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Evaluation of innovation policy-mixes

Basque Country



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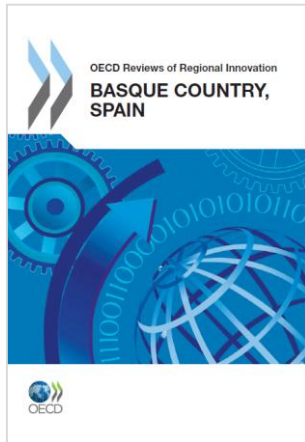
10th of July 2018

- I. Evolution of the evaluation system
- II. Towards evaluation at policy mix level

I. Evolution of the evaluation system

Evolution of the evaluation system: precedents

A series of external evaluations of the Basque Innovation System have highlighted the importance of improving the monitoring and evaluation of RDI strategies, policies and programmes.



*“The Basque government has made significant effort to understand its economy and the factors of competitiveness. However, it has not sufficiently built up data for **programme, policy and strategy evaluations**. This type of evaluation is a common weakness among OECD regions and member countries. However, given the large share of public funding (direct and indirect) of firm R&D, **such evaluations are particularly important in the Basque Country.**”*

Source: OECD - Evaluation of the Basque Innovation System (2011)



“The Basque government has not invested in evaluating the implementation of these strategies. We don't know exactly what works”.

Source: Kevin Morgan. Basque Country RIS3 Expert Assessment, 2013.

http://caa.elpais.com/caa/2013/10/11/paisvasco/1381519735_000587.html

Evolution of the evaluation system: Euskadi 2020 Science, Technology and Innovation Plan (STIP)

Current monitoring and evaluation system (I)



1. Strategy's monitoring and follow-up (STIP)

How do objectives evolve?

2. Evaluation of RDI programmes' contribution to the strategy

3. Evaluation of science, technology and innovation organisations

How do they contribute to objectives?

4. Comparative assessment of the Basque Country

Are the objectives still suitable?

http://www.euskadi.eus/contenidos/informacion/pcti_euskadi_2020/es_def/adjuntos/pcti_libro_en.pdf

<https://ec.europa.eu/growth/tools-databases/regional-innovation-monitor/policy-document/science-technology-and-innovation-plan-pcti-euskadi-2020>

Evolution of the evaluation system: Euskadi 2020 Science, Technology and Innovation Plan (STIP)

Current monitoring and evaluation system (II)

	Strategy's monitoring and follow-up	Contribution of RDI programmes and STI organisations	Comparative assessment of the Basque Country
	How do objectives evolve ?	How do they contribute to objectives?	Are the objectives still suitable ?
2016			
2017			
2018			
2019			
2020			

