

# *Smart Specialisation in Portugal: Reflection and update*

Faro - 17<sup>th</sup> May, 2019

## **The challenge of national coordination of regional S3s: insights from the Italian experience**

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# Smart Specialisation in Italy: regional and national dimension



## 1 National S3

- 5 thematic areas
- Integration of Funds
- PON R&I – I&C
- Strategic Plans (FSC)



## 21 Regional S3s

- 5 Less Developed - GDP < 75% EU27 avg
- 3 In Transition - 75% ≤ GDP < 90% EU27 avg
- 13 More Developed - GDP > 90% EU27 avg

A heterogeneous picture of how each of the Regions defined their S3.

Different objectives, timing, approaches

# The 21 regional S3s

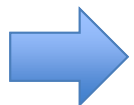
- Regions are characterized by different:
  - levels of administrative abilities;
  - implementation structures;
  - levels of experience in managing and monitoring R&I policies.
- Regional S3s were approved with different timing (from 2014 to 2017)
  - different stages
  - different needs
- Each Italian Region has its own monitoring system following EC Regulation
  - different skills and monitoring capabilities;
  - variety of methods and indicators;
  - different degrees of stakeholder engagement in S3 monitoring.

# National Co-ordination Challenges

**Governance:** we need a **national vision** on what is happening at territorial level

We conducted a Survey (June 2016): asking **the critical items** on which Regions would like to receive support.

- Providing comparable information across regions by priority area;
- Supporting the monitoring and implementation of S3s through capacity building initiatives;
- Providing a space for peer-exchange and sharing experiences between regions.



**National coordination activities**

# National coordination of regional S3s monitoring

- The Monitoring Unit of the Agency for Territorial Cohesion gives methodological support to regions for S3 monitoring
- Developed a monitoring system at central level containing information on the 21 regional S3s :
  - calls (in coherence with S3s);
  - aspects of governance and the roles of stakeholders;
  - priority areas and developments paths;
  - strategy and project indicators;
  - budgetary frameworks.
- Availability of **information comparable across regions by priority area:**



National Agency for Territorial Cohesion and State General Account Department (IGRUE) launched an activity with regions: **Identifying S3 projects in the National Monitoring System (NMS)**

# Identifying S3 projects in the National Monitoring System

## *Harmonizing priorities across the regions*

Agreement with State General Account Department (IGRUE) to:

- identify the projects contributing to regional and national strategies **by priority** (projects financed by national and European cohesion policies).

### Challenges:

- Not required at EU level
- An intermediate level of the monitoring process: to avoid further burdens
- **Large heterogeneity: more than 80 priorities in regional S3s.**



### ➡ Needed a harmonization proposal

- The Monitoring Unit of the National Agency for Territorial Cohesion guided Regions to define a model to trace back their **84 priority areas** to a unique taxonomy, to allow comparison and a shared codification of the regional choices.
- It was intended to trace back the regional priorities to the **12 areas** selected by the National Research Plan 2015-2020.

# 12 areas selected by the National Research Plan 2015-2020



# Harmonizing priority areas across the regions

- 1 Feb 2018: Proposal shared and discussed with regions;
- 1 Feb-July 2018: we worked with regions and IGRUE to link regional priorities and their development paths with the 12 areas;
- July 2018 : Defined a Context Table required by NMS;
- 31 October 2018: a joint operational note was sent to regions to give indications on inserting and tracking each project in National Monitoring System distinguishing National from Regional S3s.



