

TAKING  
**COOPERATION**  
FORWARD



InnoPeer AVM 5th SC Meeting  
Munich | 11th December 2019



**WP 1 - Strategy Roadmapping Frame**  
**Minutes of 3<sup>rd</sup> Action Planning Workshop**



InnoPeer AVM | Brigitte Hatvan / ConPlusUltra

# ACTIVITY 4 (RP): DELIVERABLES



D.T1.4.1 - Deadline 10/2019

Regional strategic stakeholder workshops  
on AVM (on occasion of PP meetings)

D.T1.4.2 - Deadline 12/2019

Draft of CE strategy roadmap

D.T1.4.3 - Deadline 04/2020

Final CE strategy roadmap in AVM  
(including Board feedback)



# INNOPEER AVM - STRATEGIC FRAME

## MEGATRENDS IN DIGITALISATION

14.0 Technologies / Functioning of Markets

EU STRATEGIES ON DIGITALISATION OF INDUSTRY

DEMAND-ORIENTED  
QUALIFICATION PATHS  
FOR CE COMPANIES  
IN AVM/14.0

... 2022

... 2025

... 2030

INTEGRATION IN  
EU-LEVEL / NATIONAL  
STRATEGIES TO ENSURE  
ENHANCED SUPPORT  
FOR CE COMPANIES

IMPACT ON CE COMPANIES

Central European Strategy Perspective 2030

# INNOPEER AVM - STRATEGIC FRAME

## EU STRATEGIES ON DIGITALISATION OF INDUSTRY

### DEMAND-ORIENTED QUALIFICATION PATHS FOR CE COMPANIES IN AVM/I4.0

Where to position INNOPEER AVM results within the vocational training / further qualification system?  
For which target groups and how?  
Which support measures to raise awareness and involve target groups?  
Central European perspective!

... 2022

... 2025

... 2030

### INTEGRATION IN EU-LEVEL / NATIONAL STRATEGIES TO ENSURE ENHANCED SUPPORT FOR CE COMPANIES

Learnings and recommendations from INNOPEER AVM as contributions

- for strategic initiatives at European level
- For strategic positioning of Central Europe within EU Digitalisation strategies
- for national S3 strategies until 2030

Central European Strategy Perspective 2030

MEGATRENDS IN DIGITALISATION

I4.0 Technologies / Functioning of Markets

IMPACT ON CE COMPANIES

## EU Strategy for the Digitalisation of Industry

- DESI Digital Economy & Society Index
- European Commission, Digital Single Market: DEI Brochure, 2018

## Megatrends in Digitalisation

- PWC: Chancen und Herausforderungen der vierten industriellen Revolution (Survey 2014)
- Deloitte Insights: The Industry 4.0 paradox (2018)

## Qualification of SMEs for Digital Transformation

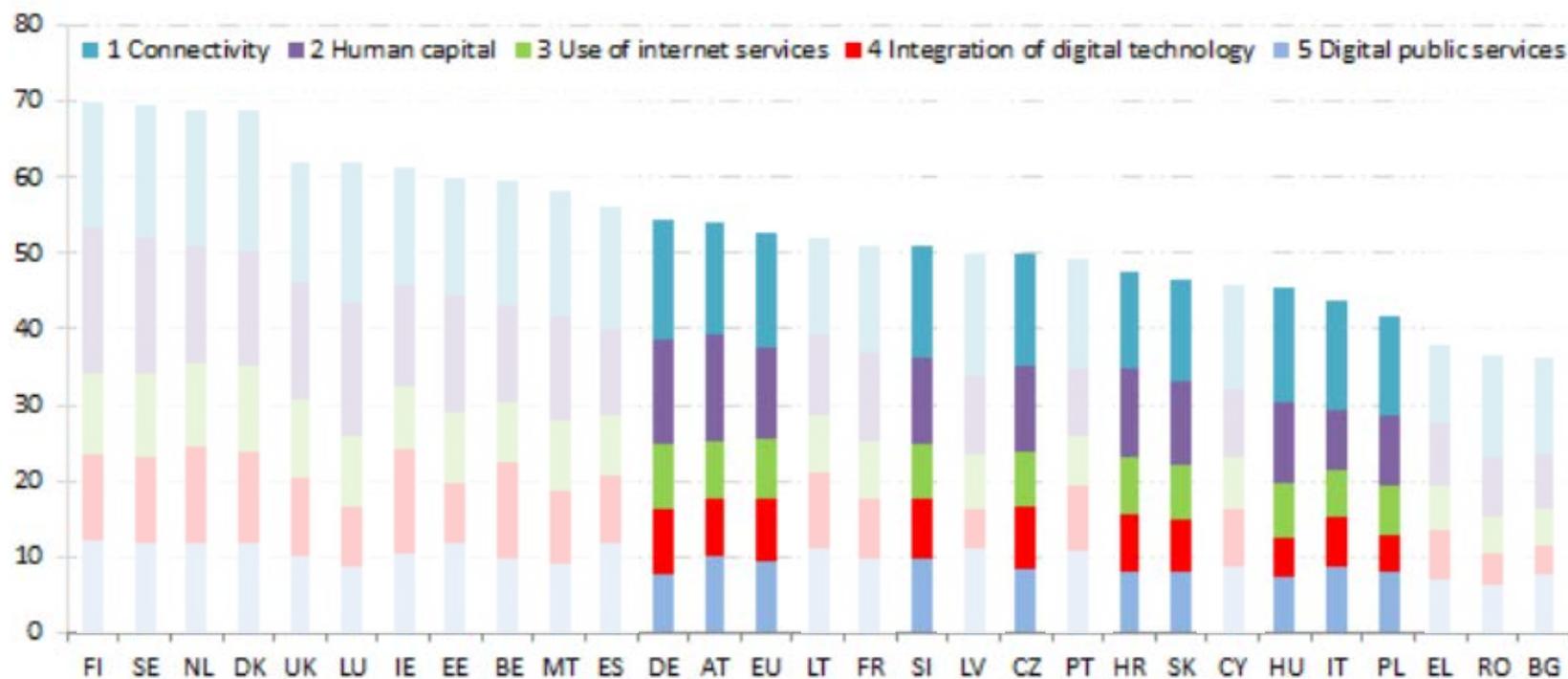
- VDMA: Industrie 4.0 - Qualifizierung 2025 (2016)
- Austria Wirtschaftsservice AWS: Qualifizierungsmaßnahmen im Zusammenhang mit der Einführung von Industrie 4.0 (2016)



