"Preparing for the next programming period (2021-27): Strengthening RIS3 Governance and the Entrepreneurial Discovery Process"

Chios – 28/29 November 2019

MTR of the Tuscany RIS3: a revised EDP approach towards the next programming period

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ERDF ROP Managing Authority Unit
Tuscany Region

Tuscany in brief

Population: **3.742.437 inhab.**

Area: **23.000 km²**

GDP per capita: **€ 29.466**

Registered companies: approximately **351.000** (ISTAT- 2017)

Around **95%** of companies have less than 10 employees (ISTAT- 2017)

Around **5%** of companies have less than 20 employees (ISTAT- 2017)
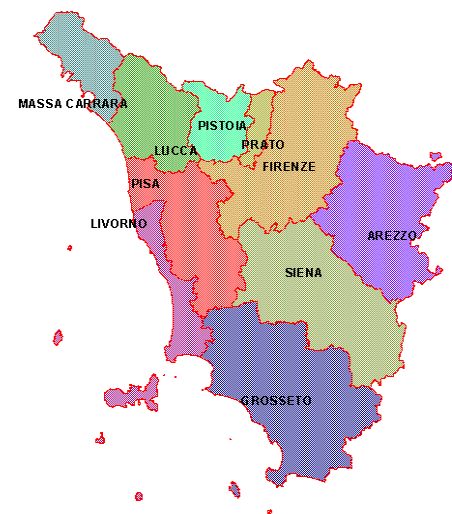
Manufacturing: over **32%** of regional workforce (ISTAT- 2017)

Employment rate   **69,9%**

Population with higher education: **10%**

R&D expenditure as a % of GDP: **1,36%** (40% from private sector)

University size: **150.000 students**.

Tuscany in brief: *the manufacturing system*

Fashion:
- Textile, Clothing,
- Shoes, Leather,
- Tanneries,
- Jewellery

Paper

Interiors:
- Marble, Furniture
- Furnishing

Shipbuilding
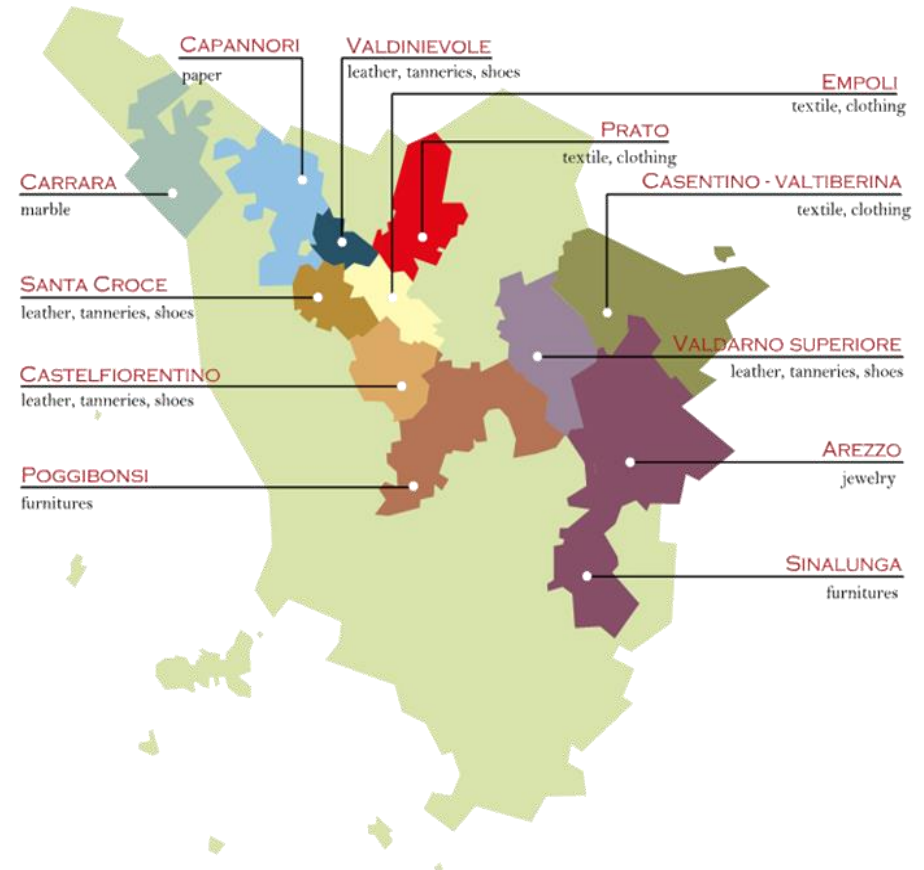
But also:

