

Smart Specialisation in the Eastern Partnership – progress in 2021

| Progress until 2020 ¹ |
|----------------------------------|
| Progress in 2021 ² |

| | Progress according to S3 Framework | | | | | | |
|----------|------------------------------------|---------|--------------------------------------|--|------------------------|---------------------|-------------------------|
| Country | Institutional Capacity Building | Mapping | Entrepreneurial Discovery Process | Implementation, monitoring and financial framework | Final strategy adopted | Official assessment | Implementation launched |
| Armenia | | | | | | | |
| Belarus* | | | | | | | |
| Georgia | | | | | | | |
| Moldova | | | | | | | |
| Ukraine | | | | | | | |

^{*} Belarus suspended the EaP membership in 2021

JRC support to EU Enlargement and Neighbourhood Region

Capacity building

Targeted expert support

Methodologies and guidance

Knowledgebased cooperation

Research questions:

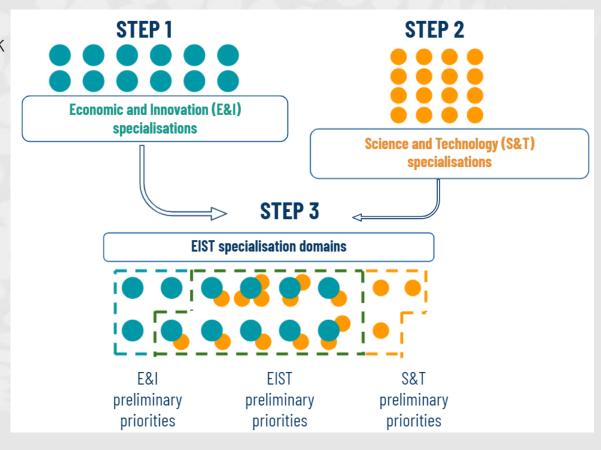
- 1. What are subsectorial specialisations of EaP countries in terms of economic critical mass, emerging sectors and innovative activities of companies?
- 2. Which of these specialisations are common in the EaP region and which specific to each country?
- 3. What are the areas of specialisation and excellence of EaP STI system that can be mobilised to support knowledge-based economic transformation?
- 4. What is the structure of the international and national STI collaboration networks and who are the main stakeholders?
- 5. Are there possible synergies/concordance between the economic, innovative, scientific and technological specialisations of the countries?

Smart Specialisation in the Eastern Partnership Countries – Methodological approach

Knowledgebased cooperation

Data sources:

- Orbis database, Bureau van Dijk
- Industrial Statistics Database (INDSTAT4), UNIDO
- UN's Comtrade database
- The World Bank Enterprise
 Survey
- The docdb database of the European Patent Office
- The WIPO Global Brand
 Database
- The WIPO Global Design
 Database
- Crunchbase
- The European Cluster
 Collaboration Network



Data sources:

- Scopus by Elsevier
- The Community Research and Development Information Service (CORDIS)
- The docdb database of the European Patent Office

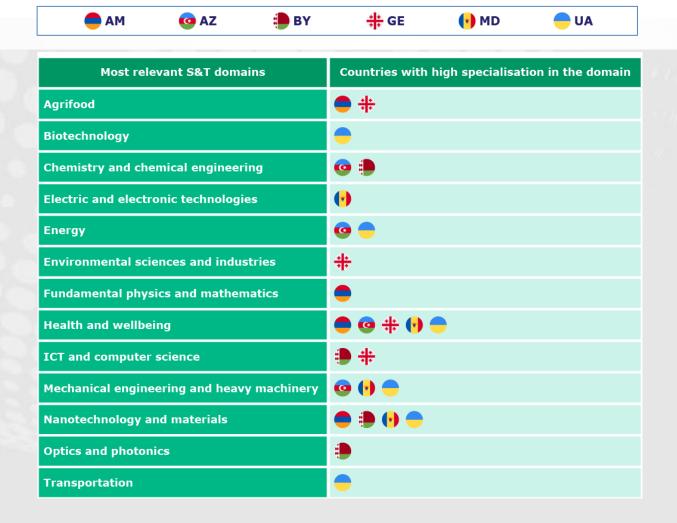
Smart Specialisation in the Eastern Partnership Countries – Economic, Innovation, Science and Technology Specialisations