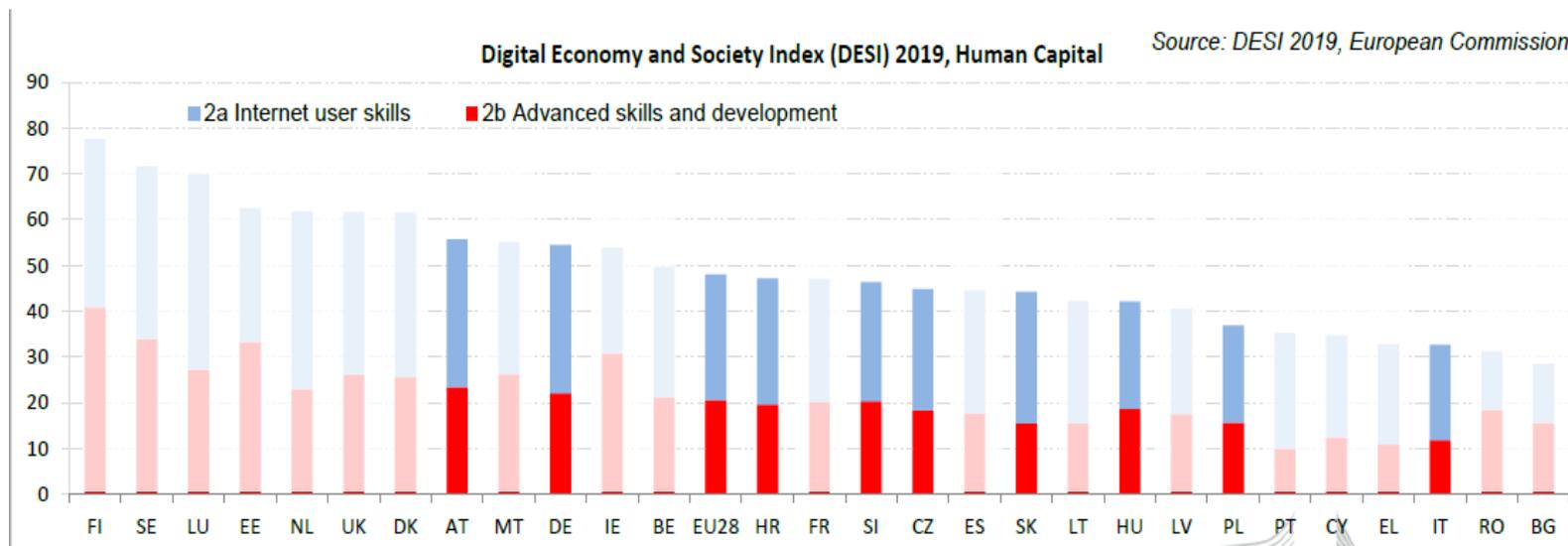
# DIGITAL ECONOMY & SOCIETY INDEX (DESI)

## DESI - Main Dimensions, 2019

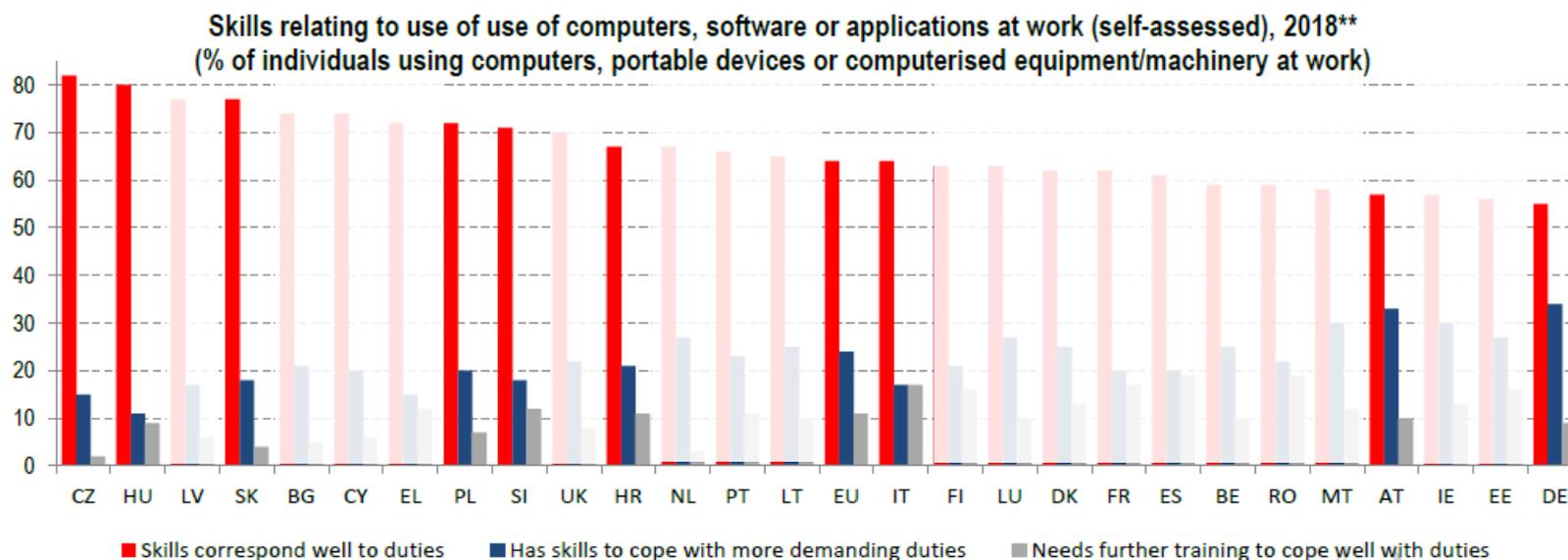
Digital Economy and Society Index (DESI) 2019 ranking



