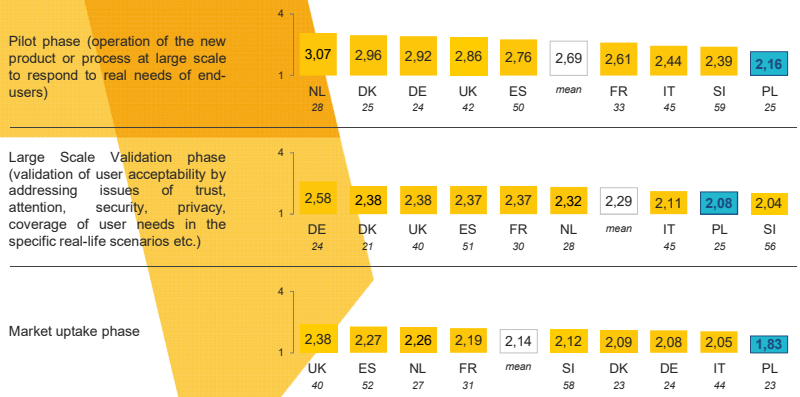
In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*



Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

INNOVATION - Phases 2

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*

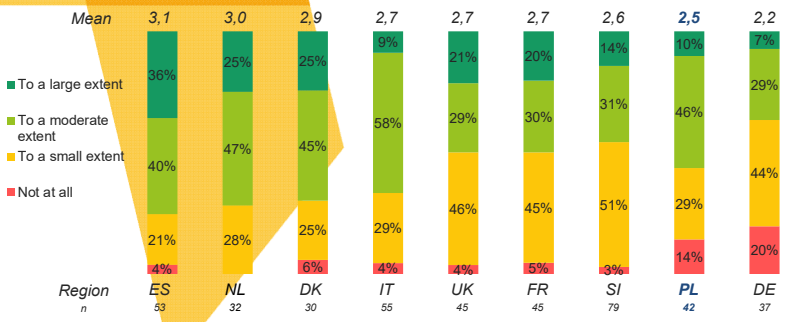


Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

POLICY - Information

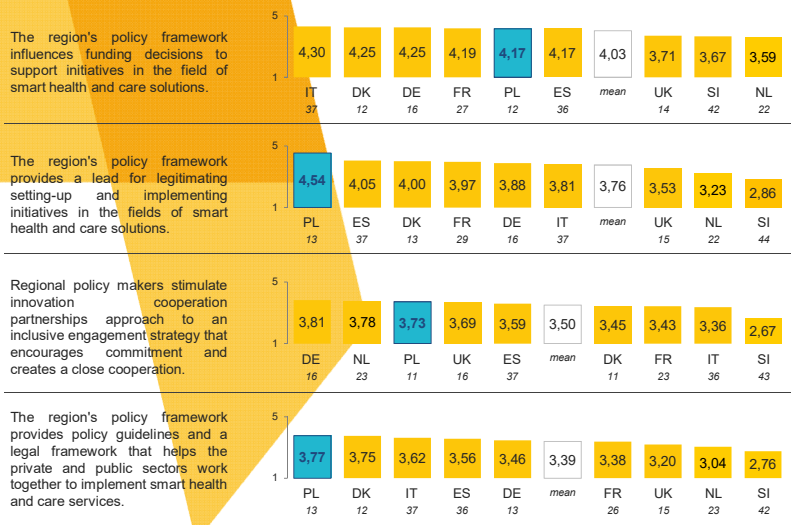
The share of respondents that are to a large or moderate extent informed about regional policy, strategies and programs is highest in **Spain**, **the Netherlands** and **Denmark**, and the lowest in Slovenia and Germany. The share of respondents who claim that are not informed at all is the highest in **Poland** and **Germany**.

To what extent are you informed about the regional policy, strategies, and programs in the field of smart health and care?



POLICY - Framework 1

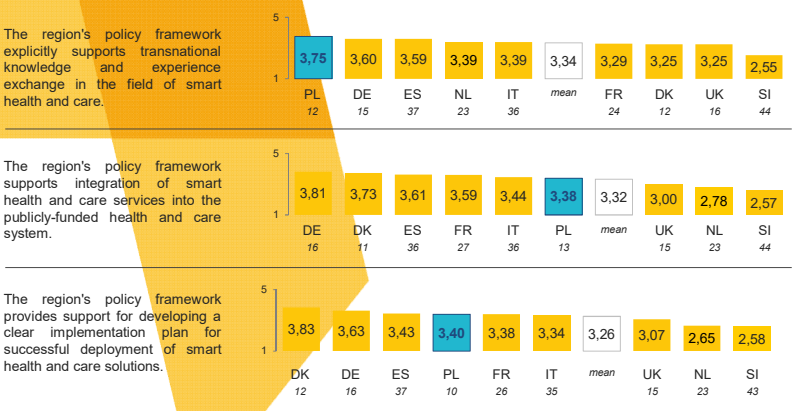
To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

POLICY - Framework 2

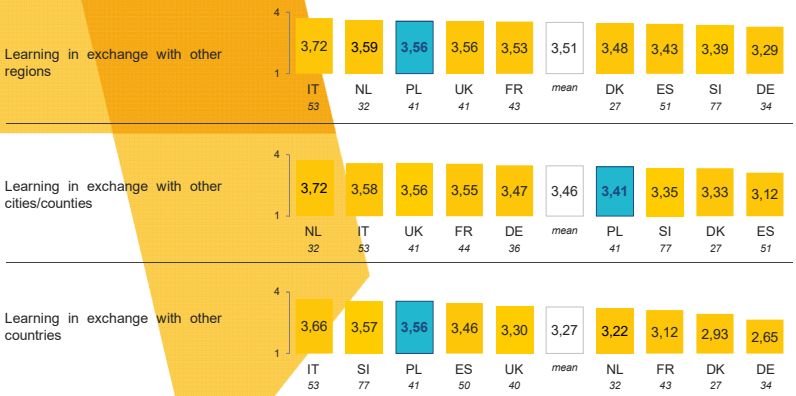
To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

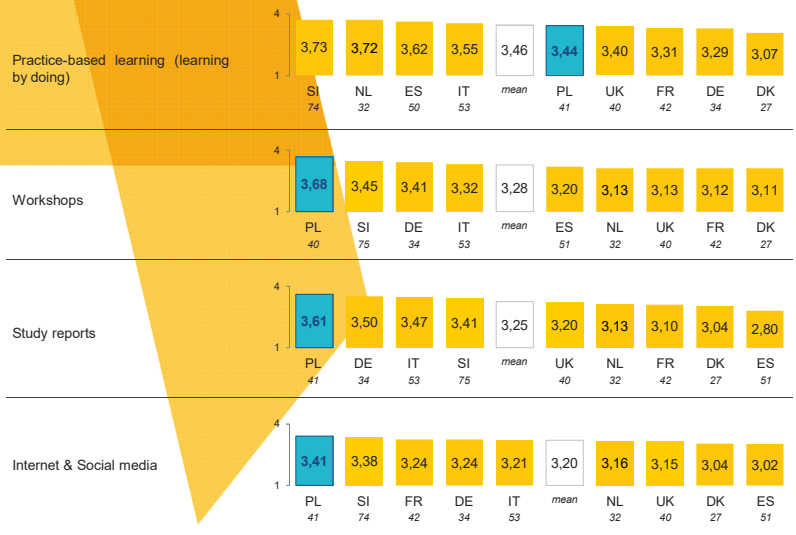
LEARNING - Importance to learn in exchange

How important is it for your work to learn in exchange with experts and other stakeholders within your own region/country or from other cities/counties, regions and countries? *Scale 1 (Not important at all) to 4 (Very important)*.



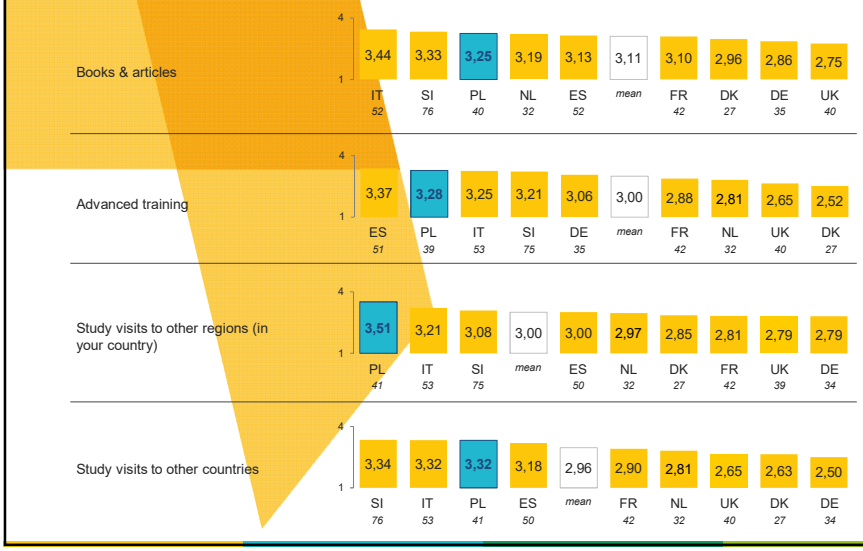
LEARNING - Importance of channels / instruments / approaches 1

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important)*.



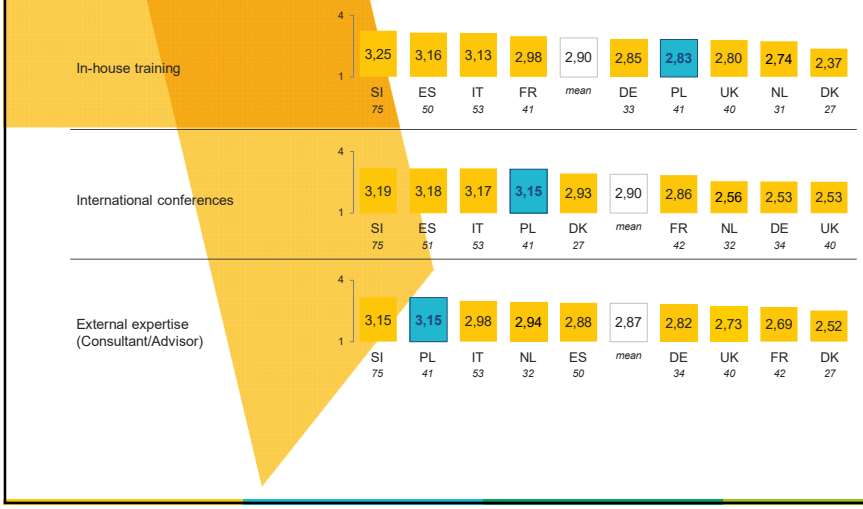
LEARNING - Importance of channels / instruments / approaches 2

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



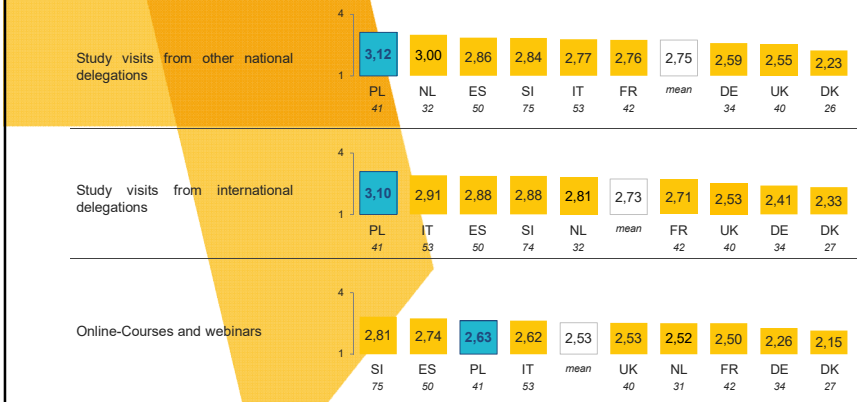
LEARNING - Importance of channels / instruments / approaches 3

