



Working meeting Global Pilot Programme on STI for SDGs Roadmaps

Discussing Ukraine's roadmap to the roadmap

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26th March 2021

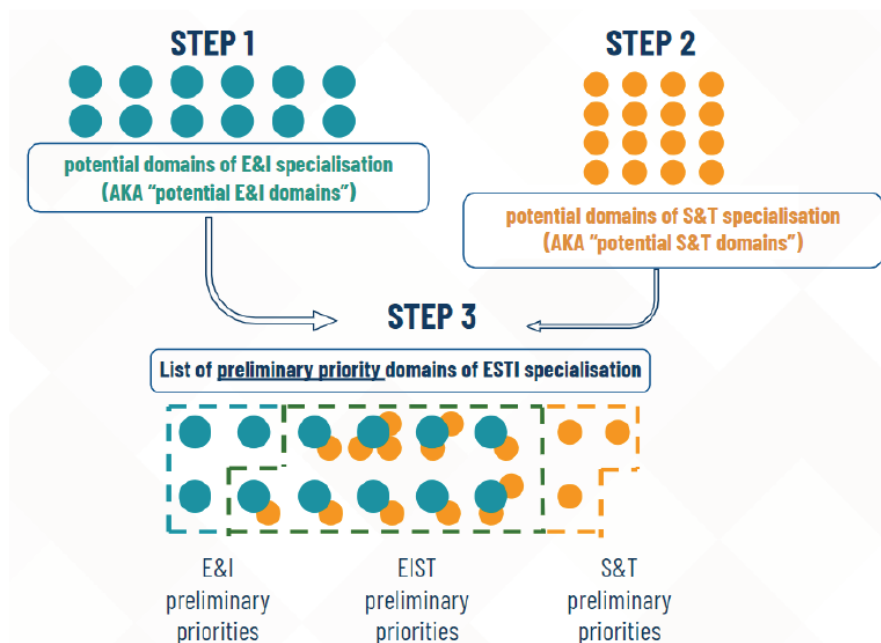
We are building on our joint achievements...

Capacity building, expert support and Smart Specialisation Strategies in all Ukrainian regions



Kiev 18-19 March 2019 – Training for regional administration
25 regions, ~ 120 regional, national participants

...and ongoing work: Economic, Innovation Scientific and Technological potential in EaP region



E&I specialisations for Ukraine

The economic and innovation analysis for Ukraine leads to the identification of the following E&I specialisations:

- **Food products (NACE 10)** based on an economic specialisation, the identification of a food and agriculture cluster, and specialised performance in related goods exports.
- **Wood and of products of wood and cork (NACE 16)** based on an economic specialisation, and specialised performance in related goods exports.
- **Basic metals & Fabricated metal products (NACE 25, 26)** based on an economic specialisation, and specialised performance in related patents.
- **Machinery and equipment (NACE 28)** based on an economic specialisation, specialised performance in related patents, and specialised performance in related goods exports.
- **Manufacture of motor vehicles (NACE 29)** based on an economic specialisation.
- **Wholesale and retail trade (NACE 46)** based on an economic specialisation, and specialised performance in venture capital and start-ups.

