



Implementing S3 in Romania. The role of UIG cooperation

JRC training workshop

Strengthening University-Industry-Government cooperation

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Outline

- 1. Smart Specialisation Strategies (S3): concept, process, JRC role
- 2. Implementing S3 in Romania: challenges, impact, UIG cooperation



What is Smart Specialisation?

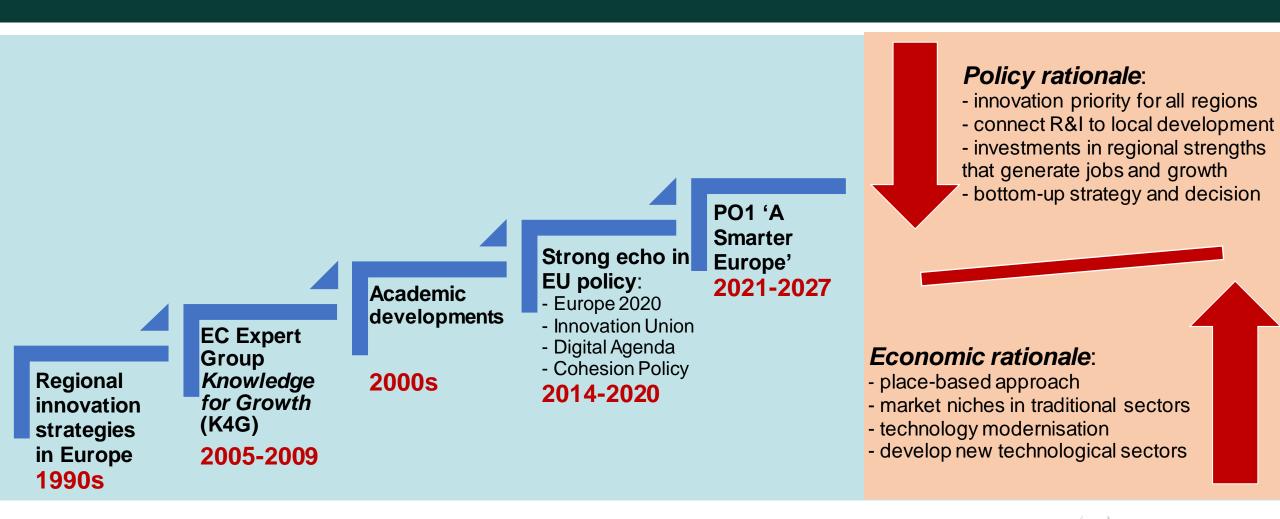


Core of 2014-2020 EC Cohesion Policy for place-based regional innovation

- INNOVATIVE: boost growth and jobs in Europe, by enabling each region to identify and develop its own competitive advantages.
- **BOTTOM UP**: priority-setting through an Entrepreneurial Discovery Process to identify and pursue the most promising development projects
- **STRATEGIC**: Quadruple Helix actors to define a shared vision for regional innovation, address emerging market opportunities, market niches
- SPECIALISED: Prioritise R&I investment in competitive areas, match R&I strengths to business needs to strengthen competitive advantage
- **RESPONSIVE:** Better use of EU Structural Funds in line with regional needs



S3 rise to the heart of EC policies





Wide implementation in the EU (2014-2020)

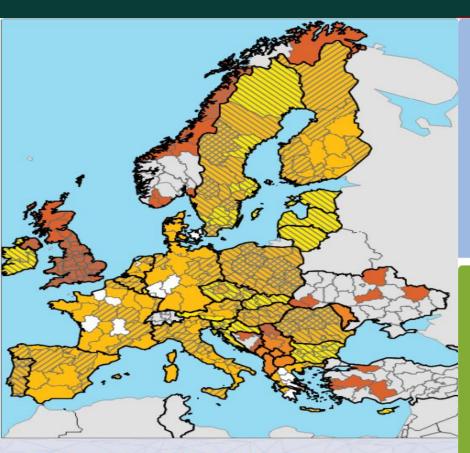


- Over 120 S3 strategies prepared by EU MS and regions identifying national and regional priorities for R&I investments
- Over EUR40 bn ERDF (+ over EUR65 bn of national cofinancing) allocated to regions
- EUR1.8 bn ESF programmed for human capital in RTDI
- Estimated impact of support to R&I and entrepreneurship*:
 - help 15,000 enterprises to introduce new products to market
 - support 140,000 start-ups
 - create 350,000 new jobs by 2020

^{*}Based on plans in the national or regional operational programmes for 2014-2020: https://cohesiondata.ec.europa.eu/themes