## Human Capital Dimension, 2019



## Self-Assessment of workers regarding their digital skills



Source: Eurostat

EU average: 64%

EU average: 24%

EU average: 11%

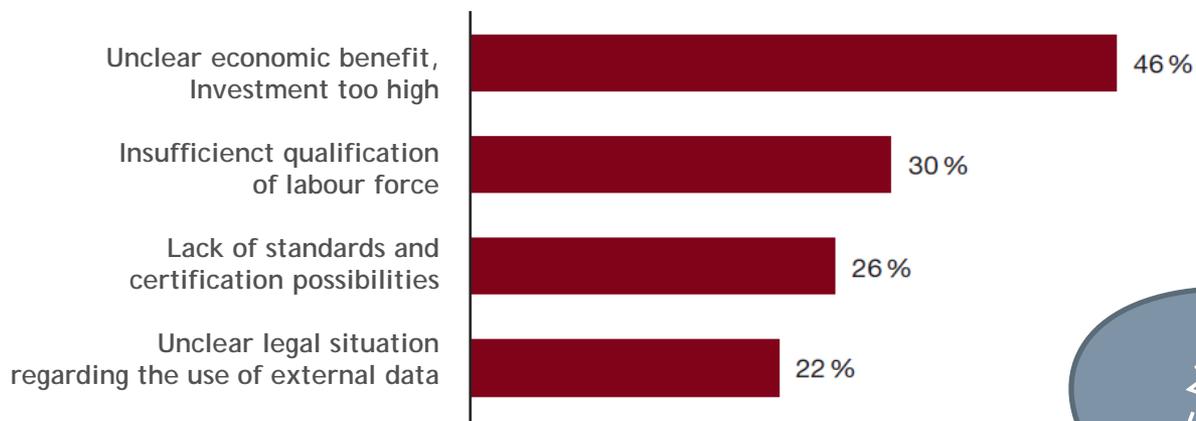


# ROADMAPPING QUESTIONS

- Realistic goals regarding the impact of upskilling measures as developed and piloted by the InnoPeer AVM project on CE companies for Central Europe as a whole ?

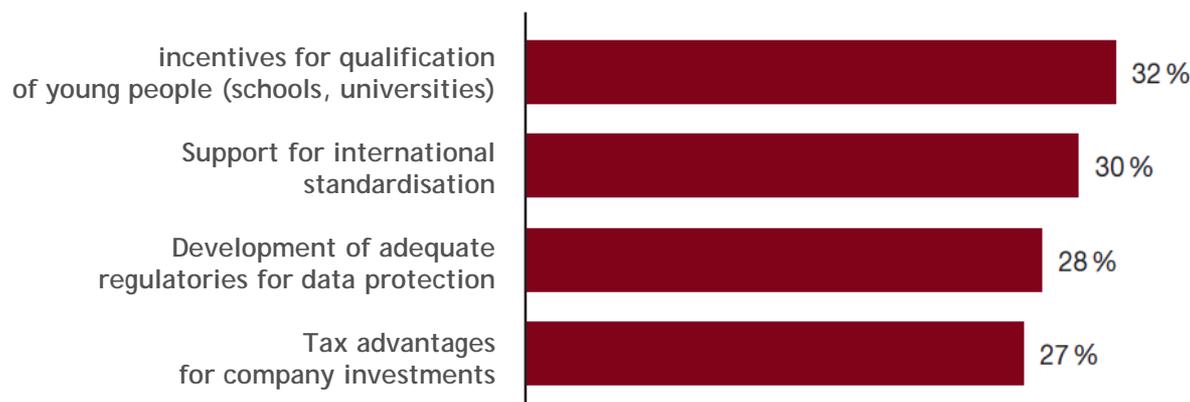


### Main barriers



Survey of 235 managers of large industrial enterprises in DE

### Support demand



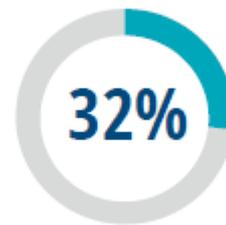
# MEGATRENDS IN DIGITALISATION DELOITTE STUDY, 2018

## The top three operational, cultural, and environmental challenges organizations face in their pursuit of digital transformation are closely interlinked

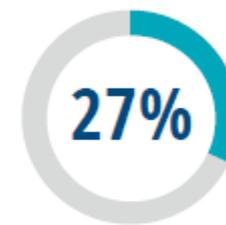
Which of the following are the most common operational, culture-related, and environmental challenges your organization faces as it seeks to pursue digital transformation initiatives?