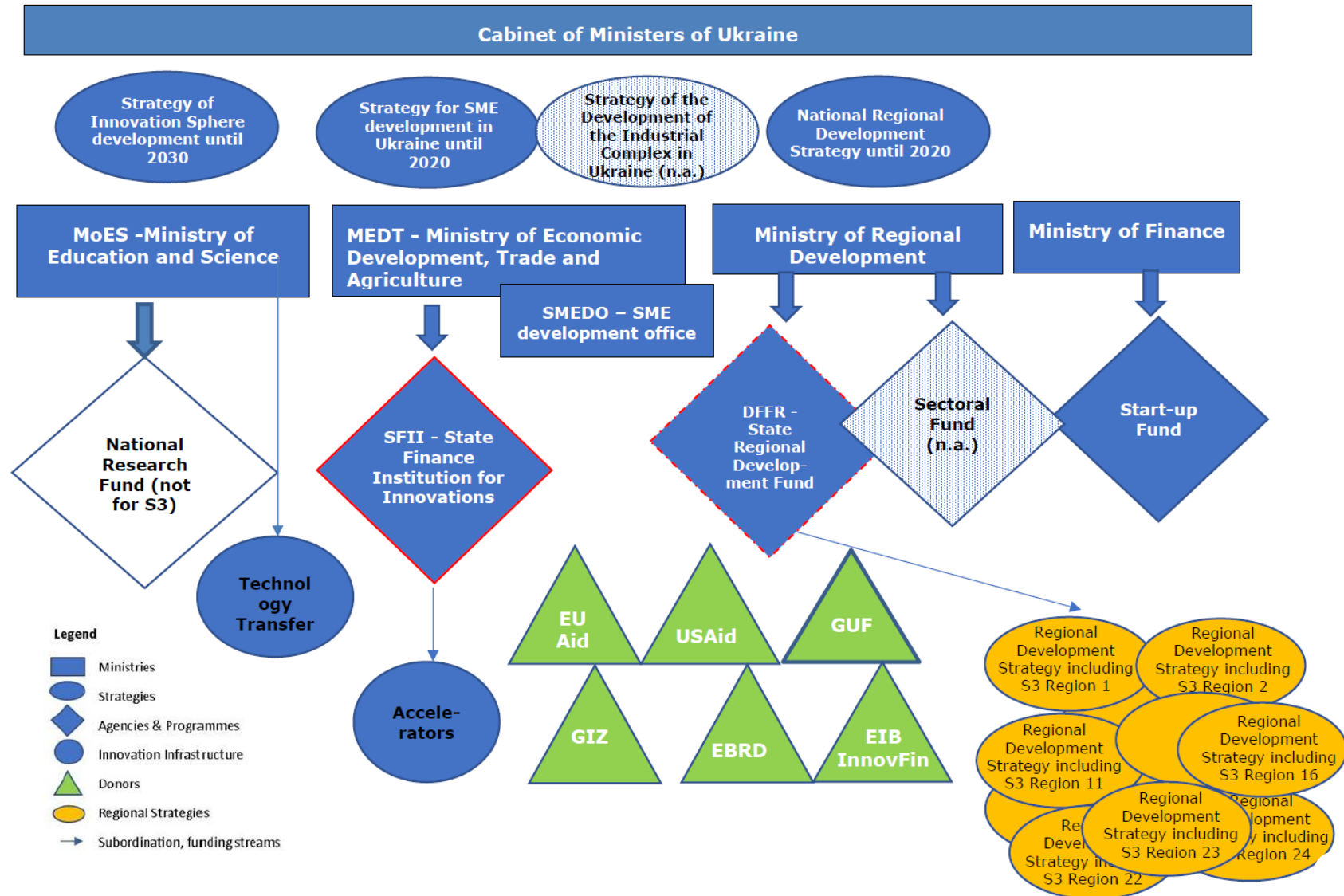
Ukraine: Summary of the strengths of the S&T specialisations

Ukraine	Critical Mass		Specialisation		Excellence		Summary
S&T Domain	Pubs.	Pat.	Pubs.	Pat.	NCI*	EC projects*	Count of ✓
Agrifood							0
Biotechnology		✓	✓	✓			3
Chemistry and chemical engineering							0
Electric and electronic technologies		✓	✓				2
Energy			✓	✓	✓	✓	4
Environmental sciences and industries						✓	1
Fundamental physics and mathematics	✓						1
Governance, culture, education and the economy	✓				✓	✓	3
Health and wellbeing	✓	✓		✓		✓	4
ICT and computer science	✓						1
Mechanical engineering and heavy machinery		✓	✓		✓		3
Nanotechnology and materials	✓	✓				✓	3
Optics and photonics				✓	✓		2
Transportation			✓	✓	✓		3

