

# Smart Specialisation beyond EU: A Focus on Western Balkans

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Session: Advancing R&I Ecosystems in the Western Balkans with regard to their ERA Integration

# Smart Specialisation: A place-based policy approach



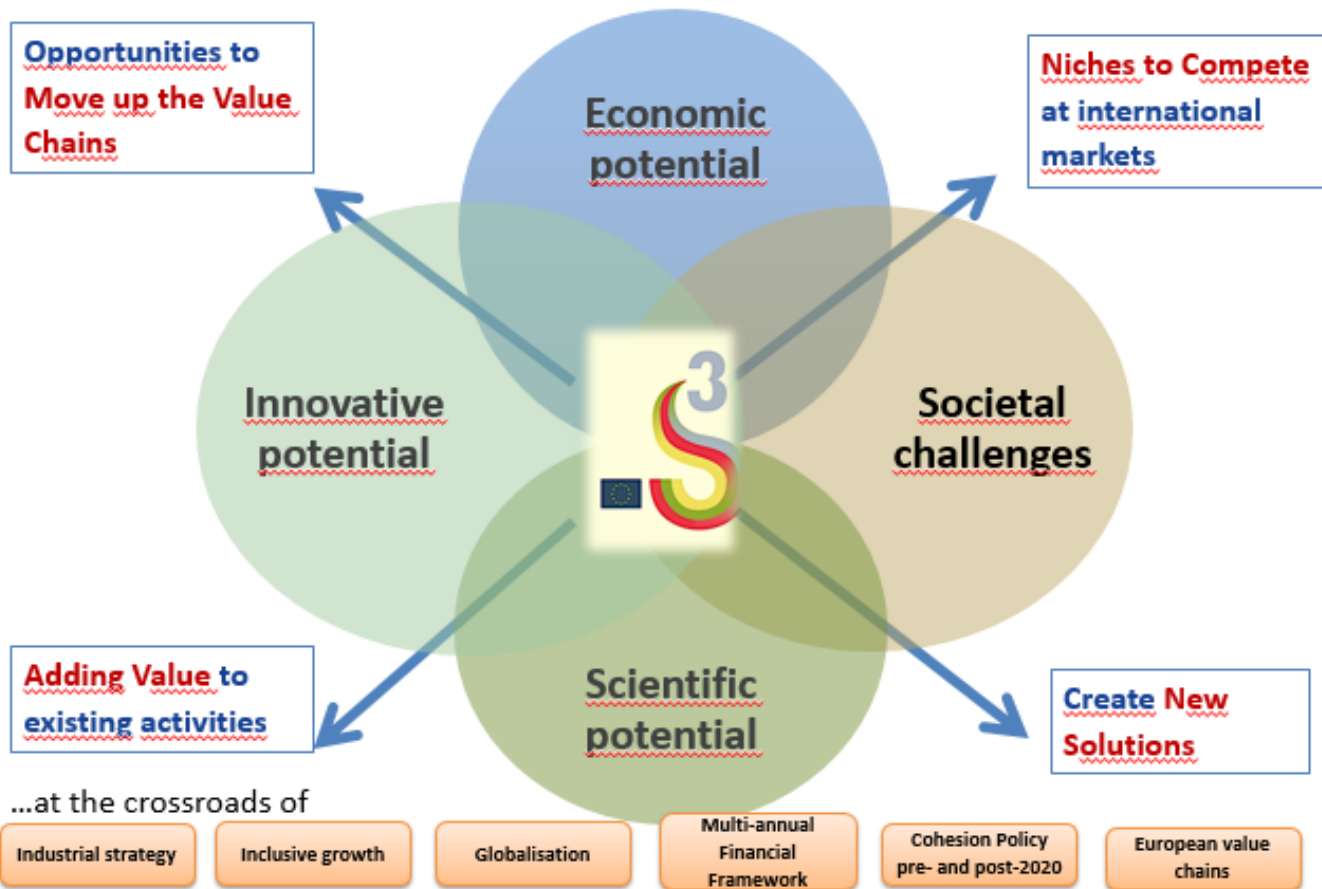
## Key concept of EC Cohesion Policy for **place-based reg. innovation**

- National or regional **research and innovation** strategies
- Setting priorities to build competitive advantage through Entrepreneurial Discovery Process (bottom-up)
- Better match of R&I strengths to business needs
- Address emerging market opportunities, market niches
- More effective use of EU Structural Funds

EU Regulation 1301/2013 of the European Parliament and of the Council of 17/12/2013

As a result...2014-2020: Over 120 Smart Specialisation Strategies, designed and implemented at the national and regional levels in the EU.