An ex-post evaluation will be also conducted after 2020

Evolution of the evaluation system: Strategy's monitoring and follow-up

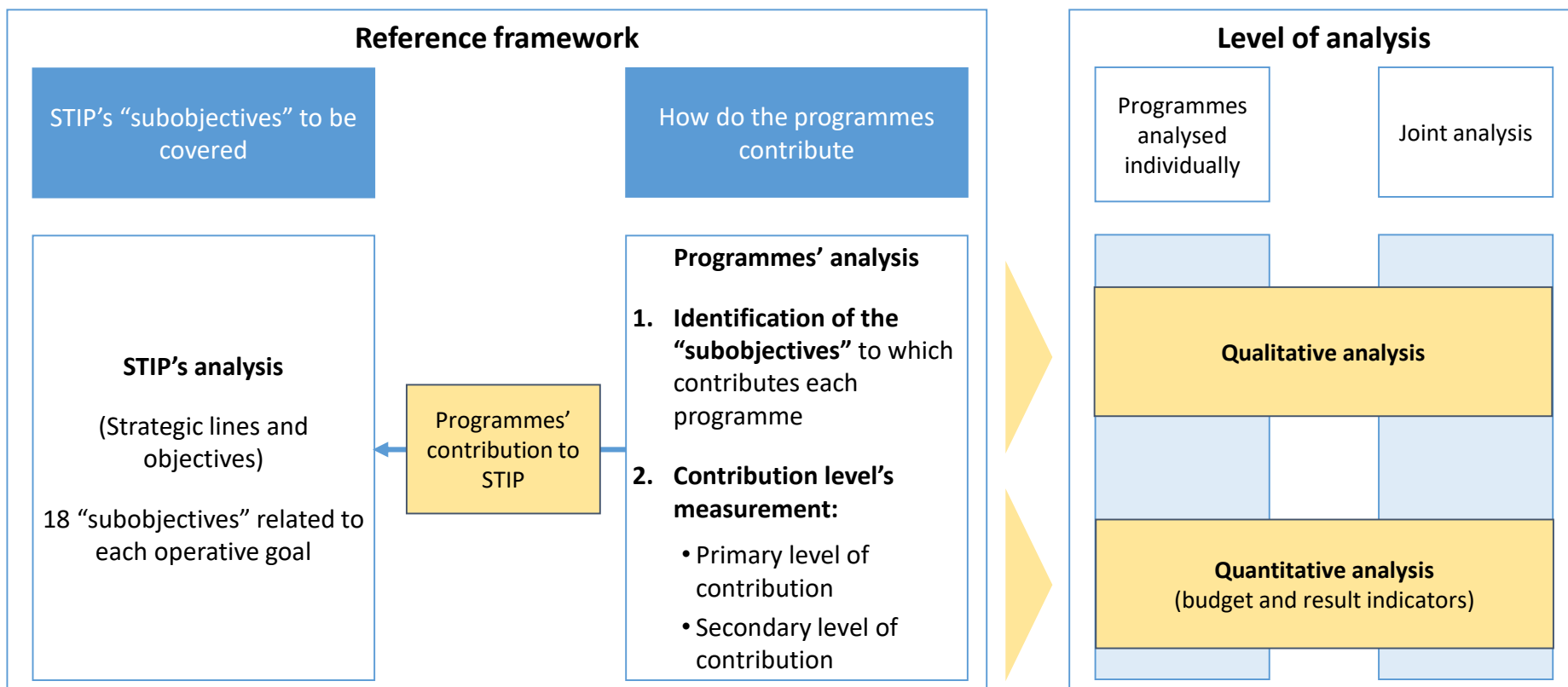
The annual tracking report describes an evolution based on quantitative data, as well as descriptive information, in order to measure the level of compliance with the targets.

2020 STIP Element	Content	Source
Operational goals (6)	Monitoring of the 12 indicators and level of compliance with the targets	Basque Institute of Statistics (Eustat), EPO, Basque Science Foundation (Ikerbasque), Innobasque and others
Instruments:		
<ul style="list-style-type: none"> STI organisations (Basque Science, Technology and Innovation Network) 	Level of compliance with the planned financial structure by type of organisation	Basque Institute of Statistics (Eustat) and Basque Government's departments
<ul style="list-style-type: none"> Programmes 	Level of compliance with the planned calls	Basque Government's departments
Governance model		
<ul style="list-style-type: none"> Multi-level governance model 	Description of the work carried out	Technical secretariat (Innobasque)
<ul style="list-style-type: none"> RIS3 living process 	Description of the work carried out	Technical secretariat (Innobasque)
Monitoring and Evaluation	Description of the work carried out	Technical secretariat (Innobasque)
Leveraged expenditure		
<ul style="list-style-type: none"> Basque Government's budgets 	Level of compliance	Department of Finance
<ul style="list-style-type: none"> Expenditure in R&D by origin of funds 	Level of compliance	Basque Institute of Statistics (Eustat)

Evolution of the evaluation system: Contribution of RDI programmes and STI organisations

OBJECTIVE: Analyse if all objectives of STIP are properly covered and identify potential gaps.

