

A map of Europe is shown in a light blue color. The country of Moldova is highlighted in a light green color. A 3D paper cutout of the flag of Moldova is placed over the map, showing the flag's colors (blue, yellow, and red) and the coat of arms. The text is centered over the map.

Smart Specialisation and Entrepreneurial Discovery Process: Republic of Moldova

Ministry of Education, Culture and Research

10.10.2019

Agenda 2030 in Moldova



ADAPTING THE 2030 AGENDA ON SUSTAINABLE DEVELOPMENT TO THE CONTEXT OF THE REPUBLIC OF MOLDOVA



NATIONALIZATION OF INDICATORS FOR SUSTAINABLE DEVELOPMENT GOALS



TOOLKIT FOR THE NATIONALISATION OF SUSTAINABLE DEVELOPMENT GOALS



REPUBLIC OF MOLDOVA IS
PART OF THE 2020 VOLUNTARY
NATIONAL REVIEW OF THE
HIGH-LEVEL POLITICAL FORUM
ON SUSTAINABLE
DEVELOPMENT



Working Paper

3/19



Development
Innovative

Dumitru Vasilescu, Mihail Peleah
Listening to Local Needs for
Development:
Micronarratives as a Tool for
the Localisation of SDGs

Legal Framework for STI

- ▶ **Law no. 190 of 21.09.2017** *for the amendment and completion of some legislative acts* started the process of **reforming** the fields of research and innovation.
- ▶ **Government Decision no. 691 of 30.09.2017** *on the organization and functioning of the Ministry of Education, Culture and Research who is responsible of the national policies in the fields of research and innovation.*
- ▶ **Code of Science and Innovation of the Republic of Moldova**, approved by Law no. 259 of 15 July 2004 amended, which specifically stipulates *in art. 27 the elaboration of the **National Program in the field of Research and Innovation.***
- ▶ **The National Program** in the field of Research and Innovation approved by Government Decision No. 381/2019 is the main policy document whereby the Government sets development priorities and objectives in the field of research and innovation for 4 years and ensures synchronization with the strategic development program of the country, the sectorial strategies and the research framework programs of the European Union.

Legal Framework for STI

- ▶ At the same time, in order to achieve (realize) SL4. of Chapter 24 "Cooperation in the field of research, technological development and demonstration activities" of the National Action Plan for the implementation of the Moldova-EU Association Agreement between 2017-2019, approved by the Government Decision no. 1472 of December 30, 2016 (Official Monitor of the Republic of Moldova, 2017, No. 103-108, art. 271, as amended), smart specialisation is one of the priorities of the National Program in the fields of Research and Innovation.



National Development Strategy Moldova 2030

Priorities:

- STI to be used to achieve SDGs
- Smart specialisation used to identify R&I investment priorities



**R-I Policies / National program
for R-I 2020-2023**



**Regional development /
urban development**

S3 – in the context of national policies



Industrial Policy



**Policies / Initiatives
of SMEs development**



Education / VET



**Attracting investments and
promoting exports**

S3 – in the context of national policies

- The main mechanism for increasing incomes from sustainable sources and attenuate economic inequalities is to increase the country's competitiveness, including through the country's smart specialisation. (National Development Strategy Moldova 2030)
- In the context of the purpose to enhance the impact of research and innovation results' activities on the business environment and society as a whole, the National Program aims to adopt and transpose the principles of smart specialisation. (National program for R-I 2020-2023)

What was done:

- **Capacity building and training**
- **“TAIEX Multi-Country Workshop on Smart Specialisation in the Enlargement and Neighbourhood Regions”, 4-5 September 2018, Harkiv.**
- **“Conference on Smart Specialisation and Territorial Development” September, 24-28, 2017, Seville.**
- **TAIEX MultiCountry Workshop on Smart Specialisation in the Enlargement and Neighbourhood Regions, 5-9 November, 2018, Bruxelles.**