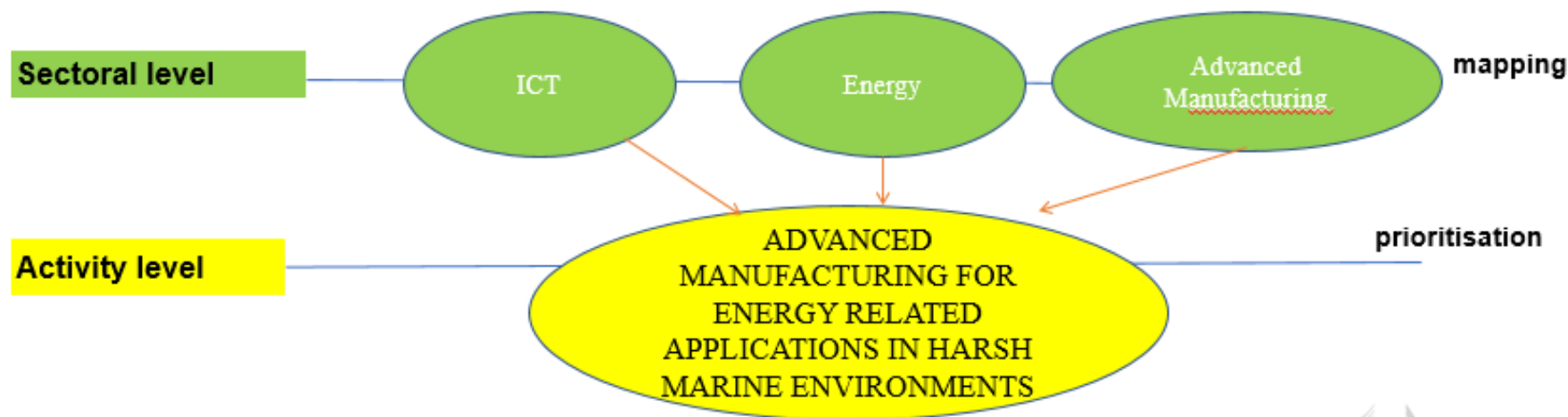
# Concept of Smart Specialisation (S3)



## S3: The Notion of Specialisation

*S3 is about developing new specialities based on regional concentration of knowledge, competence and market potentials (dynamic)*

*S3 is NOT to be understood as a sector specialised or relative to other regions (passive)*



# S3 Framework in the EU and Beyond



# Enlargement Perspective for Enhanced EU Engagement with the Western Balkans

## SIX NEW FLAGSHIP INITIATIVES TO SUPPORT THE TRANSFORMATION OF THE WESTERN BALKANS

Through six flagship initiatives, the Western Balkans Strategy sets out the EU's unprecedented support to the transformation process in the Western Balkans, targeting specific areas of interest for both the EU and the Western Balkans countries:



### INITIATIVE TO STRENGTHEN THE RULE OF LAW

Existing tools, such as detailed action plans, will be expanded to all Western Balkans countries. Assessment of reform implementation will be enhanced, including through new advisory missions. Greater use will be made of leverage provided in the negotiating frameworks with Montenegro and Serbia.



### INITIATIVE TO REINFORCE ENGAGEMENT ON SECURITY AND MIGRATION

Reinforced cooperation on fighting organised crime, countering terrorism and violent extremism and on border security and migration management. Europol liaison officers will be posted in the region; Joint Investigation Teams further promoted and status agreements with the European Border and Coast Guard Agency concluded.



### INITIATIVE TO ENHANCE SUPPORT FOR SOCIO-ECONOMIC DEVELOPMENT

This will include expanding the Western Balkans Investment Framework, a significant boost in the provision of guarantees to crowd in private investment, support to start-ups and SMEs and greater trade facilitation. A new reinforced social dimension will see more focus on employment and social policies, with increased financial assistance to support the social sector, in particular education and health. Funding under Erasmus+ will be doubled.