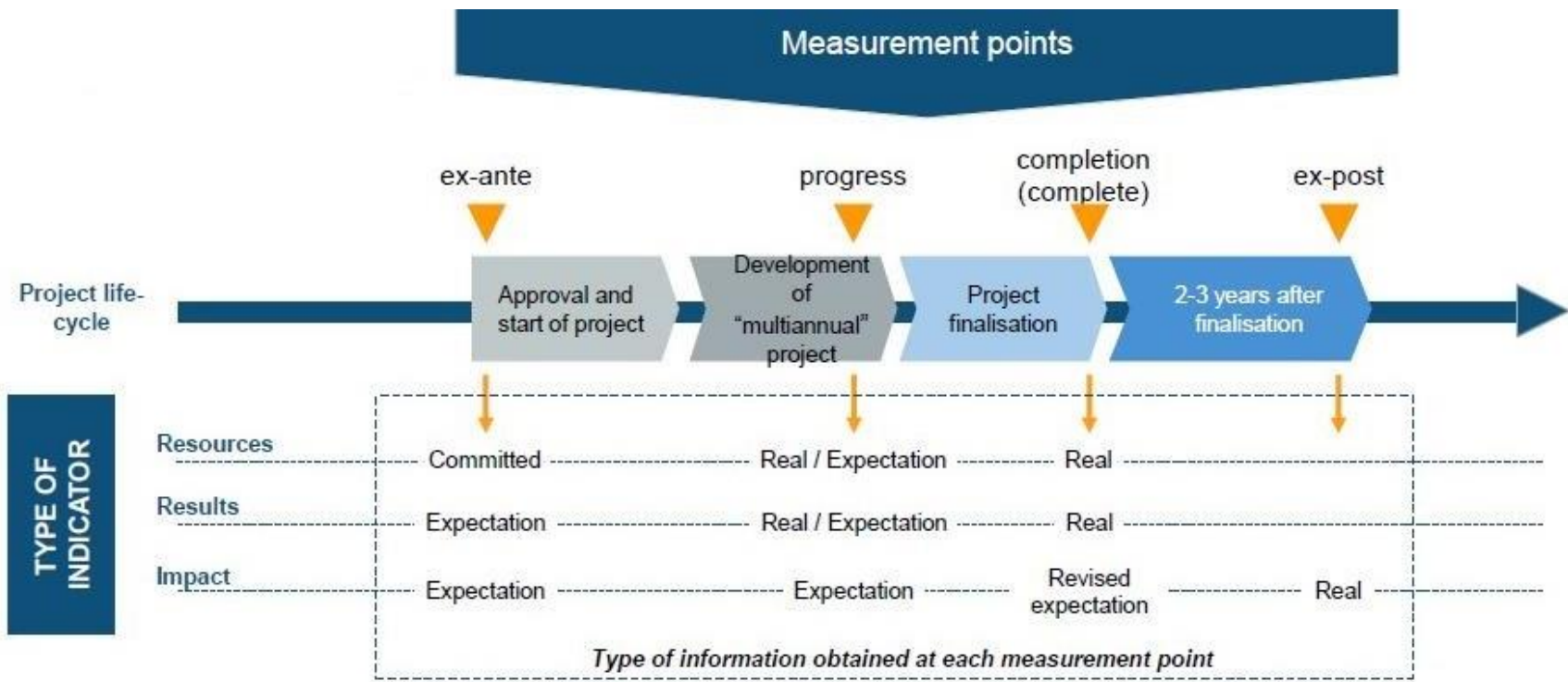
The followed methodology consists on analysing the individual contribution of a representative sample of RDI programmes first, and then, analysing the joint contribution using both qualitative and quantitative data.



Evolution of the evaluation system: Contribution of RDI programmes and STI organisations

In addition, the Department of Economic Development and Infrastructures has a **Monitoring and Evaluation System (SIME)**, implemented by its **Business Development Agency (SPRI)**, that measures the complete cycle of the main business-oriented R&D programmes of the Basque Government (including Hazitek).

It displays the programmes' resources, results and impacts.