Activities	Responsible bodies	JRC role	Time
MD1: Establish WG & Management Team and ensure commitment from the main stakeholders	ASM + MoEcon + Chamber of Commerce (CCI)		Feb
MD2: Prepare detailed roadmap (objectives & resources to design and implement RIS3)	S3 WG + ASM/National Institute of Economic Research	Give feedback on conceptual document & roadmap	Apr-May
MD3: Awareness raising campaign during 4 existing events (incl. Danube-INCO.net General Assembly)	ASM + MoEcon + Chamber of Commerce + Council of Rectors	Give feedback on agenda + present	Mar-Sep
MD4: JRC to support first joint meeting on mapping in Chisinau	S3 WG + Core analytical team + JRC expert	Create consensus on mapping specifics	Apr
MD5: JRC expert to support mapping (incl. recommendations for statistical office)	Core analytical team + BNS + JRC expert	Recruit and accompany expert	Apr-Aug
MD6: JRC expert to present preliminary mapping at workshop	S3 WG + Core analytical team + JRC expert	Liaise with expert	Jun
MD7: Identify relevant and representative stakeholders based on mapping	S3 WG + HEIs + identified key stakeholders	Give feedback	Jul-Aug
MD8: JRC to support EDP launch event	Management Team + EDP team + JRC	Give feedback on agenda + present	Sep
MD9: Organise 3 pilot EDP workshops for one specific priority	S3 WG + HEIs	Give feedback and guidance	Nov-Dec
MD10: Establish National R&I Agency and Council for S&D	ASM	Provide feedback	Feb-Dec

PREPARATION FOR THE EDP

Mapping of economic, innovative and scientific potential in the Republic of Moldova by Dr.Hugo Hollanders (2017)

Characterisation of preliminary priority areas for smart specialisation in Moldova by SIRIS Academic S.L. (2018)

First National Survey on Innovation activity of enterprises in the Republic of Moldova in the years 2015-2016 by NSB (2018)

Preliminary economic priority areas

North

Industries

- Agriculture and Food processing
- Cement, lime and plaster
- Electrical equipment
- Wiring and wiring devices
- Electricity, gas, steam and air conditioning supply

Clusters:

- Apparel
- Lighting and Electrical Equipment
- Food Processing and Manufacturing

Emerging industries: Mobility Technologies

South

Industries

- Agriculture and Food processing
- Gas; distribution of gaseous fuels

Clusters:

- Environmental Services
- Food Processing and Manufacturing

Gagauzia

Industries

- Agriculture and Food processing
- Coke and refined petroleum products
- Refined petroleum products
- Glass and glass products
- Gas; distribution of gaseous fuels

Clusters

- Apparel
- Environmental Services
- Food Processing and Manufacturing

Centre

Industries

- Agriculture and Food processing
- Forestry and logging
- Textiles
- Basic pharmaceutical products and pharmaceutical preparations
- Other non-metallic mineral products
- Cement, lime and plaster

Clusters

- Livestock Processing
- Textile Manufacturing

Chisinau

Industries

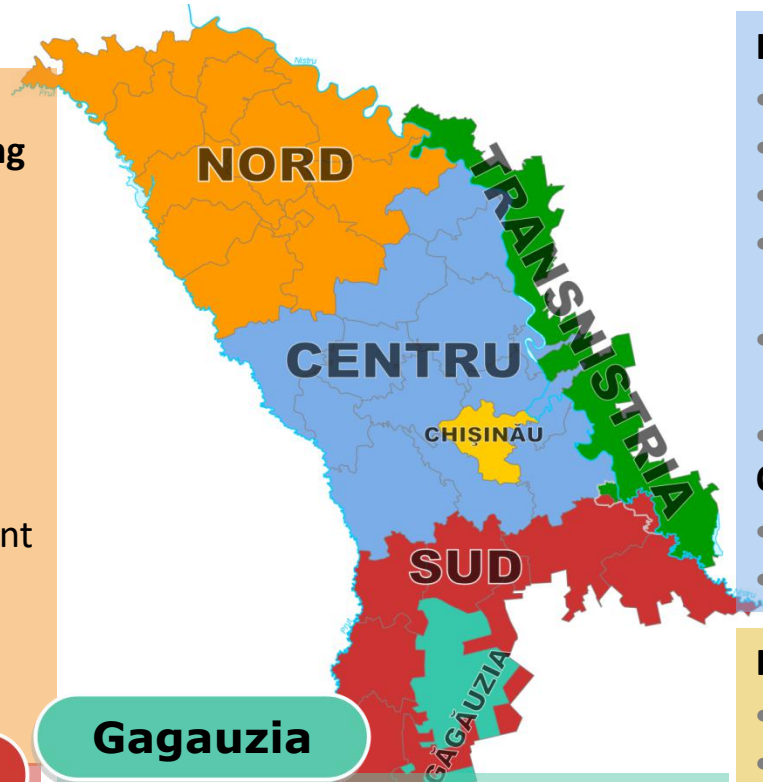
- ICT
- Paper and paper products
- Chemicals and chemical products
- Machinery and equipment
- Furniture