**Finding, training,  
and retaining the  
right talent**



**Lack of internal alignment  
about which strategies  
to follow**



**Emergence of new  
business or delivery  
models**

Source: Deloitte Industry 4.0 investment survey, 2018.

Survey of  
361 executives in  
11 countries in  
the Americas,  
Asia, and Europe.



# MEGATRENDS IN DIGITALISATION

## DELOITTE STUDY, 2018

### Digital transformation is more likely to be driven by the desire to improve current processes than by the desire for innovation

What are the top factors driving digital transformation initiatives within your organization?

<b>Productivity goals (e.g., improved efficiency)</b>	<b>50%</b>
<b>Operational goals (e.g., reduced risk)</b>	<b>47%</b>
Customer requirements	36%
Internal strategy focus	29%
Competitive pressures	29%
<b>Increased desire for innovation</b>	<b>23%</b>

Source: Deloitte Industry 4.0 investment survey, 2018.



# MEGATRENDS IN DIGITALISATION

## DELOITTE STUDY, 2018

### Concerns about talent appear to grow as organizations realize greater return on investment due to digital transformation

	Respondents reporting moderate or lower ROI	Respondents reporting significant ROI
Total respondents that indicated finding, training, and retaining the right talent is a challenge	50	69
Percentage of total	31%	39%

Source: Deloitte Industry 4.0 investment survey, 2018.

- Build digital capabilities with, not for a company's employees.
  - > Digital integration process to avoid skepticism or confusion
- Hire for design.
  - > Better user interface design as the channel to greater employee engagement with digital technologies
- Sustaining success requires continual investment in talent development.
  - > Upskilling existing employees to interact and use the full capabilities of digital technologies.

Source: Deloitte Industry 4.0 investment survey, 2018.



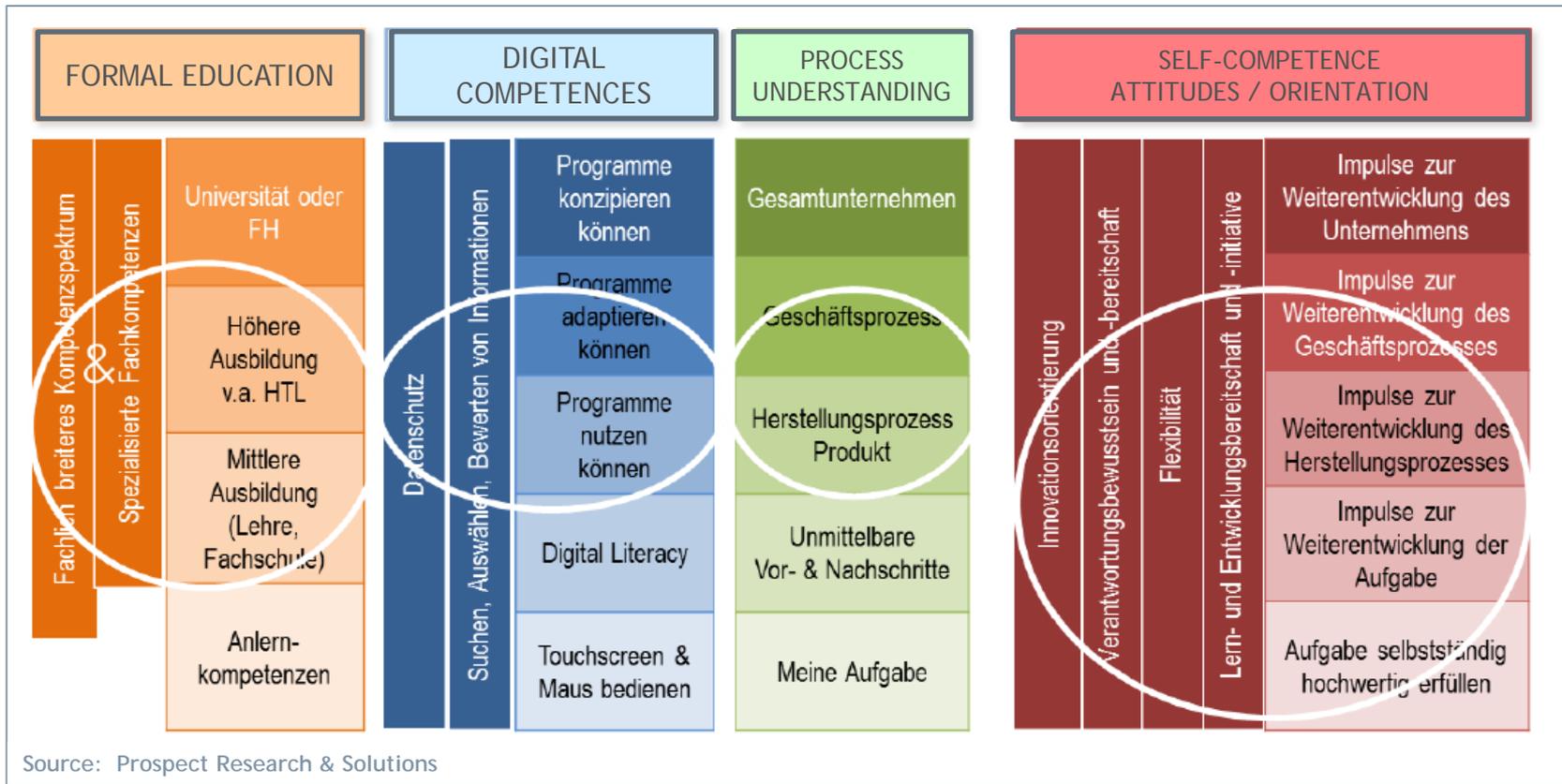
- Who will drive digital transformation in Central European companies, and for what reason? How does this relate to the upskilling demand?
- Which kind of support will CE companies at different levels of maturity for digital transformation need the most? Which will be the predominant target group by maturity level?
- Which support activities of innovation system actors will be required to motivate and involve regional companies?



