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Interreg Europe

European Union
European Regional
Development Fund

3rd LEARNING JOURNEY
Monitoring and indicators

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Outline

Design of monitoring system, gathering and data analysis

- **Design of the monitoring system**
  - The logic process
  - Indicators in Piedmont S3
- **Data gathering and analysis**
  - IR2 – Industrialisation of research results
  - Fabbrica Intelligente (Technology Platform)
  - Poli d'innovazione (innovation clusters)
  - ERANETS and MPMI

Put the bases for a monitoring system

CONTEXT	Have clear the profile of the Region and the context
FOCUS	Set the focus on your area of interest (focus your strategy)
CHANGE	Define the change that you aim to introduce (general, specific)
VARIABLES	Identify the variables that will represent the change (indicators)
ANALYSE	Analyse progressively (and measure) the distance from the expected changes and what really happened
REVISE	Indicate how the strategy should be revised. Indicate the elements that attribute the results to the regional context (endogenous/exogenous factors) or to the action effectiveness.

Example from Piedmont

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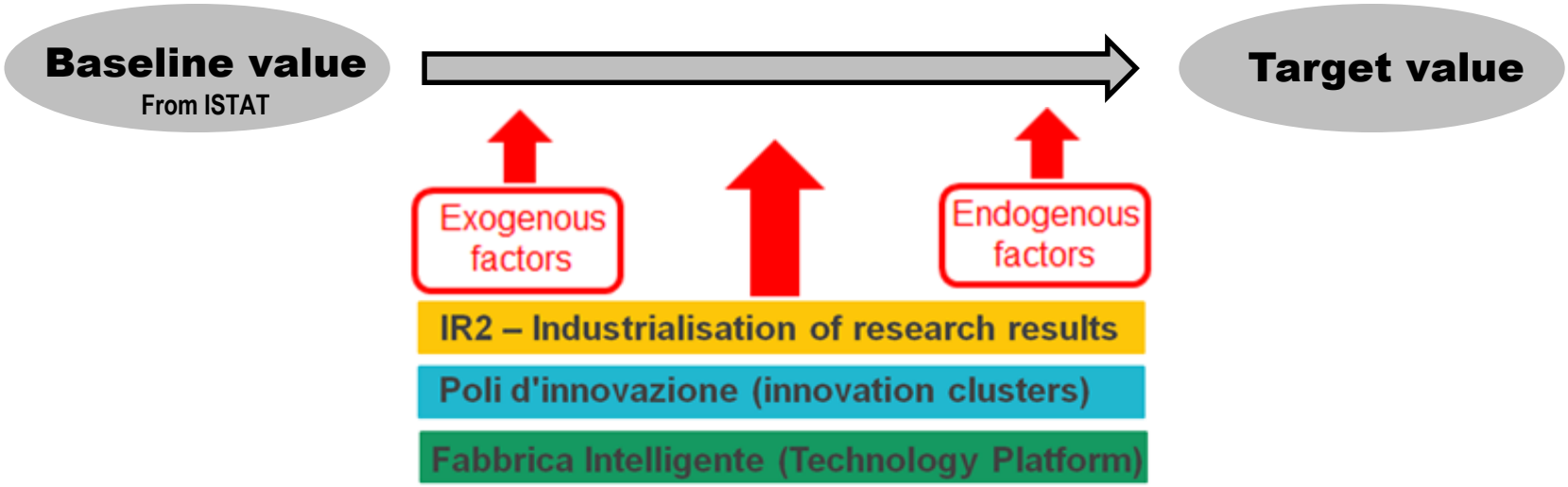
CONTEXT	Context Analysis for S3 and lessons learnt from previous programming
FOCUS	R&D/Innovation (one of the 5 EU2020 Strategic Objectives)
CHANGE	➢ Stronger productive system and new entrepreneurship ➢ More attractive innovation ecosystem ➢ Wellbeing for citizens and facing demographic change **S3 Innovation Areas**
VARIABLES	Increase of investments in R&D/Innovation
ANALYSE	✓ **STRATEGY indicators** (3 out of 7 relevant for AM policy mix) ✓ **SECTOR indicators** ✓ **RESULTS indicators** + **OUTPUT indicators** Quantitative/qualitative analysis (implementation, effectiveness)
REVISE	Process for the revision/updating of S3

Strategy Indicators (applicable to AM)

S3 INNOVATION AREAS	STRATEGY INDICATORS	DEFINITION AND SOURCE
STRONGER PRODUCTIVE SYSTEM AND NEW ENTREPRENEURSHIP	Researchers employed in enterprises on the total of employees	Number of researchers on total employee (%) *Source: Istat – National Statistics Institute*
	Capacity to export	Value of export on GNP (%) *Source: Istat – National Statistics Institute*
MORE ATTRACTIVE INNOVATION ECOSYSTEM	Intensitivity in Patenting	Number of registered patents at EPO per million of inhabitants *Source: Istat – National Statistics Institute*



Sector Indicators (applicable to AM)

Aimed to classify the sectors of economic activity according to their capacity to generate industrial innovation.

They provide further evidence regarding the possible effects of the Strategy on regional economic dynamics and pave the way to possible modifications to the S3 areas:

SECTOR INDICATORS
Number of employees
Number of local units
Specialization index (measuring the propensity to export)

AEROSPACE, AUTOMOTIVE, GREEN CHEMISTRY, MECHATRONICS, MADE IN

Annual survey on the sectors currently qualified as innovative (**industrial innovator sectors**)

Deferred analysis (three years) on the whole of the regional productive structure

Comparison of performances among sectors, to suggest possible changes in the areas of specialization.