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



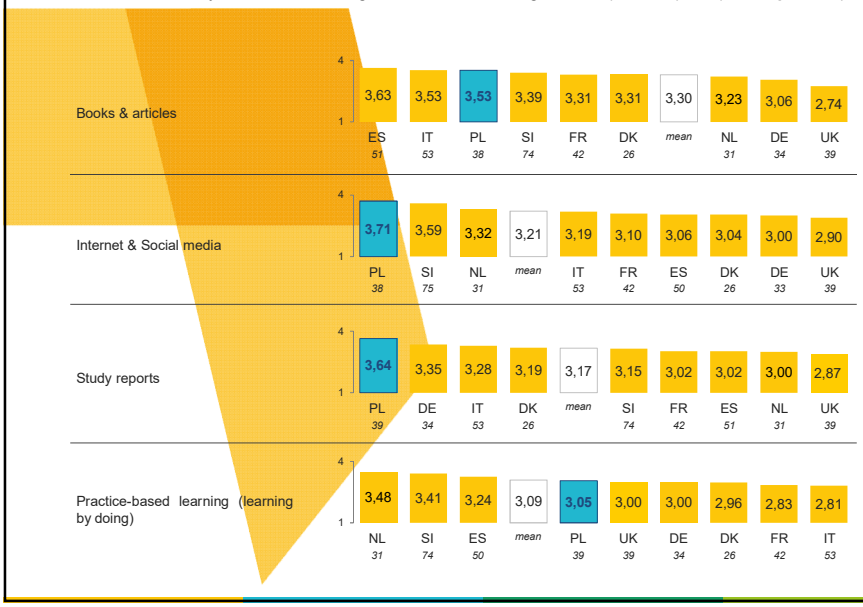
LEARNING - Importance of channels / instruments / approaches 4

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



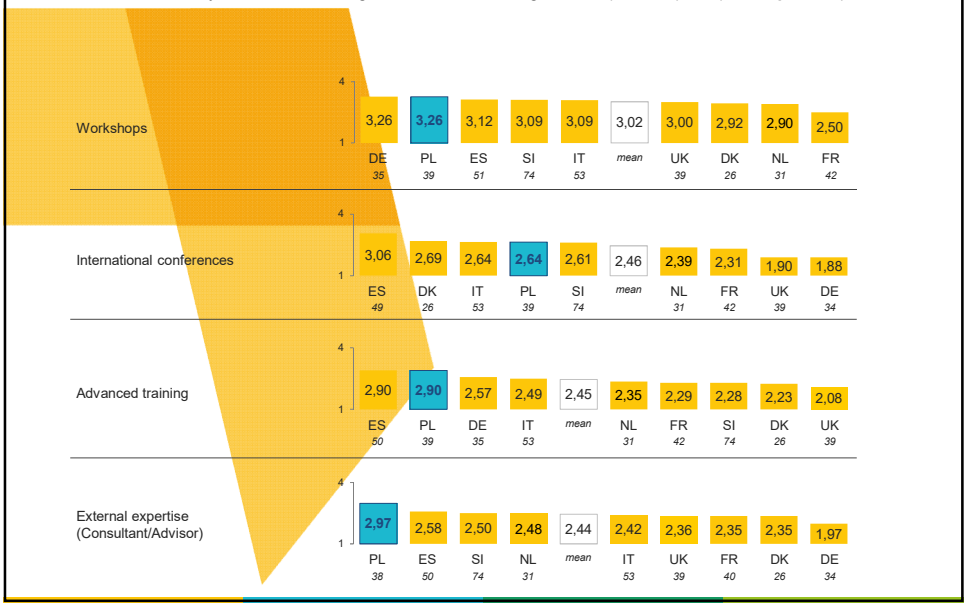
LEARNING - Use of instruments 1

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



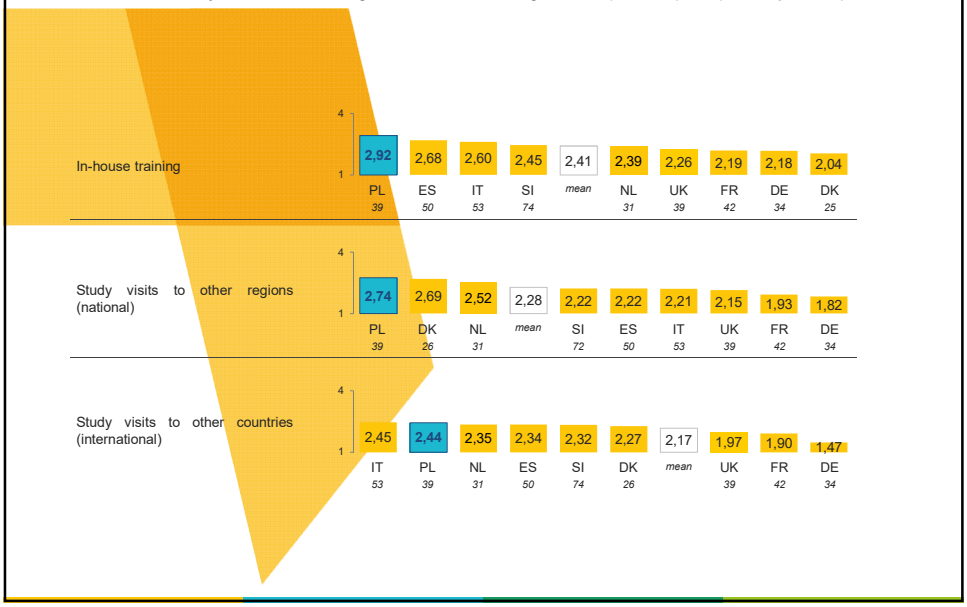
LEARNING - Use of instruments 2

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



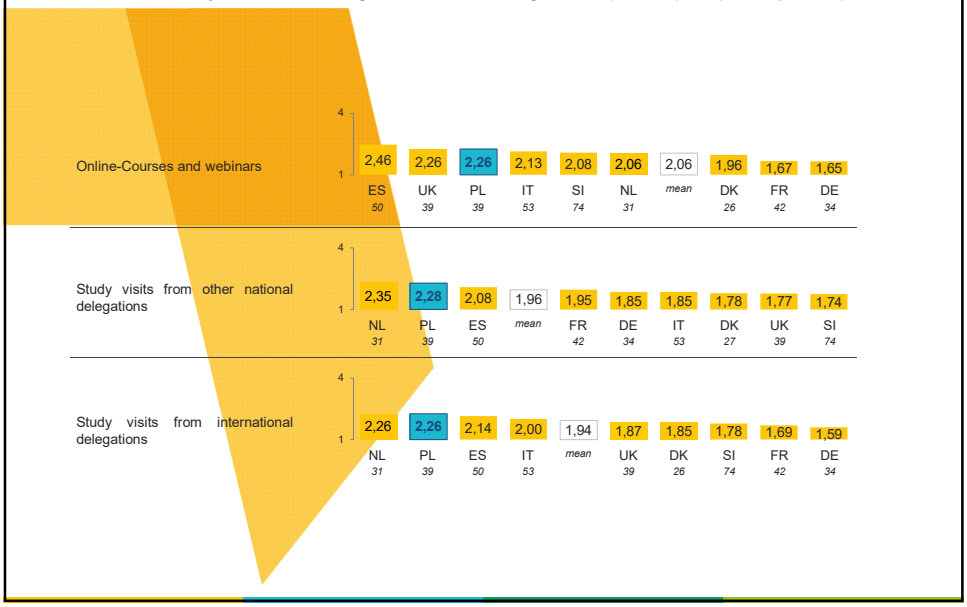
LEARNING - Use of instruments 3

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



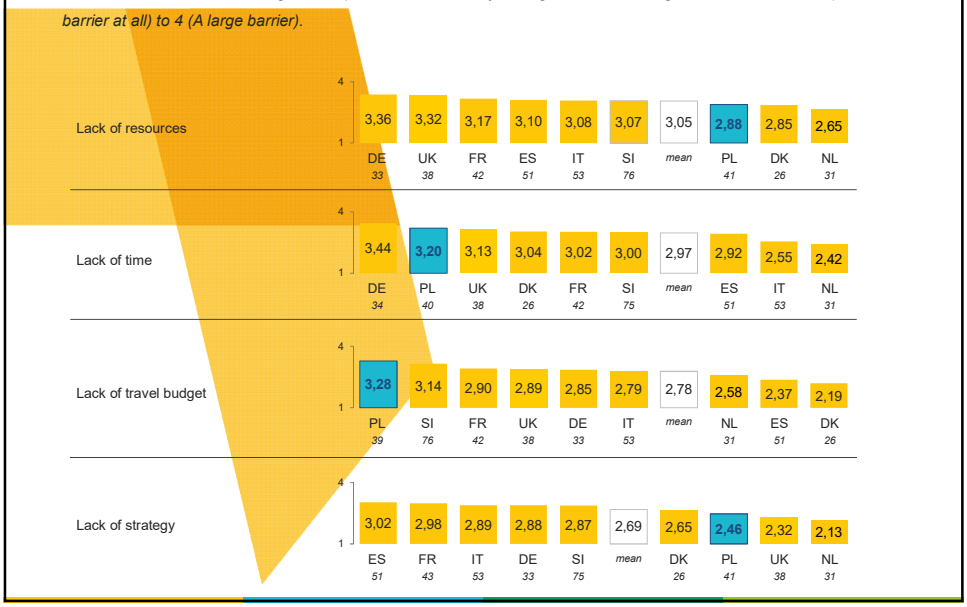
LEARNING - Use of instruments 4

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



LEARNING - Barriers 1

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



LEARNING - Barriers 2

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

LEARNING - Barriers 3

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

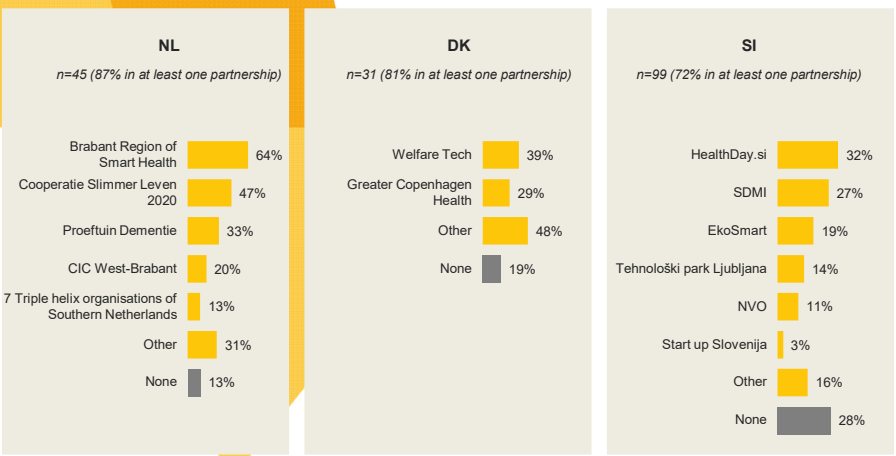
ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Detailed sample characteristics

