



Smart Specialisation Strategies - STI Roadmaps for SDGs

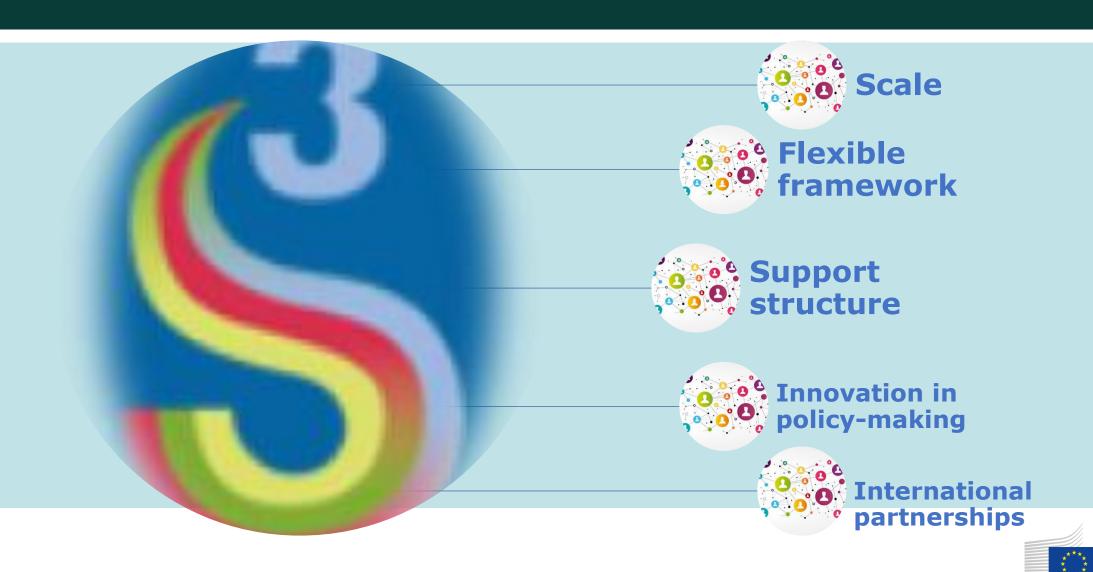


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Bangkok, 1 March 2019



Why we believe we can contribute



130 000 R&D&I projects (estimate)

68 billion euro investment

120 S3 strategies

120 000 jobs to be created



The DNA of Smart Specialisation



Setting transformative agendas relying on four main features









Prioritisation: targeting most promising potential for development/transformation



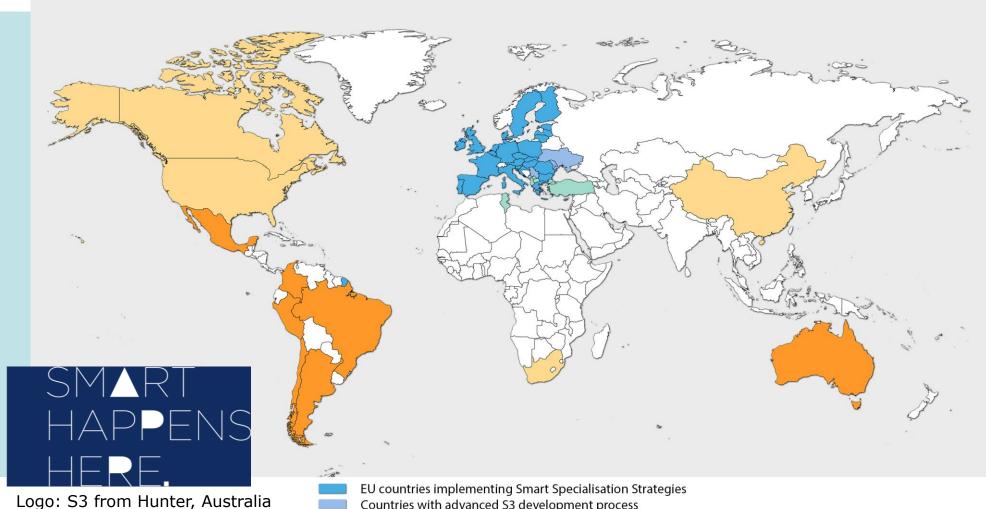
Mobilisation: involving public and private stakeholders