Clusters

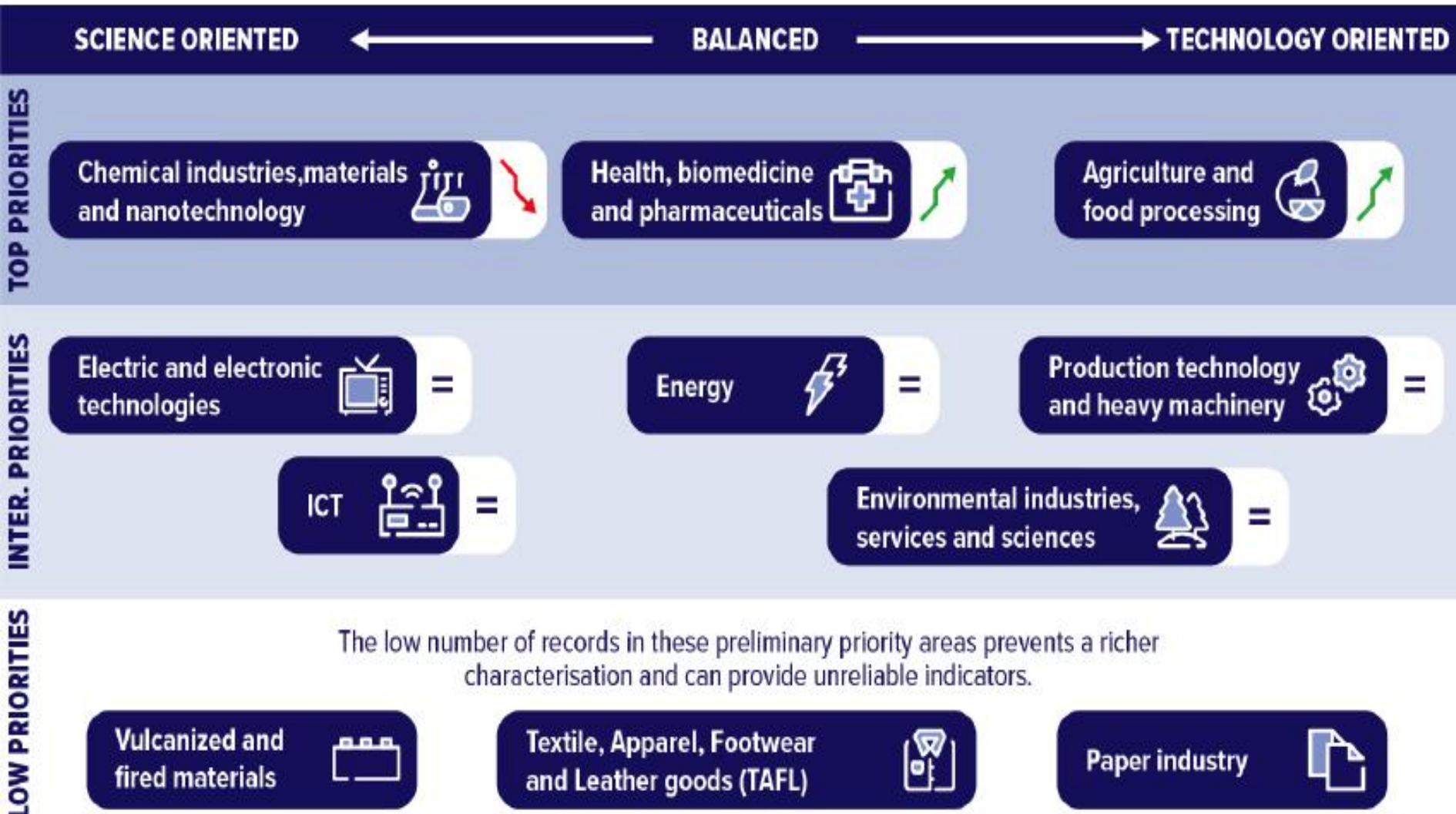
- Business services
- Marketing, Design and Publishing