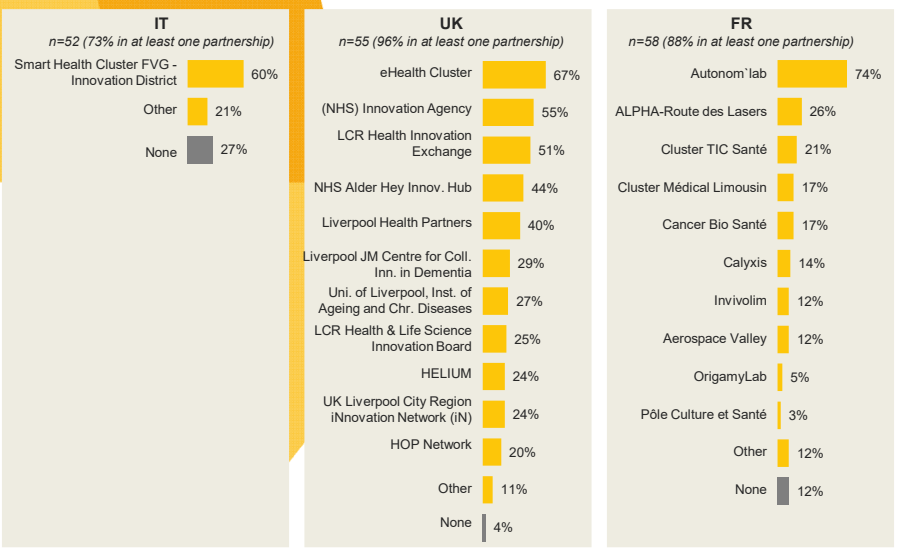
COOPERATION PARTNERSHIPS INVOLVEMENT 1

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



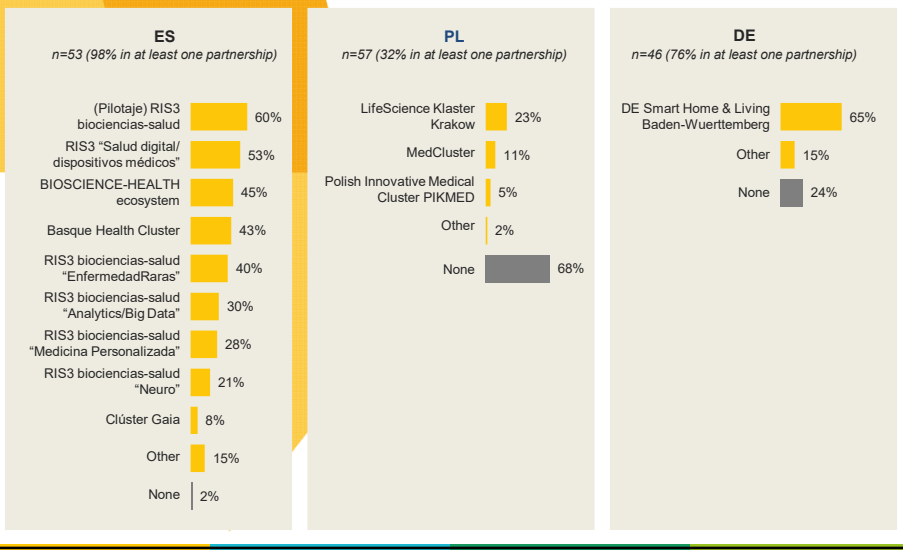
COOPERATION PARTNERSHIPS INVOLVEMENT 2

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



COOPERATION PARTNERSHIPS INVOLVEMENT 3

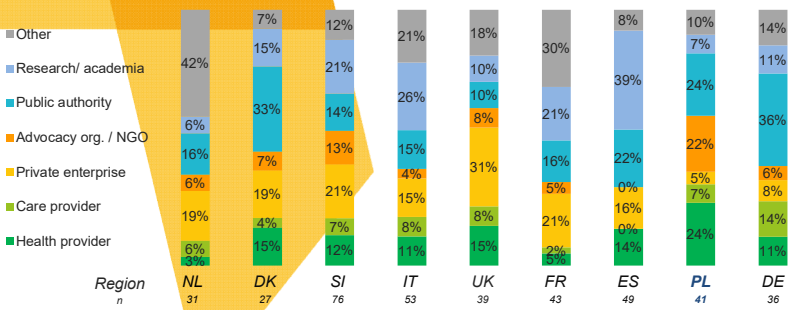
Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



TYPE OF ORGANIZATION

Poland has the highest share of respondents that are health providers (24%) while the Netherlands and France have the lowest. UK has the highest share of respondents that are private enterprises (39%).

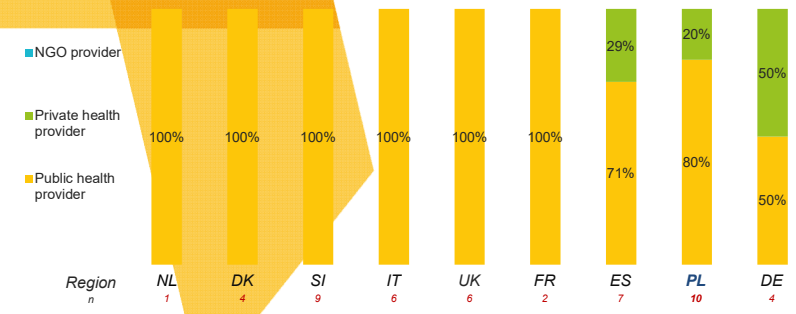
What type is your organization?



TYPE OF HEALTH PROVIDER

Although the samples are very small, the results indicate that in almost all regions a vast majority of health providers are public organizations.

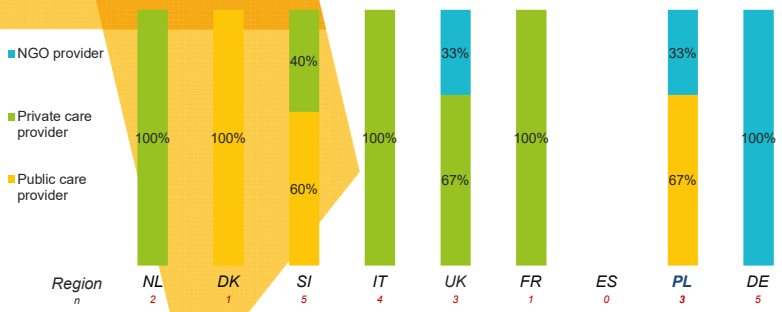
What type of health provider is your organization?



TYPE OF CARE PROVIDER

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

What type of care provider is your organization?



TYPE OF ADVOCACY

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

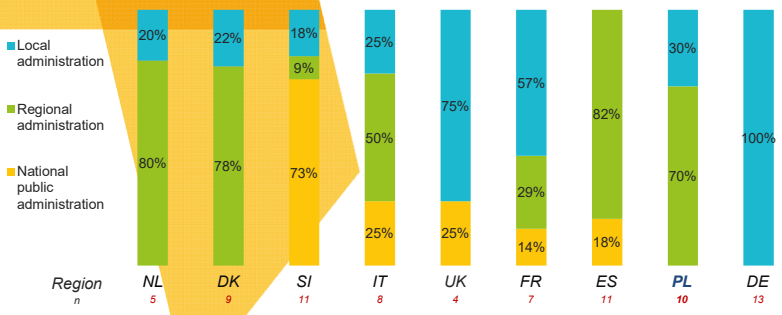
What type of advocacy does your organization provide?

Region	n	H. CARE PROFESSIO-NALS	OLDER PEOPLE	PATIENTS	INFORMAL CAREGIVERS	OTHER
NL	2		50%	50%		100%
DK	2				50%	50%
SI	10		70%		20%	30%
IT	2		50%			50%
UK	3	67%	67%	67%	67%	33%
FR	2	50%			50%	
ES	0					
PL	4		50%		25%	75%
DE	2		50%	50%	50%	50%

LEVEL OF PUBLIC AUTHORITY

Although the samples are very small, the results indicate that Slovenian public organizations mostly have national authority, German public organizations have local authority, while Spanish and Polish mostly have regional authority.

What level of authority is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

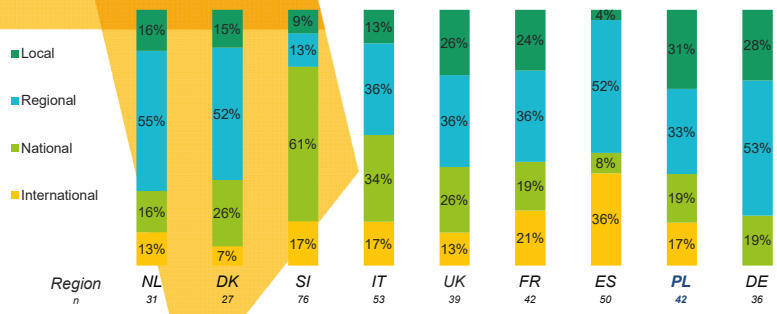
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

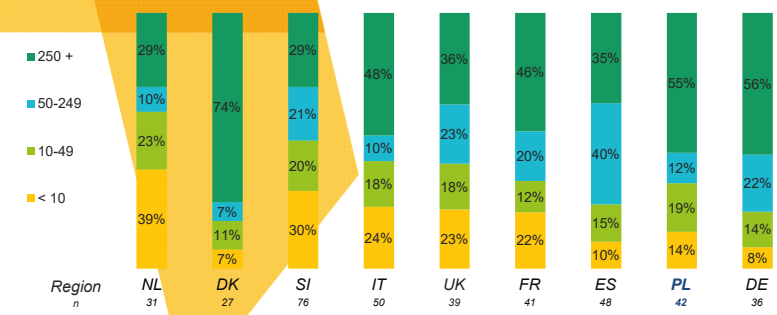
What is the main scope of the organization?



NUMBER OF EMPLOYEES

All regions have a noticeable share of organizations with more than 250 employees, the highest share was recorded in Denmark (74%), while in the Netherlands and Slovenia it is the lowest and stands at 29% in both regions. The Netherlands and Slovenia also have the highest share of organizations with less than 10 employees, 39% and 30% respectively.

How many employees does your organization have?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Appendix

Input for "Regional Policy Framework Index"

Survey Question: *Thinking about the current policy framework in your region, to what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region?*

- The region's policy framework provides a lead for legitimating setting-up and implementing initiatives in the fields of smart health and care solutions.
- The region's policy framework influences funding decisions to support initiatives in the field of smart health and care solutions.
- The region's policy framework provides policy guidelines and a legal framework that helps the private and public sectors work together to implement smart health and care services.
- The region's policy framework supports integration of smart health and care services into the publicly-funded health and care system.
- The region's policy framework provides support for developing a clear implementation plan for successful deployment of smart health and care solutions.
- Regional policy makers stimulate innovation cooperation partnership approach to an inclusive engagement strategy that encourages commitment and creates a close cooperation between public authorities, education and research institutions, business, and citizens/patients.
- The region's policy framework explicitly supports transnational knowledge and experience exchange in the field of smart health and care.

Input for “Innovation Support Service Index”

Survey Question: *In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region?*

- Establish infrastructure which enables development of innovation and knowledge transfer, for example living labs, demonstrators, test sites, show rooms, easily accessible research environments, clinical trials, open source facilities.
- Established knowledge networks, collaboration platforms to support continuous improvement.
- Established public-private partnerships.
- Support for bringing products and services to the market and growing market share.
- Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.
- Procedural and administrative simplifications.
- Programs for innovation cooperation partnerships.
- Support for the valorisation of research outcomes.
- Support on legal aspects including intellectual property rights, procurement, regulation.

Input for “Development & Use of innovative products & Services Index”

Survey Question: *How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region?*

- Development of new ideas related to smart health and care solutions in your region?
- Development of innovative products and services for smart health and care in your region?
- Use of innovative smart health and care products and services in practice on a daily basis in your region.

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

The end ☺

Questions welcome

Project smedia

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Report 9: Baden-Württemberg (Germany)

ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Sample & Respondents

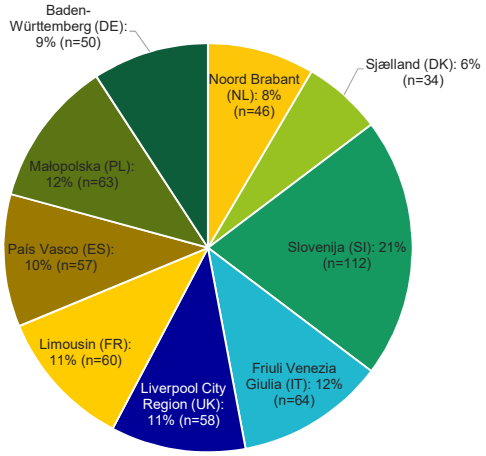
Input for „Intro to the theme“

ITHACA SURVEY BASICS

In total, 544 of stakeholders across nine European regions have responded to the ITHACA SA Survey. The highest absolute numbers of responses were collected in Slovenia, Italy and Poland, and the lowest in Denmark and the Netherlands.