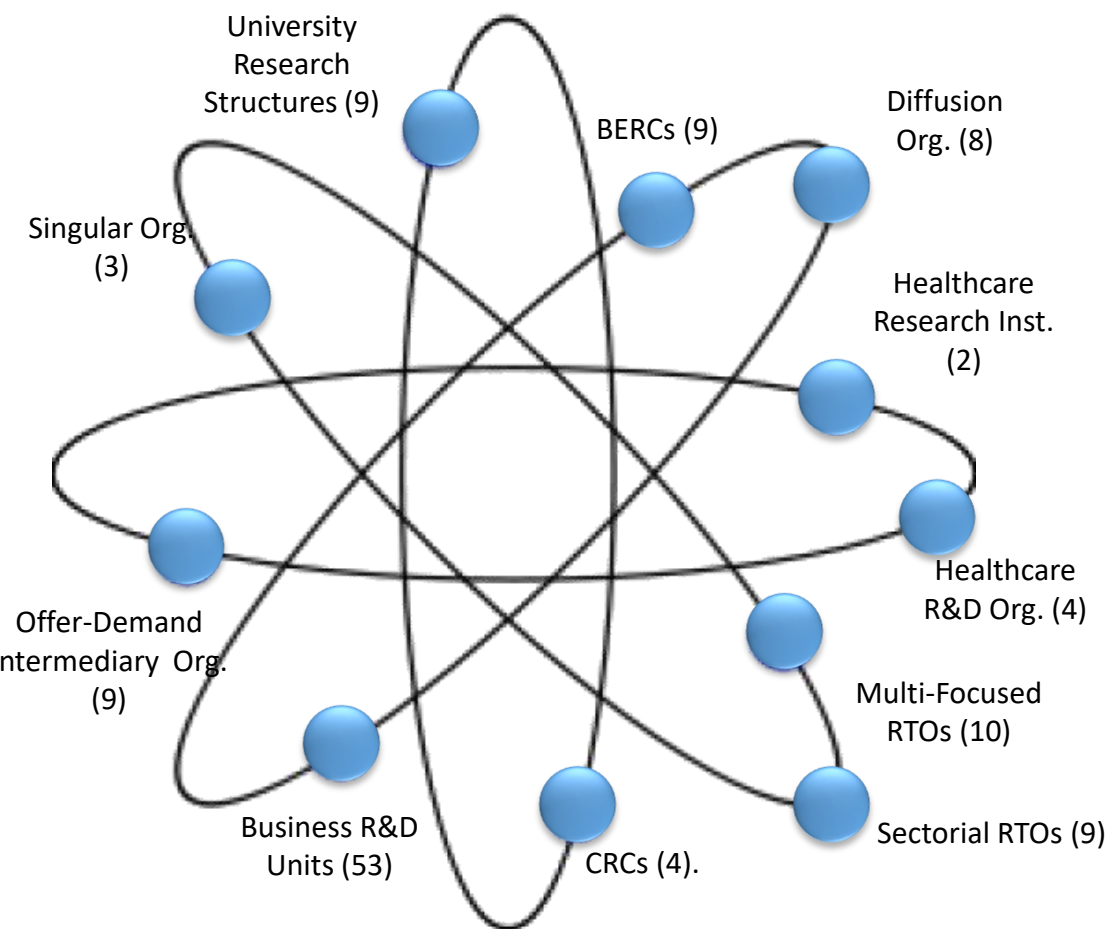


Evolution of the evaluation system: Contribution of RDI programmes and STI organisations

Basque Science, Technology and Innovation Network

120 organisations within 11 categories

Organisation Categories



Definition of each category

Governance Framework

Finance structure

Current situation (2011)

2020

Cooperative Research Centers

Objective: *What?*

- Carry out **market-oriented collaborative research** with RVCTI companies and agents;
- specialise in **some of the scientific and technological areas which are strategic** for the Country; and
- concentrate on **basic research excellence** activities but **encompassing the entire R&D value chain**, including the commercial exploitation of results of investigation.

Mission: *For what purpose?*

Make Euskadi a European reference and landmark in terms of knowledge in the areas of strategic science and technology, favouring the development of emerging industries and the incorporation of generic-use technologies in traditional industries for the **diversification and improvement of competitiveness** of the CAPV business environment.