# Context Table required by NMS (regional S3s)

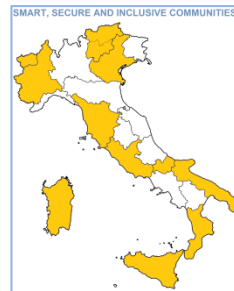
Codice raggruppamento	Descrizione Raggruppamento	Codice Classificazione	Descrizione Classificazione
SR_01	Strategia Regionale - Aerospazio	S 01_regione1_01	<i>traiettoria di sviluppo 1</i>
		S 01_regione1_02	<i>traiettoria di sviluppo 2</i>
		S 01_regione1_03	<i>traiettoria di sviluppo 3</i>
		S 01_regione2_01	<i>traiettoria di sviluppo 4</i>
		S 01_regione2_02	<i>traiettoria di sviluppo 5</i>
		S 01_regione2_03	<i>traiettoria di sviluppo 6</i>
		S 01_regione2_04	<i>traiettoria di sviluppo 7</i>
		S 01_regione2_05	<i>traiettoria di sviluppo 8</i>
		S 01_regione3_01	<i>traiettoria di sviluppo 9</i>
		S 01_regione3_02	<i>traiettoria di sviluppo 10</i>
		S 01_regione3_03	<i>traiettoria di sviluppo 11</i>
		S 01_regione3_04	<i>traiettoria di sviluppo 12</i>
		S 01_regione3_05	<i>traiettoria di sviluppo 13</i>
		S 01_regione..._01	<i>traiettoria di sviluppo n</i>
SR_02	Strategia Regionale - Agrifood	.....	.....
		S 02_regione..._01	.....
SR_03	Strategia Regionale - Blue Growth	S 02_regione..._02	.....
SR_04	Strategia Regionale - Chimica Verde	S 03_regione..._01	.....
SR_05	Strategia Regionale - Design, creatività e Made in Italy	.....	.....
SR_06	Strategia Regionale - Energia (e Ambiente)	.....	.....
SR_07	Strategia Regionale - Fabbrica Intelligente	.....	.....
SR_08	Strategia Regionale - Mobilità sostenibile	.....	.....
SR_09	Strategia Regionale -Salute	.....	.....
SR_10	Strategia Regionale -Smart, Secure and Inclusive Communities	.....	.....
SR_11	Strategia Regionale -Tecnologie per gli Ambienti di Vita	.....	.....
SR_12	Strategia Regionale - Tecnologie per il Patrimonio Culturale	.....	.....

# Identifying S3 projects in the National Monitoring System

- **All projects financed in TO1** (at least) must be inserted according to a development path.
- The priorities and the development paths must be updated **following a S3 revision process**.
- **Specific report on S3 implementation by priorities** will be provided to regions.
- The NMS provides information on **indicators by S3 priorities**