TOTAL RESPONSES
544

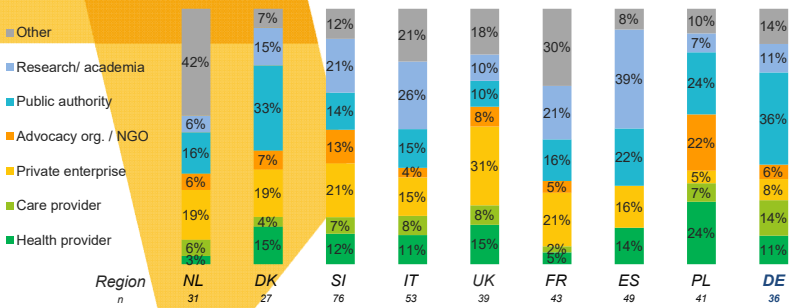
Note: Additionally, 4 responses from non listed regions were collected. But are excluded from further analysis.



TYPE OF ORGANIZATION

Poland has the highest share of respondents from health providing organizations (24%), while the Netherlands and France have the lowest. The share of respondents from private enterprises is the highest in the UK (39%).

What type is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

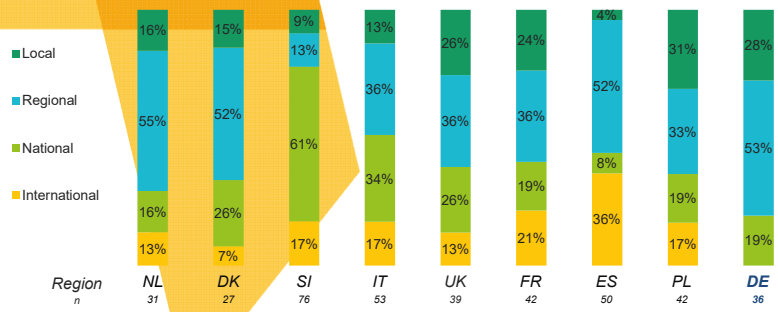
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

What is the main scope of the organization?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

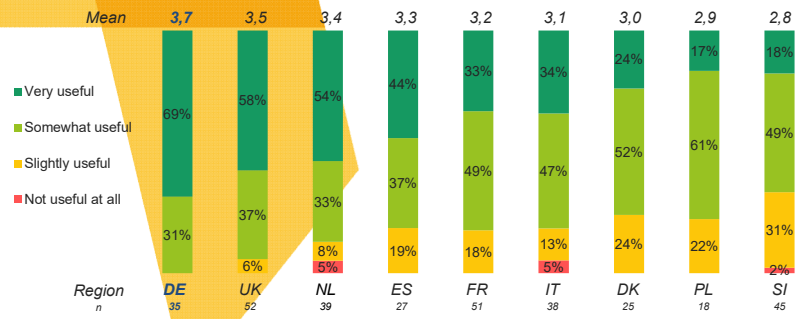
Results Summary

Input for „Intro to the theme“

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

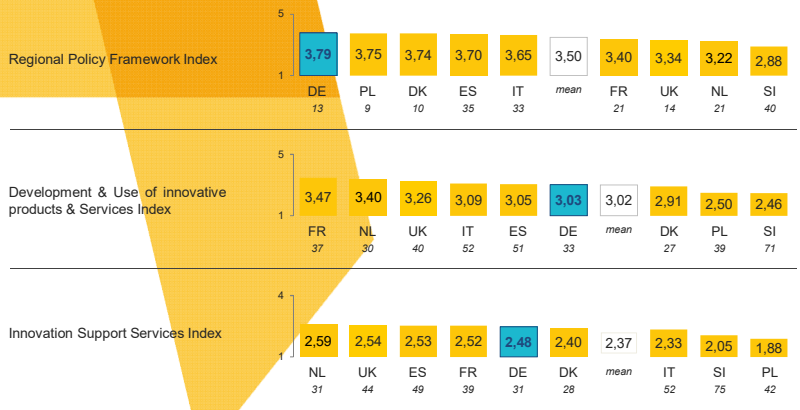
In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION & POLICY INDICES

Composite indices are presented below. The highest average score on innovation support services was recorded in **the Netherlands** and the lowest in **Poland**. According to respondents the development and use of innovative products and services is the highest in France and the Netherlands, and the lowest in Slovenia and Poland. Regional policy framework on the other hand, is rated highly in **Germany**, **Poland** and **Denmark**, whereas in **Slovenia** it is distinctively lower.



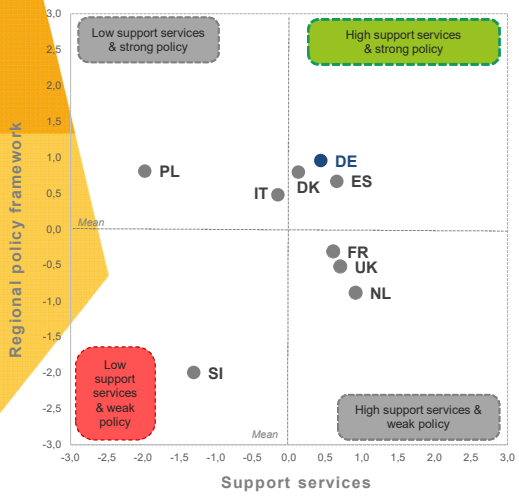
Note: Composite Regional indices are calculated as an average of participants' average score on all items within the same theme. Items for Innovation Support Service Index: Q13a to Q13i. Items for Development & Use of innovative products & Services Index: Q15a, Q15b and Q15c. Items for Regional Policy Framework Index: Q19a to Q19g.

REGION POSITIONING

In comparison of regions by innovation support services index and regional policy framework index, **Spain** and **Germany** are positioned as regions with high support services and strong policy, while **Slovenia** is positioned as a region with low support services and the weakest regional policy. Poland, on the other hand, is positioned as a region with strong policy but low support services, while in the Netherlands the situation is reversed.

Note: Regional Support services Indices on X axis and Regional policy framework indices on Y axis.

Values on both dimensions (Support services and Policy framework) have been standardized to neutralize the effect of different measurement scales.



ITHACA
Interreg Europe

European Union
European Regional Development Fund

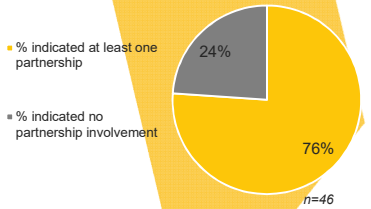
DE Highlights

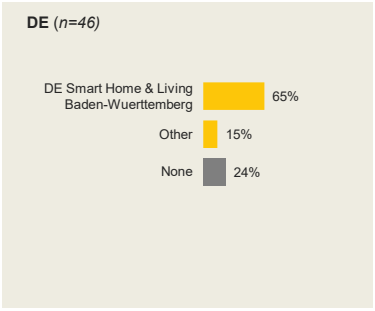
Input for „World cafe“

ECOSYSTEM – Cooperation partnership involvement

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?

Involvement in at least one cooperation partnership:

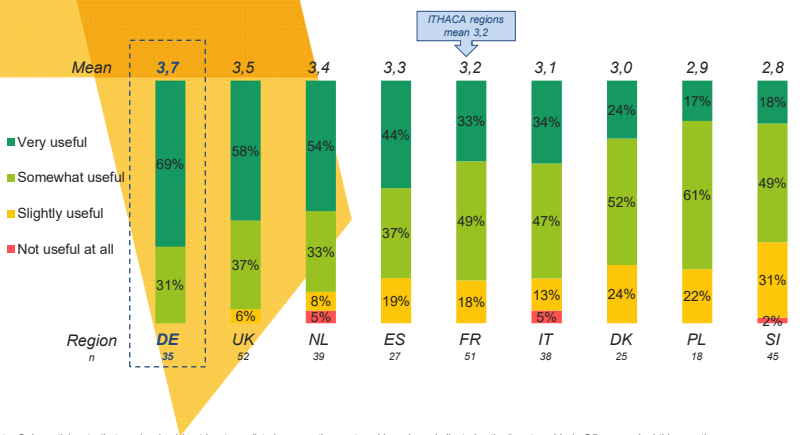




ECOSYSTEM - Usefulness of involvement

On a scale from 1 (Not useful at all) to 4 (Very useful), DE region has the highest average value amongst the ITHACA regions, with 69% of respondents finding the involvement very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



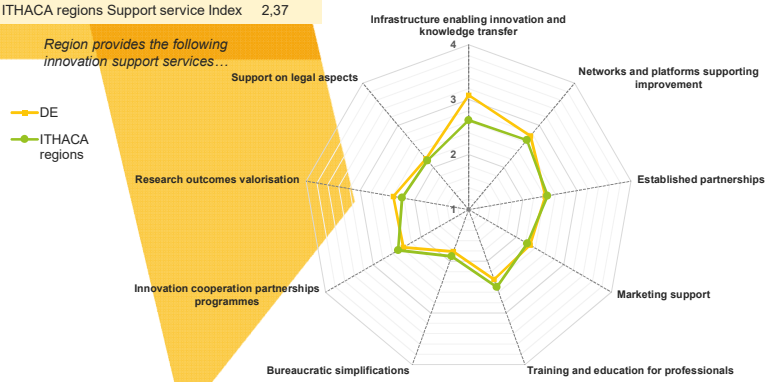
Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

INNOVATION - Support services

DE Support Services Index is higher than the average index value of ITHACA regions. The rated extent of services (individual items) are very close to the corresponding averages for all ITHACA regions, except for the *Infrastructure enabling innovation and knowledge transfer*, where the average is considerably higher than the corresponding value for ITHACA regions.

Within the region, *Infrastructure enabling innovation and knowledge transfer* (3,08) has on average the highest rated extent of all Support services items, followed by *Networks and platforms supporting improvement* (2,75). On the other side, *Marketing support* (2,29), *Support on legal aspects* (2,21) and *Bureaucratic simplifications* (1,81) have the lowest ratings.

DE Support Services Index	**2,48**
ITHACA regions Support service Index	2,37



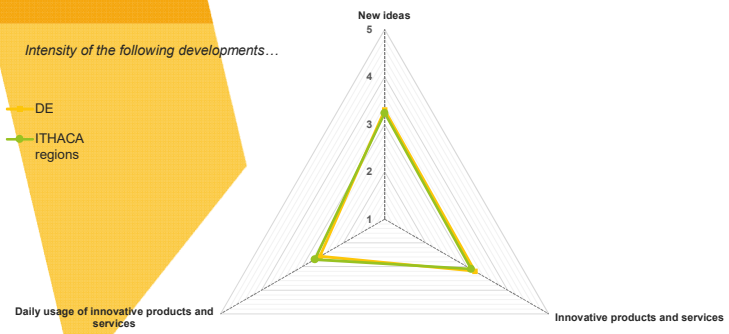
Note: Regional index is based on respondents who answered all items within theme (Q13a to Q13i). Global index is a simple average over ITHACA regions, where units are regions.

INNOVATION - Development & use of innovative products & services

DE Development & Use of innovative Products & Services Index is very close to the average index value of ITHACA regions. The rated intensities for individual items are similar to the corresponding averages of all ITHACA regions.

Within the region, *New ideas* (3,31) are rated as the most intensively occurring development in the field, followed by *Innovative products and services* (3,20), while *Daily usage of innovative products and services* (2,58) is rated as the least intensively occurring development in the field, with relatively low average value of 2,58.

DE Development & Use of innovative products & Services Index	**3,03**
ITHACA regions Development & Use of innovative products & Services Index	3,02



Note: Regional index is based on respondents who answered all items within theme (Q15a to Q15c). Global index is a simple average over ITHACA regions, where units are regions.