Smart Specialisation Platform (S3P) – JRC Seville

http://s3platform.jrc.ec.europa.eu/



- EU Countries registered in S3P: 19
- EU Regions registered in S3P: 178
- Non-EU Countries registered in S3P: 7
- Non-EU Regions registered in S3P: 30
- S3P Peer-reviewed Countries: 16
- S3P Peer-reviewed Regions: 75



Interregional Cooperation



Guidance



Targeted Support



S3 Beyond EU



Communities & Actors



Governance



JRC Guide to RIS3 (2012) and the S3 Implementation Handbook (2016)

https://s3platform.jrc.ec.europa.eu/



- Guide to RIS3 (2012) six practical steps for RIS3 design:
 - 1) Analysing the innovation potential
 - 2) Setting out the RIS3 process and governance
 - 3) Developing a shared vision
 - 4) Identifying the priorities
 - 5) Defining an action plan with a coherent policy mix
 - 6) Monitoring and evaluating
- S3 Handbook (2016) five key milestones in implementation process:
 - 1) The EDP cycle: from priority selection to strategy implementation
 - 2) Good governance: principles and challenges
 - 3) From priorities to projects: selection criteria and selection process
 - 4) Transnational cooperation and value chains
 - 5) Monitoring



JRC "Targeted support to S3 implementation"

Five closely complementary JRC activities

STRIVE - Support to Transitions in Regional Innovation Eco-systems

Targeted S3
Support to
Romania

Targeted S3
Support to
Lagging Regions
(9 countries)

Industrial transition reviews (Greece, Bulgaria, Andalusia, Romania) Higher Education +VET in Smart Specialisation

Stairway to Excellence

European Parliament DG REGIO European Parliament DG REGIO

JRC DG REGIO DG EAC DG EMPL European Parliament DG REGIO

2016 - 2020

2016 - 2020

2018-2020

HESS: 2016-2020

S2E-4: 2018-2020

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The "Lagging Regions" project: geographical coverage by stage

1. Low-growth regions (GDP/capita below EU average)

- Greece
- Italy
- Portugal
- Spain

2. Less developed regions (GDP/capita < 50% of EU average)

- Bulgaria
- Hungary
- Poland
- Romania
- Croatia (entry in stage 2)

		Stage 1 (2016-2018)	Stage 2 (roll-out) (2018-2020)
		,	,
	EL	Eastern Macedonia and Thrace, national roll-out	Central Macedonia, Western Greece, National level
	IT	Puglia	Puglia & Campania
	PT	Centro	Centro, National level (HESS)
	ES	Extremadura	Extremadura, National/regionallinkages
	BG	Severen Tsentralen	National level
	HU	Észak-Alföld (Hajdú Bihar county)	National level
	PL	Warminsko Mazurskie	Kujawsko-Pomorskie, Lubuskie, Podlaskie
	RO	Nord-Est, Nord-Vest	Nord-Est, Nord-Vest, Centru, Sud-Est, Sud-Muntenia, Sud-Vest, Vest, București-Ilfov National level
	HR		National level