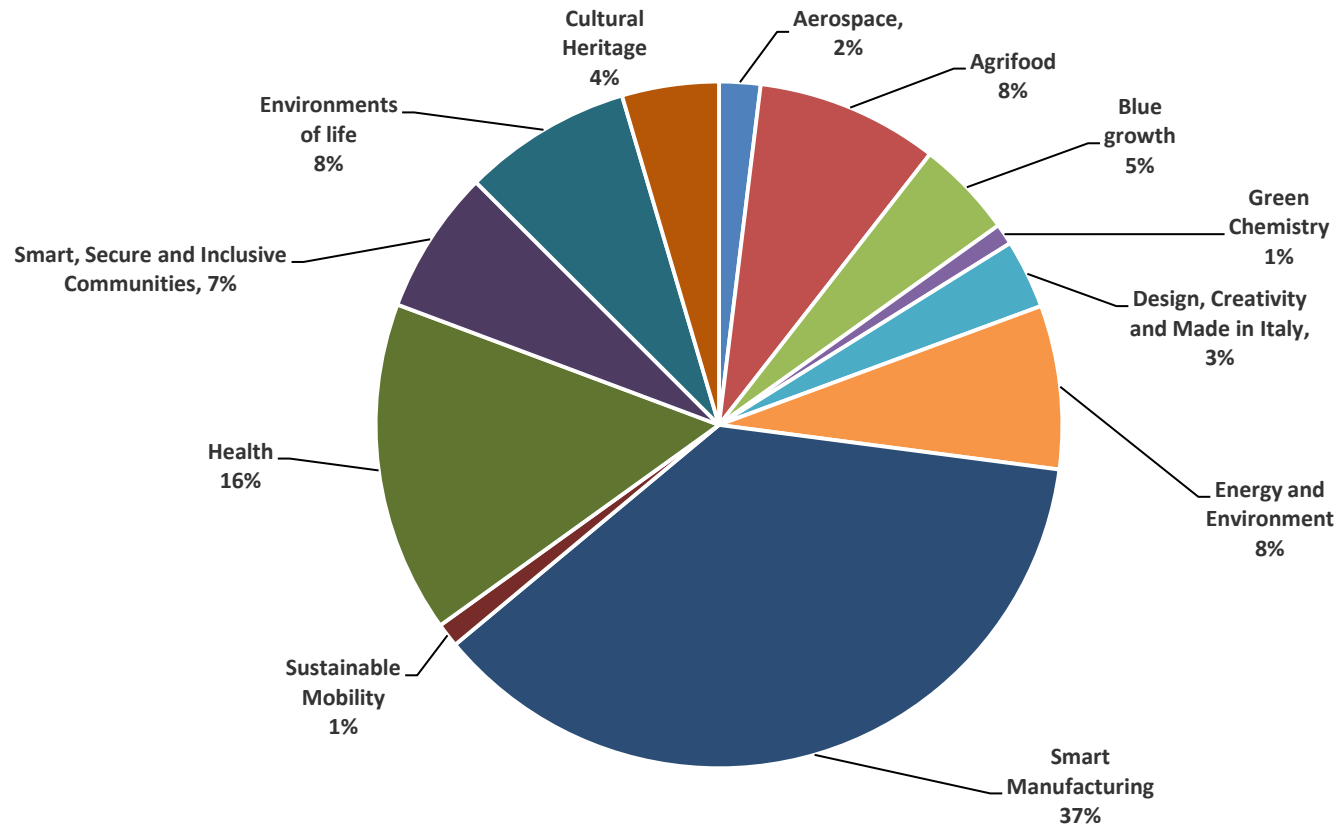
# The choices of Regions by priority

Agrifood	20
Health	19
Energy and Environment	18
Smart Manufacturing	18
Cultural Heritage	17
Environments of life	13
Green Chemistry	12
Design Creativity	12
Sustainable Mobility	12
Smart, Secure and Inclusive Communities	12
Aerospace	10
Blue Growth	5



# Projects financed by priority

(NMS 30/4/2019)



- As for each new monitoring system, a period of transition is necessary to work on the **quality of data** and provide reliable and meaningful information (e.g out of 8.000 TO1 projects financed by ROPs currently only 3000 are classified by priority);

# Identifying S3 projects in the National Monitoring System

The continuous insertion of projects in the NMS allows us to **gather comparable information** for:

1. **Integrated vision by priority** of the S3s implementation through the analysis of:

- financed projects by priority and by development paths;
- gap implementation programming.

2. **Sharing information with regions** supporting:

- **Monitoring and evaluation** activities;
- **Revision process**;
- **Cooperation between administrations and stakeholders**;
- **Comparison and benchmarking** with other Italian and European regions;
- Definition of **common indicators by priority**;
- **Synergies** with the national S3.

# How to measure performance towards the objectives of the S3?

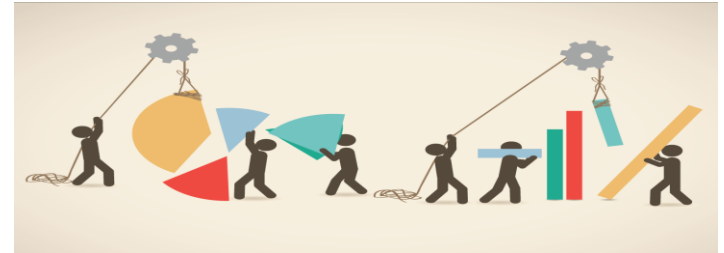
From the survey conducted in 2017:

- Evidence of regional involvement in territorial investigations and research to define **result indicators by priority area**;
- Diffusion of **platforms and thematic working groups** at regional level to **involve stakeholders** in monitoring activities;
- Need for common **result indicators by priority comparable across regions** for benchmarking purposes.

 **Methods and Statistics supporting S3** (Project on “Territorial Statistics” involving National Institute of Statistics)

National Operational Programme «Governance and Institutional Capability»

# “Methods and Statistics supporting S3 monitoring”



**Aim:** Identify **Strategy indicators by priority** correlated to the general goals in term of sustainable development defined in the S3s.

- Creation of a **technical working group** (National Agency and ISTAT) to define the most suitable **methodological approach to identify the enterprises to be included in each priority**;
- **Steering Committee** of external experts.

# Methods and Statistics supporting S3 monitoring

## The characteristics of the enterprises “classified as S3”

### S3 dimensions

#### Propensity to innovation

R&I  
Collaboration  
Technical & scientific skills  
Internationalisation

- Survey and Census on Business and R&I
- Specific section on S3 in the questionnaire of the ISTAT Business Census