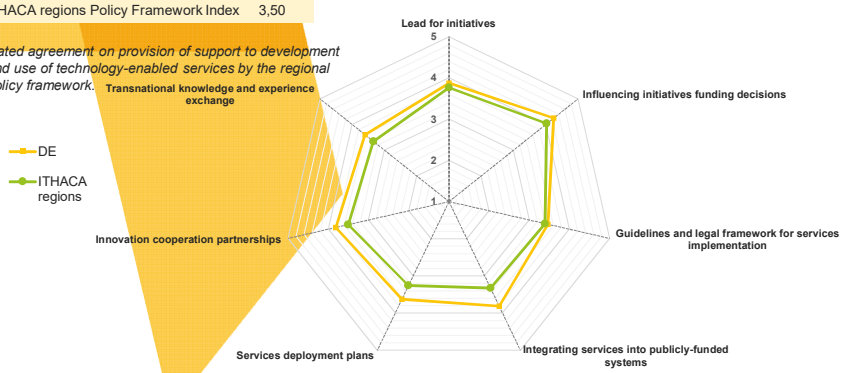
POLICY – Regional Policy Framework

DE Regional Policy Index is higher than the average index value of ITHACA regions. This is also true for all individual items, although average values for *Guidelines and legal framework for services implementation* and *Lead for initiatives* are just slightly above the corresponding values for all ITHACA regions.

Within the region, *Influencing initiatives funding decisions* (4,25) has the highest average value among the regional policy framework facets, followed somewhat distantly by *Lead for initiatives* (3,88). The lowest average values were recorded for *Services deployment plans* (3,63), *Transnational knowledge and experience exchange* (3,60) and *Guidelines and legal framework for services implementation* (3,46).

DE Policy Framework Index	**3,79**
ITHACA regions Policy Framework Index	3,50

Rated agreement on provision of support to development and use of technology-enabled services by the regional policy framework.

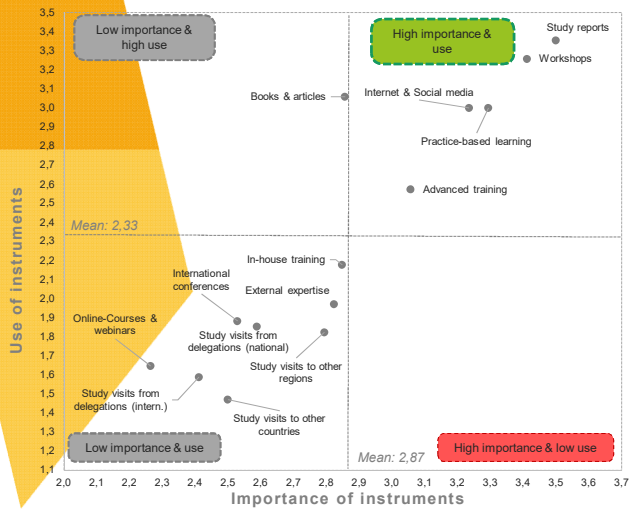


Note: Regional index is based on respondents who answered all items within theme (Q19a to Q19g). Global index is a simple average over ITHACA regions, where units are regions.

LEARNING – Relative importance & use of instruments

In DE region, the most important and most used instruments in practice from a relative point of view are: **Study reports, Workshops, Practice-based learning**, **Internet and social media** and **Advanced training**. None of the instruments has a high relative discrepancy between the importance and use.

***Sample sizes** for presented instruments and their use/importance vary from 33 to 35.*



Note: Measurement scale for importance and use goes from 1 to 4.

ITHACA
Interreg Europe

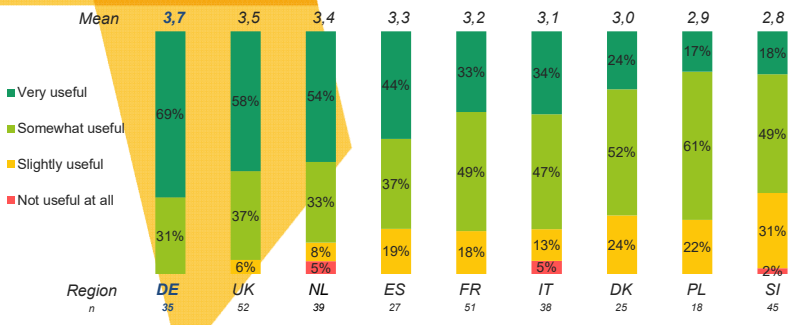
European Union
European Regional
Development Fund

Detailed overview of the results

ECOSYSTEM - Usefulness of involvement

In **Germany**, **UK** and **the Netherlands** more than half of respondents consider their involvement as very useful. On the other side, only 17% **Polish** and 18% **Slovenian** respondents evaluate their involvement as very useful.

In general, how useful is the involvement in the innovation cooperation partnerships on smart health and care for your organization? In case, you are involved in more innovation cooperation partnerships, please consider the usefulness of the one most relevant for you.



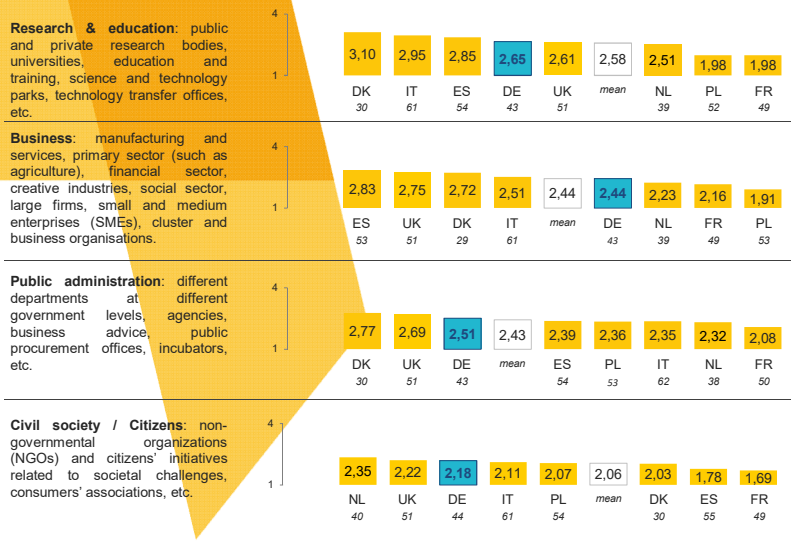
Note: Only participants that are involved in at least one listed cooperation partnership or have indicated „other" partnership in Q5 were asked this question.

ECOSYSTEM – Regional collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within your region? *Scale 1 (Not at all) to 4 (To a large extent).*

ECOSYSTEM – National collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other regions in your country? *Scale 1 (Not at all) to 4 (To a large extent).*



ECOSYSTEM – European collaboration

To what extent does your organization collaborate with the following actors in the fields of health and care within other EU countries? *Scale 1 (Not at all) to 4 (To a large extent).*

Research & education: public and private research bodies, universities, education and training, science and technology parks, technology transfer offices, etc.

ES	IT	SI	UK	DK	mean	FR	NL	DE	PL
2,72	2,41	2,35	2,15	2,07	2,06	1,78	1,76	1,76	1,53
54	*58*	*97*	*48*	*29*		*49*	*37*	*41*	*51*

Business: manufacturing and services, primary sector (such as agriculture), financial sector, creative industries, social sector, large firms, small and medium enterprises (SMEs), cluster and business organisations.

ES	UK	IT	DK	mean	SI	NL	FR	DE	PL
2,33	2,08	2,05	2,00	1,88	1,83	1,78	1,76	1,71	1,39
54	*48*	*58*	*30*		*96*	*37*	*50*	*41*	*51*

Public administration: different departments at different government levels, agencies, business advice, public procurement offices, incubators, etc.

ES	UK	SI	IT	mean	DK	DE	PL	FR	NL
2,09	1,94	1,88	1,80	1,73	1,72	1,64	1,57	1,47	1,43
54	*48*	*95*	*59*		*29*	*42*	*51*	*49*	*37*

Civil society / Citizens: non-governmental organizations (NGOs) and citizens' initiatives related to societal challenges, consumers' associations, etc.

SI	IT	ES	UK	mean	DK	PL	NL	DE	FR
1,80	1,66	1,60	1,59	1,56	1,55	1,55	1,45	1,41	1,39
96	*58*	*53*	*49*		*29*	*51*	*38*	*41*	*49*

INNOVATION - Support services 1

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

Established knowledge networks, collaboration platforms to support continuous improvement.

NL	UK	ES	FR	DK	DE	mean	IT	SI	PL
2,97	2,93	2,80	2,80	2,79	2,75	2,65	2,50	2,32	2,00
32	*45*	*54*	*44*	*28*	*36*		*54*	*77*	*42*

Established infrastructure which enables development of innovation and knowledge transfer..

DE	NL	FR	UK	mean	ES	DK	IT	SI	PL
3,08	3,06	2,96	2,80	2,63	2,59	2,50	2,40	2,21	2,05
37	*33*	*45*	*45*		*54*	*28*	*55*	*78*	*43*

Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.

NL	DK	FR	IT	UK	mean	ES	DE	PL	SI
2,84	2,68	2,64	2,57	2,50	2,50	2,43	2,35	2,33	2,16
32	*28*	*42*	*53*	*44*		*51*	*37*	*43*	*77*

INNOVATION - Support services 2

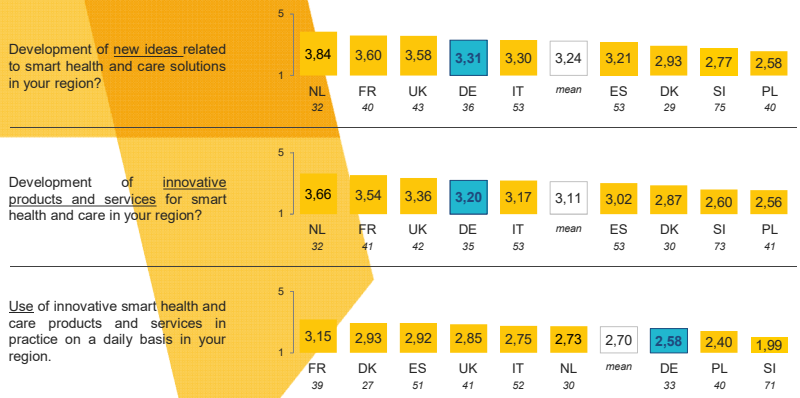
In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

INNOVATION - Support services 3

In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region? *Scale 1 (Not at all) to 4 (To a large extent).*

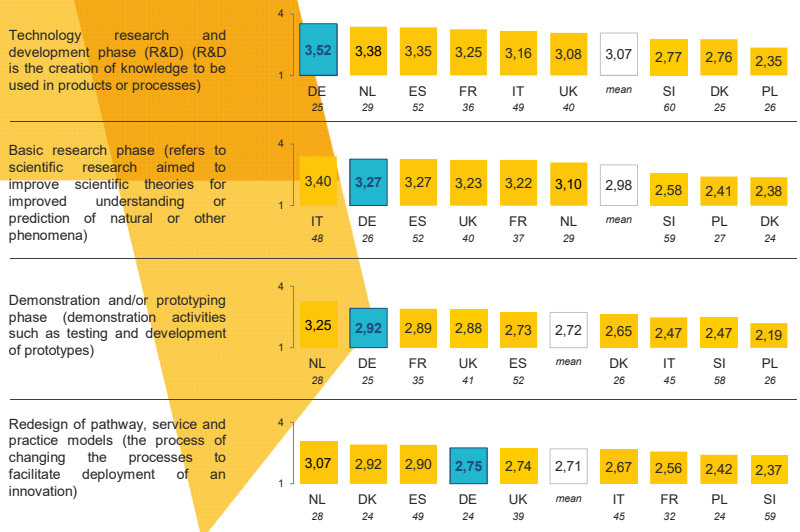
INNOVATION – Development and use of innovative products and services

