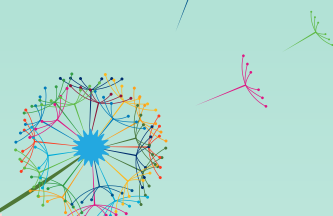


Monika Matusiak

Smart Specialisation for Sustainable Development Goals





SDG-oriented by design

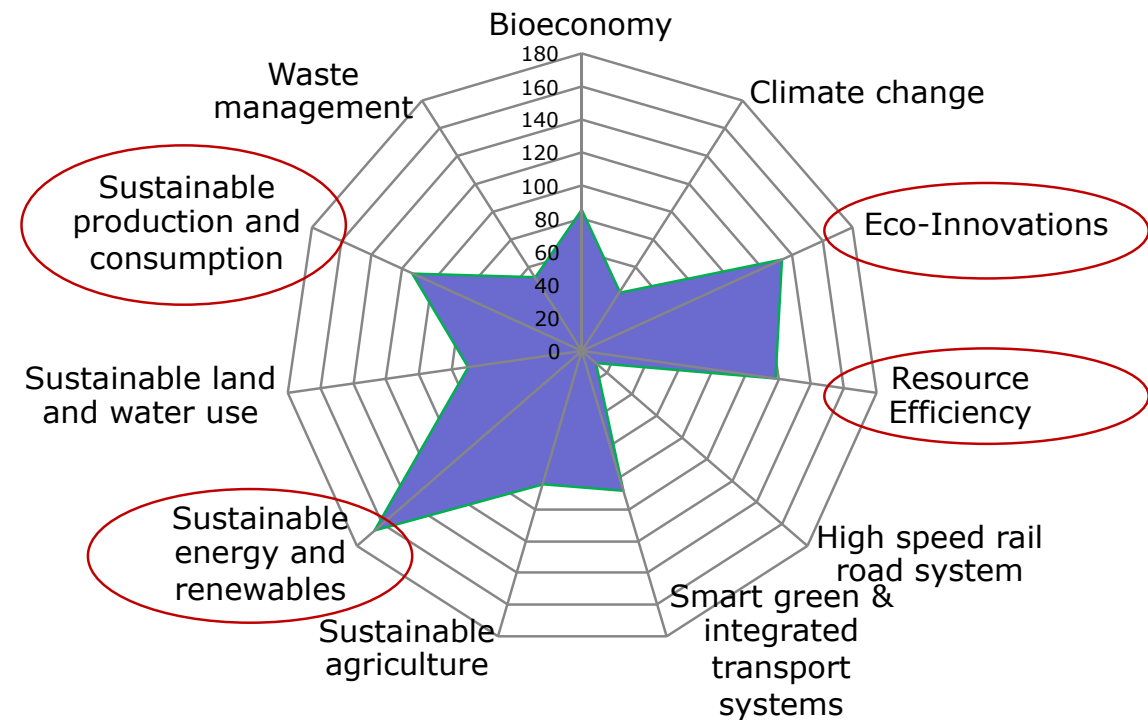
- results from the UN Global Pilot Programme on Science, Technology and Innovation Roadmaps for Sustainable Development Goals

The screenshot shows the homepage of the Sustainable Development Goals Partnerships Platform. At the top left is the United Nations logo, followed by the text 'SUSTAINABLE DEVELOPMENT GOALS' and 'PARTNERSHIPS PLATFORM'. A navigation bar contains links: HOME, BROWSE COMMITMENTS & PARTNERSHIPS, REGISTER, SHARE AN UPDATE, ACTION NETWORKS, and ABOUT. Below this is a horizontal bar with a multi-colored pixelated pattern. The main heading reads 'Global Pilot Programme on STI for SDGs Roadmaps'. At the bottom, there are three tabs: 'DESCRIPTION OF ACCELERATION ACTION' (which is active), 'SDGS & TARGETS', and 'RESOURCES MOBILIZED'.