### INITIATIVE TO INCREASE TRANSPORT AND ENERGY CONNECTIVITY

Within the region and with the EU, including new investment support. More effective use will be made of the Connecting Europe Facility in the Western Balkans countries. The EU's Energy Union should be expanded to the Western Balkans.



### INITIATIVE FOR A DIGITAL AGENDA FOR THE WESTERN BALKANS

This will include a roadmap to facilitate lowering roaming costs, support to the deployment of broadband and development of eGovernment, eProcurement, eHealth and digital skills.



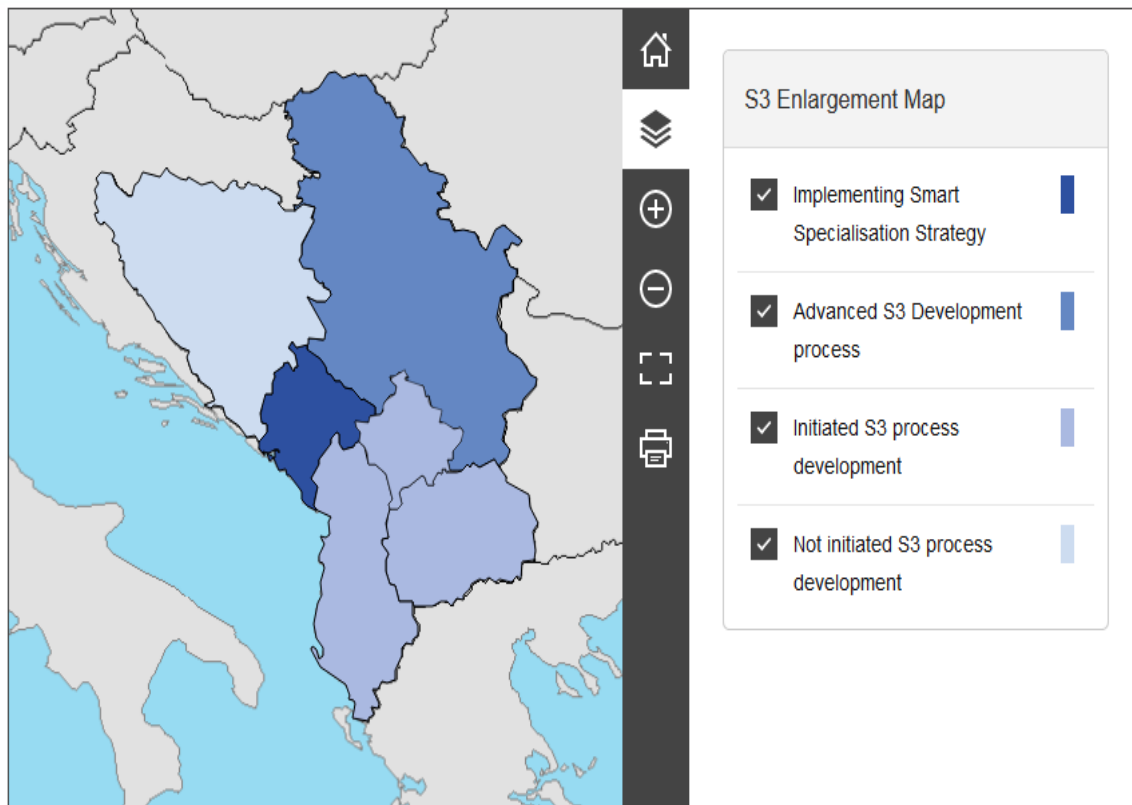
### INITIATIVE TO SUPPORT RECONCILIATION AND GOOD NEIGHBOURLY RELATIONS

This will include support to transitional justice, missing persons and increased cooperation in education, culture, youth and sport, and expanding the scope of the Regional Youth Cooperation Office. The Western Balkans will be fully associated to the European Year of Cultural Heritage. The EU - Western Balkans Heritage Route will be launched.



introduced to strengthen the Economic Reform Programme exercise, which clearly recognises the critical importance of the S3 approach for the Western Balkans