Emerging industries

- Advanced Packaging
- Creative Industries / Digital Industries / Experience Industries



PRELIMINARY PRIORITY DOMAINS /SIRIS ACADEMIC (2018)



EDP PROCESS: THE WAY FORWARD

- Ministry of Education, Culture and Research took the leading role.
- 4 priority areas were selected for the first EDP workshops and conducted in December 2018 – June 2019.
- The findings of the next EDP were included into the Action Plans of the National R&I Program.

Mapping of STI stakeholders

Collaboration network: co-authorship in scientific publications

Find an organization:

Type a member name

Network layout by:

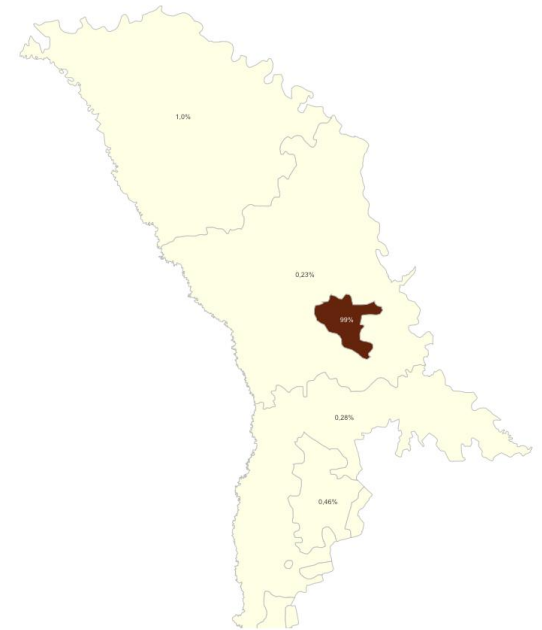
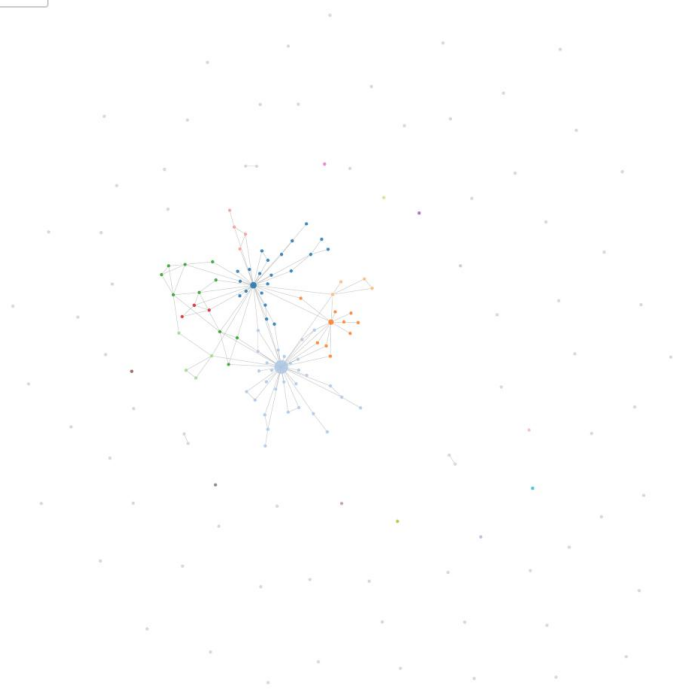
auto-detected comm

Regional contribution and specialisation map

Choose between:

Regional contribution to the national total Relative to regional total

0.0% 50%



Selection mode Show groups Show all labels

Aggregates adding up to more than 100% are due to collaborations between institutions in different regions contributing to the same activity or output.

