Smart Specialisation Strategy in Serbia – Development, Implementation and Transnational Cooperation

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S3 in Serbia

The process of development of S3 in Serbia was initiated by the Ministry of Education, Science and Technological Development

- Approved by Serbian Government in February 2020
- Action Plan of the Strategy approved in April 2021

General Goal:

- Directed development of the Republic of Serbia towards a highly competitive economy through research, development, innovations, and entrepreneurial initiatives in the 4S areas.

Specific Objectives:

- Research and development focused on 4S priorities;
- Economic growth supported through R&D, innovation and collaboration among the quadruple helix participants;
- Education focused on innovations and entrepreneurship;
- Improved business environment through optimization and digitalization of procedures in 4S areas;
- Internationalization of the economy through involvement in regional and global value chains in the 4S areas.

4S (Serbian S3) Priority areas

Vertical

- **Food For Future**
  - High Tech Agriculture
  - Value Added Food products
  - Sustainable Agrifood Production

- **Information and communications technologies**
  - Custom Software Development
  - Software Solutions Development

- **Future Machines and Manufacturing Processes**
  - Machines for specific purposes
  - Information in the Smart Management Service - Industry 4.0
  - Smart Components and Tools
  - Combustion devices for eco-friendly and sustainable fuels

- **Creative industries**
  - Creative audio-visual production
  - Video Games and Interactive content
  - Smart Packaging

Horizontal

- **Key Enabling Technologies (KET) and Emerging Technologies**
  - Photonics
  - Advanced materials
  - Advanced manufacturing technologies and electronics
  - Industrial biotechnology
  - Blockchain technologies
  - Autonomous driving, aerospace systems and engineering

- **Energy Efficient and Eco-Smart Solutions**
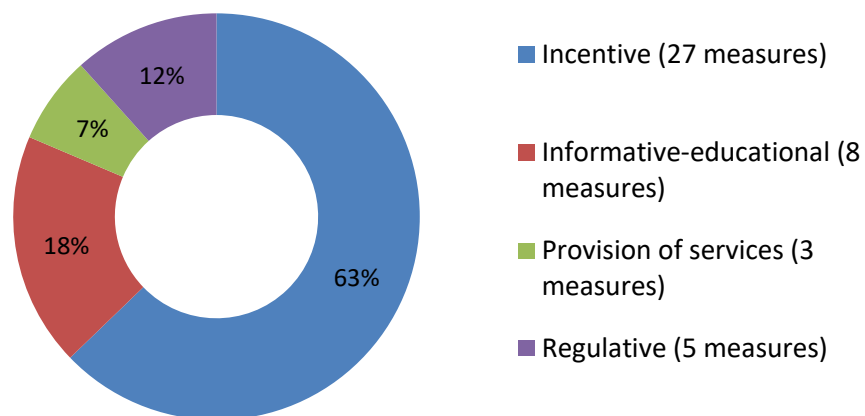 - Eco-Smart Energy Sources

4S Implementation

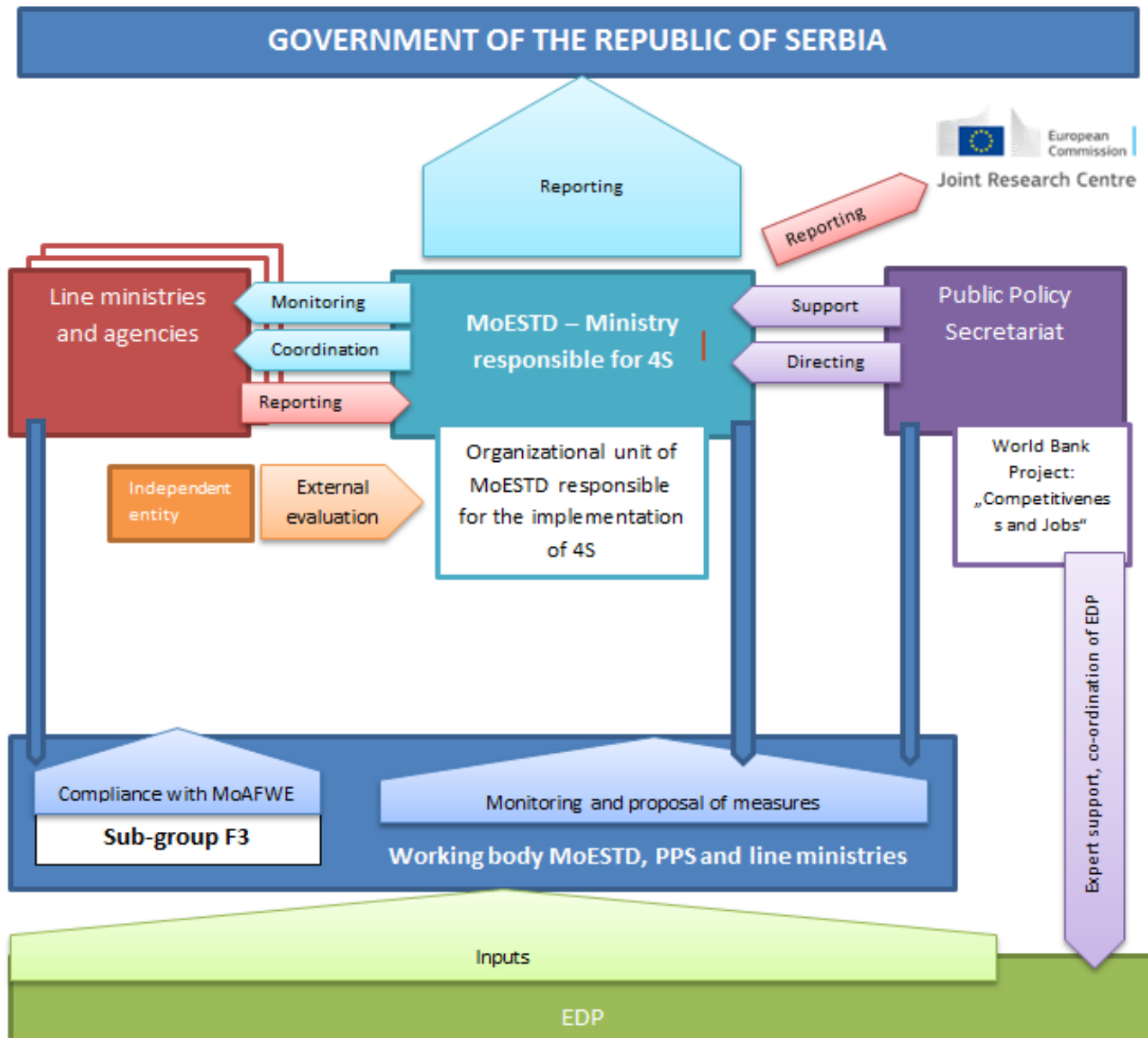The Policy Measures mainly relate to:

- **streamlining research activities** through financing projects focused on the needs of the 4S and strengthening cross-sectoral cooperation,
- **developing necessary infrastructure** – both for research and business sectors in the priority areas of the 4S,
- **strengthening and modernizing educational activities** in accordance with the needs of the 4S priority areas,
- **promotion of research and innovation** potential and offer in the 4S priority areas,
- **further development of the ecosystem** necessary for the full effects of research and innovation for the development of a knowledge-based economy.

Type of Policy Measures (43 in total)

- Incentive (27 measures) — 63%
- Informative-educational (8 measures) — 18%
- Provision of services (3 measures) — 7%
- Regulative (5 measures) — 12%

Institutions responsible for the implementation of Policy Measures:

➢ Ministry of Education, Science and Technological Development
➢ Ministry of agriculture forestry and water management
➢ Ministry of Economy
➢ Innovation Fund
➢ Science Fund
➢ Public Policy Secretariat
➢ The Center for the Promotion of Science
➢ Ministry of Culture and Information
➢ Ministry of foreign affairs

Implementation and Monitoring Framework

The contribution of the 4S to the SDGs

- Global Pilot Programme on STI for SDGs Roadmaps: **Serbia – Pilot country**

- Stakeholder consultation process: 4S priority areas have the potential to **address the identified global challenges and contribute to the SDSs**.

	Information and communication technologies	Food for Future	Creative Industries	Future Machines and Manufacturing Systems	Energy Efficient and Eco-Smart Solutions	Key Enabling Technologies
Goal 1. No Poverty	Indirect	Indirect				
Goal 2. Zero Hunger		Direct	Indirect	Indirect	Indirect	Indirect
Goal 3. Good Health and Well-being	Direct		Indirect		Indirect	Indirect
Goal 4. Quality Education	Direct		Direct			
Goal 5. Gender Equality	Indirect		Indirect			
Goal 6. Clean Water and Sanitation		Indirect		Indirect		Indirect
Goal 7. Affordable and Clean Energy	Direct	Indirect	Indirect	Indirect	Direct	Indirect
Goal 8. Decent Work and Economic Growth	Indirect	Indirect	Indirect	Indirect	Indirect	Indirect
Goal 9. Industry, Innovation and Infrastructure	Direct	Indirect	Indirect	Direct	Indirect	Direct
Goal 10. Reduced Inequalities	Indirect		Indirect			
Goal 11. Sustainable Cities and Communities	Indirect			Indirect	Indirect	Indirect
Goal 12. Responsible Consumption and Production		Indirect	Direct		Indirect	Indirect
Goal 13. Climate Action		Indirect	Indirect	Indirect	Indirect	Indirect
Goal 14. Life Below Water		Indirect	Indirect	Indirect		
Goal 15. Life on Land		Indirect	Indirect	Indirect	Indirect	
Goal 16. Peace, Justice and Strong Institutions						

Source: European Commision (2019). Pilot methodology for mapping Sustainable Development Goals (SDGs) in the context of Smart Specialization Strategies, SIRIS Academic S.L.

RIS3 – transnational cooperation

Working Group on RIS3 within the EUSDR Priority Area 7 (Knowledge Society):

- Initiating RIS3 development in the non-EU countries of the Danube region (Serbia, Montenegro, Bosnia and Herzegovina, Ukraine, Moldova).
- Cooperation with the JRC, attending networking events and fostering collaboration in the region.
- Exploring possibilities for cooperation with other macro-regional strategies in the framework of RIS3 implementation.

PA7 **Analytical Study**: Governance, financing, monitoring and evaluation of Smart Specialization

- Analysis and guidelines from EU Danube region countries (https://knowledgesociety.danube-region.eu/wp-content/uploads/sites/8/sites/8/2020/05/PA7_RIS3_study.pdf)

Activities of the WG on RIS3 are in line with the **EUSDR Action plan**

and especially the following PA7 actions:

- ACTION 5: To support exchange of information and experience sharing for the purpose of preparation of future strategic R&I documents applicable in the new programming period.
- ACTION 6: To promote horizontal cooperation in science and technology across all PAs and other MRS.

The goal of the **WG on RIS3 in the next period**: "smart Danube Region":

1) to develop regional value chain and support the common priorities (common in different regions and countries),
2) to have a strong role of the JRC and
3) to go further by using S3 methodology to develop STI roadmaps for SDGs.

Thank you for your attention

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Along the coasts of the shared sea
Izola, 11–12 May 2021