# Smart Specialisation in the Western Balkans: Current Status



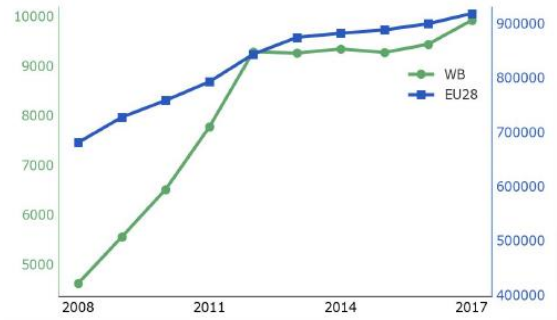
JRC (in cooperation with DG NEAR and DG RTD) supports WB's S3 through:

- Adjustments of the S3 process methodology;
- Targeted expert studies - GVCs;
- Customised ext. experts' support;
- SCOPE ("S3 Community Of Practice in the EU Enlargement region") mutual learning activities (trainings, WS, peer-reviews, etc.) aiming at strengthening the role of the region in the international value chains and encouraging coop. between the beneficiaries in the region on similar specialisation priorities.

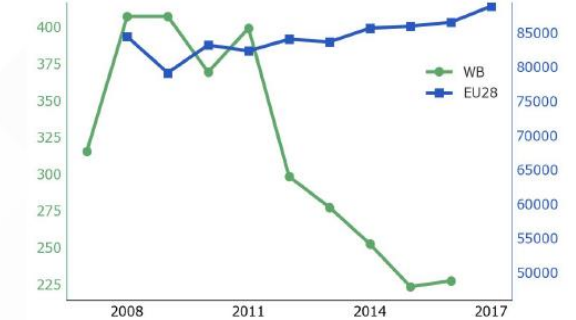
# Studies: Comparative Specialisation Analysis – WB-region vs. EU-28

## Scientific Potentials:

Evolution of No. of publications & patents (SIRIS Academic)

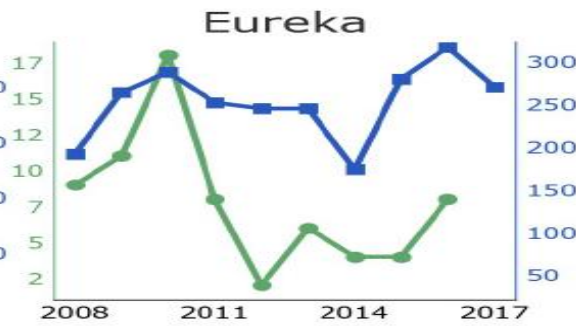


Output per year in scientific publications



Output per year in European patents, WB vs EU-28

Participation in the European Competitive Projects (SIRIS Academic)