# QUALIFICATION FOR I4.0 AWS STUDY, 2016

~ 25 focus groups and interviews with AT companies (CEOs / HR), worker councils and experts

## Expected staff competences of company representatives



Source: Prospect Research & Solutions



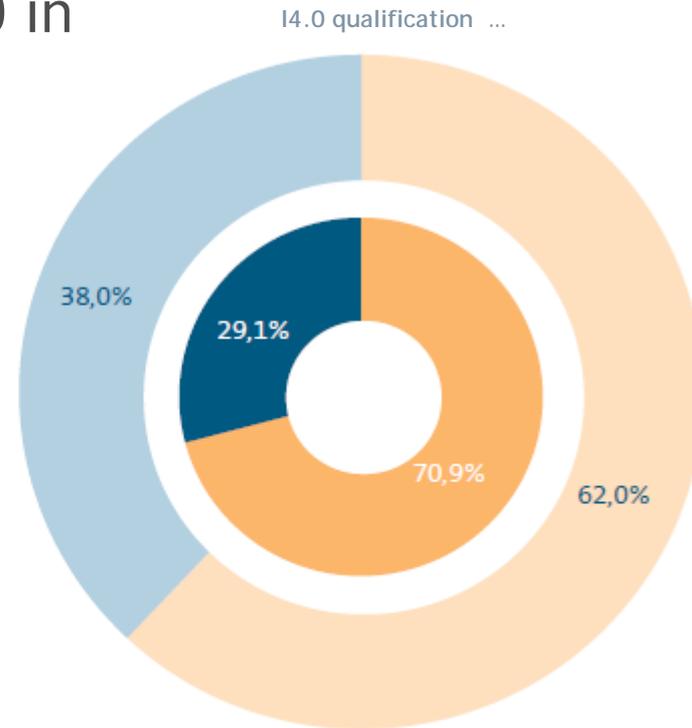
# QUALIFICATION FOR I4.0 VDMA STUDY, 2016

## Relevance of Industry 4.0 in Initial VET / Further Qualification

Survey of >500  
DE companies from  
machine building /  
plant engineering  
sector

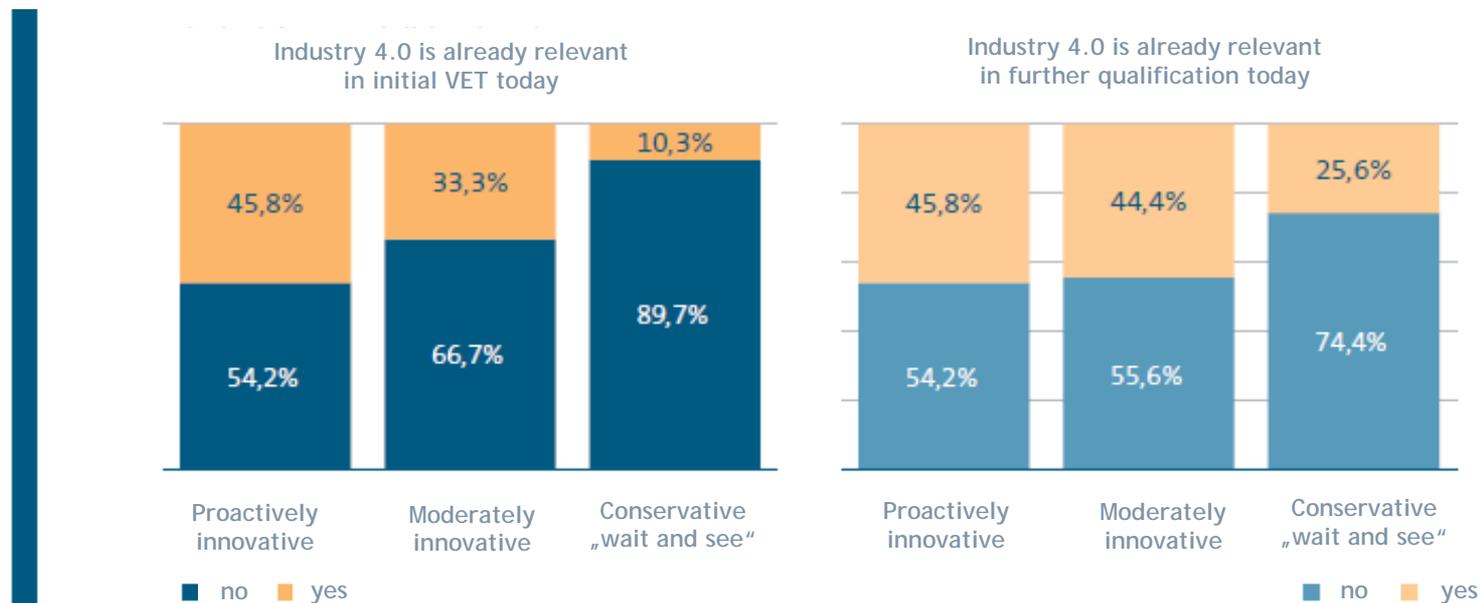
- ... Is already relevant in initial VET today
- ... Is not relevant in initial VET today
- ... Is already relevant in further qualification / upskilling today
- ... Is not relevant in further qualification / upskilling today