How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region? *Scale 1 (Very low intensity) to 5 (Very high intensity).*



INNOVATION - Phases 1

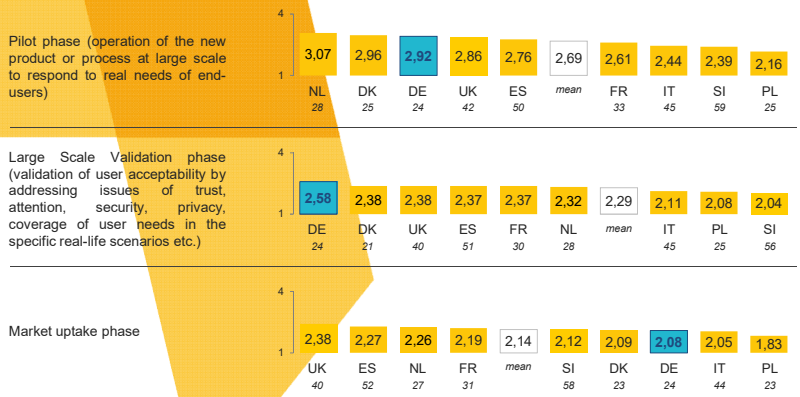
In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*



Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

INNOVATION - Phases 2

In your opinion, to what extent are the innovation phases mentioned below currently present within the innovation cycle in your region in the field of smart health and care? *Scale 1 (Not at all) to 4 (To a large extent).*

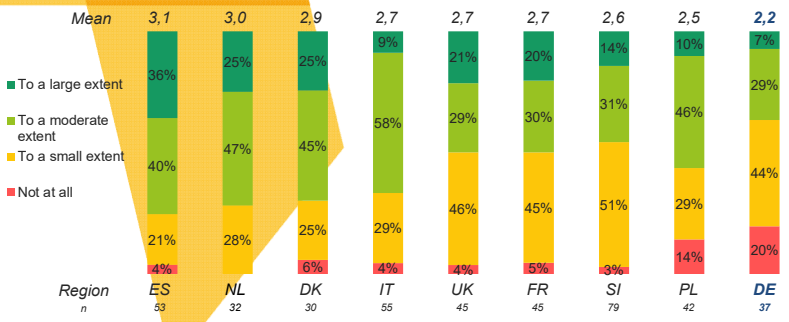


Note: only participants who were familiar with the concept of innovation (filter question) were asked items shown on this slide.

POLICY - Information

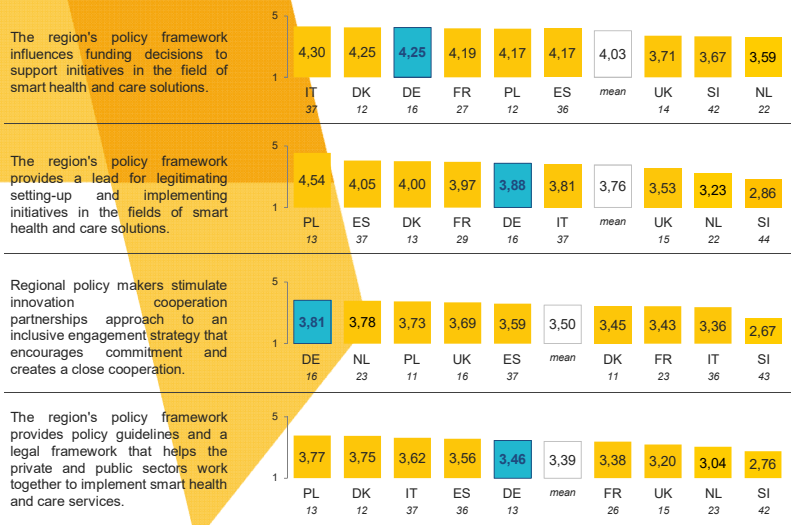
The share of respondents that are to a large or moderate extent informed about regional policy, strategies and programs is highest in **Spain**, **the Netherlands** and **Denmark**, and the lowest in Slovenia and Germany. The share of respondents who claim that are not informed at all is the highest in **Poland** and **Germany**.

To what extent are you informed about the regional policy, strategies, and programs in the field of smart health and care?



POLICY - Framework 1

To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*



Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

POLICY - Framework 2

To what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region? *Scale 1 (Strongly disagree) to 5 (Strongly agree).*

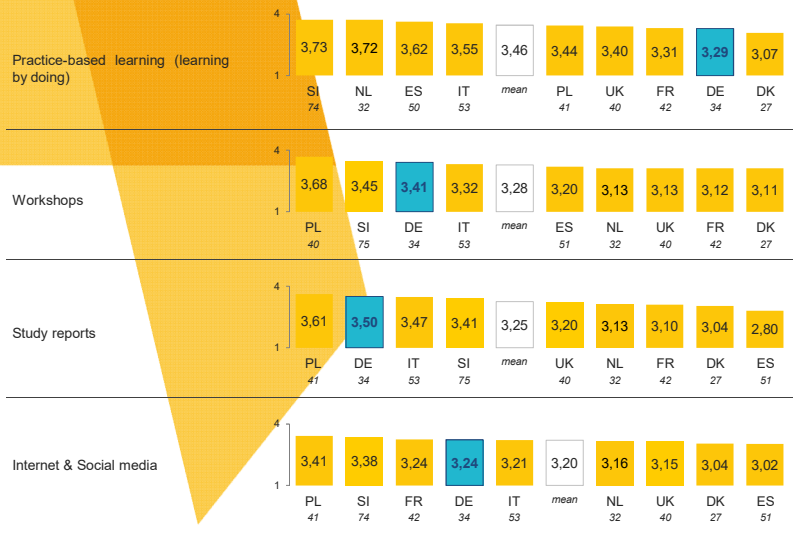
Note: only participants who are informed about the regional policy, strategies, and programs were asked the items shown on these slide.

LEARNING - Importance to learn in exchange

How important is it for your work to learn in exchange with experts and other stakeholders within your own region/country or from other cities/counties, regions and countries? *Scale 1 (Not important at all) to 4 (Very important)*.

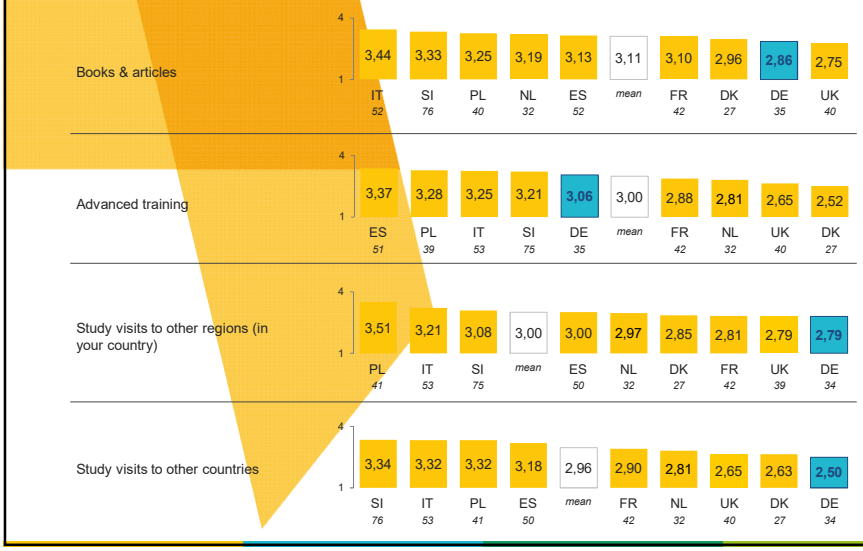
LEARNING - Importance of channels / instruments / approaches 1

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important)*.



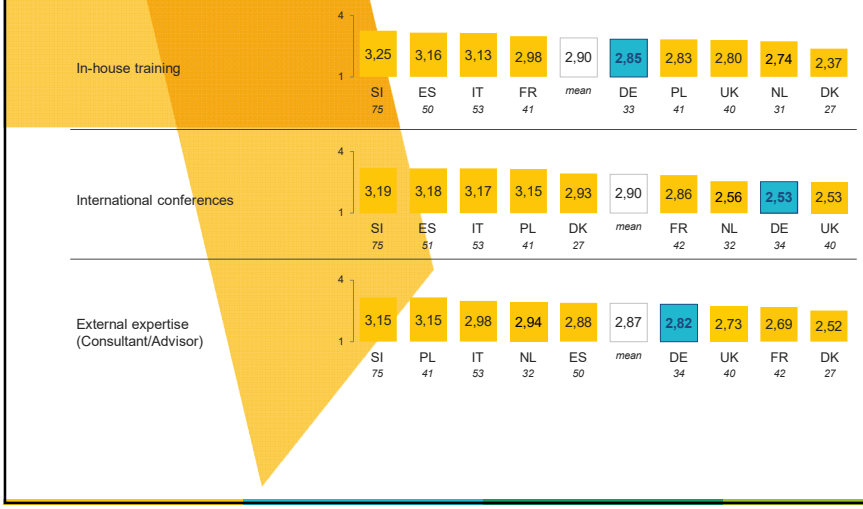
LEARNING - Importance of channels / instruments / approaches 2

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



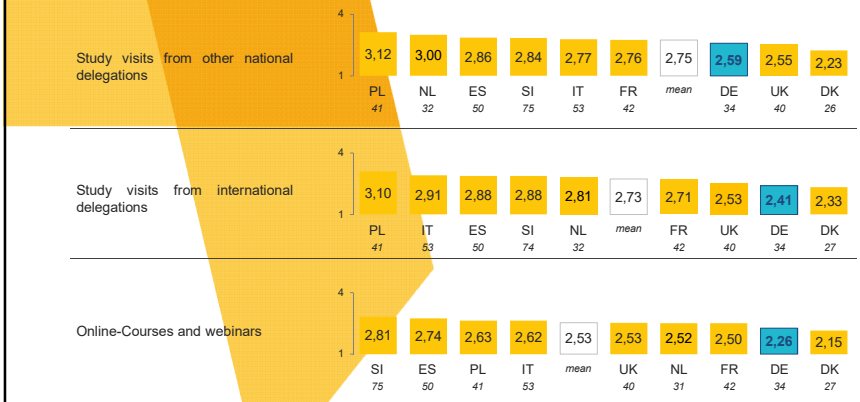
LEARNING - Importance of channels / instruments / approaches 3

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



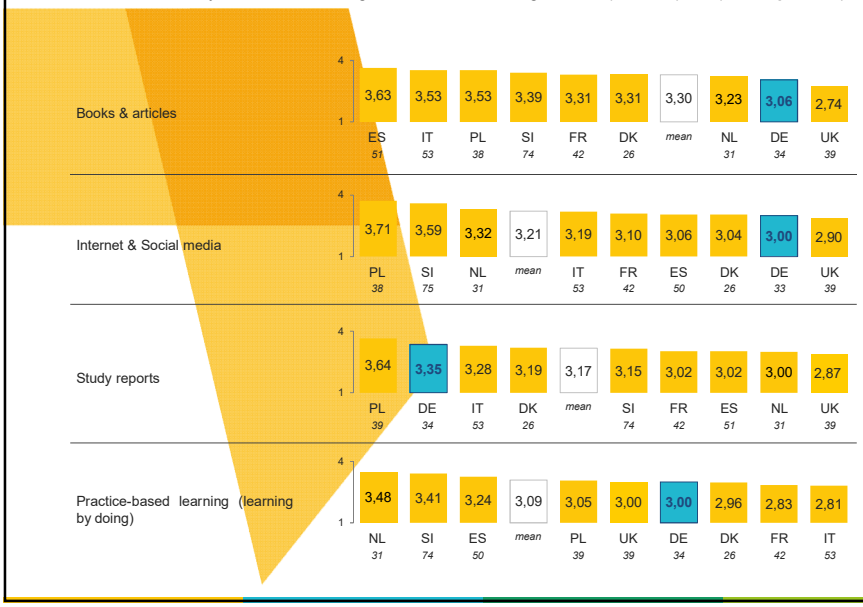
LEARNING - Importance of channels / instruments / approaches 4