Smart Specialisation Strategies: present contribution to SDGs

Policy objective	N	Priority level	
		National	Regional
Bioeconomy	85	11	74
Climate change	42	9	33
Eco-Innovations	133	12	121
Resource Efficiency	118	21	97
High speed rail road system	11	2	9
Smart green & integrated transport systems	88	12	76
Sustainable agriculture	84	9	75
Sustainable energy and renewables	166	19	147
Sustainable land and water use	70	11	59
Sustainable production and consumption	113	17	96
Waste management	53	7	46



Source: Rakhmatullin, Ruslan and Fatime Barbara Hegyi, *Thematic S3 Partnerships: Working together towards the Global Goals*. Forthcoming, 2020.

Smart Specialisation Strategies: present contribution to SDGs

S3 Cooperation

EU Enlargement

EU Neighbourhood

International Cooperation

EU for Arctic

Sustainable Development Goals

Pilot methodology

National inspirations

- S3 for SDGs in Australia
- S3 for SDGs in Croatia
- S3 for SDGs in Poland
- S3 for SDGs in Malta
- S3 for SDGs in Cyprus
- S3 for SDGs in Norway
- S3 for SDGs in Serbia
- S3 for SDGs in Moldova

Regional inspirations

Urban inspirations

International partnerships

Contacts

National inspirations



S3 for SDGs in Croatia



S3 for SDGs in Poland



S3 for SDGs in Malta



S3 for SDGs in Cyprus



S3 for SDGs in Norway



S3 for SDGs in Serbia



<https://s3platform.jrc.ec.europa.eu/sustainable-development-goals>



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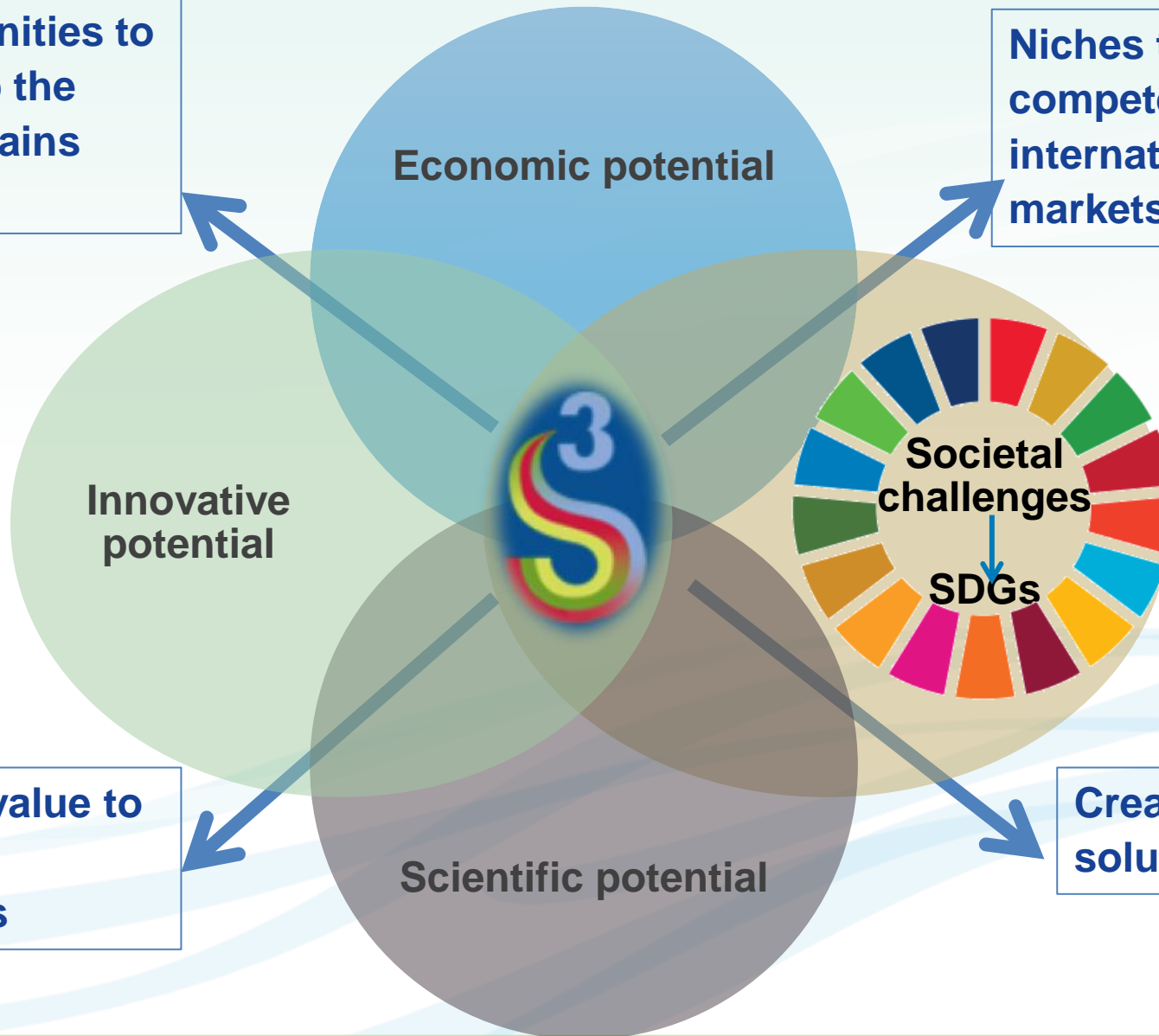
SUSTAINABLE
DEVELOPMENT
GOALS