Photonics

Nanotech

Biorobotics

Pharmaceutical

Aumototive

CAPANNORI — paper
VALDINIEVOLE — leather, tanneries, shoes
EMPOLI — textile, clothing
PRATO — textile, clothing
CASENTINO - VALTIBERINA — textile, clothing
CARRARA — marble
SANTA CROCE — leather, tanneries, shoes
VALDARNO SUPERIORE — leather, tanneries, shoes
CASTELFIORENTINO — leather, tanneries, shoes
AREZZO — jewelry
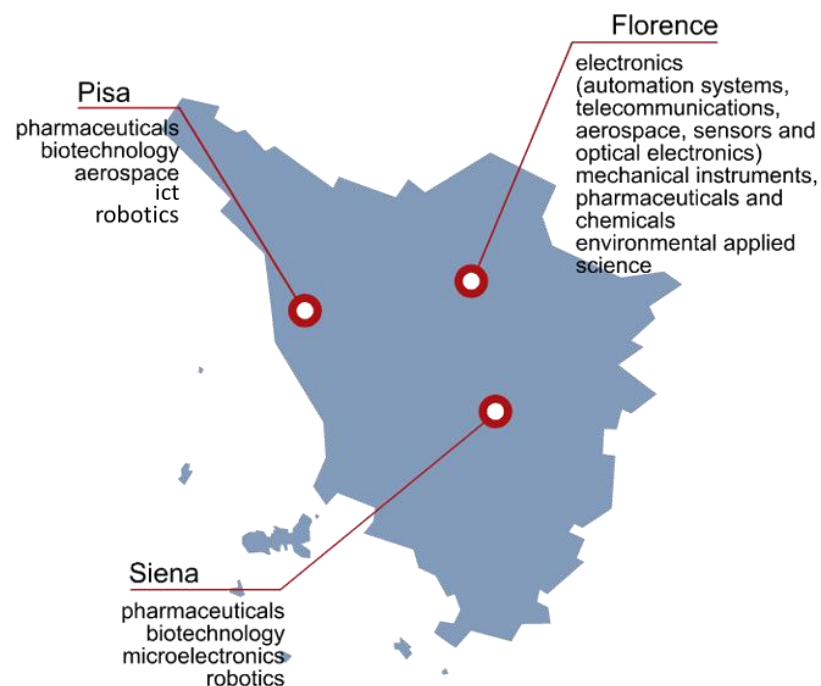POGGIBONSI — furnitures
SINALUNGA — furnitures

Tuscany in brief: good quality of R&D

University System (UNIFI,UNISI, UNIPI,
S.S. Normale, SSSA, IUE, IMT).

Most relevant **research centers**:
CNR (National Research Council);
INFN (Nuclear Physic National Institute);
CERM (Magnetic Resonance Research Centre);
LENS (European Laboratory for Non-Linear Spectroscopy);
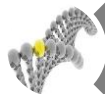EGO (European Gravitational Observatory).

Florence
electronics
(automation systems,
telecommunications,
aerospace, sensors and
optical electronics)
mechanical instruments,
pharmaceuticals and
chemicals
environmental applied
science