Regarding the learning aspect: in your opinion, how important are the following channels/instruments/approaches for your work? *Scale 1 (Not important at all) to 4 (Very important).*



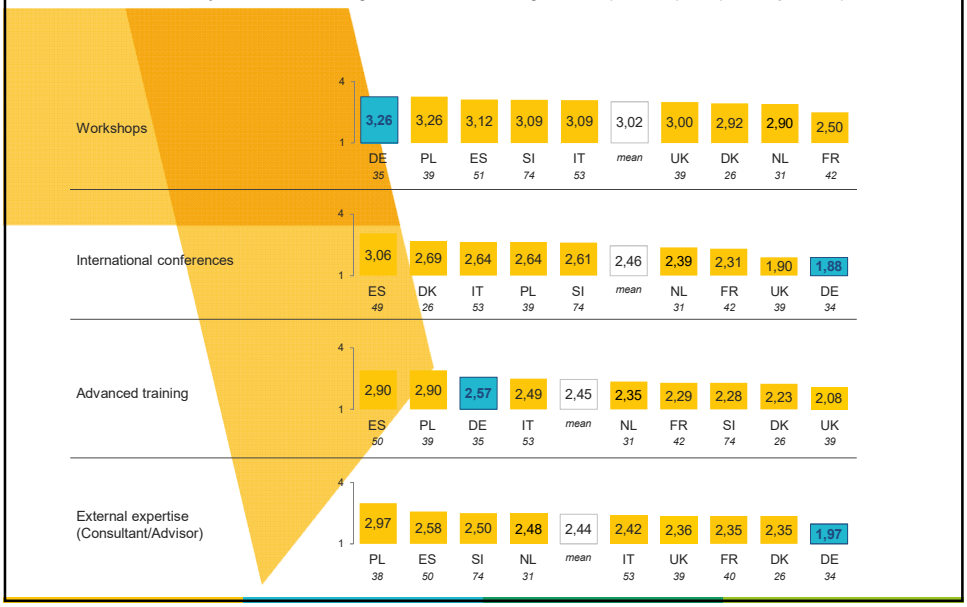
LEARNING - Use of instruments 1

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



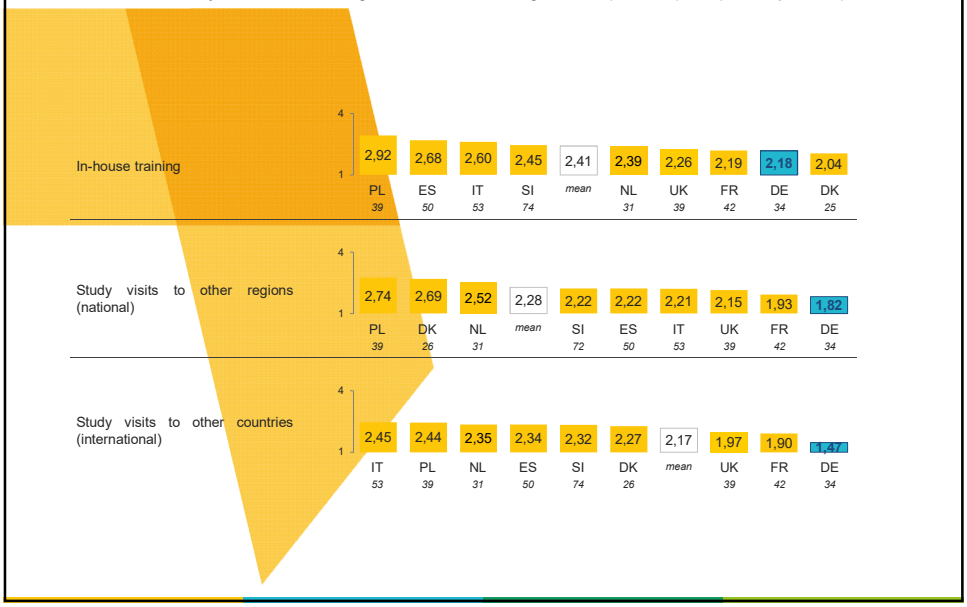
LEARNING - Use of instruments 2

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



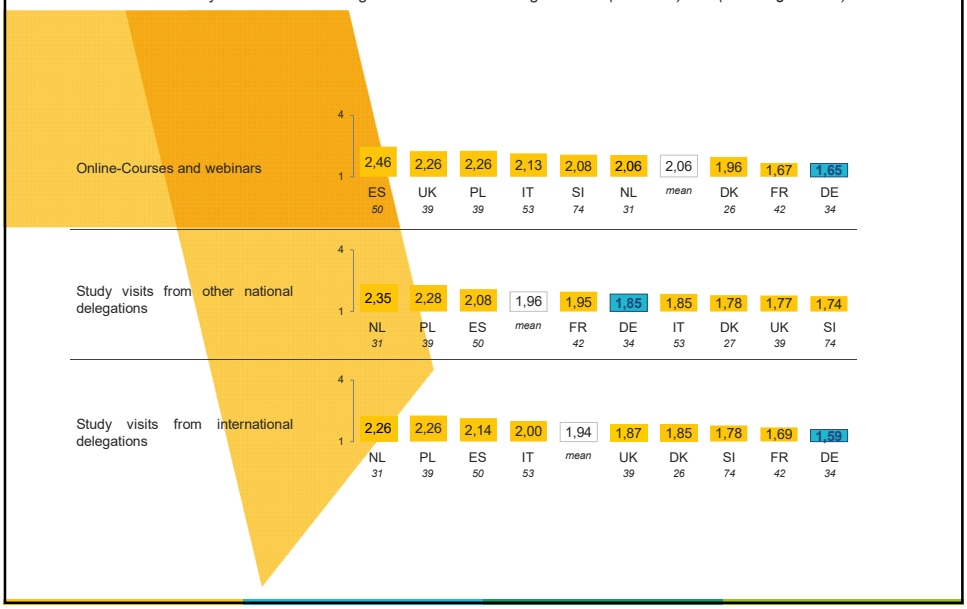
LEARNING - Use of instruments 3

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



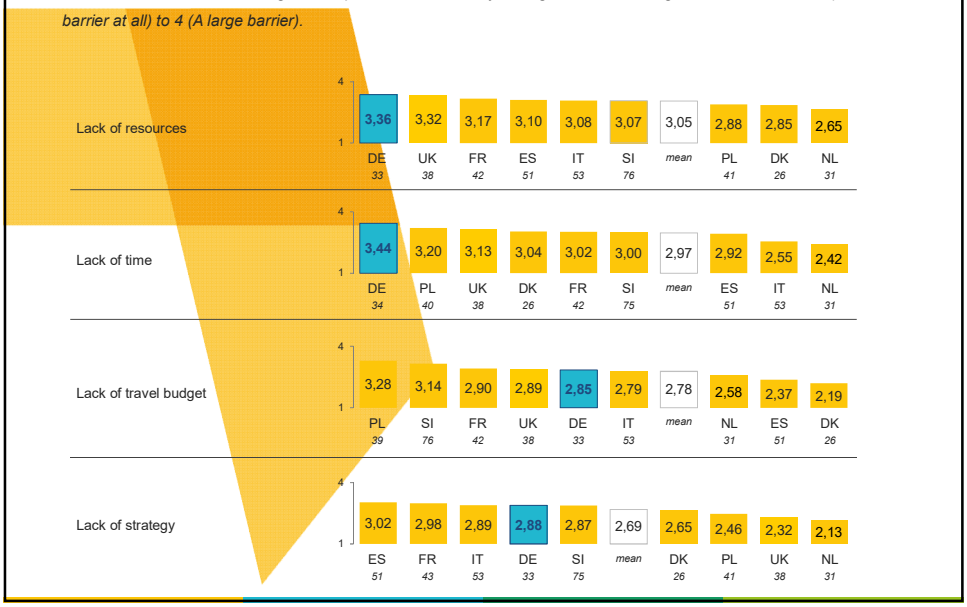
LEARNING - Use of instruments 4

To what extent have you used the following instruments for learning? *Scale 1 (Not at all) to 4 (To a large extent).*



LEARNING - Barriers 1

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*



LEARNING - Barriers 2

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

LEARNING - Barriers 3

To what extent do the following factors present a barrier to your organization learning with others? *Scale 1 (Not a barrier at all) to 4 (A large barrier).*

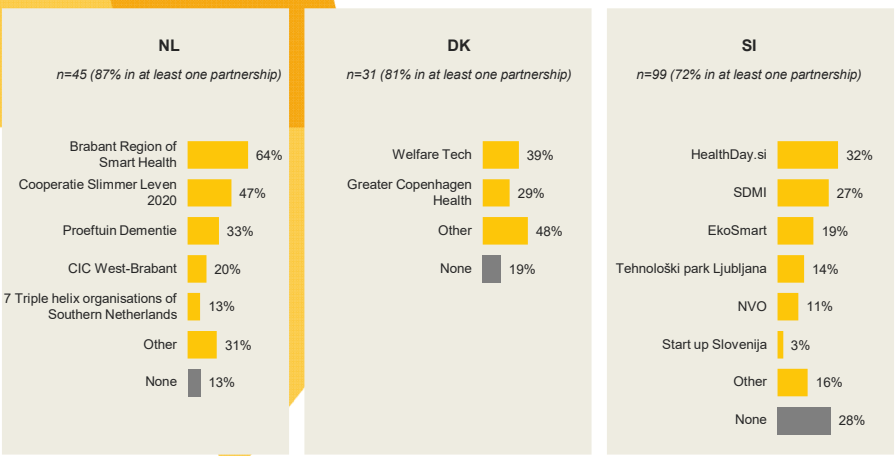
ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Detailed sample characteristics