CICs should act based on **commitment to collaboration and co-ordination** with other agents to **optimise the existing capacities of CAPV** and together **shape an integral scientific-technological offer par excellence**, that will drive the evolution of the Basque economy, increasing its added value.

Evolution of the evaluation system: Contribution of RDI programmes and STI organisations

CHALLENGE: How to link science, technology and innovation policy targets with the management of the network's organisations.

AXES		INDICATORS
1. Proximity to the market		<ul style="list-style-type: none"> Mix of R&D activity (%Fundamental/%Industrial/Experimental Development)
2. Specialisation		<ul style="list-style-type: none"> Percentage of R&D activity in each RIS3 area
3. Excellence	Fundamental Research	<ul style="list-style-type: none"> Indexed scientific publications Scientific publications in the first quartile (Q1)
	Industrial Research	<ul style="list-style-type: none"> Applications for EPO and PCT patents Income from patents and licences
	Experimental Development	<ul style="list-style-type: none"> Turnover origination from spin-offs Impact on companies turnover
4. Relationship Model	Transference to the market	<ul style="list-style-type: none"> % private finance in the Basque Country % total private finance Researchers transferred to Basque companies
	Collaboration between other members of the network	<ul style="list-style-type: none"> Co-direction of PhDs Co-publications Co-invention of patents
	International collaboration	<ul style="list-style-type: none"> % of international public funds % of international projects with Basque companies in the partnership

Evolution of the evaluation system: Comparative assessment of the Basque Country

OBJECTIVE: Assess the Basque Country's performance in science, technology and innovation in comparison to EU countries and regions.

As a consequence of this context analysis, changes in STIP targets might be considered.

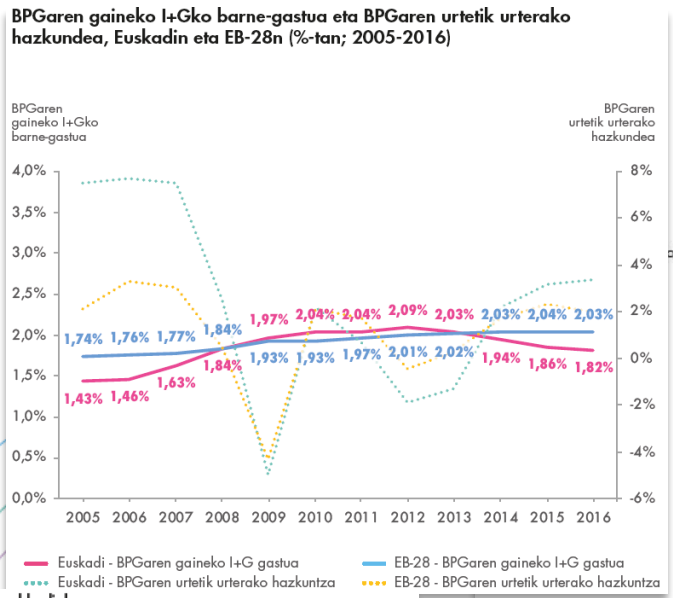
Sections	Content
International position of the Basque Country in RDI	Innovation performance of the Basque Country compared with other regions and countries of reference, based on RIS and EIS
R&D activity	
• Resources (inputs) of GERD (total)	Evolution and comparative analysis of R&D expenditure and personnel
• Resources (inputs) of BERD (business)	Analysis of business R&D and its distribution by sectors, size, etc.
Innovation activities	
• Resources (inputs)	Evolution and comparative analysis of expenditure on technological innovation
• Innovative companies	Share of innovative companies and analysis by type of innovation, company size, etc.
RDI results and outcomes	
• Scientific and technological outputs	Quantity and quality of scientific publications, patent applications, etc.
• Business and economic outcomes	Revenues from product innovations, exports of high-tech products, etc.
Perception of the Basque Innovation System (BIP)	Perception of 250 experts from companies, STI organisations, public administrations and the third sector about the current situation and future evolution of the Basque RDI