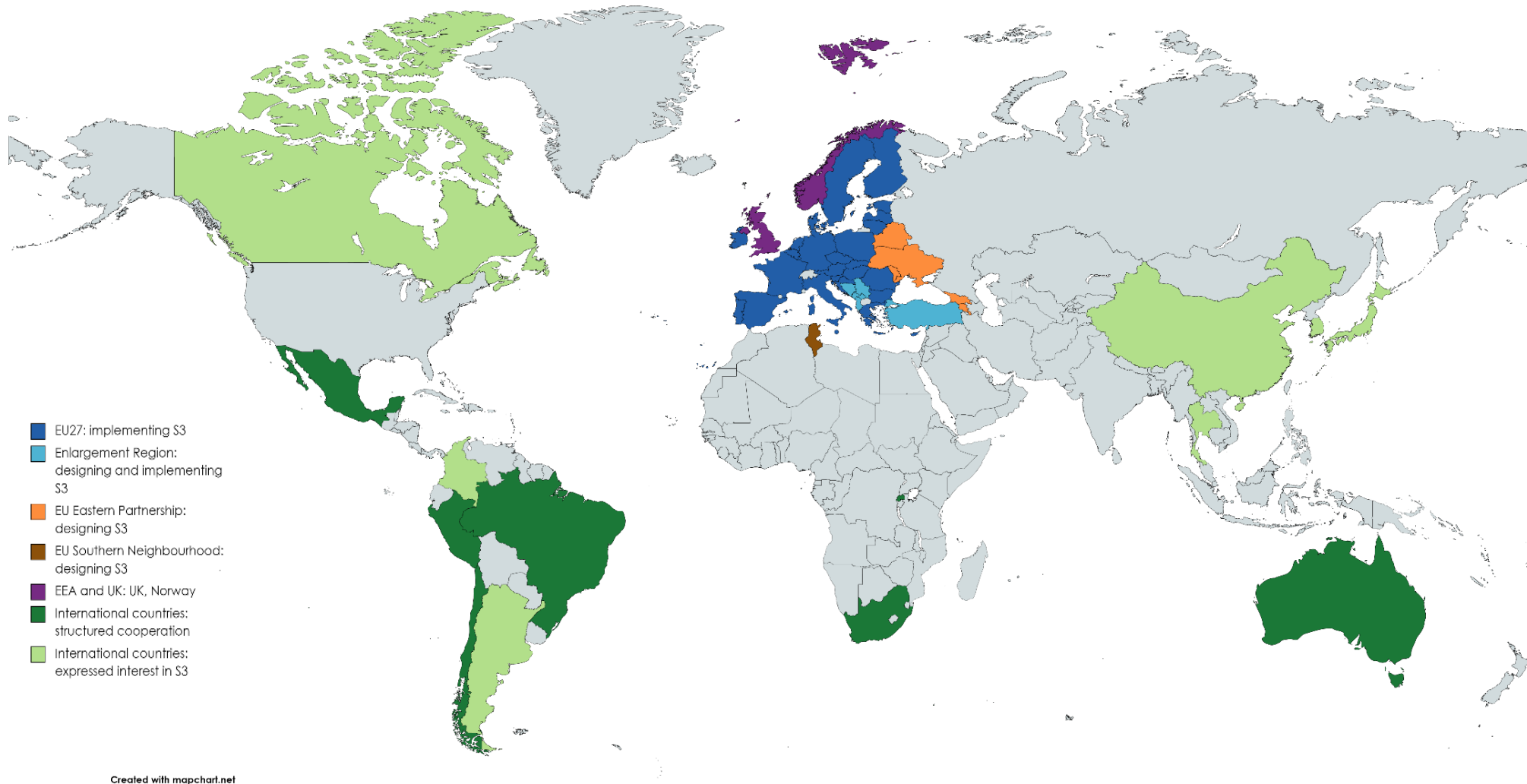
* NCI = Normalised citation impact

* EC projects = EU-funded R&I projects

S3 implementation opportunities in EaP: case of Ukraine



We are happy to see and support the global uptake of Smart Specialisation concept



Created with mapchart.net

But we are aware that change is coming

New political priorities

- European Green Deal
- Green and digital transitions

External shock

- COVID-19
- Crisis and new paths to recovery

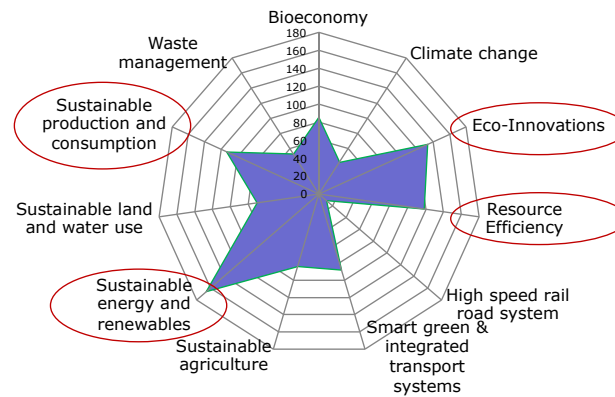
New ideas and values

- Sustainability transitions
- Global commons and Agenda 2030

Smart Specialisation already delivers green and digital transitions

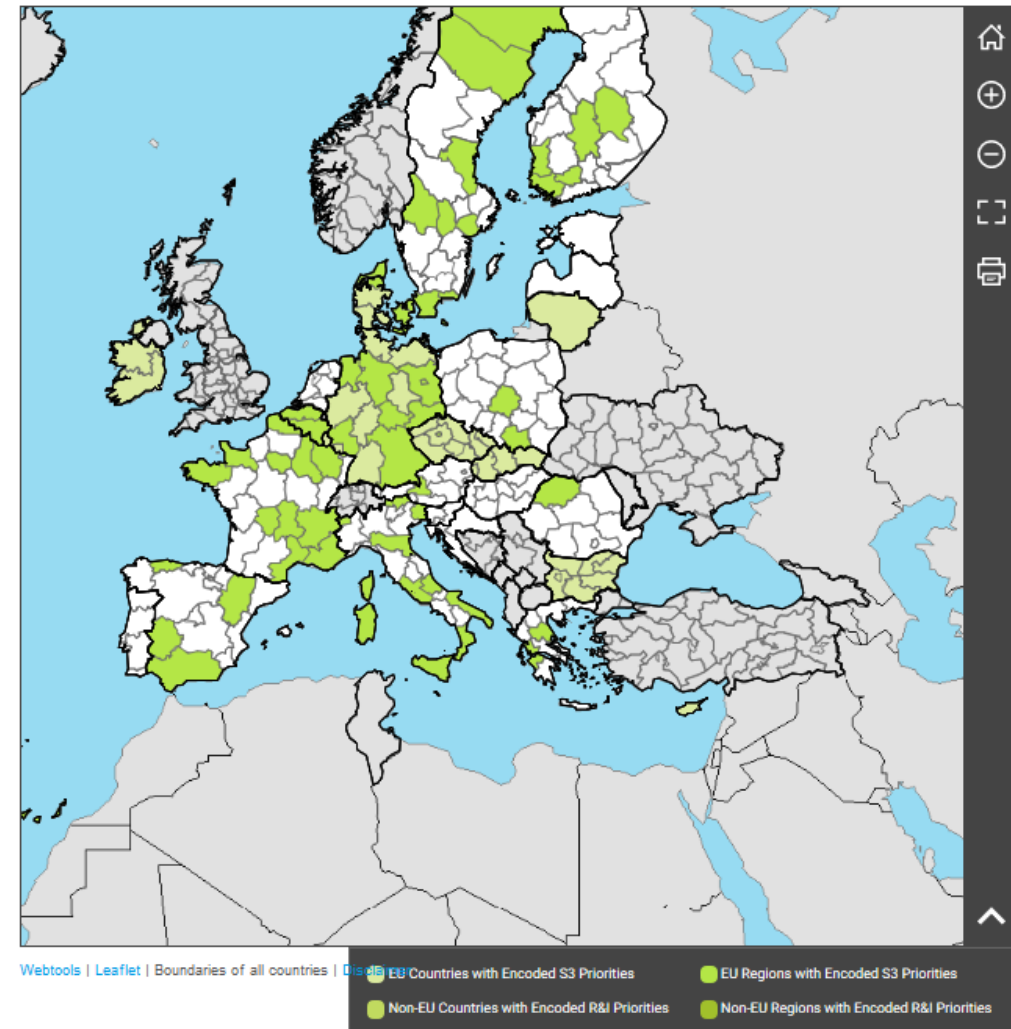
Green and digital priorities in Smart Specialisation Strategies in 2014-2020