The Joint Research Centre (JRC) supports the Sustainable Development Goals

The concept of smart specialisation

Opportunities to
move up the
value chains

Niches to
compete on
international
markets



Innovative
potential

Economic potential

Scientific potential

Societal
challenges

SDGs

Adding value to
existing
activities

Create new
solutions



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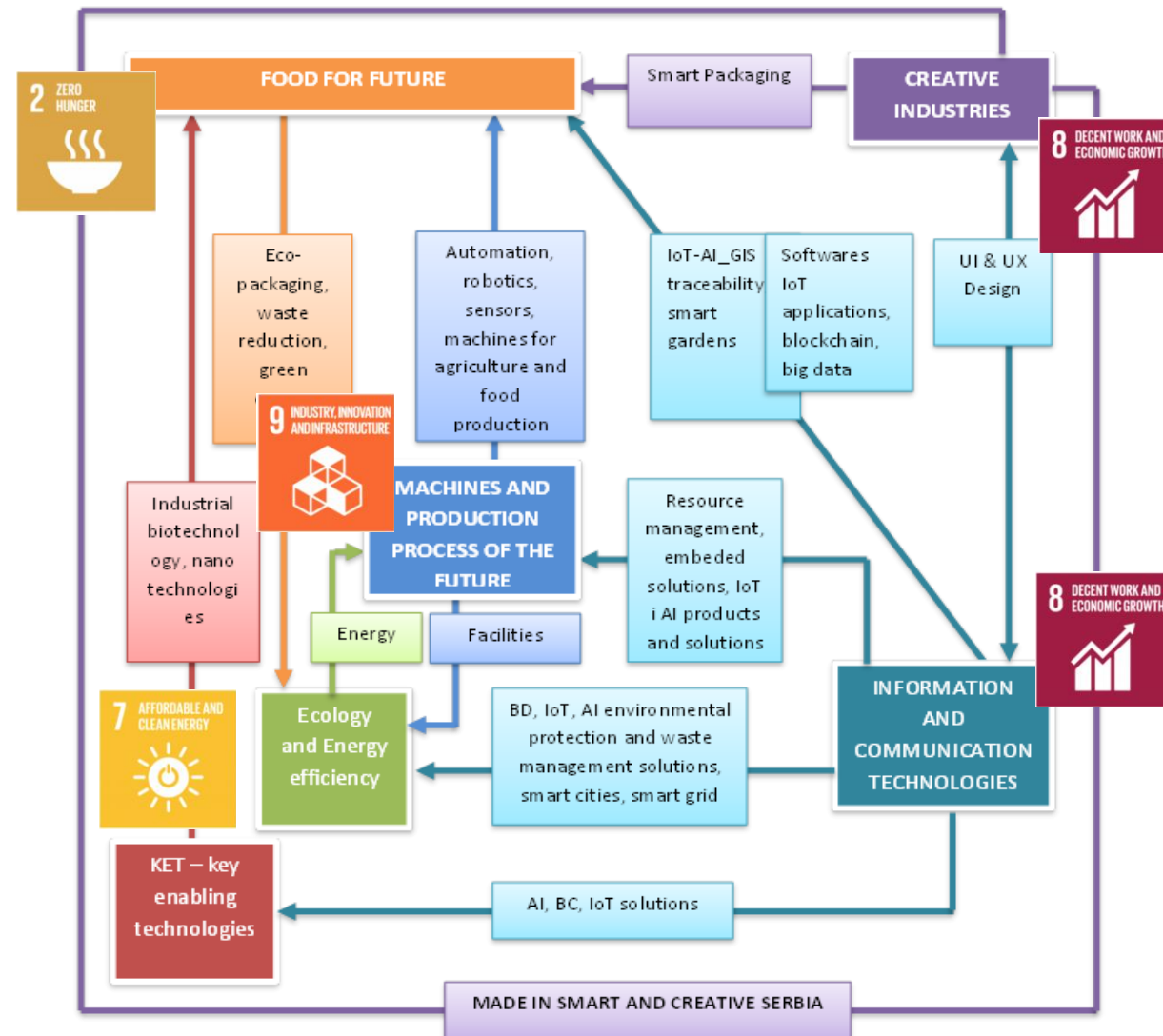


Serbia's Smart Specialisation priorities

Vertical and Horizontal priorities and cross-innovation



Information and communication technologies	Food for Future
Custom Software Development	High Tech Agriculture
Software Solutions Development	Value Added Food products
	Sustainable Agrifood Production
Future Machines and Manufacturing Systems	Creative industries
General and specific purpose machines	Creative audio-visual production
Information in the Smart Management Service - Industry 4.0	Video Games and Interactive content
Smart Components and Tools	Smart Packaging
Key Enabling Technologies (KET)	
Energy Efficient and Eco-Smart Solutions	





Goal 7: Affordable and Clean Energy

MEDIUM
priority challenge

Analysis of Serbian SDG-related
assessments and policy documents

9th

MEDIUM
Indicated Goal

Statistical assessment of the gap in the
SDG indicators with EU countries

8th

MEDIUM-SIZED
gap with leading
EU countries

Rank and share of Goal 7 in the STI analysis

This table presents the rank of Goal 7-related STI activities, in relation to the rest of goals. For publications and H2020 projects, the share vs. EU27 provides a notion of relative specialisation.

Publications (out of 16 goals)		Horizon 2020 (out of 14 goals)		Innovation Fund (out of 11 goals)	Patents (out of 10 goals)
2nd	2nd	2nd	1st	2nd	1st
3.2%	3.8%	13.3%	12.2%	9.3%	9.0%
Serbia	EU27	Serbia	EU27	Serbia	Serbia

Scientific impact of Goal 7-related publications

% of publications in TOP10% journals

24.0%

Serbian average = 10.2%

Normalised citation impact (vs. Serbian pubs.)

1.4

Serbia = 1

Active organisations in Goal 7-related STI activities

This table presents the number of organisations engaged in Goal 7-related STI activities, providing a notion of critical mass and international linkages.