Pisa
pharmaceuticals
biotechnology
aerospace
ict
robotics

Siena
pharmaceuticals
biotechnology
microelectronics
robotics

Tuscany in brief: *Technological Districts*

- Fashion Technological District
- Life Science Technological District
- Stone Technological District
- Technological District for energy efficiency, renewable energies and green economy
- Technological Railway District, high-speed and rail network security
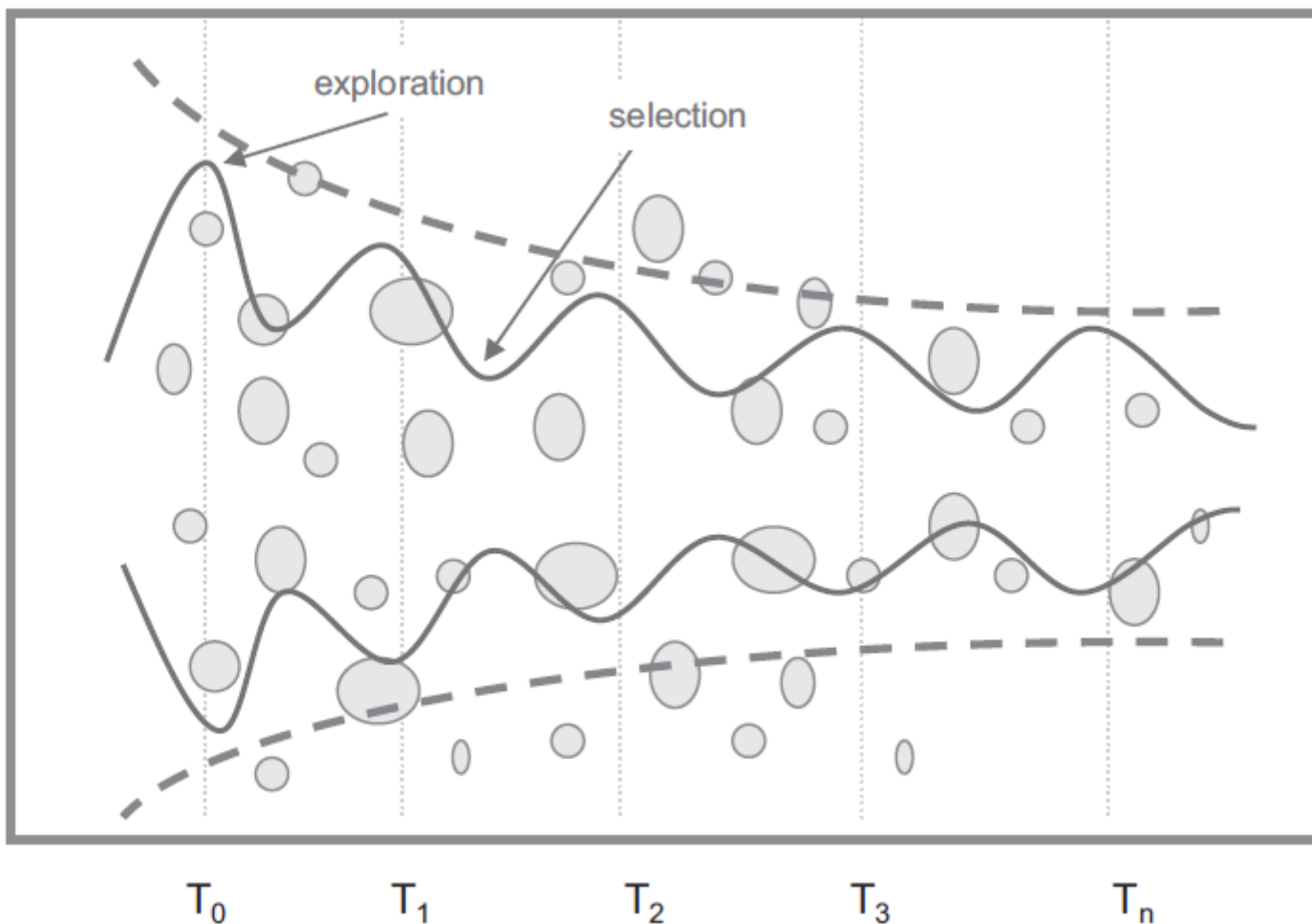- Technological District for Interior and Design