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|------|

| Economic Cluster (i.e. E&I domain) | Corresponding NACE code(s) | Alignement with S&T domain(s) | | |
|---|--|---|--|--|
| Food Processing and Manufacturing | 10 Manufacture of food products • • • • • • • • • • • • • • • • • • • | Agrifood ● # () ● | | |
| Tobacco | 12 Manufacture of tobacco products | | | |
| Leather, Apparel & Footwear | 13 Manufacture of textiles (*) 14 Manufacture of wearing apparel (*) 15 Manufacture of leather and related products | Nanotechnology and materials (•) | | |
| Wood Products | 16 Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials ① () ① | Chemistry and chemical engineering (1) Nanotechnology and materials : | | |
| Media Production and Distribution | 18 Printing and reproduction # of recorded media | | | |
| Oil and Gas Production and Transportation | 19 Manufacture of coke and refined petroleum products | Chemistry and chemical engineering © Energy © Nanotechnology and materials © | | |
| Chemical Products | 20 Manufacture of chemicals and chemical products | Agrifood Biotechnology Chemistry and chemical engineering Nanotechnology and materials | | |
| Vulcanized and Fired Materials | 23 Manufacture of other non-metallic mineral products | Nanotechnology and materials | | |
| Metalworking Technology | 25 Manufacture of fabricated metal products, except machinery # and equipment | Nanotechnology and materials # ● | | |

| Economic Cluster (i.e. E&I domain) | Corresponding NACE code(s) | Alignement with S&T domain(s) | | |
|--|---|--|--|--|
| Information Technology and Analytical Instruments | 26 Manufacture of computer, electronic and optical products 27 Manufacture of electrical equipment | Electric and electronic technologies Energy Fundamental physics and mathematics ICT and computer science Nanotechnology and materials Optics and photonics | | |
| Production Technology and Heavy Machinery | 28 Manufacture of machinery and equipment n.e.c. | Agrifood Energy Energy Environmental sciences and industries Fundamental physics and mathematics Mechanical engineering and heavy machinery | | |
| Automotive | 29 Manufacture of motor vehicles, trailers and semi-trailers | Transportation • | | |
| Repair and installation of machinery and equipment | 33 Repair and installation of machinery on and equipment | Nanotechnology and materials © | | |
| Wholesale Trade | 46 Wholesale trade, except of motor vehicles and motorcycles | | | |
| Postal and Courier Activities | 53 Postal and courier activities | | | |
| Hospitality and Tourism | 55 Accommodation # 56 Food and beverage service activities # | | | |

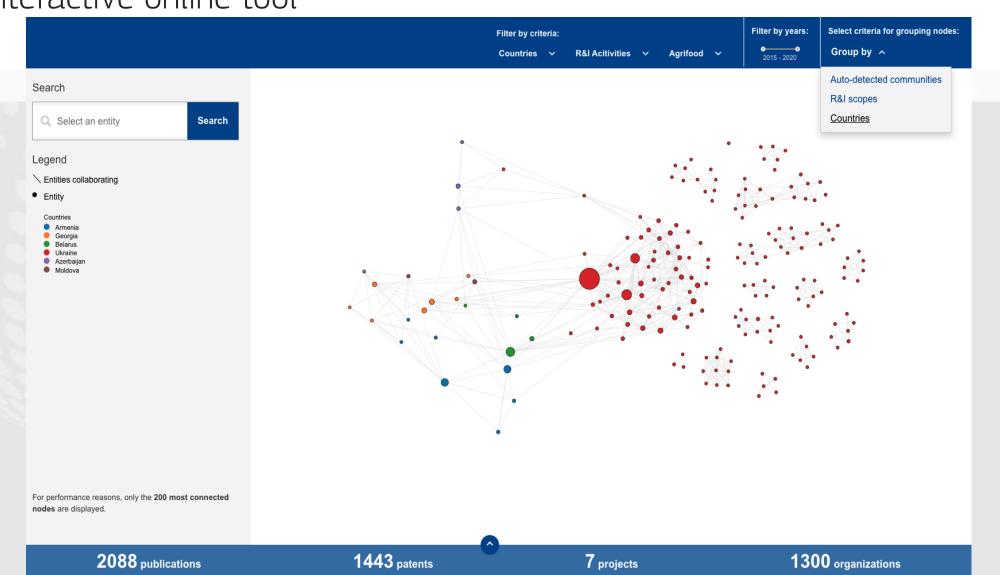
Smart Specialisation in the Eastern Partnership Countries – Science and Technology specialisations