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



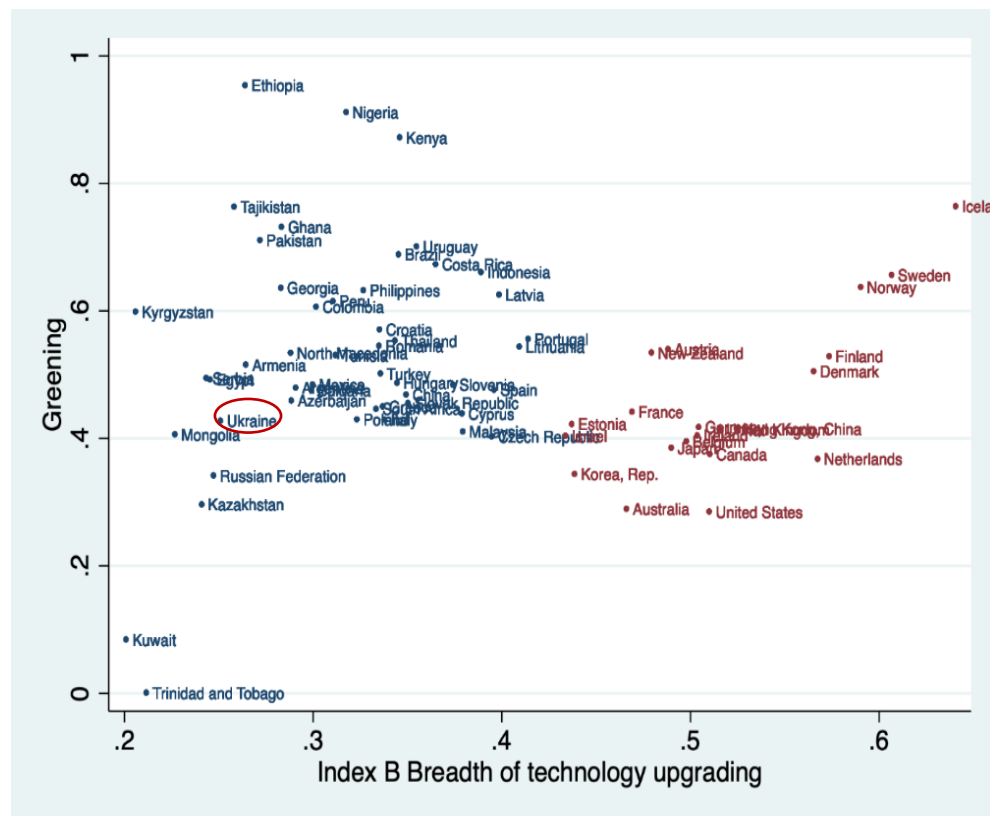
Green S3 priorities in 2014-2020

Digital S3 priorities in 2014-2020

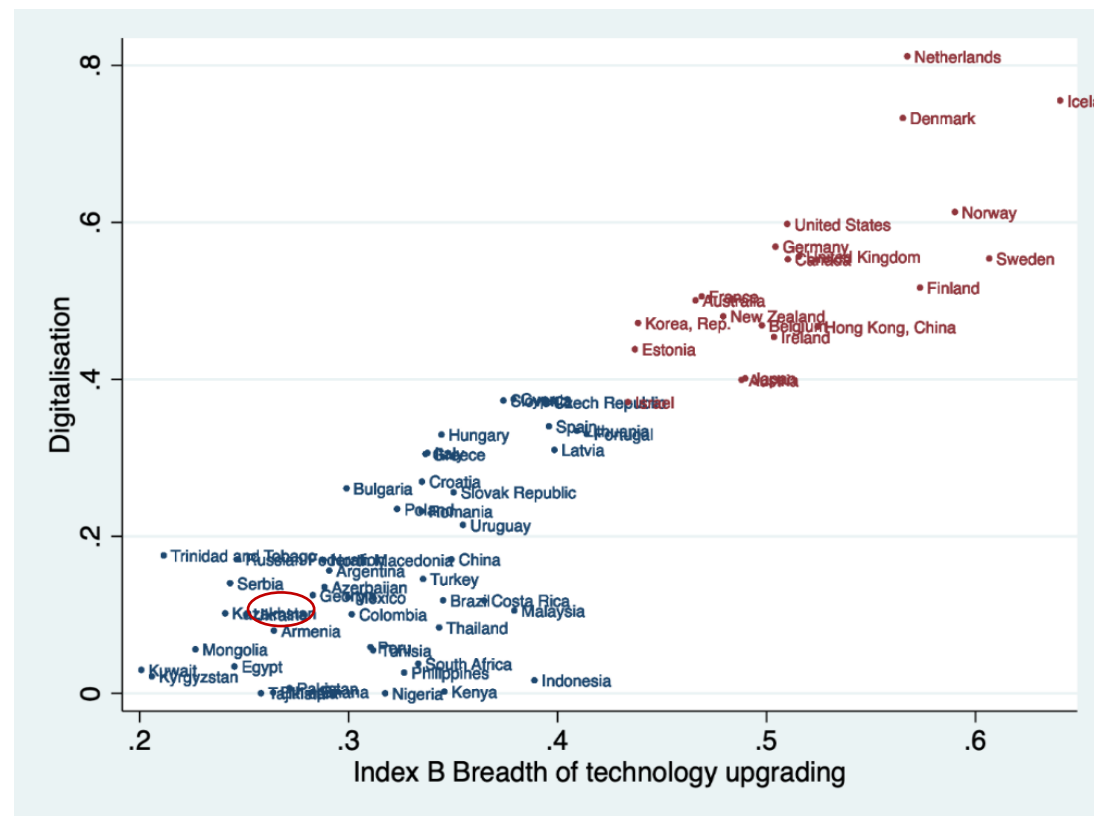


But we can do better!

Relations between structural upgrading and greening and digitalisation



U-type of relationship > greening is high at low levels of structural upgrading & it worsens significantly at intermediate levels of structural upgrading & improves again at higher levels of structural upgrading.



- Digitalization seems very closely correlated to the overall structural upgrading (Index B):
- The relationship is **positive in both sub-periods and is positive across both clusters**

Early results of JRC research project with UCL: new ways of measuring innovation potential in middle income and transition economies

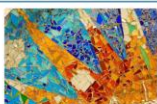
Smart Specialisation as an STI for SDGs roadmap

through science

to piloted methodology

From practice

Regional inspirations



S3 for SDGs in Catalonia



S3 for SDGs in South Finland (Etelä-Suomi)