Q2025, n= [197]



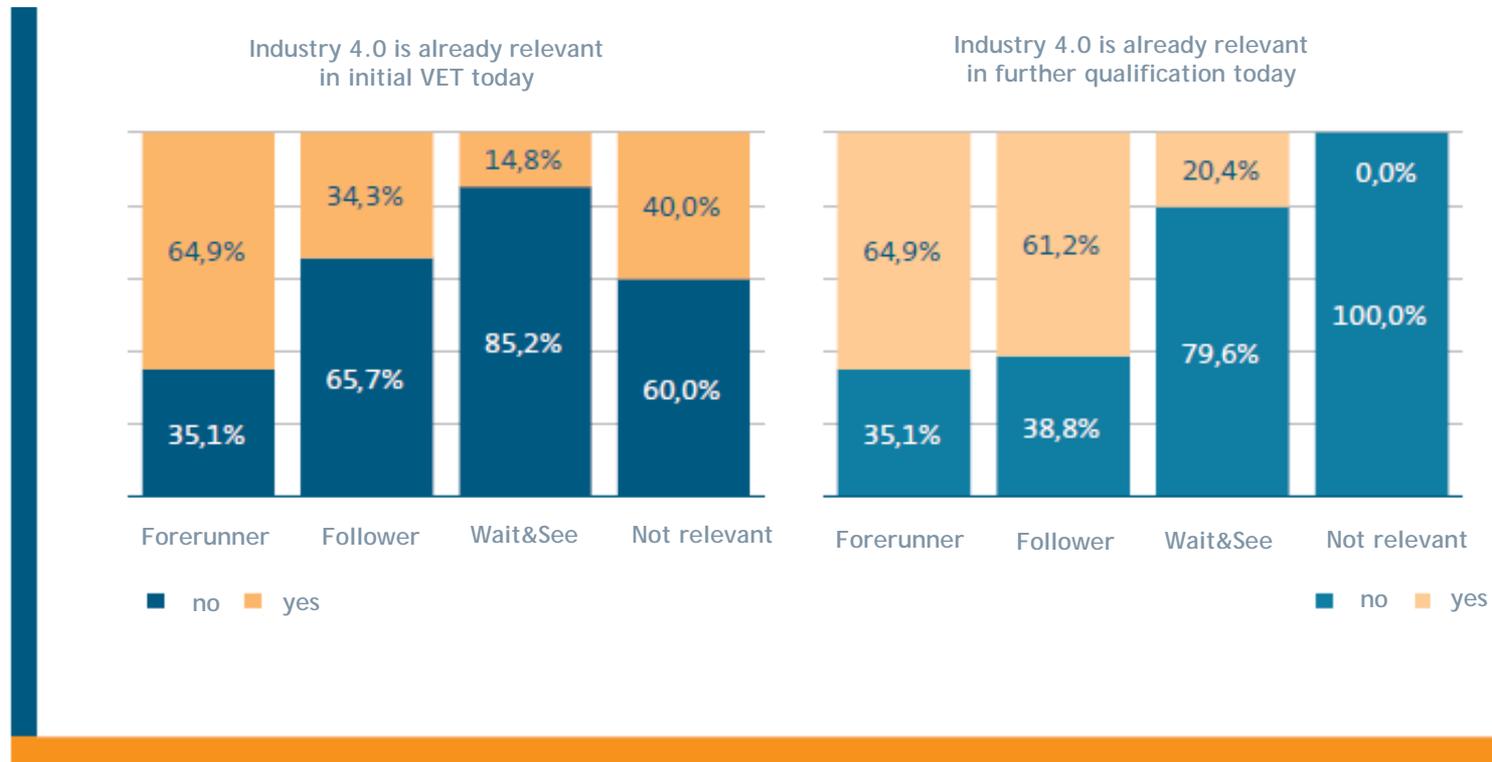
# QUALIFICATION FOR I4.0 VDMA STUDY, 2016

Companies' attitude towards innovation in qualification  
vs. I4.0 qualification activities (Initial VET/Further Qualification)



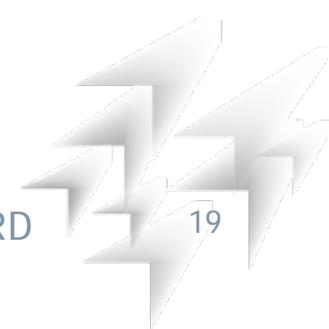
# QUALIFICATION FOR I4.0 VDMA STUDY, 2016