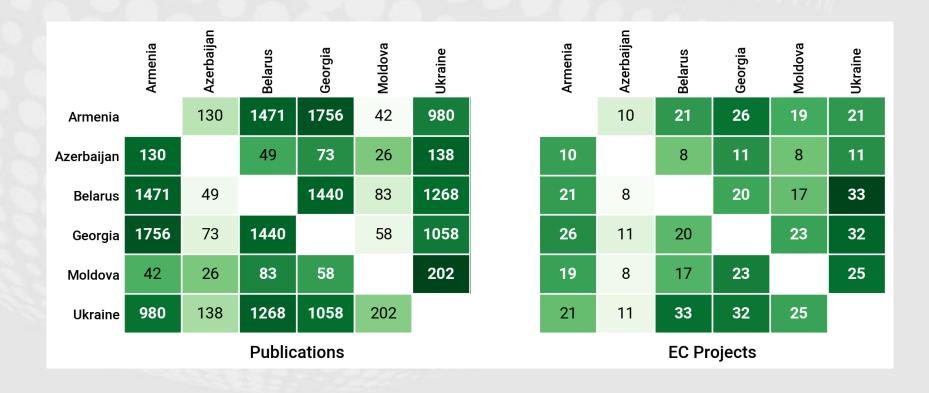
Smart Specialisation in the Eastern Partnership Countries – Typology of Science and Technology Specialisations

| | EaP S&T domains of specialisation according to the internal distribution of the S&T data sources | | | | | | |
|--|---|------------|---------------------------------------|----|---|--|--|
| Science-oriented S&T domains domains where scientific publications are most relevant | | | | | Technology-oriented S&T domains domains where patents are most relevant | | |
| ·(((O))7· | damental physics and hematics | (<u>*</u> | Health and wellbeing | | Mechanical engineering and heavy machinery | | |
| 1838881 | otechnology and erials | | Biotechnology | | Electric and electronic technologies | | |
| Opti | cs and photonics | 0101110 | ICT and computer science | Æ. | Agrifood | | |
| | | | Environmental sciences and industries | 4 | Energy | | |
| | | | Chemistry and chemical engineering | | Transportation | | |
| Governance, culture, education and the economy is mainly composed of EC R&I projects | | | | | | | |

Smart Specialisation in the Eastern Partnership Countries – Interactive online tool

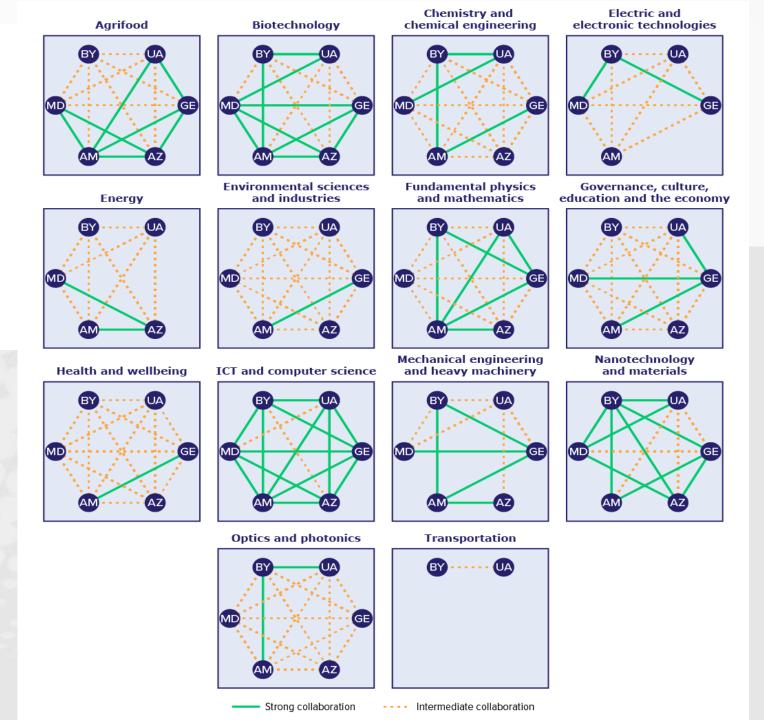


Smart Specialisation in the Eastern Partnership Countries – R&I collaboration patterns



Smart Specialisation in the Eastern Partnership Countries –

Thematic R&I collaboration



Soon to come:

Knowledge Hub for EU Enlargement and Neighbourhood Region



Region-wide analyses

Reports per economy

Guidebooks

Massive Online Open Course

IT tool: STI cooperation network

Thank you

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