S3 for SDGs in Puglia



S3 for SDGs in Lapland



S3 for SDGs in Abruzzo

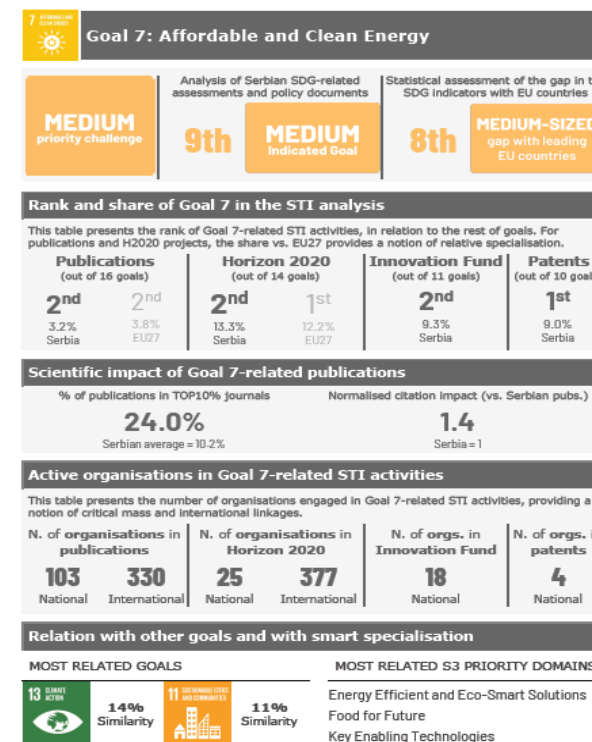


S3 for SDGs in the Northern Netherlands

26 cases in Europe and beyond



and cooperation



Serbia

Ukraine

Tunisia

Czech Republic

UN DESA

World Bank

UNESCO

UNCTAD

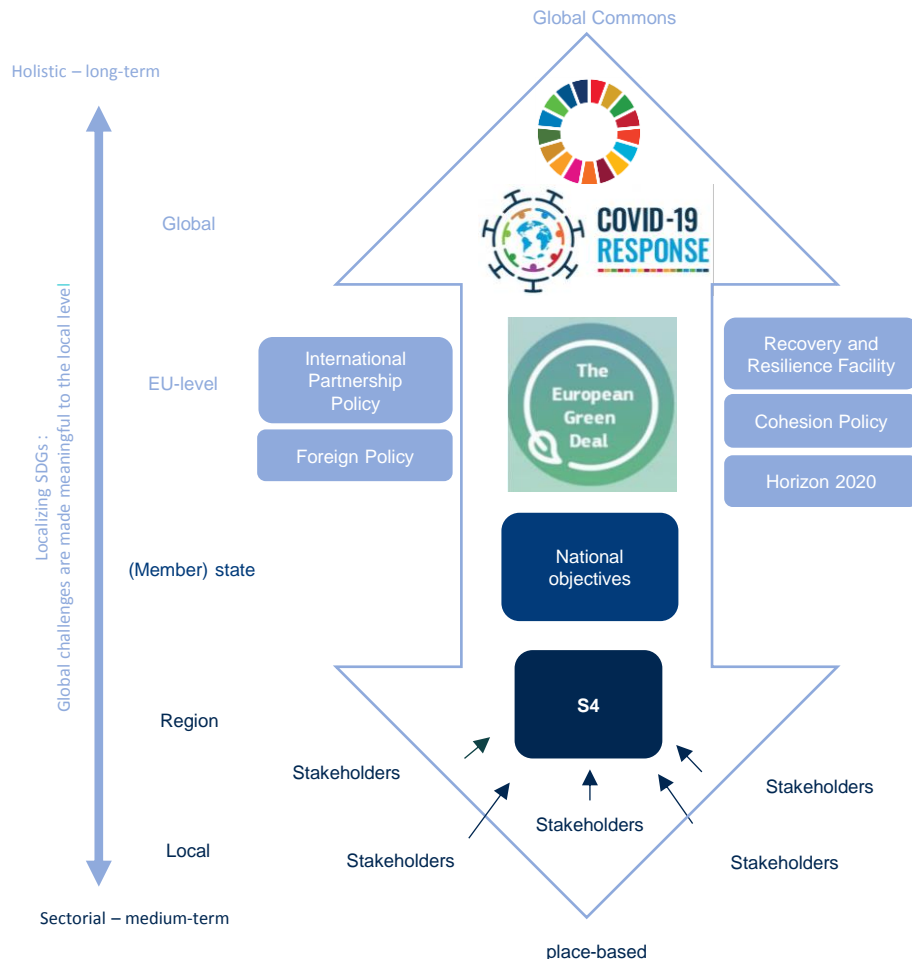
UNIDO

OECD

TIPC

Smart Specialisation for SDGs – key ideas