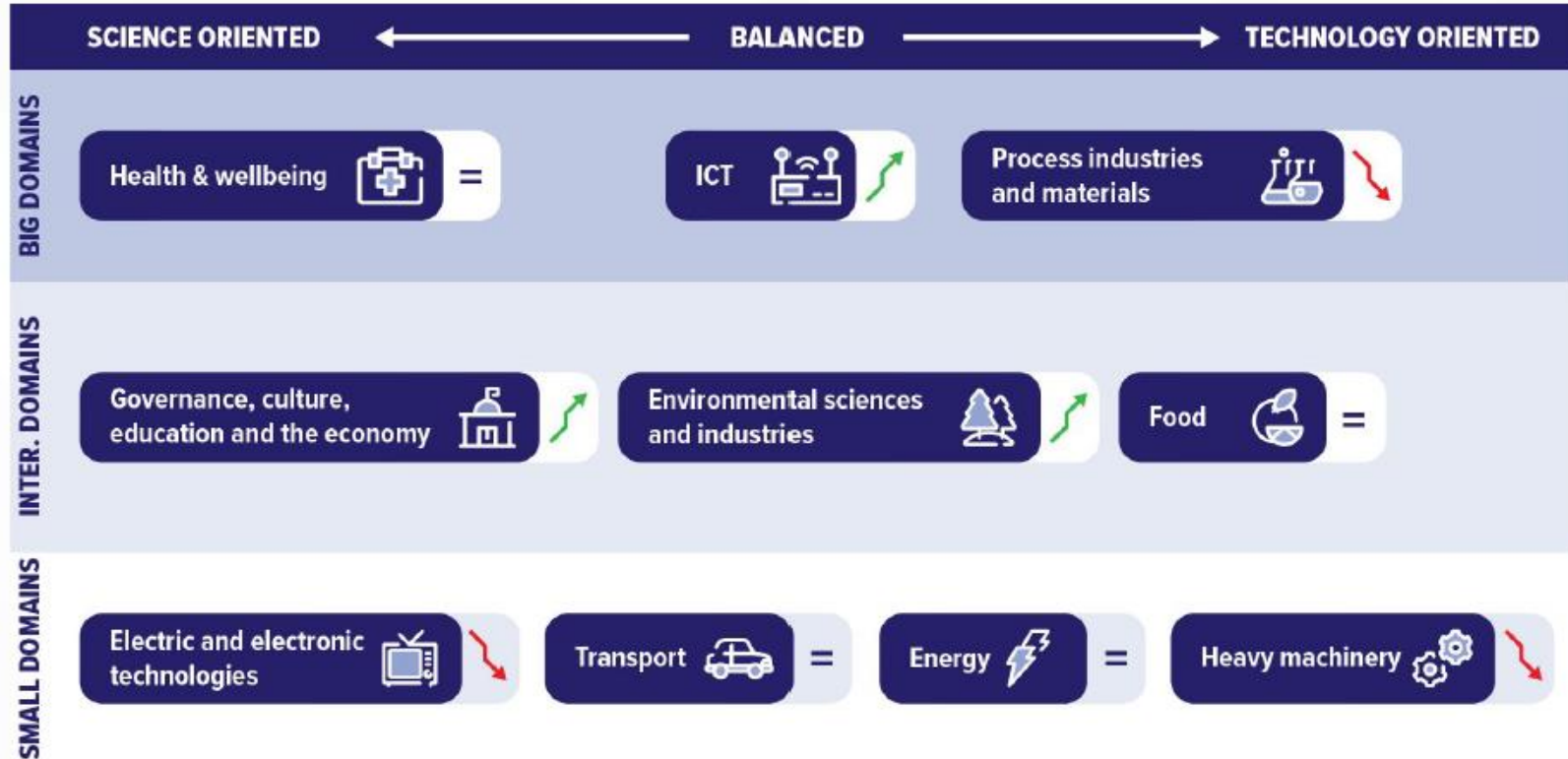


WB EU28



# Studies: Potential Specialisation Domains of Western Balkans

Temporal evolution of the potential specialisation domains in the Western Balkans 2008-2017 (SIRIS Academic)