- Technological District for Shipbuilding
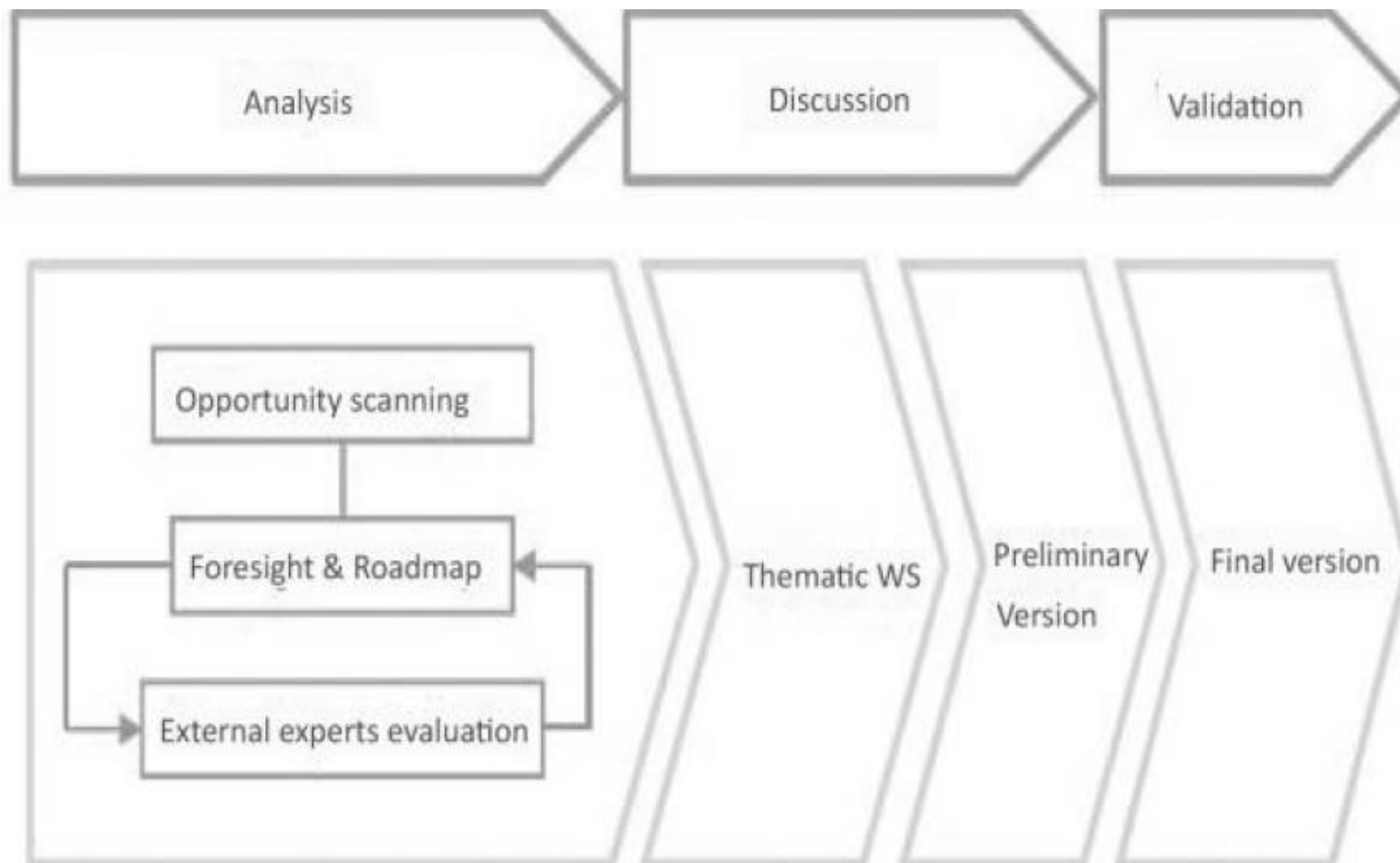- Technological District for Advanced Materials
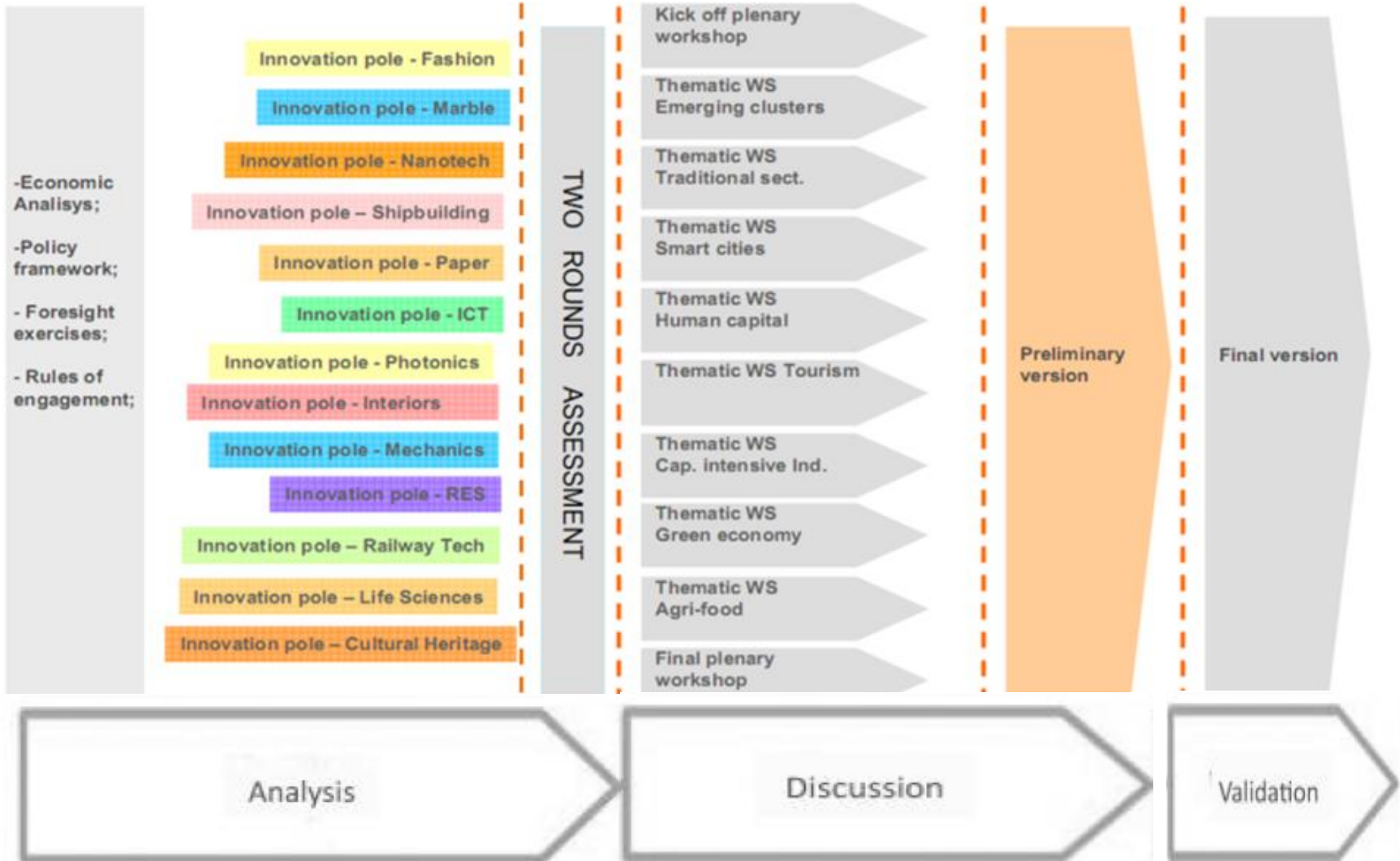
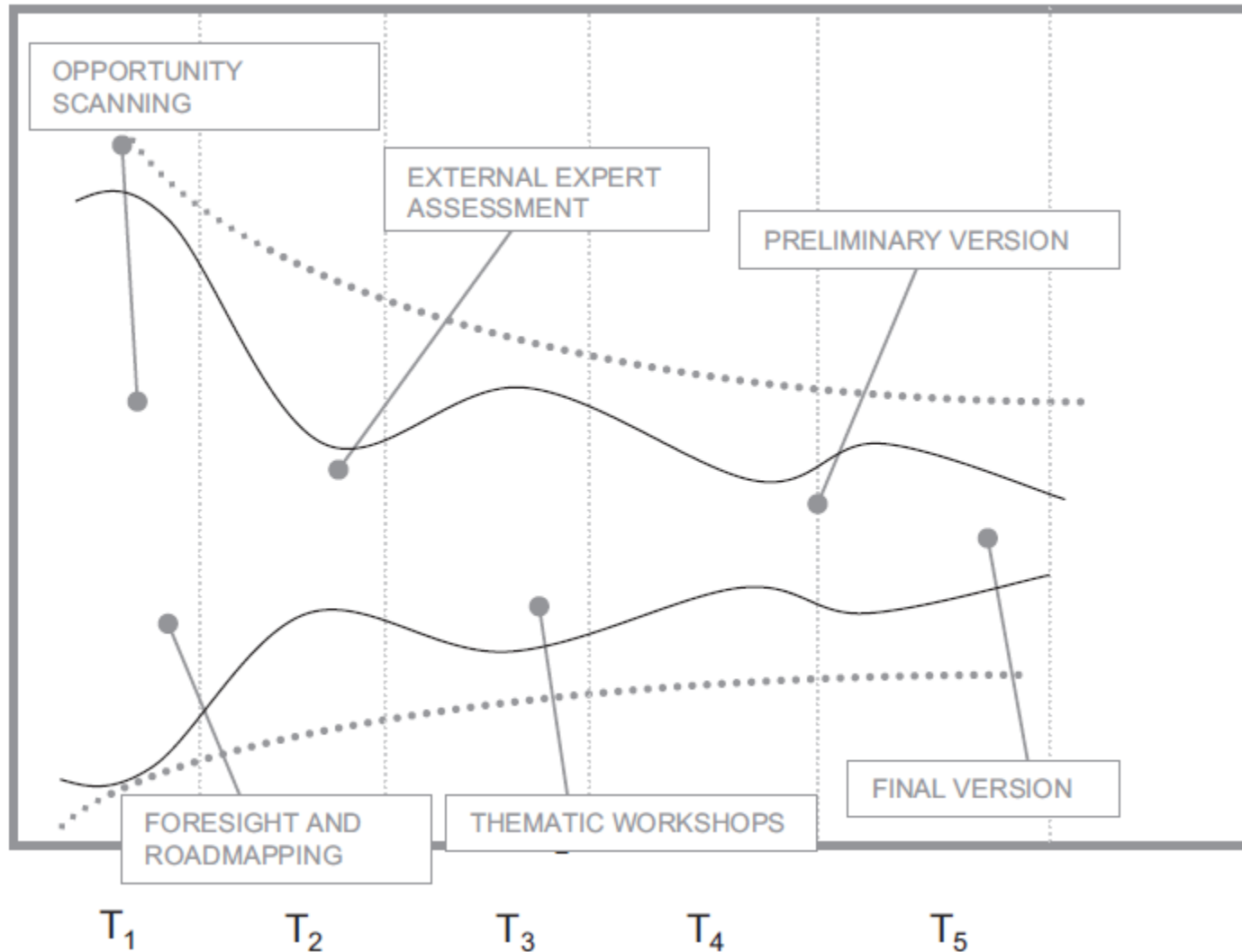# RIS3: *Designing EDP (2014)*