N. of organisations in publications		N. of organisations in Horizon 2020		N. of orgs. in Innovation Fund	N. of orgs. in patents
103	330	25	377	18	4
National	International	National	International	National	National

Relation with other goals and with smart specialisation

MOST RELATED GOALS

13 CLIMATE ACTION	14% Similarity	11 SUSTAINABLE CITIES AND COMMUNITIES	11% Similarity
--------------------------------	--------------------------	---	--------------------------

MOST RELATED S3 PRIORITY DOMAINS

Energy Efficient and Eco-Smart Solutions
Food for Future
Key Enabling Technologies

Pilot activity in Serbia

Methodological steps:

- Assessment of national SDG framework in Serbia
- Statistical assessment of key challenges
- Stakeholder validation
- Scientometric analysis of the STI potential for SDGs
- Description of knowledge/competence gaps
- Identification of national and international STI networks

See more here:

<https://s3platform.jrc.ec.europa.eu/pilot-methodology>





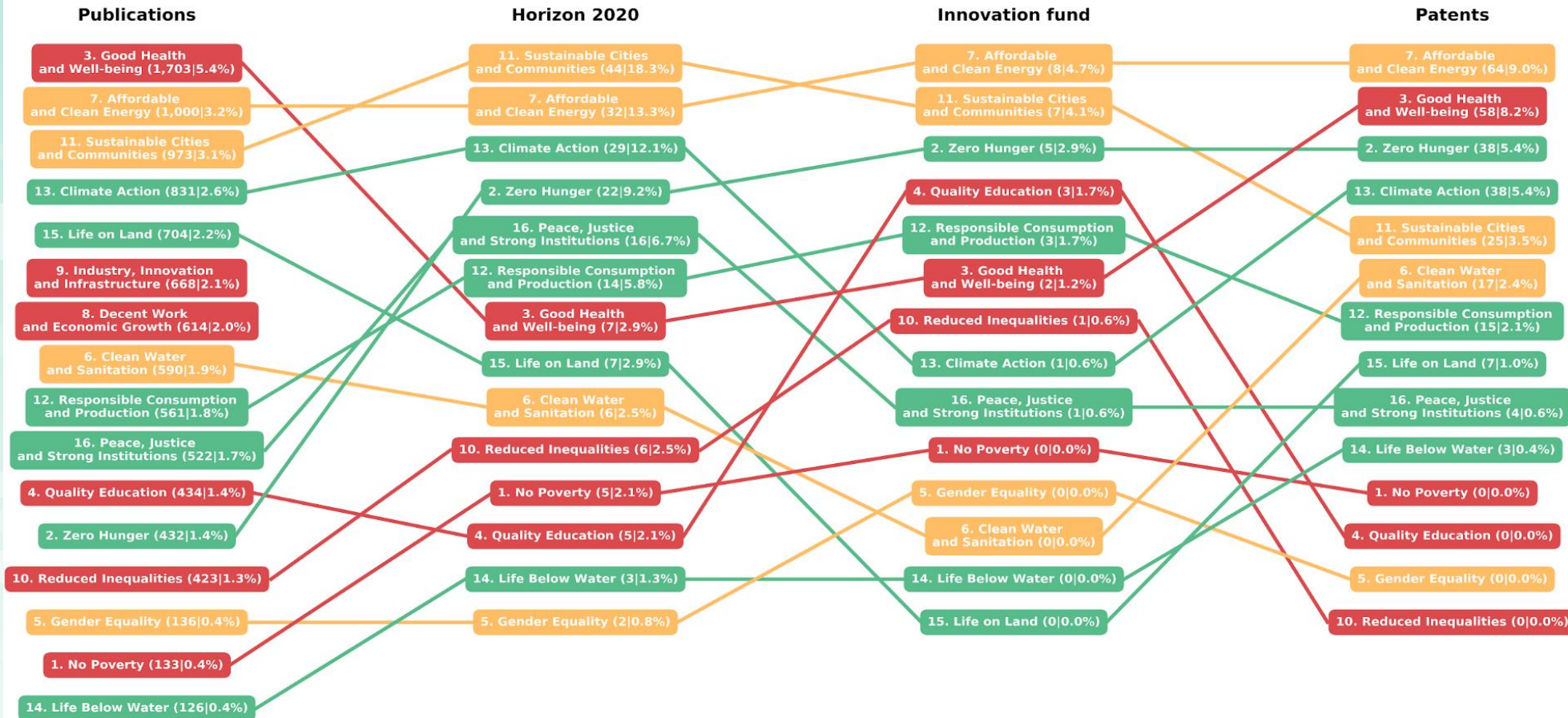
Data sources

1. **Statistical assessment of the key challenges resulting from SDGs**
 - **UN Global SDG Indicators Database**
2. **Identification of the scientific, technological and innovative potential**
 - **Horizon 2020 projects** - European Commission's CORDIS database
 - **Scientific publications** - Elsevier's Scopus
 - **National R&I projects database** - Innovation Fund
 - **European and Serbian patents** - PATSTAT the worldwide patent statistical database maintained by the European Patent Office database