## Companies' innovativeness and I4.0 qualification today (Initial VET / Further Qualification)



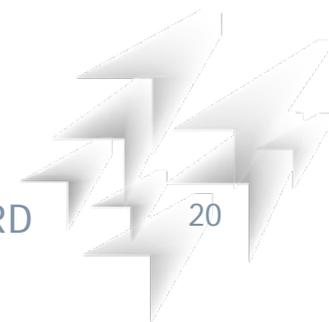
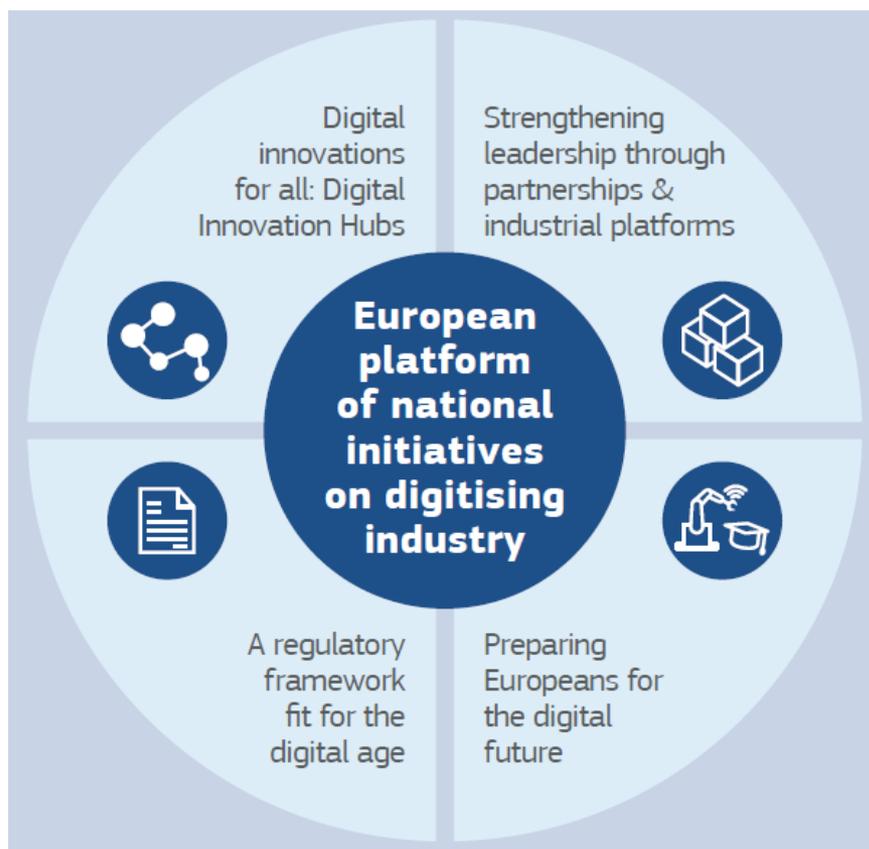
# ROADMAPPING QUESTIONS

- Which qualification goals will be relevant for CE companies ?  
Which level of trainings will be needed ?
- Which kind of support will CE companies at different levels of maturity for digital transformation need the most ?  
Which will be the predominant target group by maturity level ?
- Which support activities of innovation system actors will be required to motivate and involve regional companies to participate in I4.0 qualification measures?



# DIGITISING EUROPEAN INDUSTRY INITIATIVE (DEI)

Building on and complementing the national initiative for digitising industry, the DEI strategy is structured around five main pillars.