RIS3: *Designing EDP (2014)*

RIS3: *Implementing EDP (2014)*

RIS3: *Implementing EDP (2014)*

POR CreO — PROGRAMMA OPERATIVO REGIONALE CRESCITA e OCCUPAZIONE 2014 2020

RIS3 — RESEARCH AND INNOVATION STRATEGIES FOR SMART SPECIALISATION

Unione europea
Fondo Europeo di Sviluppo Regionale

REPUBBLICA ITALIANA

Regione Toscana

Tuscany RIS3: objectives & priorities

1) **Investing on excellences;**

2) **Mitigating inbalances.**

ICT Photonics

Smart Factory

Chem&Nanotech

Strong focus

- Enhancing "dynamic" companies towards strategic investments in R&D;
- Horizontal policies to activate backwards linkages.

Tuscany RIS3: budget

Direct Support (ERDF – EARDF)

R&D	108M€
Innovation	305M€
Enabling initiatives	445M€
Total	**858M€**

Undirect Support

Digital Agenda
ESF ROP
Regional Development Programme

778M€

S3 Scenario post2020

- Member States shall allocate <u>at least from 35% up to 60%</u> of their total ERDF resources under Policy Objective "**A smarter Europe by promoting innovative and smart economic transformation**" (research and innovation; digital transformation; growth and competitiveness; skills for smart specialisation, industrial transition and entrepreneurship);

- **Scope of ERDF now** includes investments in <u>skills</u> development, including CVET and KISA activities;

- Smart Specialisation will be again considered as an **Enabling Condition** and be fulfilled and applied throughout the programming period. Expenditures related to operations linked to unfulfilled EAC <u>cannot be included in payment applications;</u>

- **Stronger integration among EU Instruments** via RIS3 as the framework for the coherence of different programmes granting support (<u>Structural funds, Horizon Europe</u> to be extended to other EU instruments);

- A **new interregional investments instrument** (ETC objective) helping interregional partnership involved in smart specialisation strategies, to scale up innovation and bring innovative products/processes to market.
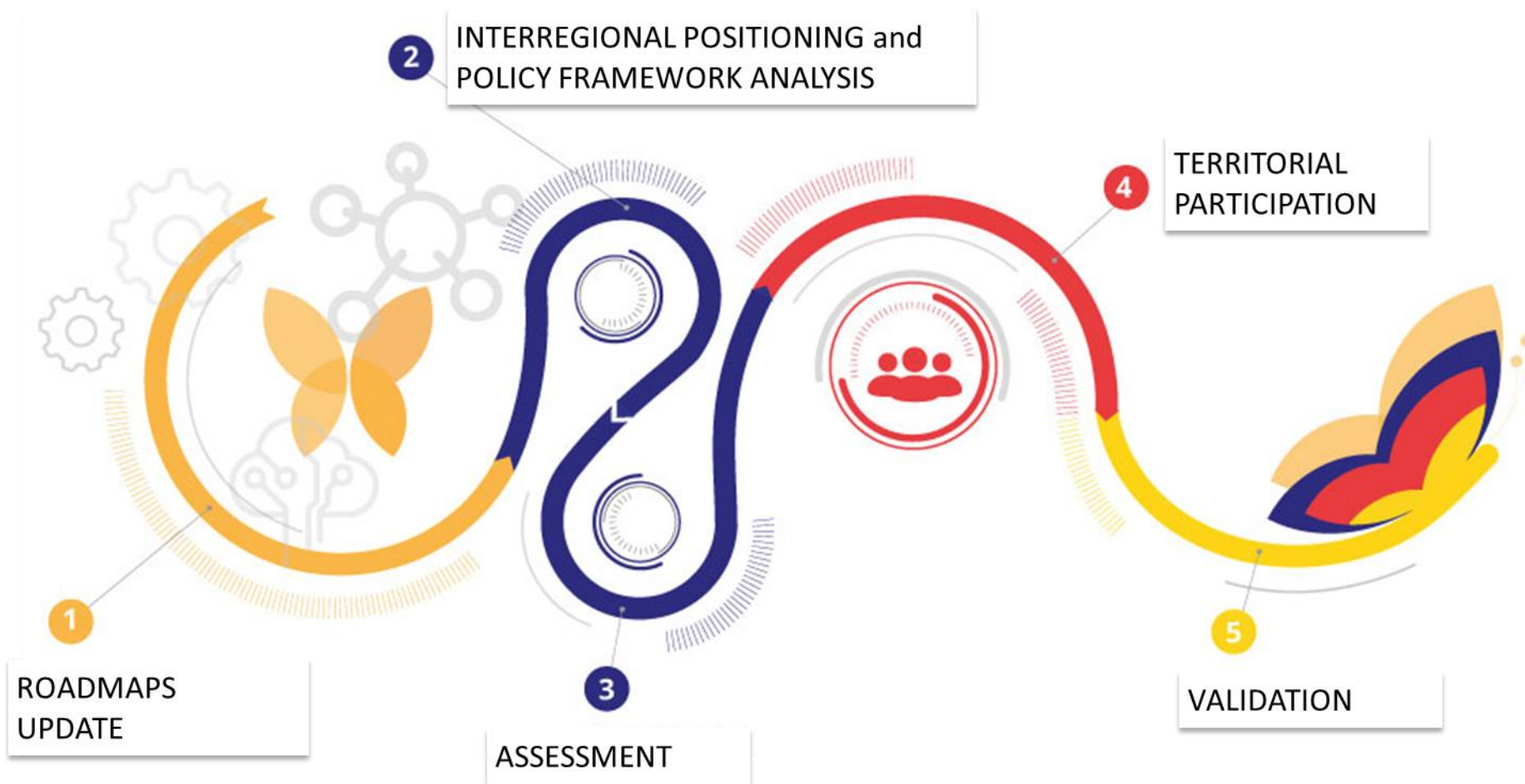
S3 Scenario post2020