Combining evidence-based and community-based knowledge



Outreach



EU: 120 strategies, 68 bln euro 2014-2020

EUNeighbourhood:
12 countries in the process,
Financing based on the results of the process

Worldwide: 9 countries, Soft support

EU countries implementing Smart Specialisation Strategies Countries with advanced S3 development process Countries that have initiated S3 process development Countries that cooperate with JRC on Smart Specialisation Countries that expressed interest in Smart Specialisation



What we can contribute to the STI Forum

- Contribution to the Guidebook
- Contribution to Session 6 and 5 of the Forum with the progress on the pilots we run and good practice examples
- Side event/training workshop?



Our input to the UN process

- Working group of experts and countries
- Collecting and presenting the good practice examples
- Providing pilot activities within our process (starting from SDG mapping for S3)
- Raising awareness on SDGs/S3 connection among Member States and Partner Countries
- Organizing peer reviews on S3 and SDGs
- Supporting integration of STI, SDG and S3 agendas
- Developing recommendations and guidance



Full name: Research and Innovation Strategies for Smart Specialisation

Research & innovation policy:

Technological / scientific specialisation (centres of excellence), impact on growth

Innovation as driver for territorial development policy (regional innovation eco-systems)

Industry policy:

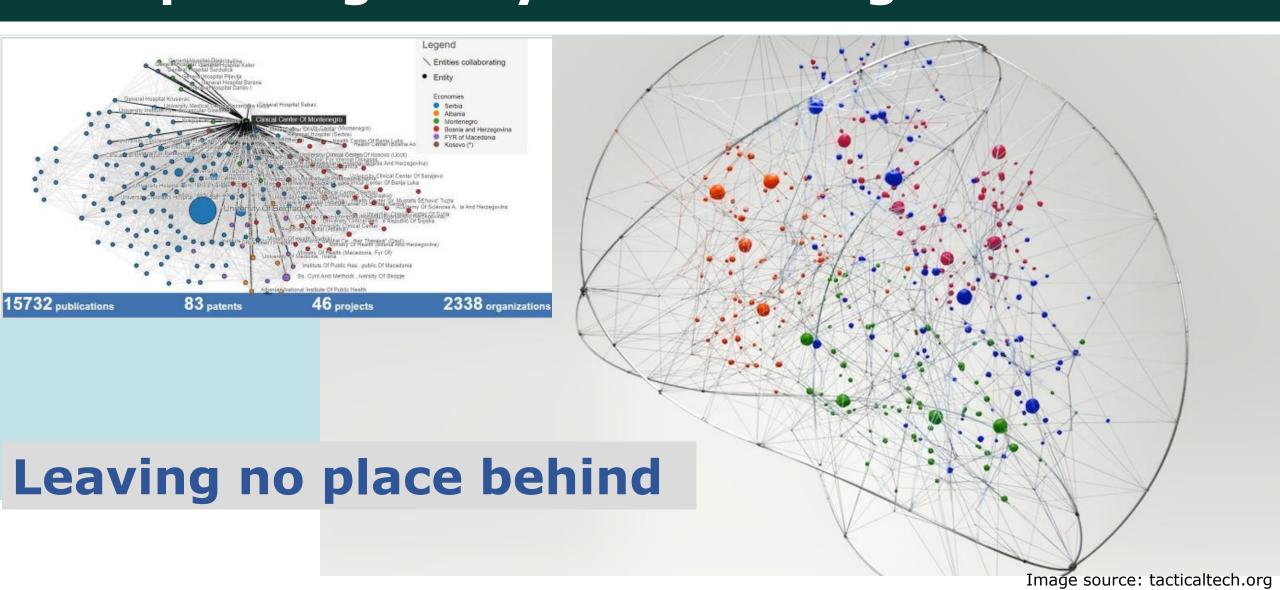
Cluster, sector analysis,

Demand side
innovation support

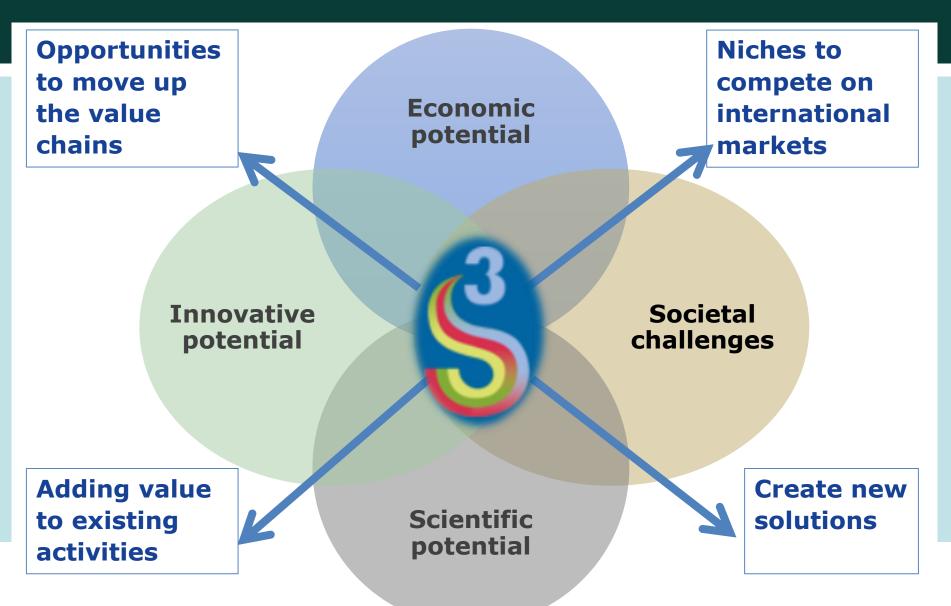
Smart specialisation



Territorial point of view - pushing for systemic changes



Smart specialisation as a transformative process



Look at the potentials and opportunities present in a territory

Consider the resources you have



Example of transformative activities

Economic potential:

High level of production and employment in agriculture and food processing

Scientific potential:

Top level pharmaceutical and biotechnology research

S3 priority:

Function foods for cardiac patients

Innovative potential:

Quickly growing bio-tech cluster

Societal challenge:

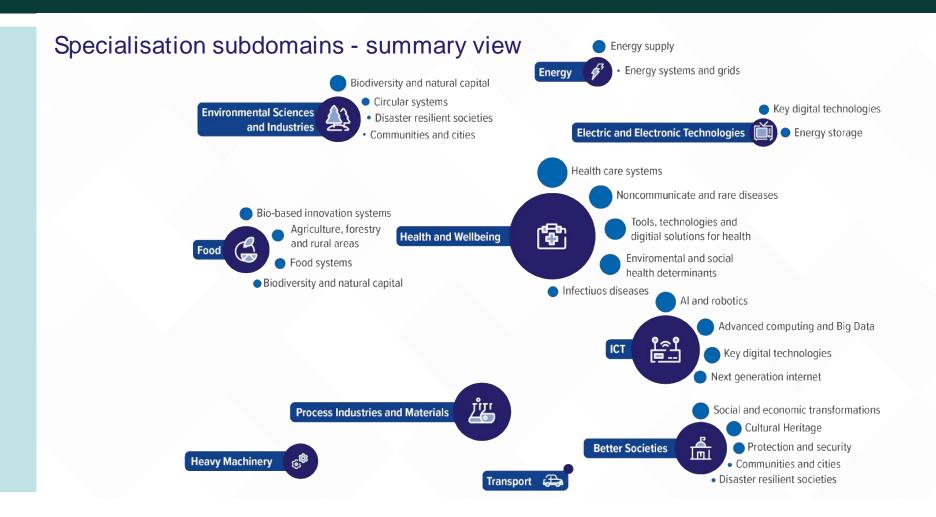
Health – obesity and cardiac disease

Other examples:

- Digitalisation of welfare services (Sweden)
- Medical technology and patient care (France)
- Low carbon and low emission energy production (Poland)
- Cleantech new products and processes for green chemicals development (Italy)

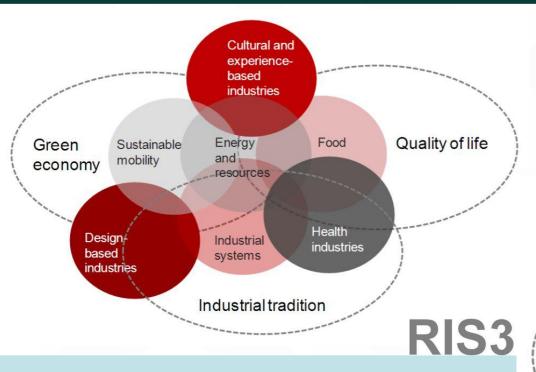


Details are important!





From S3 priorities to SDGs





Importance of the process





Importance of the process

Institutional discovery:

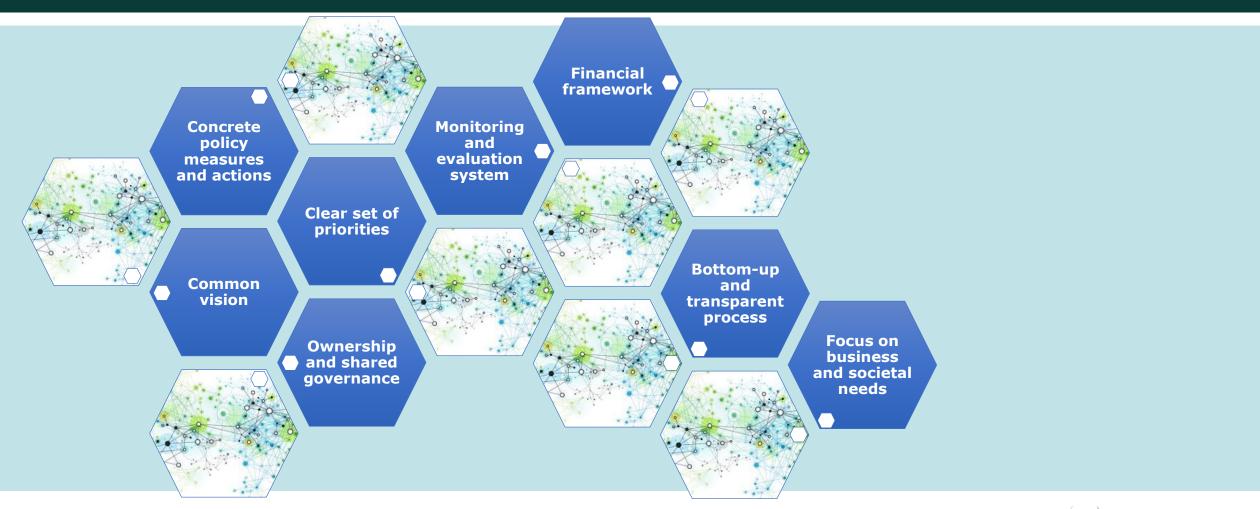
- Political mandate
- Right coalition of ministries, departments, agencies and other public institutions
- Learning and adaptation process
- Stability and consequence
- Learning to talk to external stakeholders and build trust

Entrepreneurial discovery:

- Process of discovering real business needs and ways to address them based on knowledge and innovation
- Mobilising and enabling businesses to answer societal challenges
- Quadruple helix: business, academia, civic society and public authorities



S3 as an STI roadmap





Key requirements:

National or subnational research and innovation strategy is in place with the following elements:

Step 1 – Analysis of regional context/potential

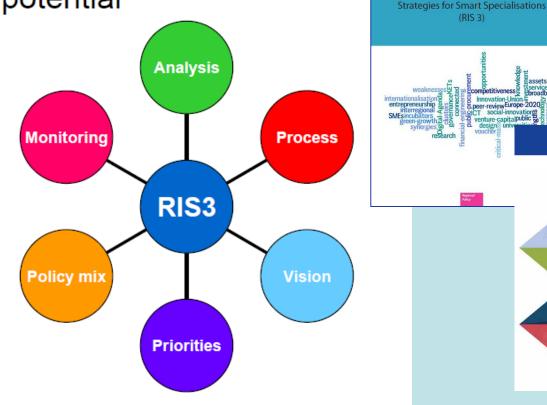
Step 2 – Governance

Step 3 – Vision for the future

Step 4 – Selection of priorities

Step 5 – Policy mix

Step 6 – Monitoring and evaluation





Guide to Research and Innovation

International partnerships for common priorities



Advanced manufacturing



Non-food Biomass



Efficient and Sustainable Manufacturing



3D-Printing



New Nano-Enabled **Products**



Textile Innovation



Medical technology



Photonics

30 partnerships

153 regions

28 countries



Cybersecurity



Social Economy



Artificial Intelligence & **Human Machine** Interface





Personalised medicine



Chemicals



SMEs to the Industry



Sport



Digitalisation and Safety for Tourism



High Tech Farming



Traceability & Big Data



Consumer Involvement in Agri-Food



Nutritional Ingredients



Smart Sensors 4 Agri-Food



Solar Energy

3 Platforms:

- **Industrial Modernisation**
- **Agri-food**
- **Energy**



Bioenergy



Marine Renewable Energy

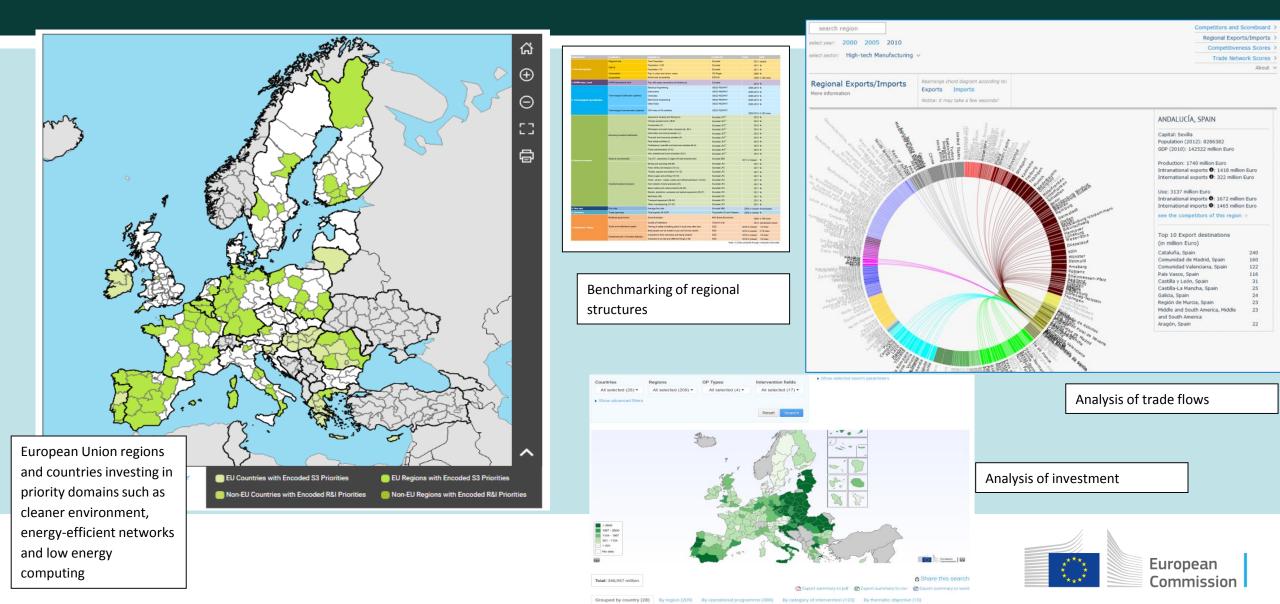








Tools for cooperation





Any questions?

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