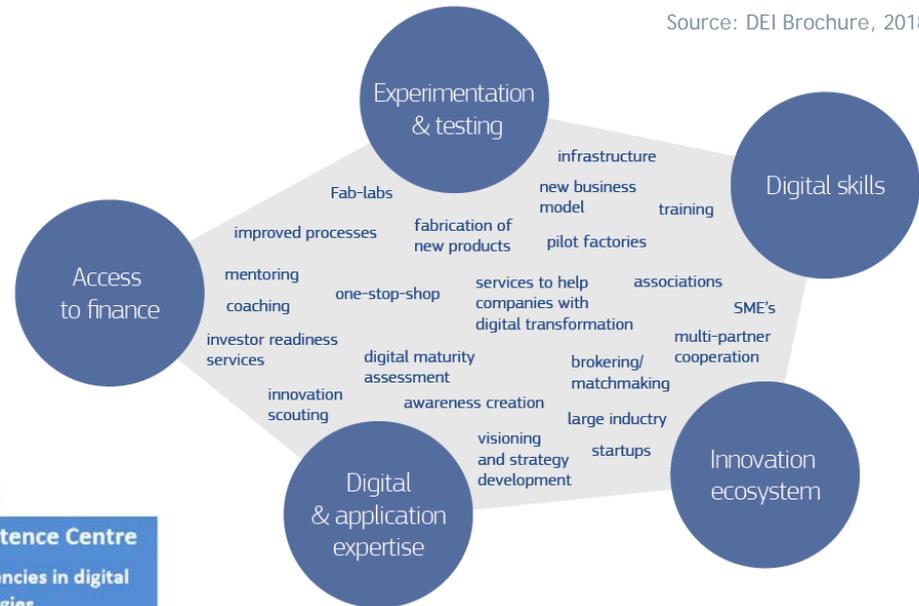
# DIGITAL INNOVATION HUBS

The Digital Innovation Hub Model<sup>7</sup>



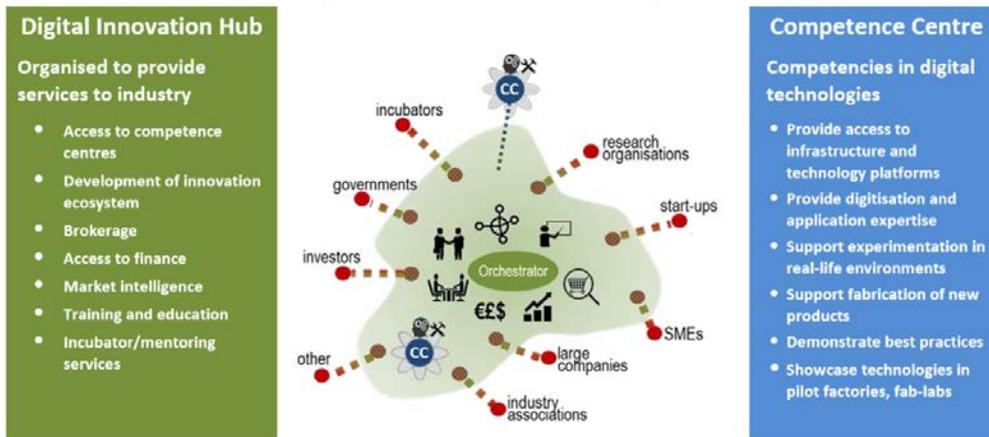
Source: DEI Working Group 1, 2017

Source: DEI Brochure, 2018



Key elements and services of a Digital Innovation Hub

Figure 7: Competence Centres as an Element of Digital Innovation Hubs

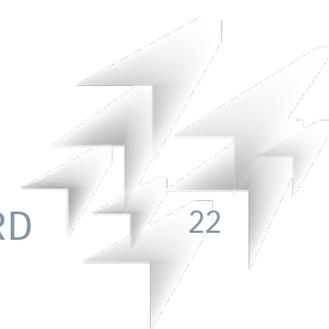


Digital Innovation Hubs Catalogue  
<https://s3platform.jrc.ec.europa.eu/digital-innovation-hubs-catalogue>



# ROADMAPPING QUESTIONS

- How to interlink InnoPeer AVM results with ongoing strategic initiatives supported by EU and / or national strategies?
- Which contributions can InnoPeer AVM concretely deliver for substantiation of S3 strategies of CE countries ?
- Steps towards a more effective integration of Central Europe into EU-level strategies for the digitalisation of industry ?



# INNOPEER AVM - MAIN PROJECT RESULTS

The newly developed AVM qualification standard (up to "InnoPeer AVM certificate") will be implemented in Central Europe and rolled out across EU ensuring a demand-oriented qualification upgrade of innovation managers in regional companies and enabling them to get involved in innovative AVM-based value chains.

CE enterprises, esp. SME, will have improved capacities and managerial competences to implement innovative AVM processes and to handle their technological, organisational and strategic implications at company level and in peer-to-peer cooperation with their industrial cooperation partners - Innovation managers from regional companies, innovation agencies, researchers and industrial cooperation partners will be interlinked across CE and with leading European regions in a peer-to-peer network in which further learning processes on AVM will be triggered by a mutual exchange of experience and good practice.

Students and young industry experts will perceive AVM-competences as a basis for their professional career and will find adequate employers offering qualified jobs in this field in CE enterprises.

The InnoPeer AVM Board will strengthen the awareness of international industry stakeholders and innovation policymakers regarding AVM-related competences and capacities in Central Europe at the transnational and EU level.



# INNOPEER AVM - STRATEGIC FRAME

## EU STRATEGIES ON DIGITALISATION OF INDUSTRY

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Central European Strategy Perspective 2030

MEGATRENDS IN DIGITALISATION

I4.0 Technologies / Functioning of Markets

IMPACT ON CE COMPANIES

# SUMMARY OF PARTNER INPUTS

## Group 1 (group facilitator PL)

- Actions should provide some overall knowledge to different companies so they know where to start, give orientation where their industry is going to
- Raising awareness in the target group of companies in transition
- Companies' long-term goals: ROI, successful business case, precise examples of business cases from CE companies are required -> use cases developed by InnoPeer AVM
- Motivating companies to upskill their staff



# SUMMARY OF PARTNER INPUTS

## Group 2 (group facilitator IT)

- Focus on what kind of skills should be spread
- To raise awareness that the the process of innovation/ change has no starting point and ending point - continuous change
- Focus on upskilling of change managers
- Change from product perspective to customer service focus
- Give practical examples / case studies
- Network basis with transnational aspects to enhance change management
- Becoming part of existing platforms and hubs to raise sustainability



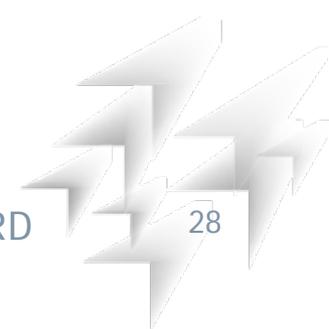
# SUMMARY OF PARTNER INPUTS

## Group 3 (group facilitator AT)

- 2 main target groups: companies & educational sector
- Labour market support organisations and their target groups as additional multiplier
- Raise appreciation towards offered trainings - free trainings plus for-charge advanced sessions to gain more respect?
- More specific trainings acc. company needs with specific topic-related advice which is not provided in the basic training, companies should choose their specific training path at the advanced level
- InnoPeer AVM offers different paths through selection of different modules
- Integration into existing courses of studies to open the focus - not as obligatory course but possibly as an elective course



# IMPRESSIONS OF PP DISCUSSIONS



# NEXT STEPS IN ROADMAPPING PROCESS

- Integration of partners' inputs into outline of transnational InnoPeer AVM roadmap
- 2nd Teleconference with Advisory Board before X-Mas
- On this basis:
  - > Final integration of relevant aspects into Regional Action Plans
  - > Development of Draft of Transnational Roadmap