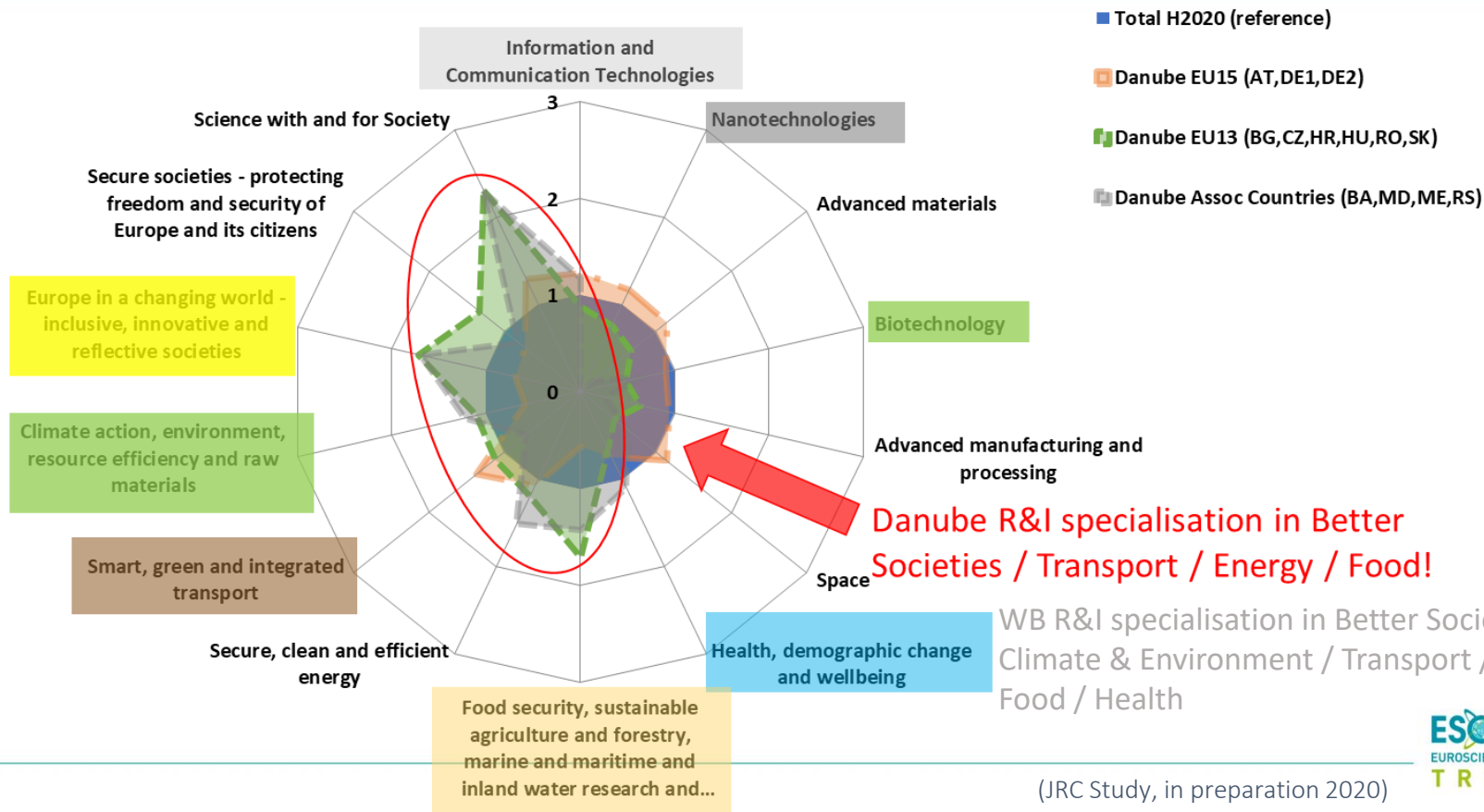


# JRC Study on S3 priorities alignment in the Danube Macro-region

Clustering of S3 Domains/Priorities by connectivity of R&I activities and semantics (JRC Study, in preparation 2020):

S3 Domain/Priority	Main Keywords
<b>Better Societies</b>	Governance, Social and Societal issues, Culture, Creative, Arts, Services, Leisure, Entertainment, Tourism, Business, Financial, Security, etc.
<b>Electronics &amp; ICT</b>	Industry 4.0, Computers, Software, Optics, Photonics, etc.
<b>Sustainable Energy</b>	Energy Efficiency, Renewables, Smart Grids, etc.
<b>Climate &amp; Environm. Sciences</b>	Biotechnology, Natural sciences, Conservation, Climate mitigation, Earth observation, Flora & Fauna, Pollution, Ocean & Seas, etc.
<b>Advanced Manufact. &amp; Materials</b>	Process Industries, Machinery, KETs, Micro- & Nano-technology, etc.
<b>Agro-Food</b>	Farming, Rural, Sustain. agriculture, Healthy food, Wine/Beverages, Agri. products, Food processing, Food safety, Freshwater/Marine food, Forestry/Wood, etc.
<b>Health &amp; Wellbeing</b>	Medicine, Medical technologies, Pharmaceutical, Leisure, Spa, Healthcare, etc.
<b>Transport &amp; Mobility</b>	Vehicles, Aero/Space, Shipping, Transport Safety, Transport Security, Urban issues, Smart Cities, etc.
<b>Other</b>	Basic sciences, Mathematics, Physics, Fundamental research, Blue sky research, etc.