Evolution of the evaluation system: Comparative assessment of the Basque Country

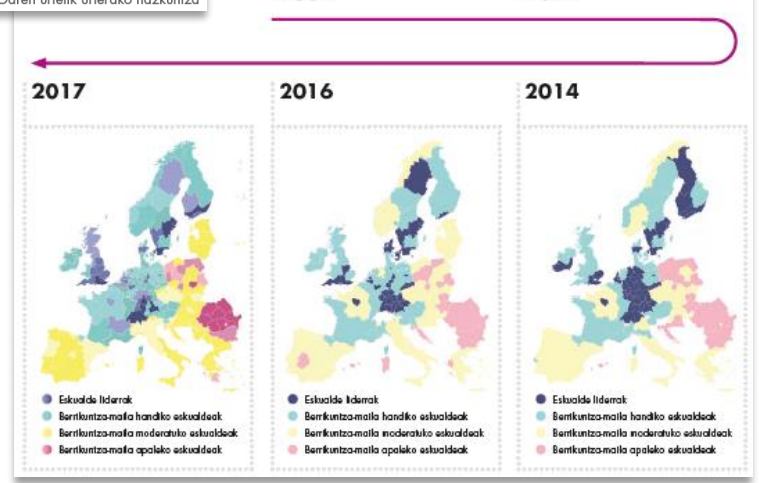
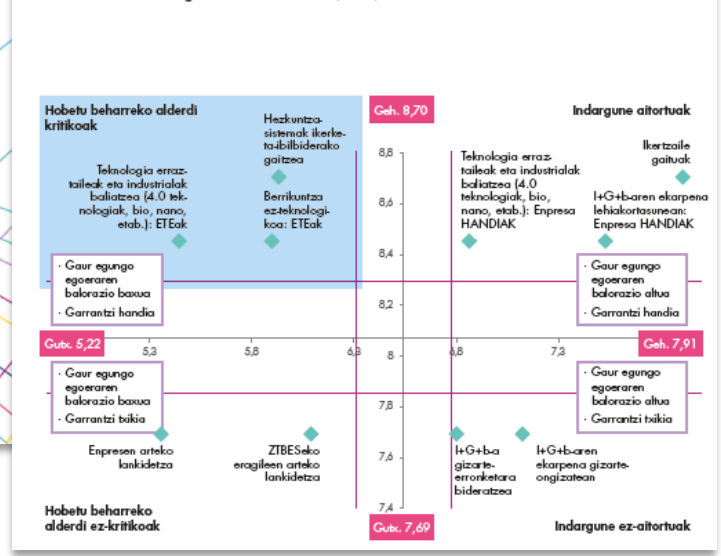
Innobasque
berturizaren agentzia / agencia vasca de la innovación

Innobasque Berrikuntza Txostena 2018
Laburpen exekutiboa

Euskadiko bilakaera konparatua



ZTBESen indarguneak eta hobetu beharreko alderdiak, aditu-taldearentzat duten garrantziaren arabera (2018)



II. Towards evaluation at policy mix level

II. Towards evaluation at policy mix level

Main action lines to be developed throughout 2019 and 2020

Strengthen
programmes'
individual
evaluation
system

- Develop general guidelines to individually evaluate programmes
 - Methodologies of evaluation and monitoring
 - Minimum set of indicators to be used
 - Incorporation of evaluation criteria during the design and regulatory development of the programmes

Work on
evaluation at
policy mix
level

- Systematise the measurement of the contribution of a set of RDI programmes related to advanced manufacturing to the STI policy and the industrial policy
 - Define the data gathering system
 - Define the indicators at strategy level and at joint level
 - Work on data visualisation
- Systematise the analysis of complementarities and overlaps of advanced manufacturing programmes following a joint logic of intervention
 - Make the individual logic of intervention explicit
 - Understand the joint logic of intervention
 - Select suitable evaluation methodologies
 - Establish an evaluation calendar and a governance model



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