Pilot activity in Serbia

Distribution of STI activities by goal (coded by priority level) and data source

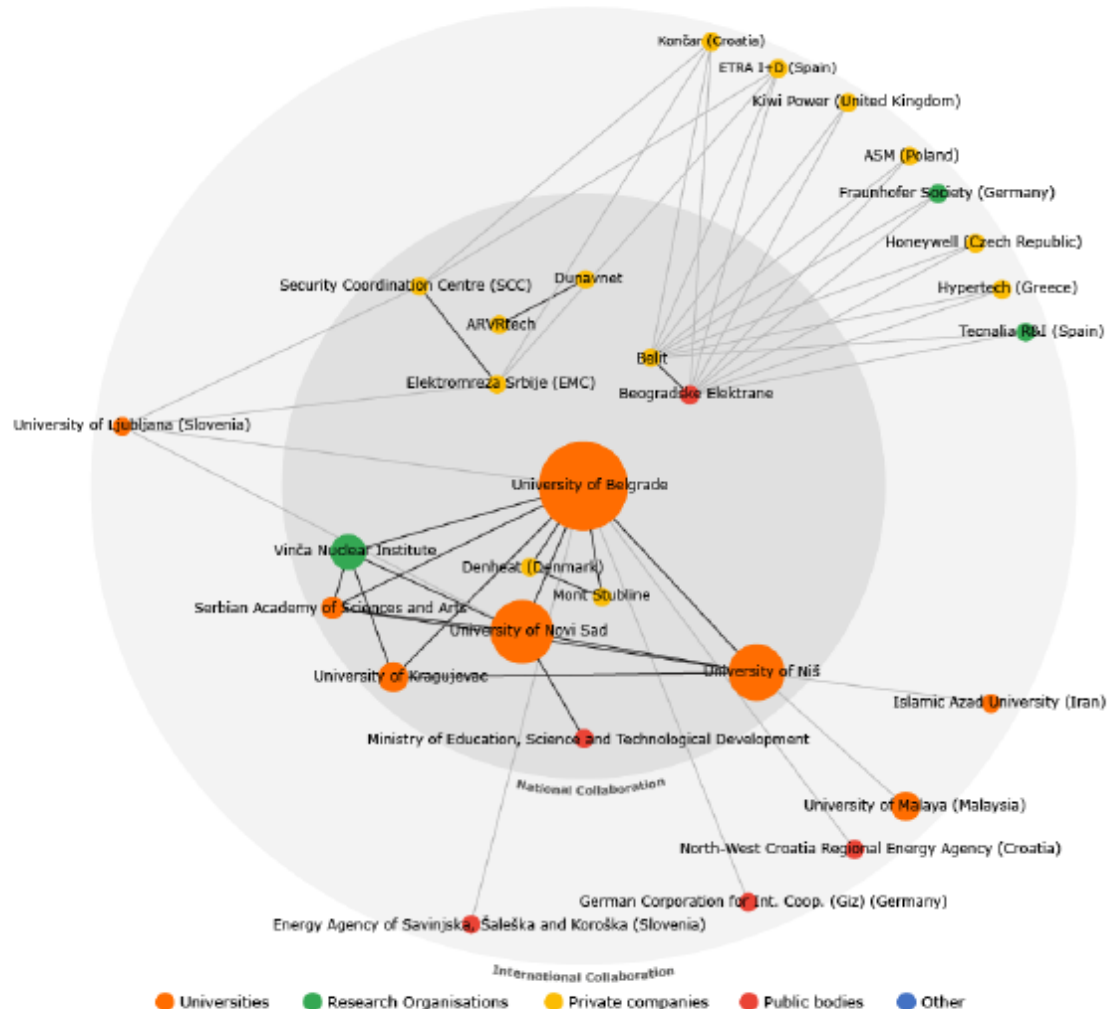




Goal 7: Affordable and Clean Energy

SDG-oriented STI collaboration networks

The following schema presents the collaboration network of the top 15 national and top 15 international actors engaged in Goal 7, classified by typology of organisation.



Pilot activity in Serbia

Serbian STI for SDGs networks