Duality of directionality



New definition

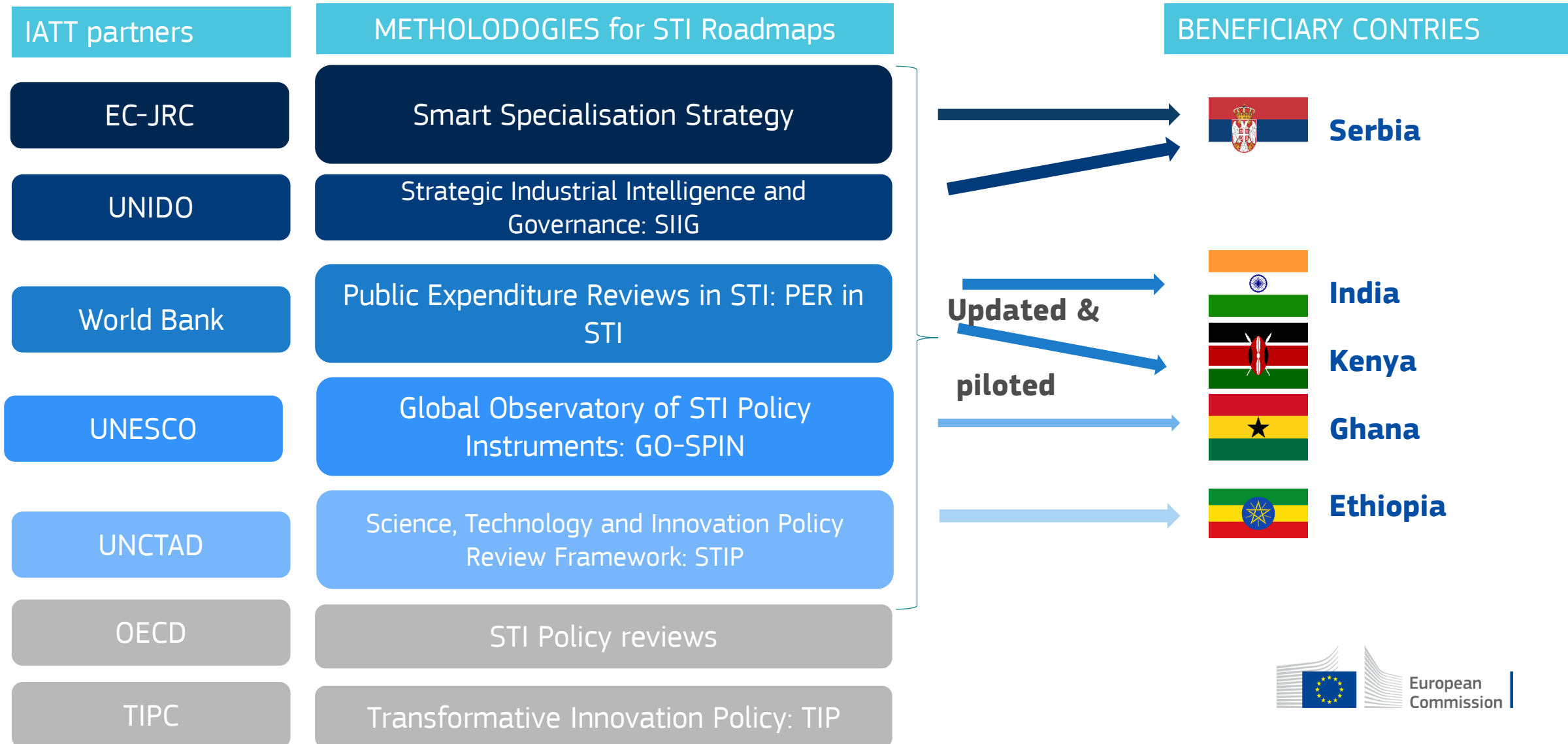
Innovation is no longer considered only as a means to achieve economic growth but also to find solutions to societal and environmental challenges. This new type of innovation will be a basis for a different type of competitive advantage and creation of markets to upscale new green technologies and solutions.