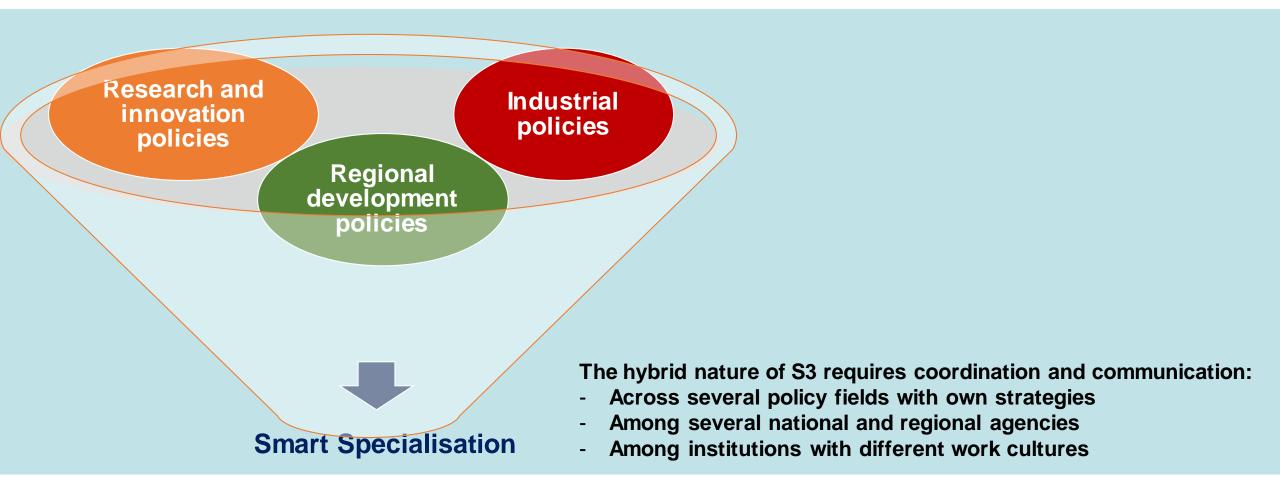




2. Implementing S3 in Romania



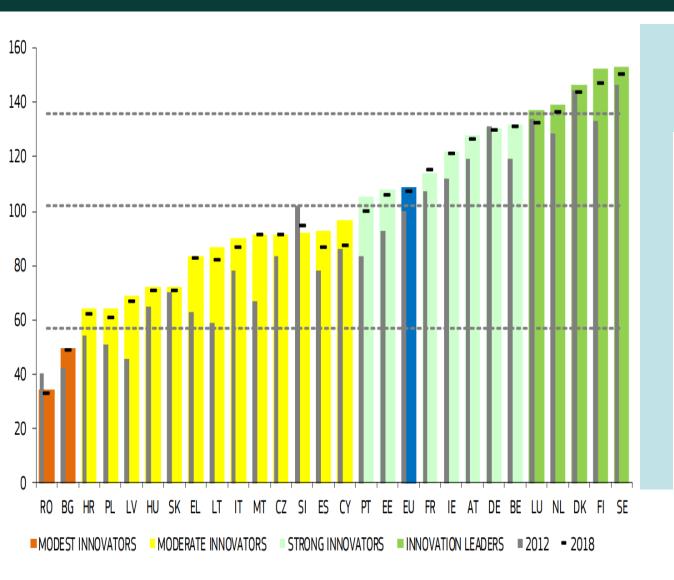
The hybrid nature of Smart Specialisation



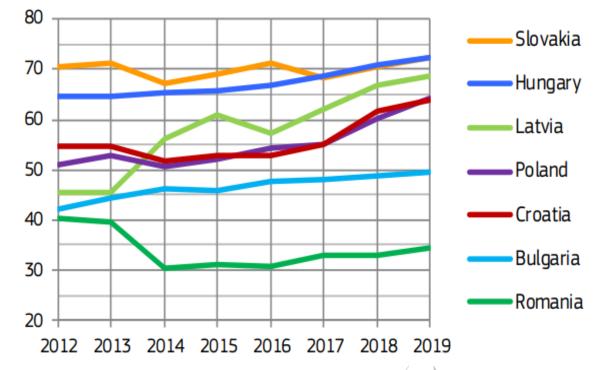


Romania: low national innovation performance

European Innovation Scoreboard 2020



Declining RO innovation performance 2012-2019 by 5.7%, due to strong drop in 2014 (-9.2%), outweighing a 4.1% increase since 2014

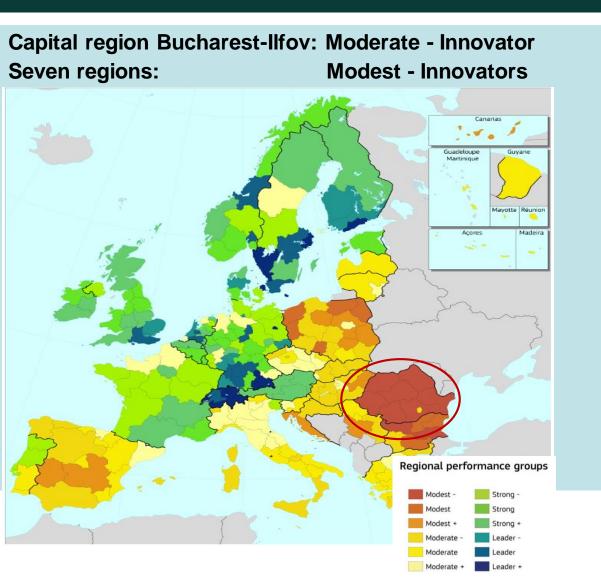


European

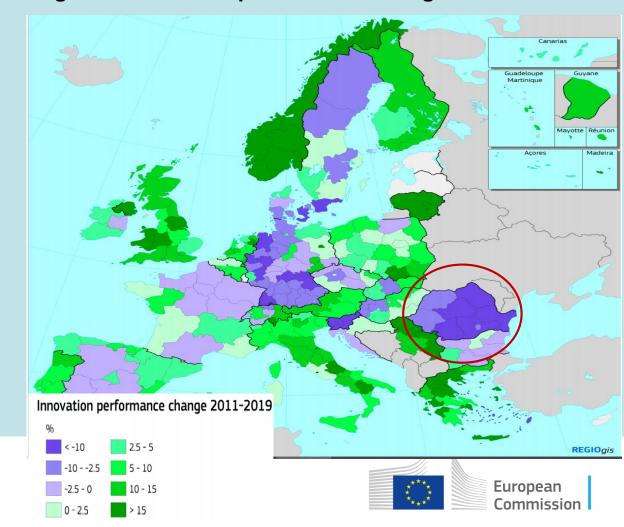
Commission

Romania: low regional innovation performance

Regional Innovation Scoreboard (2019)