Key national and international partners who can be mobilised to address SDG challenges

See more here:

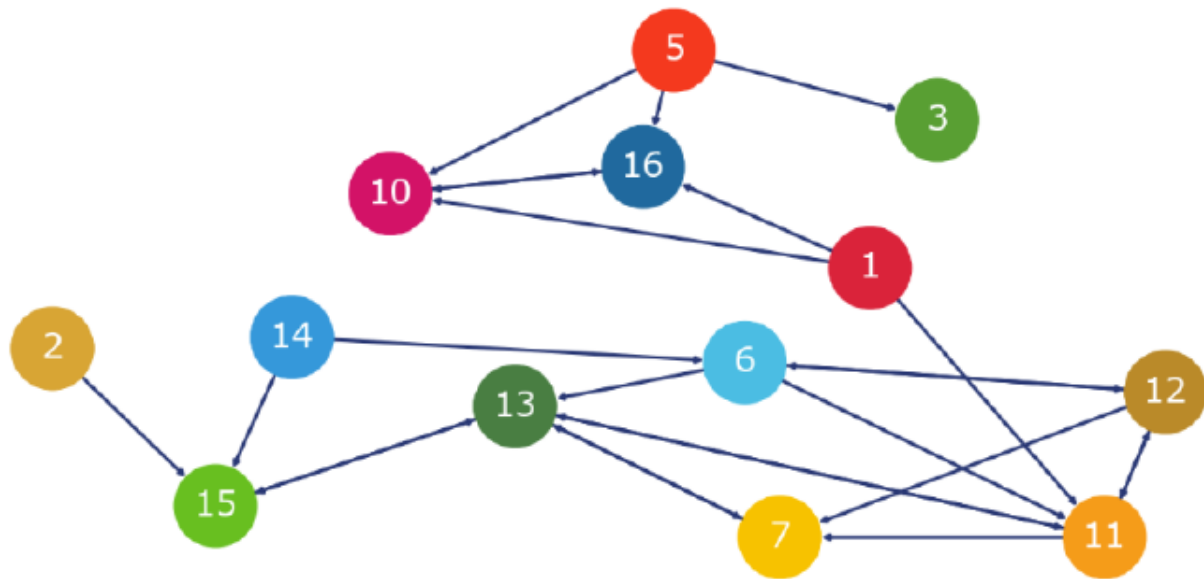
<https://s3platform.jrc.ec.europa.eu/pilot-methodology>





Pilot activity in Serbia

Goal similarity network
Goals which share more than 14% of STI records in common



Source: SIRIS Academic for European Commission, Joint Research Centre. Analysis based on Scopus (Elsevier), CORDIS, Innovation Fund and EPO.