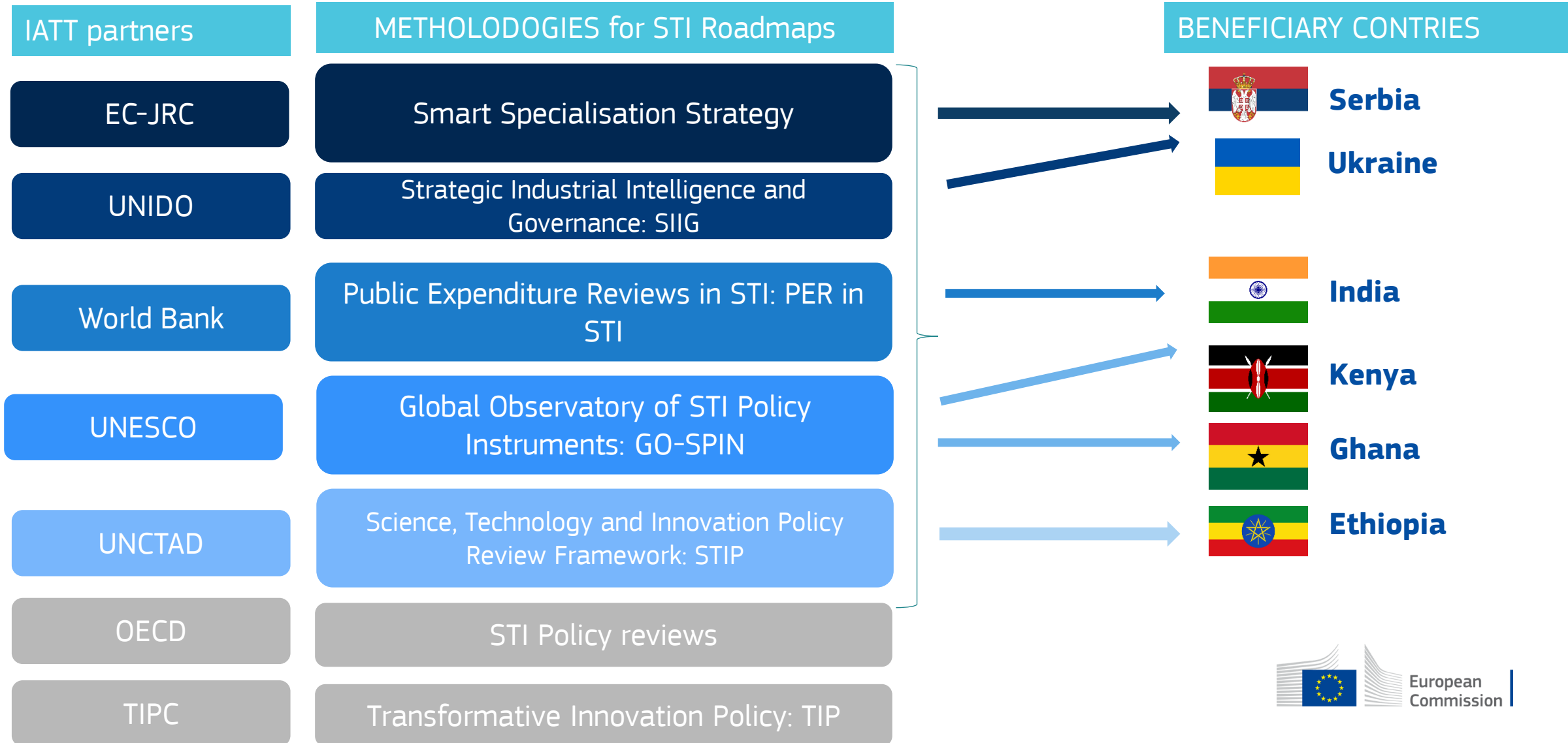
New rules

- Greater inclusivity
- Forward-looking orientation
- Agile management
- Policy coherence