Result and output indicators

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RESULT INDICATOR	POLICY MIX	OUTPUT INDICATOR	S3
Companies that have carried out R&D activities in collaboration with external organisations, out of the total of companies that do R&D (%) Source: Istat	IR2	N. companies that receive support	Increase of investments in R&D/Innovation
		N. of companies supported to introduce new products that are new to the market	
		N. beneficiaries supported to introduce products that are new to the company	
	INNOVATION CLUSTERS	N. companies that receive support	
		N. of companies that cooperate with research institutes	
		Private investments combined with public support for R & D projects and innovation	
Incidence of total R & D expenditure on GDP (%) Source: Istat	TECHNOLOGY PLATFORMS	Employment growth in companies receiving support	
		N. companies that receive support	
		N. of companies that cooperate with research institutes	
		Private investments combined with public support for R & D projects and innovation	

Baseline value
From ISTAT

Target value

Poli d'innovazione (innovation clusters)

ERANET projects (MANUNET)

Innovazione MPMI

EX-POST
Evaluation
(based on previous programming period 2007-2013)

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Data gathering and data analysis

Dare indicazioni su come vengono raccolti e analizzati gli indicatori di strategia, di Settore, di risultato e di output.

I dati del rapporto di innesco a quali indicatori si legano (strategia, risultato output…)?

Specificare per ogni misura la parte relativa al data analysis (come viene in concreto effettuata l'analisi indicata nella methodology)

IR2 – Industrialisation of research results

Objective:

- ❖ *Understanding which sectors is affected by the project and which type of companies are involved*

When: in-itinere, while the funding measure is running

Data sources:

- Information and administrative documents collected through the measure managers (e.g. Finpiemonte)
- Data from official statistical databanks
- Information collected from beneficiaries through interviews

Methodology: Implementation analysis + Study of cases.

IR2 – Industrialisation of research results

Objective:

- ❖ *Verifying the successful completion of the project, its anchorage to the territory with the planned industrial investments and its impacts.*

When: at the end of the funding measure (ex-post)

Data sources:

- Information and administrative documents collected through the measure managers (e.g. Finpiemonte)
- Data from official statistical databanks
- Information collected from beneficiaries through interviews (preferably web based) and ad-hoc surveys

Methodology: qualitative-quantitative techniques (possibly counterfactual methods, qualitative analysis)

Fabbrica Intelligente (Technology Platform)

Objective:

❖ *Verifying the main aspects of the process and the results achieved (application presented/ admitted/ rejected, number of projects realized, typology of projects realized)*

When: in-itinere, while the funding measure is running

Data sources:

- Information and administrative documents collected through the measure managers (e.g. Finpiemonte)
- Data from official statistical databanks
- Information collected from beneficiaries through interviews and ad-hoc surveys

Methodology: Process analysis , qualitative techniques and case studies

Fabbrica Intelligente (Technology Platform)

Objective:

❖ *Verifying the effects (the difference between what is observed at the end of the funding measure and what would be observed in its absence*

When: at the end of the funding measure (ex-post)

Data sources:

- *Information and administrative documents collected through the measure managers (e.g. Finpiemonte)*
- *Data from official statistical databanks*
- *Information collected from beneficiaries through interviews and ad-hoc surveys*

Methodology: Controfactual analysis + Beneficiary survey (due to the small number of large projects) + case studies

Poli d'innovazione (innovation clusters) 2014/20

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Objective:
❖ *Verifying the measure working progress with particular attention to beneficiaries and projects presented*

When: in-itinere, while the funding measure is running

Data sources:
- Information and administrative documents collected through the measure managers (Piemonte Region, Finpiemonte, Innovation clusters)
- Data from official internal and external (statistical) databanks

Methodology: implementation analysis

Poli d'innovazione (innovation clusters)

ERANET projects (MANUNET)

Innovazione MPMI

EX-POST
Evaluation

(based on previous programming period 2007-2013)

Poli d'innovazione (innovation clusters) 2007/13

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Objective:

❖ ***Accountability****: give back an information heritage on what has been done*

Data sources:

- Data from official internal and external databanks
- Information collected from beneficiaries through interviews and ad-hoc surveys

Methodology: Case study analysis + Analysis of results without qualitative evaluation + Quantitative methodologies (study on the networks + counterfactual analysis and spatial descriptive statistics) + impact evaluation

ERANET projects (MANUNET)

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Objective:

❖*Evaluation on effectiveness, impact and "administrative quality" of funding measures incentivising innovation in SMEs*

Data sources:

On line platform with questionnaire including:

- A specific section dedicated to beneficiaries
- A section dedicated to both beneficiaries and SMEs from a reference sample

Methodology: Qualitative analysis + comparative analysis on performances and attitude to innovation

Innovazione MPMI

Objective:

- *Evaluating impact of funding measures on turnover, investments, labour productivity and occupation*

Data sources:

- Information and administrative documents collected through the measure managers (e.g. Finpiemonte)
- Data from official statistical databanks (Aida and Istat Asia)

Methodology: Quantitative counterfactual analysis on the results of the previous programming (2007-2013)

Data Analysis

The impact assessment requires to compare the turnover, investment, employment and labor productivity etc in companies financed (beneficiaries) with the same variables that would have been produced in the same period in companies non financed (non beneficiaries).