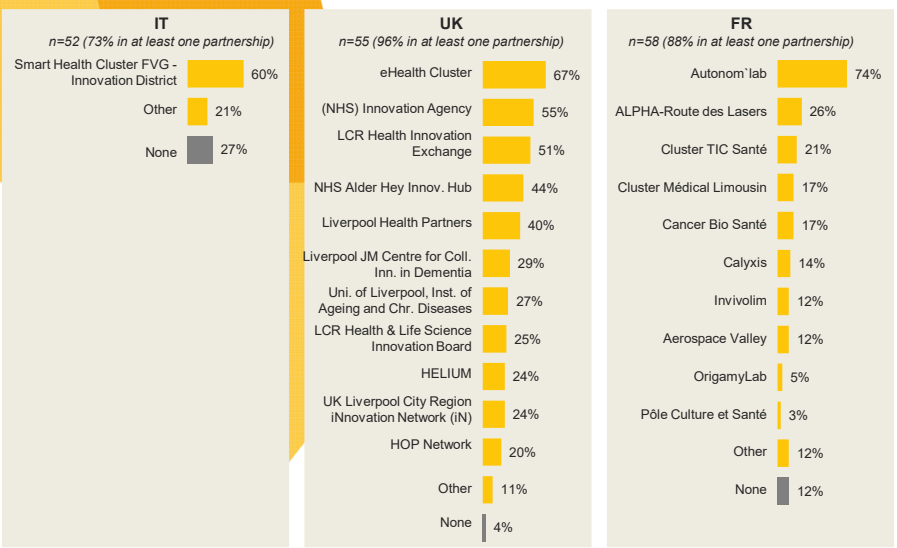
COOPERATION PARTNERSHIPS INVOLVEMENT 1

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



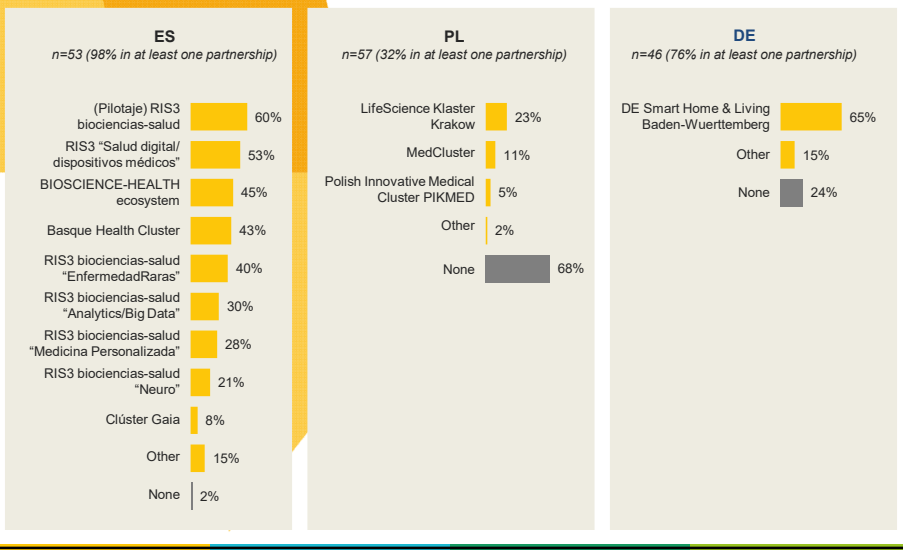
COOPERATION PARTNERSHIPS INVOLVEMENT 2

Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



COOPERATION PARTNERSHIPS INVOLVEMENT 3

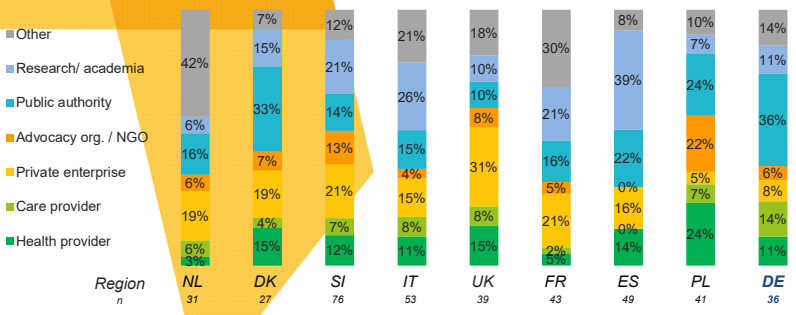
Is your organization in any way involved in any of the following innovation cooperation partnerships (i.e. ecosystems / clusters / triple or quadruple-helix partnerships that stimulate innovative activity by intensive interaction) on smart health and care?



TYPE OF ORGANIZATION

Poland has the highest share of respondents that are health providers (24%) while the Netherlands and France have the lowest. UK has the highest share of respondents that are private enterprises (39%).

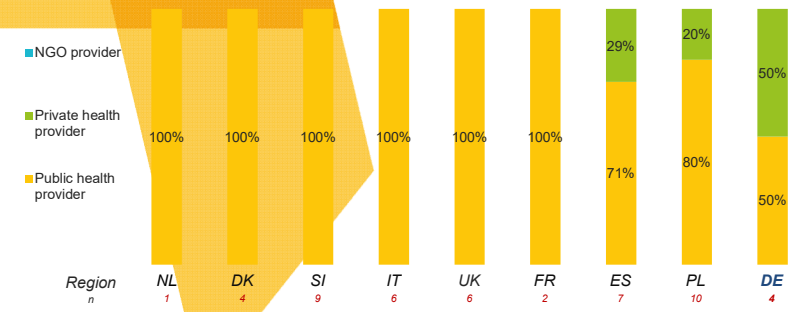
What type is your organization?



TYPE OF HEALTH PROVIDER

Although the samples are very small, the results indicate that in almost all regions a vast majority of health providers are public organizations.

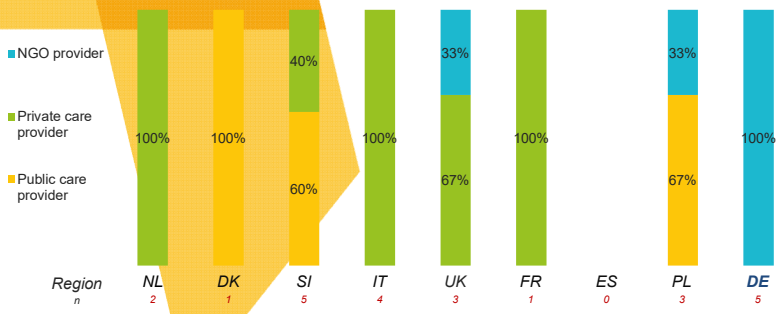
What type of health provider is your organization?



TYPE OF CARE PROVIDER

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

What type of care provider is your organization?



TYPE OF ADVOCACY

Only a handful of respondents answered this question, which makes it unsuitable for interpretation.

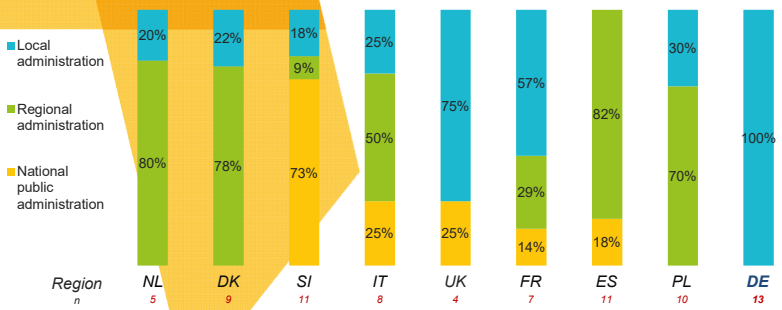
What type of advocacy does your organization provide?

Region	n	H. CARE PROFESSIO-NALS	OLDER PEOPLE	PATIENTS	INFORMAL CAREGIVERS	OTHER
NL	2		50%	50%		100%
DK	2				50%	50%
SI	10		70%		20%	30%
IT	2		50%			50%
UK	3	67%	67%	67%	67%	33%
FR	2	50%			50%	
ES	0					
PL	4		50%		25%	75%
DE	2		50%	50%	50%	50%

LEVEL OF PUBLIC AUTHORITY

Although the samples are very small, the results indicate that Slovenian public organizations mostly have national authority, German public organizations have local authority, while Spanish and Polish mostly have regional authority.

What level of authority is your organization?



OPERATIONAL FIELDS

Health care and to lesser extent social care are the most common operational fields of respondents in the majority of regions. Exception is Slovenia with the ICT as the most common operational field.

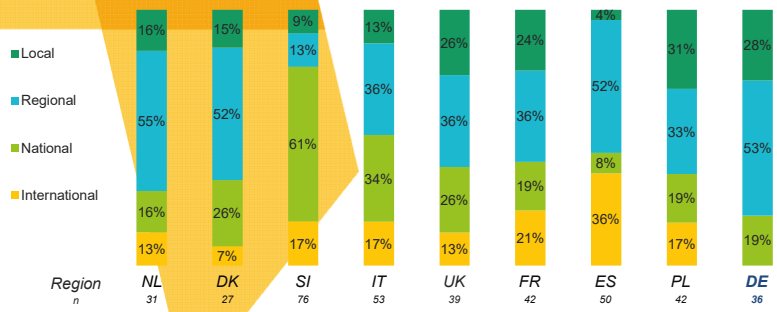
In what fields does your organization operate?

Region	n	HEALTH CARE	SOCIAL CARE	HOUSING	PHARMA	ICT	OTHER
NL	31	65%	58%	29%	6%	19%	29%
DK	27	74%	30%	7%		33%	15%
SI	75	21%	23%	9%	7%	41%	39%
IT	53	38%	23%	6%	6%	13%	47%
UK	39	72%	51%	21%	21%	46%	21%
FR	43	49%	23%	28%	7%	21%	23%
ES	49	49%	10%	6%	16%	27%	39%
PL	42	52%	40%	2%	2%	14%	38%
DE	35	43%	51%	3%		9%	34%

SCOPE OF ORGANIZATION

In all countries but Slovenia, most organizations of respondents mainly operate on the regional scope. Local main scope is relatively common amongst Polish and German respondents, and the least common in Spain. Spain is also the most internationally orientated; 36% of Spanish respondents report that their scope is international. In contrast, in Denmark this share is only 7%.

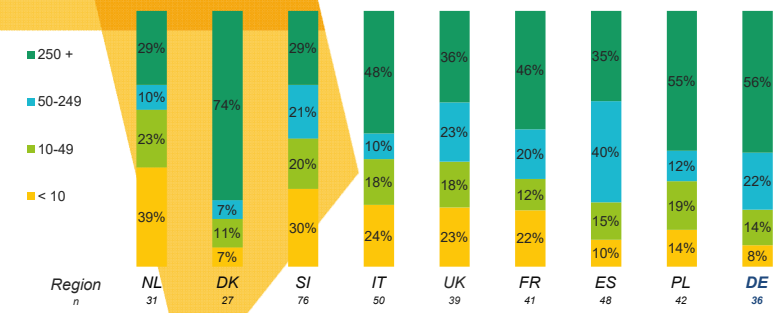
What is the main scope of the organization?



NUMBER OF EMPLOYEES

All regions have a noticeable share of organizations with more than 250 employees, the highest share was recorded in Denmark (74%), while in the Netherlands and Slovenia it is the lowest and stands at 29% in both regions. The Netherlands and Slovenia also have the highest share of organizations with less than 10 employees, 39% and 30% respectively.

How many employees does your organization have?



ITHACA
Interreg Europe

European Union
European Regional
Development Fund

Appendix

Input for "Regional Policy Framework Index"

Survey Question: *Thinking about the current policy framework in your region, to what extent do you agree or disagree with the following statements about regional policy frameworks related to development and use of technology-enabled services for smart health and care within your region?*

- The region's policy framework provides a lead for legitimating setting-up and implementing initiatives in the fields of smart health and care solutions.
- The region's policy framework influences funding decisions to support initiatives in the field of smart health and care solutions.
- The region's policy framework provides policy guidelines and a legal framework that helps the private and public sectors work together to implement smart health and care services.
- The region's policy framework supports integration of smart health and care services into the publicly-funded health and care system.
- The region's policy framework provides support for developing a clear implementation plan for successful deployment of smart health and care solutions.
- Regional policy makers stimulate innovation cooperation partnership approach to an inclusive engagement strategy that encourages commitment and creates a close cooperation between public authorities, education and research institutions, business, and citizens/patients.
- The region's policy framework explicitly supports transnational knowledge and experience exchange in the field of smart health and care.

Input for “Innovation Support Service Index”

Survey Question: *In your opinion, to what extent are the following support services, for developing and scaling up of smart health and care solutions, provided in your region?*

- Establish infrastructure which enables development of innovation and knowledge transfer, for example living labs, demonstrators, test sites, show rooms, easily accessible research environments, clinical trials, open source facilities.
- Established knowledge networks, collaboration platforms to support continuous improvement.
- Established public-private partnerships.
- Support for bringing products and services to the market and growing market share.
- Training and further education programmes to health and care professionals and other stakeholders working with age friendly smart health and care solutions.
- Procedural and administrative simplifications.
- Programs for innovation cooperation partnerships.
- Support for the valorisation of research outcomes.
- Support on legal aspects including intellectual property rights, procurement, regulation.

Input for “Development & Use of innovative products & Services Index”

Survey Question: *How would you rate intensity of the occurrence of the following developments in the field of smart health and care in your region?*

- Development of new ideas related to smart health and care solutions in your region?
- Development of innovative products and services for smart health and care in your region?
- Use of innovative smart health and care products and services in practice on a daily basis in your region.

ITHACA
Interreg Europe
European Union
European Regional
Development Fund
The end ☺
Questions welcome
Project smedia

ITHACA
Interreg Europe
European Union
European Regional
Development Fund
Contact for more info:
vesna.dolnicar@fdv.uni-lj.si
Questions welcome
Project smedia