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Joint Research Centre

Science Technology and Innovation for Sustainable Development Goals: Smart Specialisation and transnational partnerships

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#NextGenerationEU #EUBudget

European Commission

S3 for SDGs

Smart specialisation for sustainability is a place-based innovation-led transformation agenda for growth and sustainability.

Work towards an updated Smart Specialisation methodology that includes SDG mapping that allows to directly link the STI roadmapping process with the Agenda 2030.





European Commission

Smart Specialisation for Sustainable Development Goals

Localised Science, Technology and Innovation Roadmaps for transformation and development

#SmartSpecialisation

STI for SDGs roadmapping: JRC contribution

Question:

How can existing methodologies, tools and information sources be applied in designing, implementing and evaluating STI for the SDGs roadmaps?





Science, Technology and Innovation (STI) for Sustainable Development Goals Roadmaps

BACKGROUND PAPER: Overview of the existing STI for SDGs roadmapping methodologies

https://sustainabledevelopment.un.org/tfm#roadmaps

Preparation of STI for SDGs Roadmap – key steps

1. DEFINE OBJECTIVES AND SCOPE

• Defining rationale and objective

7. MONITOR EVALUATE AND UPDATE PLAN

Monitoring

•Evaluation and revision of the STI roadmap •Knowledge management and learning

6. DEVELOP DETAILED STI FOR SDG ROADMAP DOCUMENT

Operationalisation – definition of concrete steps on linking vision, analysis, priority setting and implementation
Definition of policy mix
Definition of financial tools
Implementation (execution) stage
Governance – formal (legally-based) and informal coordination of the STI roadmap

5. ASSESS ALTERNATIVE PATHWAYS

•Foresight, future studies and similar exercises

2. ASSESS CURRENT SITUATION

- Evaluation of current situation and understanding of current mandates
- •Gathering data and evidence for STI roadmaps
- •Outward looking dimension and exploration of existing and potential international partnerships and collaboration

3. DEVELOP VISION, GOALS AND TARGETS

•Elaboration of shared vision for the future

4. DIALOGUE AND CONSULTATION WITH STAKEHOLDERS

•Co-creation and shared ownership of priorities and the STI roadmap

| Methodological steps | | | |
|--|---|---------------------------|--|
| DEFINE OBJECTIVES AND SCOPE | Focus on STI policy | Focus on sectorial policy | Focus on social, economic and environmental challenges |
| ASSESS CURRENT SITUATION | STI POLICY REVIEWS (OECD) GO-SPIN (UNESCO) PERs in STI (WB) | • SIIG (UNIDO) | SMART SPECIALISATION (EC-JRC) STIP (UNCTAD) TIP (TIPC) |
| DEVELOP VISION, GOALS AND TARGETS | | | SMART SPECIALISATION (EC-JRC) STIP (UNCTAD) TIP (TIPC) |
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Background paper STI for SDGs Roadmapping: conclusions

- Numerous approaches and methodologies for STI roadmap, not necessarily developed within the framework of SDGs
- Yet, include useful elements eg. policy instruments, financing of the roadmap, creating the joint vision
- Institutional capacity is key for effective development and implementation of the roadmap
- Roadmap is effective only if implemented need institutional commitment and investments.
- Global community and IOs revising approaches and methods learning from Global Pilot Programme
- International partnerships can bring expertise, experience and missing capacities into the roadmapping process

Smart Specialisation Thematic Platforms

- Launched in 2015-2016
- 220 national and subnational authorities from 35 EU and non-EU countries
- 33 Thematic Partnerships
- EC services across Directorate-Generals participate





S3P Thematic Platform on Agri-food

- 59 national and subnational territorial units from 23 countries (19 EU countries and 4 non-EU)
- The majority are from Italy (11), Spain (8), Netherlands (6), Finland (4), France (4), Hungary (4)
- Five Partnerships:
 - Consumer Involvement in Agri-Food (4),
 - High-tech Farming (34),
 - Nutritional Ingredients (10),
 - Smart Sensors for Agri-Food (16)
 - Traceability and Big Data (22)

https://s3platform.jrc.ec.europa.eu/agri-food-thematic-areas



INTERNATIONAL SMART SPECIALISATION AGRI-FOOD PARTNERSHIP Data boosting a more sustainable, responsible and competitive agri-food sector

CONTRIBUTION TO SDGs

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PARTNERSHIPS AND COLLABORATION

PARTNERS

Regional cooperation to boost innovation and digitisation in the European agri-food value chain involving 22 regional and national administrations from 11 countries (10 EU and 1 non-EU country): Andolusia, Emilio-Romogna, Aragon, Bosque Country, Bretagne, Centrol Macedonia, Cork Country, Extremadura, Friuli Venezio Giulia, Galicia, Hadjù-Bihar, Limburg Midale Black Sea, Navarra, Northern Ostrobathnia, Pays de lo Loire, Pazardzhik, Sardinia, Satakunta, South Ostrobathnia, South Savo, South Transdanubion

STAKEHOLDERS

The Partnership developed regional nodes by connecting more than 1,600 stakeholders, including companies, industries, universities, trade unions and civil associations across EU countries and some non-EU countries.



ACTION 🧧

PROBLEM

Insufficient digitalisation of agri-food sector value chains.

INNOVATION

The main objective of the Partnership is to encourage, motivate and facilitate the incorporation of the necessary digital technologies in the agri-food sector value chain to make progress towards digital economy.

EXAMPLE OF PROJECT: 4 COMPLAT

Is a project that offers a communication and traceability tool for the agrifood value chain connecting food producers processors, retailers, distributors and consumers.

SUSTAINABILITY More sustainable, responsible and competitive acri-food sector

WEBPAGE

https://europa.eu/bT88Gk



https://s3platform.jrc.ec.europa.eu/-/smart-specialisation-and-sdgs?inheritRedirect=true

To conclude...

- Smart Specialisation for sustainability based on a bottom-up approach with involvement of local stakeholders – this scaled up at European and potentially global level through Partnerships to address concrete socio-economic and environmental challenges.
- With the leadership, capacities and innovative ideas coupled with transnational collaboration, the countries and regions will be able to develop solutions required to achieve post-Covid reconstruction and systemic changes.





Thank you!

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