# Relative R&I Specialisation by H2020 Projects in clustered S3 Domains



# Specialisation by clustered S3 Domains: Analysis of S3 Priorities encoded in "Eye@RIS3"

Total 178 S3 (R&I - for some Non-EU) priorities clustered in 8+1 S3 Domains  Danube NMS  WB

S3 Domain/Priority	No. of related S3 Priorities in the Danube territories (MS/regions)	Coverage by EUSDR Priority Areas
Better Societies	31	6 (PAs: 3,8,9,10,11 + PA7)
Electronics & ICT	21	2 (PA7 + PA11)
Sustainable Energy	18	3 (PA2 + PA7)
Climate & Environ. Sciences	24	6 (PAs: 4,5,6,11 + PA7)
Advanced Manuf. & Materials	32	1 (PA7 + partially PA8)
Agro-Food	21	2 (PA7 + PA11 + partially PAs: 3,4)
Health & Wellbeing	19	1 (PA7 + partially PAs 9,10)
Transport & Mobility	11	3 (PA1 + PA7 + PA11)
Other (Mathematic & Physics)	1	1 (P7 + partially PA9)
Total	178	All EUSDR PAs covered

# Danube Strategy Pillars with Priority Areas vs. S3 Domains of Interest

S3 Domains /Priorities	Connecting the region (PAs 1-3)			Protecting the Environ. (PAs 4-6)			Building Prosperity (PAs 7-9)			Strengthening the region (PAs 10-11)		Total
	Mobility & Multimod.	Sust. Energy	Culture & Tourism	Water quality	Environm. risks	Biodivers, landscapes air & soil	Knowledge society	Competitiv.	People & Skills	Inst.capacity & Cooperation	Security	
Better Societies			16				8	1	2	4	9	31
Electronics&ICT							21				9	21
Sust. Energy		18					18				1	18
Climate & Env. Sciences				11	23	10	24				1	24
Adv.Manufact. & Materials							32	23				32
Agro-Food			2	2			21				1	21
Health & Wellbeing							19					19
Transport & Mobility	11						11				1	11
Other							10		1			11

 Danube NMS  WB

Note: The "Total" mismatch the line sums partly as in some cases certain S3 priority addresses more Danube Priority Areas (PAs), in other cases different S3 priorities address one particular Danube PA.

(JRC Study, in preparation 2020)

# Potential for S3 Cooperation in Danube on prevailing S3 Domains:

S3 Domain/Priority	Correlation of S3 Domains with Danube Priority Areas	Potential for Danube wide R&I Collaboration with broader EU impact	No. of related S3 Priorities in the Danube territories (MS/regions)
Better Societies	+++++	+++++	31
Electronics & ICT	+++	+++	21
Sustainable Energy	++++	++++	18
Climate & Environmental Sciences	++++	+++	24
Advanced Manufacturing & Materials	++	++++	32
Agro-Food	+++	++++	21
Health & Wellbeing	+++	++	19
Transport & Mobility	+++	++	11
Other	-	-	11

Potential for WB S3 cooperation in Better Societies / ICT / Energy / Climate & Environment / Food / Health / Transport where it has certain comparative advantages based on H2020 participation and macro-regional cooperation

Specialisation domains in the Western Balkans  
with Potential 2008-2017 (SIRIS Academic 2019)

vs.

Matching of Clustered S3 Domains with available S3  
priorities for WBCs encoded in "Eye@RIS3"  
(JRC Study 2020)

Specialisation Domains of WBs with Growth Potential (SIRIS Study)	Correspondence with the Clustered S3 Domains (JRC Study)	Matching with the S3 Priorities for the available WBCs (ME, RS & MK (mapping info only!))
Governance, Culture, Education and Economy	Better Societies (incl. Creative Ind.)	++
ICT	Electronics & ICT	++(+)
Energy	Sustainable Energy	++(+)
Environmental Sciences and Industries	Climate & Environ. Sciences	++(+)
Food	Agro-Food	++(+)
Health & Wellbeing	Health & Wellbeing	+
Transport	Transport & Mobility	-

(JRC Study, in preparation 2020)

# JRC S3 supporting activities for the Enlargement region in 2020

- S3 Fiches: Smart Specialisation in the Western Balkans and Turkey



- Country Pages:

## S3P-Website "EU Enlargement"





Thanks for your attention...

Any questions?

You can find us at <http://s3platform.jrc.ec.europa.eu/home>  
[Ales.GNAMUS@ec.europa.eu](mailto:Ales.GNAMUS@ec.europa.eu)

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