3.925 publications

181 organizations

Explore specialization...

Explore organizations...

Explore external partners...

Top regions

Top organizations

EDP workshops

Priority domains	Subdomains	Number of participants	Venue	
Energy	<p><i>1. Energy efficient technologies</i></p> <p><i>2. Alternative energy sources</i></p> <p><i>3. Heating solutions</i></p>	41	Chişinău	
ICT	<p><i>1 . M i c r o / nanomaterials and electronic engineering</i></p> <p><i>2. Interoperability, open data and e-infrastructures</i></p> <p><i>3. Mobile apps, software development, cloud computing</i></p>	44	Vadul-lui-Vodă	

EDP workshops

Priority domains	Subdomains	Number of participants	Venue	
Agriculture and food processing	<i>1. Agricultural and horticultural biotechnologies</i> <i>2. Field crops</i> <i>3. Animal husbandry and veterinary medicine</i> <i>4. Processing of agricultural raw material</i>	56	Bălți	
Biomedicine and Biopharmacy	<i>1. Biomedicine</i> <i>2. Biopharmaceuticals</i> <i>3. Bioinformatics</i>	48	Chișinău	



EDP workshops

First round of **Entrepreneurial Discovery Discussions** launched four areas:

- Energy
- Information and Communication Technologies
- Agriculture and Food Processing
- Biomedicine and Biopharmaceutical

~ 190 participants reached



Developing S3: Where are we?

ANALYSIS	the analysis of the national/regional context and potential for innovation
GOVERNANCE	An inclusive and interactive process focused on entrepreneurial discovery
COMMON VISION	the production of a shared vision about the future of the country
PRIORITIES	the selection of a limited number of priorities for national/regional development
POLICY MIX	the establishment of suitable policy mixes, and
M&E	the integration of monitoring and evaluation mechanisms

Lessons learned - EDP Moldova - positive

- Successful organisation of the first EDP workshops, focused on S3 design = validation of areas and niches with potential for smart specialization, SWOT analysis, common vision, general objective
- Used clear methodology (JRC) - useful for S3 facilitators
- Involved Q4 representatives - interested in the subject
- Good planning and logistics
- Governance structure for S3 management - dedicated and proactive team
- Useful presentations to set the scene

CHALLENGES

- Attracting representatives from other central public authorities and implementing agencies
- Building trust between the Quadruple Helix actors
- Attracting/motivating business representatives to be actively involved within EDP
- Keeping EDP continuously “alive”
- Putting in place an efficient M&E system
- What comes after EDP? (building a proper mix of policies)

Lessons learned - EDP Moldova – things to be improved

- Attract policy makers in territorial development, competitiveness, health, vocational education and employment), donors and their implementing agencies
- Map available funding schemes for S3
- Develop a mechanism to identify and attract innovative companies, clusters and business hubs in EDP - guidance for interviews
- Develop the web platform for S3 - data repository, reports, presentations - useful to keep EDP community informed
- Expand institutional capacity of ME CR and administrative capacity of NWGS3 - use massive open line training programs of JRC (MOOC), identify TA resources for editing S3/road-map
- Run second round of EDP with same agenda - areas with less attendees and new agenda for the rest

Next steps

- Define from the groups of projects and the specific objectives, the interventions (priorities and measures) necessary for S3
- Offer feed back to EDP participants on how to improve their ideas
- Offer possibility to promoters whose ideas were not developed during the EDP to send a detailed description of these using the same Project fiche template (ex. organize a call) and offer feed-back to them as well
- Asses the possibility of financing project ideas from existing calls
- Organize a Project Development Lab (PDL) = event aiming to help project promoters in identifying suitable financing sources for their projects
- Define conditions for a call of proposals dedicated to S3 projects



**Thank you for
your attention!**