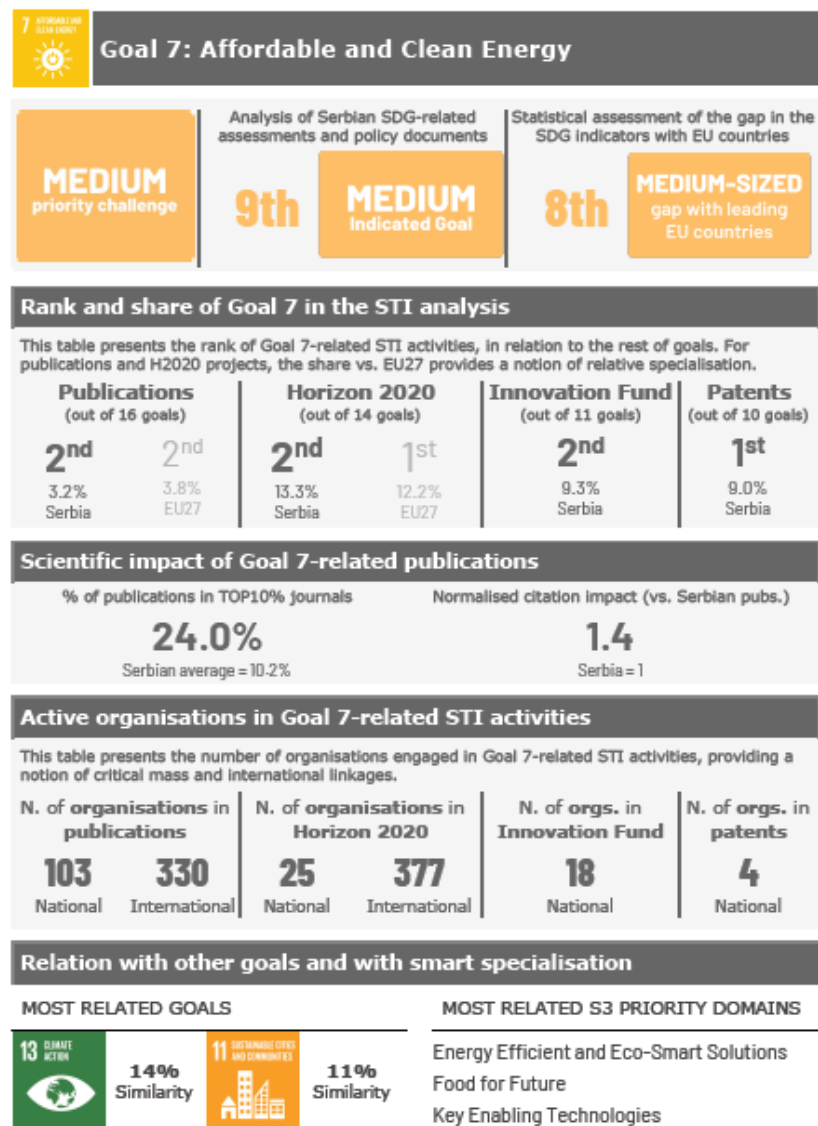
Global Pilot Programme on STI for SDGs roadmaps: phase 1 (2018-2020)



Global Pilot Programme on STI for SDGs roadmaps: phase 2 (2021)



Pilot activity in Serbia



Methodological steps:

- Identifying synergies with other policies: Assessment of national SDG framework in Serbia
- Evidence check: Statistical assessment of key challenges
- Stakeholder validation of challenges
- Identification of existing **STI potential for SDGs**
- Identification of **collaboration networks** to deliver change
- Update and revision of **Smart Specialisation priorities:** synergies and trade-offs
- Action plan: **STI for SDGs Roadmap**
- Continued **entrepreneurial discovery for sustainable innovation:** discovery for recovery – experiments and pilots
- SDG budgeting and review of the policy mix**

See more here:

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

What we would like to achieve



How we could work in Ukraine: input for discussion

Potential steps:

- Ensuring coordination with the ongoing smart specialisation process at regional level and upcoming local initiatives
- Establishing a governance structure able to manage the process and implement the results
- Identifying synergies with other policies: Assessment of national SDG framework in Serbia
- Using the results of Ukraine's Voluntary National Review for SDG prioritisation
- Stakeholder validation of challenges
- Identification of existing STI potential for SDGs
- Identification of collaboration networks to deliver change
- Stakeholder dialogue: entrepreneurial discovery for sustainable innovation: discovery for recovery
- National Smart Specialisation priorities and Action plan included in the STI for SDGs Roadmap

Thank you

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