SDG interlinkages from the STI perspective



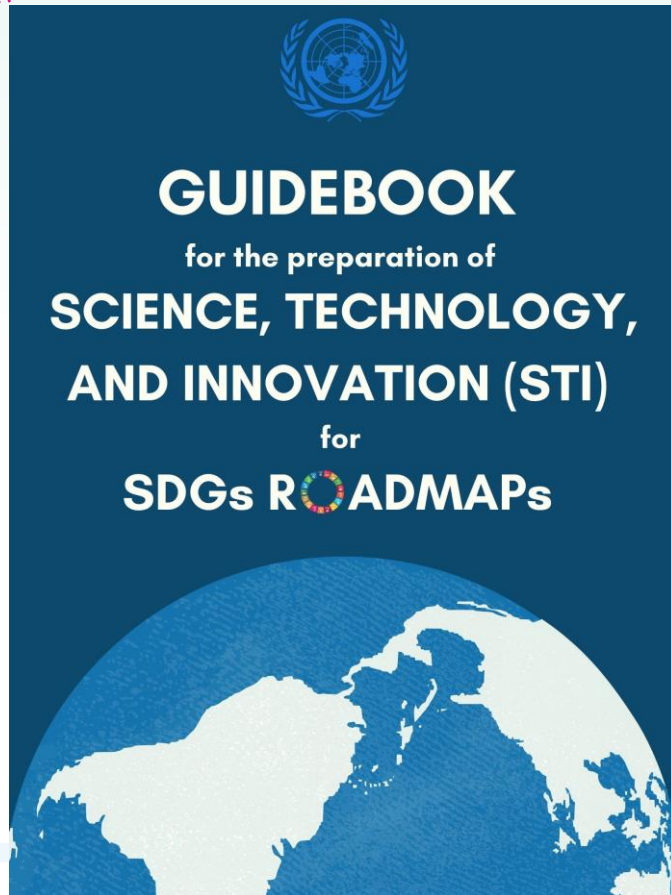
Share of STI records which have been classified as thematically related to more than one pair of goals – results for above a 14% threshold of STI records in common

See more here:

<https://s3platform.jrc.ec.europa.eu/pilot-methodology>



Smart Specialisation as one of the global methodologies for Science, Technology and Innovation Roadmaps for SDGs



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



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**SUSTAINABLE
DEVELOPMENT
GOALS**

The Joint Research Centre (JRC) supports the Sustainable Development Goals

Next steps

- To support Serbia in the development of STI for SDGs Roadmap with implementation and monitoring system geared towards the SDGs
- To implement lessons learnt and run the pilot methodology in more cases, inside and beyond EU
- To further disseminate evidence-informed and participative Smart Specialisation Strategies for Sustainability



United Nations | Department of Economic and Social Affairs
Sustainable Development

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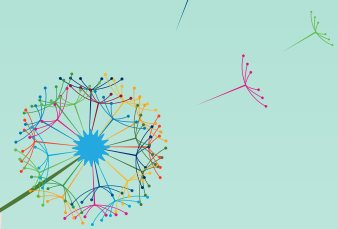
Events

UN75th GA Side Event on STI for SDGs Roadmaps (Science, Technology and Innovation Roadmaps for SDGs) – achievements and new opportunities

Tue 17 Nov 2020, 10.00 am

Virtual Meeting (Webex)
UN DESA (on behalf of IATT), EC – JRC, OECD and Japan

Register here by 11 November:
<https://ec.europa.eu/eusurvey/runner/GA>



If you want to be join our work

- **Let us know about your case:**
 - fill the questionnaire for [cities, regions, countries](#) or for [international partnerships](#)

- **Contact us:**
 - <https://s3platform.jrc.ec.europa.eu/sustainable-development-goals>



Thank you for your attention!

Monika.MATUSIAK@ec.europa.eu