Fulfilment criteria for the enabling condition

Smart specialisation strategy(ies) shall be supported by:

1. Up-to-date analysis of bottlenecks for innovation diffusion, including digitalisation

2. Existence of competent regional / national institution or body, responsible for the management of the smart specialisation strategy

3. Monitoring and evaluation tools to measure performance towards the objectives of the strategy

4. Effective functioning of entrepreneurial discovery process

5. Actions necessary to improve national or regional research and innovation systems

6. Actions to manage industrial transition

7. Measures for international collaboration

RIS3–MTR: EDP (2018)

RIS3–MTR: *Phases*

1) Roadmaps update

Enagagement of regional Technological Districts and Regional Platforms on «industry 4.0» e «technologies for culture and cultural heritage»:
- over 40 workshop;
- over 300 organisations involved;
- over 55 roadmaps;

2) Interregional positioning and policy framework analysis:

- Horizon 2020;
- FDIs;
- international value chains;

RIS3–MTR: Phases

3) Assessment

Technical validation

- Technical feasability;
- Positioning on the innovation frontier (leadership/followership);
- Consistency of the logic framework;

Territorial proofing

Analysis of the potential uptake of innovation among territories:
- correlation of roadmap with territorial value chains;
- analysis of local endowments, able to foster roadmaps implementation;

The combination of technical and territorial persepctive has been carried out to foster a place-evidence approach

RIS3–MTR: *Phases*

4) Territorial partecipation

Feedback from territories

- 5 Thematic workshops;
- Online participation : open.toscana.it/web/ris3-toscana/home
- social media (*#RIS3Toscana; #RIS3ToscanaMTR*);

Regional web tools

- www.regione.toscana.it/smart-specialisation-strategy
- www.toscanaopenresearch.it
- www.cantieri40.it

TERRITORIAL
PARTICIPATION

RIS3–MTR: *Phases*

5) Institutional Approval

- Approval of a preliminary version of MTR;
- Formal (not compulsory) consultation of the ERDF and ERDF monitoring committees;
- Approval of the final version of MTR.

Strategia di Ricerca e Innovazione
per la Smart Specialisation in Toscana

NOTA di AGGIORNAMENTO di MEDIO PERIODO

(2018)

INSTITUTIONAL
APPROVAL

RIS3–MTR: Special focus on...

MTR: international positioning

A fact-checking analysis on the international positioning of main innovation roadmaps can provide ***more details*** on regional strengths and weaknesses as well as support policy makers in more effective and ***sounded policies***.

International positioning is checked through:

- Analysis of **FDIs** regarding the innovation roadmaps;
- Analysis of **H2020 projects** with Tuscan organisations;
- Analysis of **GVCs** and economic dynamics.

In order to be effective and sustainable innovation policies require a good knowledge of the international framework, in terms of competitive arena, scientific partnership, innovation networks. Decision making needs to pay attention also to ***dynamics outside regional borders.***

MTR: territorial proofing

What is it all about?

A synthesis of "**Territorial Impact Assessment**" (TIA) and "**Rural Proofing**" (RP) aim at providing a **place-evidence** contribution on the relevance of strategic roadmaps and their **expected impacts at territorial level**.

Analyse the potential application of innovation roadmaps to territories:
- correlation of the **innovation roadmaps** to **territorial value chains**;
- analysis of "**territorial endowments**" enabling roadmaps effectiveness;
- feedback from **S3 local development stakeholders**.

HOW

WHY?

The aim is to **combine excellence** with **relevance;** supporting **excellences** while reducing **disparities** and fostering equal development **opportunities**: "*from rivalry to synergy*"!

Tuscany RIS3 - MTR

1) **Investing on excellences;**

2) **Mitigating inbalances.**

ICT Photonics

Smart Factory

Chem&Nanotech

Culture - Cultural Heritage

Energy - Green Economy

Enterprise 4.0

Health and Life Sciences

Smart Agrifood

MTR
MID-TERM REVIEW
RIS3 TOSCANA

New

✓

✓

Strategic Objectives

Technological Priorities

Applications Domains

THANK YOU FOR
YOUR LİSTENİNG

DO YOU HAVE
ANY QUESTİONS?

