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# Smart Specialization process in the Republic of Moldova



## S3 in Moldovan context

- Connecting R&I to the economic development process
- Prioritization & resources streamlining
- Bridging the gap between science and business
- Exploiting scientific results
- Increasing the innovativeness of Md business sector & stimulating business R&D



# Evidence&Data

***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)***

# Mapping of economic, innovative and scientific potential (2017)

- Agricultural and biological sciences
- Computer science
- Energy
- Chemistry, Chemical engineering

(Based on international publications)

Science



- Agriculture and food processing
  - Textiles
  - Renewable energy
  - ICT
  - Others
- (Employment, turnover and wages)**

Economy



- Agriculture and food processing:
  - Food chemistry (International patents)
  - Wine, Foods, Planting (National patents)
  - Pharmaceuticals
- (Patents)**

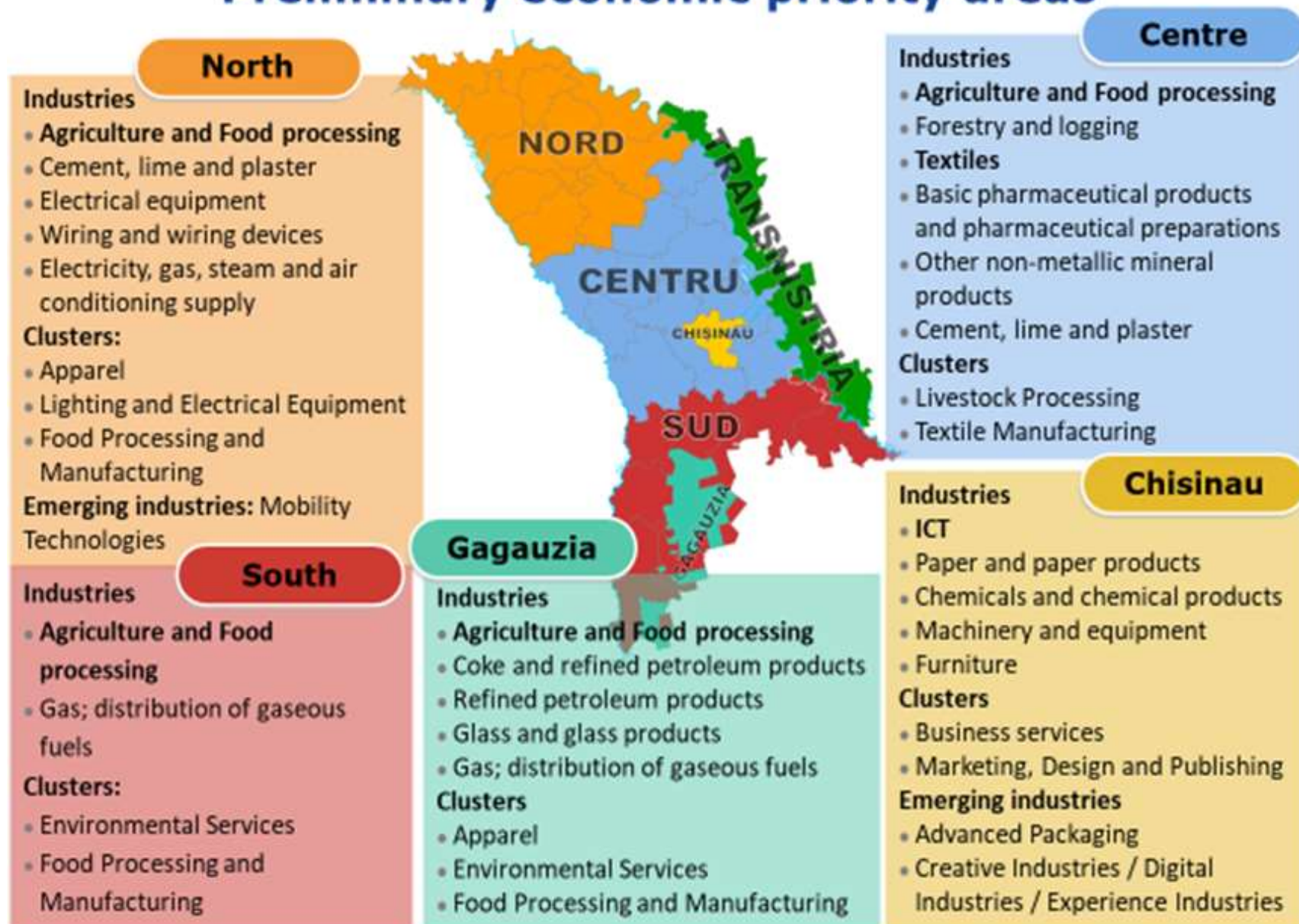
Innovation



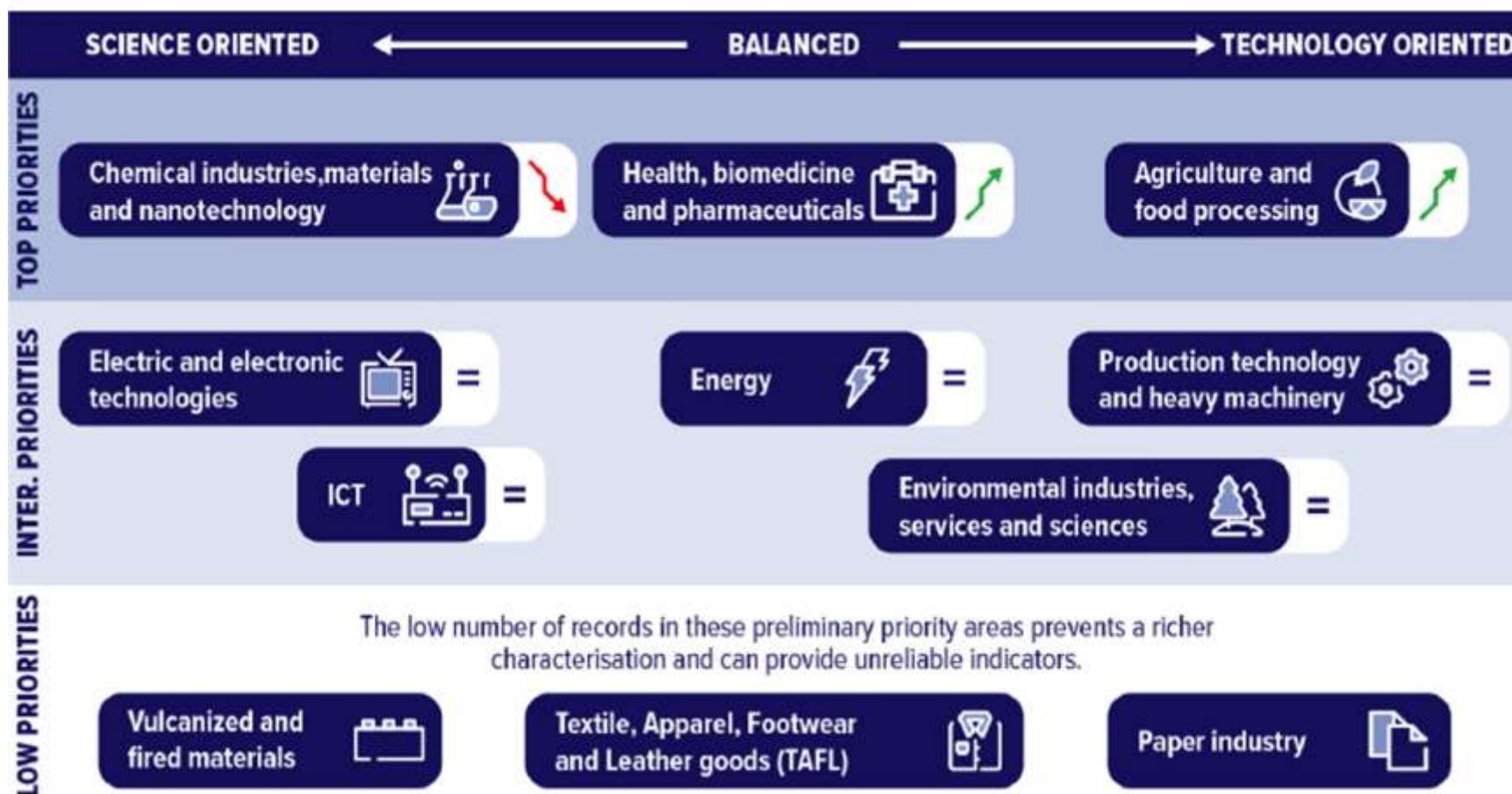
*"Smart Specialisation: Engine for Economic Growth in the Regions of the Republic of Moldova" 6/10/2017*



# Preliminary economic priority areas



# Preliminary Smart Specialization domains





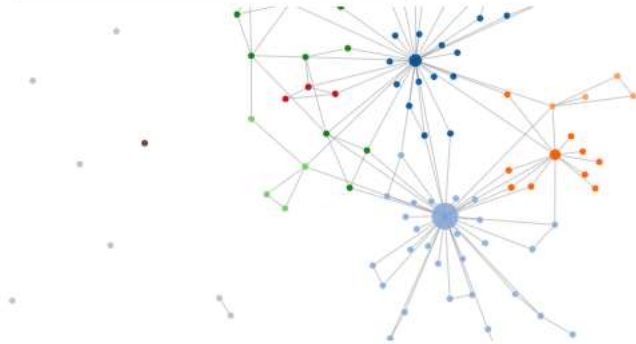





## Collaboration network: co-authorship in scientific publications

Find an organization:

Network layout by:

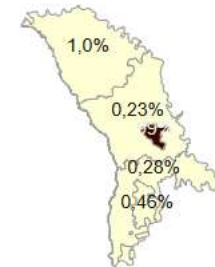


Navigation mode  Show groups  Show all labels

**3.925** publications

## Regional contribution and specialisation map

Choose between:

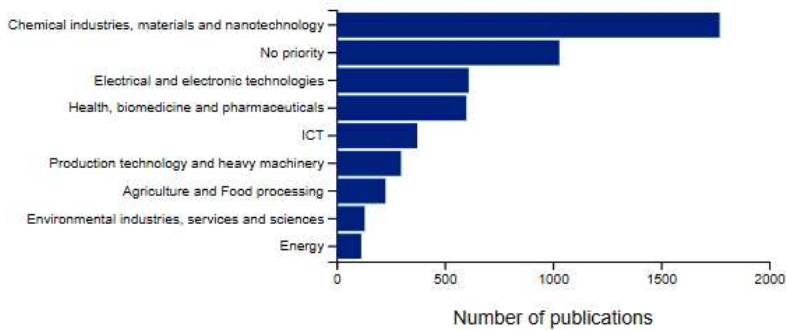



Aggregates adding up to more than 100% are due to collaborations between institutions in different regions contributing to the same activity or output.

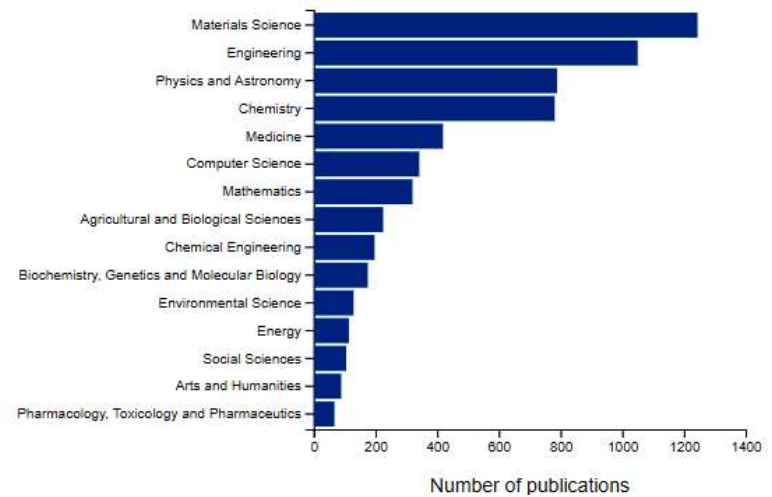
**181** organizations

[Explore specialization...](#)
[Explore organizations...](#)
[Explore external partners...](#)

Publications by Prelim. priority



Publications by subject area



# EDP Seminars

Energy	ICT	Agriculture & food processing	Health, biomedicine and biopharmaceuticals
<ul style="list-style-type: none"><li>-Energy Efficient technologies</li><li>-Alternative energy sources</li><li>-Heating solutions</li></ul>	<ul style="list-style-type: none"><li>-Micro/ nanomaterials and electronic engineering</li><li>-Interoperability, open data and e-infrastructures</li><li>-Software engineering, Mobile apps, cloud computing</li></ul>	<ul style="list-style-type: none"><li>-Advanced biotechnologies for agriculture</li><li>-Sustainable agriculture (including ecological)</li><li>-Value-added food products</li></ul>	<ul style="list-style-type: none"><li>-Biomedicine</li><li>-Biopharmaceuticals</li><li>-Bioinformatics</li><li>-Bioengineering</li></ul>



# EDP workshops (2)

- **Biomedicine & Biopharmaceuticals**
- **Agri-food**
- **Energy**
- **ICT**



# Example of results:

## Challenges

1. Mismatch between scientific results –business needs
2. Technological development for exploiting wastes from winemaking
3. Innovation in Marketing and developing technological processes

## Project ideas

Mediation platform between R&D and business sector in agri-food area

Launching a pilot testing Center for validating scientific results

Experimental development for obtaining stabilized formulations of mark bioflavonoids

Developing a mobile line for packaging bee products

# Lessons learned

- S3 goes beyond the R&I policy!
- Ownership
- Coordination/administrative capacity
- Trust is a precondition
- “Кадры решают все”/functional and permanent S3 implementation team
- Inclusive process, balanced representation
- The “carrot” at the end/What comes after
- Learning by doing
- Keeping dialog & EDP continuously “alive”

# The way forward...

- Conducting the last round of EDP seminars/online
- Identifying the necessary policy mix
- Securing funding for the implementation
- Institutionalizing the S3 process/  
Interministerial council, advisory councils
- Strengthening involved human capacities
- Piloting S3 in the regions

**THANK YOU!**

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