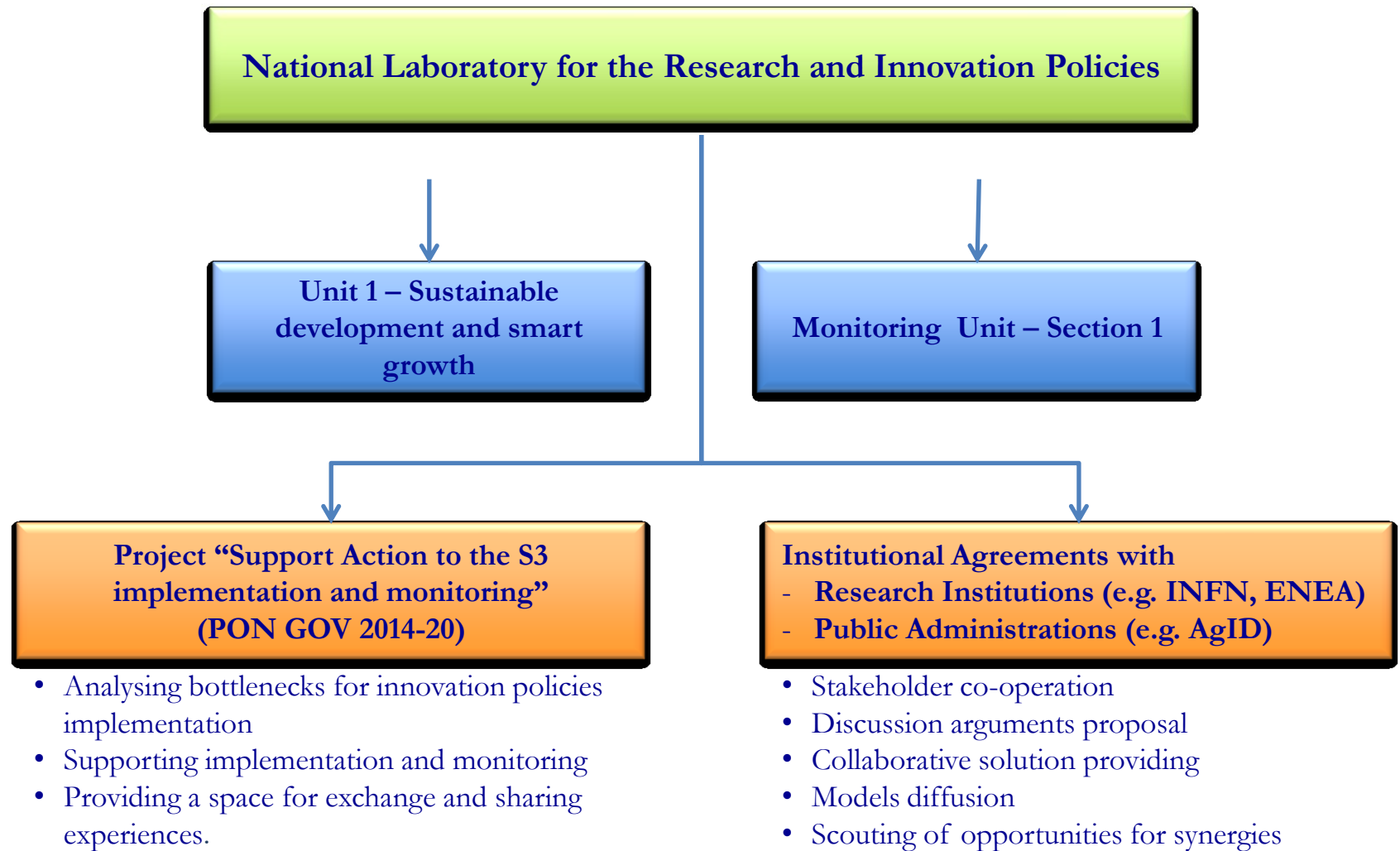
#### Priority areas



- NACE/ATECO economic activity classifications (patent classification);
- Specific section on S3;
- Semantic analysis (web scraping, text mining, etc)



# Supporting S3s implementation through capacity building initiatives



# Scouting regional needs through capacity building initiatives



## Laboratorio nazionale sulle Politiche di Ricerca e Innovazione Kick off meeting



Progetto a supporto all'attuazione e al monitoraggio della SNSI e delle RIS3



In collaborazione con:  Regione Emilia-Romagna

Con il supporto di:  ASTER  smau

### Governance and organizational models for R&I policies

7 June 2018

### Regional innovation systems internationalization

8 June 2018

### The implementation of S3s: the EDP and the involvement of actors of Regional Innovation Systems

24 October 2018

### The participation of SMEs in the implementation of S3s

25 October 2018

### Interregional and international collaboration: the role of National Technological Clusters

6 June 2019

### The functions and actors of S3s governance: reflections for 2021-2027 programming period

20 June 2019

# Final Considerations

- **Significant effort made by Regions:**
  - greater stakeholder involvement and closer attention to territorial contexts
  - Progress of expenditure in research and innovation.
- **Regions need taxonomies and guidance:** they must be free to make their strategic choices, but once they have made them, they need clear and standardized instruments and guidance to refer to.
- **Important challenges to deal with Monitoring and Evaluating S3s:**
  - The S3 is a “transition” strategy, so *Monitoring S3 means measuring what happens in a system that is changing.*
  - Being able to measure the relevant objectives in terms of structural changes;
  - Having effective methodologies available.
- **The future of Smart Specialisation in Italy:**
  - Long term investment useful for the next programming period



Thank you for your attention!

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