Regional innovation performance change 2011-2019



S3 in Romania: dual approach at national and regional levels (changes from 2014-2020 to 2021-2027)

National level



- National R&I Strategy 2014-2020, four S3 priorities:
- 1. Bioeconomy
- 2. ICT, space and security
- 3. Energy, environment, climate change;
- 4. Eco-nano-technologies and advanced materials
- National RIS3 Strategy 2021-2027 (in progress)

Governance: Intermediary Body - Ministry of Education & Research

Funding: Competitiveness OP PA 1, National RDI Plan

Regional level



- 7 regional S3 Strategies 2014-2020
- Bucharest-Ilfov (capital) regional S3 strategy 2021-27

Governance

- Managing Authority: Ministry of Public Works, Dev. and Administration
- Regional Intermediary Bodies: 8 RDAs
- Regional Development Councils

Funding: Regional OP, PA1 "Technology Transfer"

1.1 TTOs, S&T Parks, SMEs partnerships with TTOs: 109 MEUR

1.2. Lagging Regions Initiative (JRC and WB support): 70.7 MEUR



Main causes for the low R&I capacity

- Heavy under-financing of R&I sector (GERD around 0.5% during 2012-18, Eurostat)
- 14.6% innovative enterprises, 3.5% both product- and process innovators (2016-2018, INS)
- 14% innovative SMEs (2016-2018, INS)
- R&I policy mix designed at national level, broadly defined national R&I objectives, no formal regional R&I policies to reflect specific regional needs (S3 priorities emerged as *de facto* regional policies)
- Weak entrepreneurial culture, low tech transfer capacity in universities
- Fragmented R&I system, weak links between R&I actors (especially U-I) and between authorities
- Significant brain drain, migration, poor incentives to attract diaspora or international talent
- Centralised national R&I system, regional R&I systems at early stage



Main directions for JRC support to Romania

(through both the RO project and the Lagging Regions project)

1. S3 governance and national-regional coordination (AMPOR, RDAs, ministries) JRC support 2. Implementing EDP (RDAs, AMPOR) Ensure a functional project pipeline from inception to funding and implementation 3. Engaging Quadruple Helix actors in S3 U-I-G links, Entrepreneurial University, tech transfer & commercialisation 4. Industrial Transition Review for Romania (Sept 2019)



JRC support to S3 in Romania - specific activities (2016-2020)

Country-specific activities (RO project)

EDP workshops (methodology, experts)

Project
Development
Lab
(methodology)

Assistance to the MA of ROP in the elaboration of Calls and technical-financial evaluation of projects Training courses and workshops on project writing for the ROP, technology transfer (all regions)

S3 governance Coordination national-regional S3 authorities

Support to Bucharest-Ilfov RDA for regional S3 strategy Quality reviews of regional S3 strategies 2021-2027

Workshop and expert study on S3 governance

Engaging the QH

HESS pilot phase (NE)

Studies of the "third mission" in NW universities

Workshop "Strengthening UIG cooperation"

Participation in S3P Thematic Platforms (cluster conferences)

Industrial Transition review
"Digitalisation, including smart solutions in agro-food, health and ICT (Smart City)"

Horizontal activities for all regions (Lagging Regions project) WGs on S3 Monitoring and on S3 Governance (2016-2018)

MOOC on S3 Governance (2018)

WG on S3 Governance (2018-2020) WG on Interregional cooperation (2019-2020)

WG on Industrial Transitions (2019-2020) Participation in other S3P projects (PXL, S2E)

Board of "Critical Friends"



S3 impact



Innovation governance

- Systemic nature of R&I/S3
- Multilevel governance
- Regional R&I RDAs as "regional innovation organisers"
- Links between R&I stakeholders, regional networks
- Regional strengths/needs more visible in the regional S3
- Monitoring and evaluation
- Stronger institutional capacity

Regional knowledge and technology base

- Stronger focus on ITT competences
- New/enhanced regional industrial specialisations (regional S3 priorities)
- Social capital: stronger collective identities around local projects, competencies (EDP)

Accelerated development of regional innovation systems



Thank you!

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