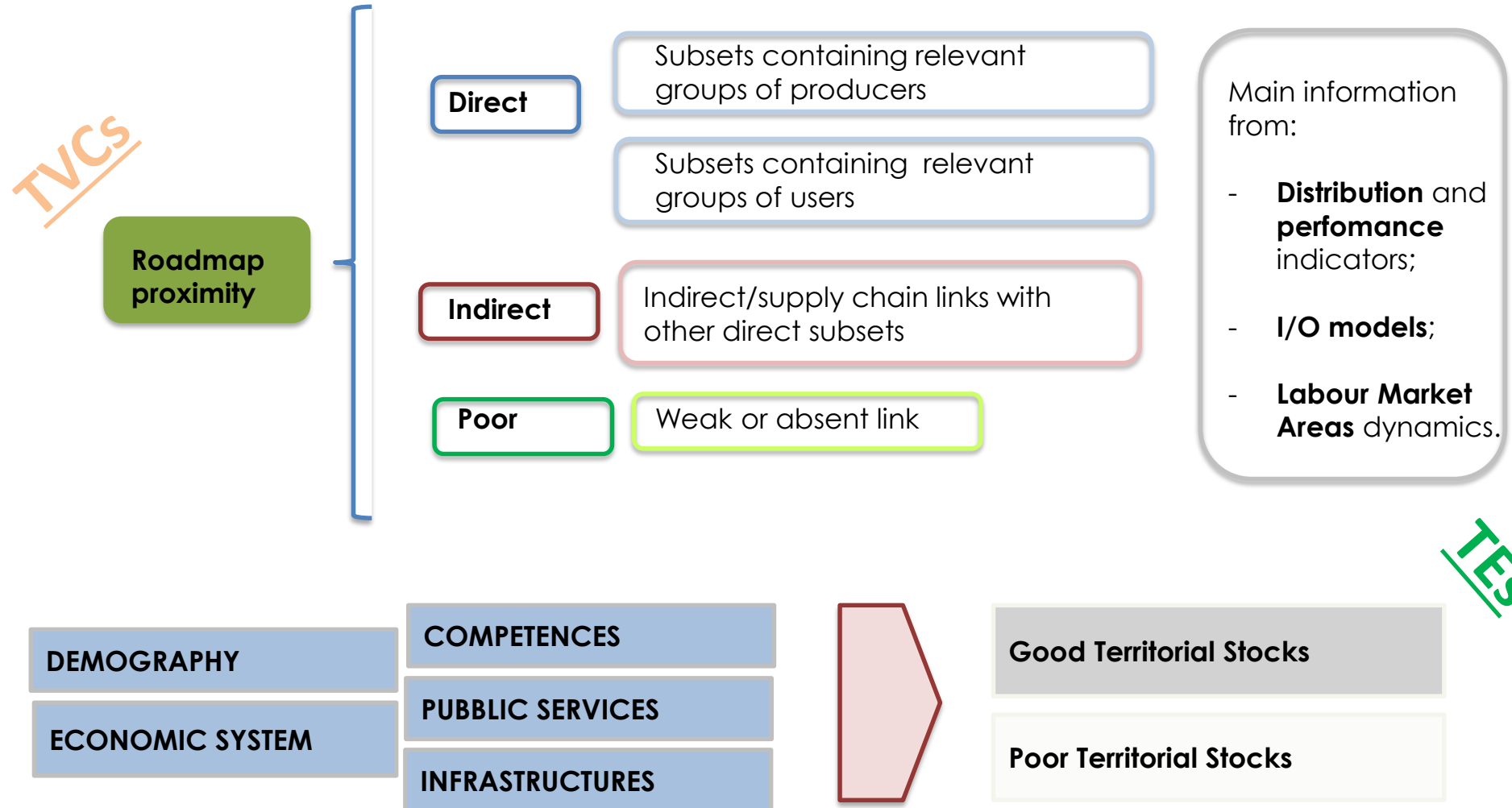*emanuele.fabbri@regione.toscana.it*
ris3@regione.toscana.it

Annex

"Territorial VCs" and "Territorial Endowments" (1/2)

TVCs

Roadmap proximity

Direct
- Subsets containing relevant groups of producers
- Subsets containing relevant groups of users

Indirect
- Indirect/supply chain links with other direct subsets

Poor
- Weak or absent link

Main information from:

- **Distribution** and **perfomance** indicators;

- **I/O models**;

- **Labour Market Areas** dynamics.

TES

DEMOGRAPHY

ECONOMIC SYSTEM

COMPETENCES

PUBBLIC SERVICES

INFRASTRUCTURES

Good Territorial Stocks

Poor Territorial Stocks

"Territorial VCs" and "Territorial Endowments"

(2/2)

TES

Territorial Endowments

TVCs

Roadmap proximity

	GOOD	POOR
DIRECT	«Easy winners»	«Obstacle course runners»
INDIRECT	Likely adopters	«Ball and chain» adopters
POOR	Tapped potential?	

To be discussed with **S3 local development mirror group** (LAGs, FLAGs, EIP-OGs…)

Tuscan S3Ps Partnerships

Platform	Thematic areas	Role	# partners
Agrifood	High tech farming	Leading region	24
IM	Industry 4.0 for SMEs	Partner	6
IM	Med-Tech	Partner	14
IM	Digitalisation and Safety for Tourism	Partner	8
IM	Smart Regional Investments in Textile Innovation	Interested Region	13

Work in progress on:
- *Technologies for Geothermal Energy Sources;*
- *Cultural and Creative Industries.*