



REPUBLIC OF SLOVENIA  
**MINISTRY OF EDUCATION,  
SCIENCE AND SPORT**

# Spreading excellence and widening participation

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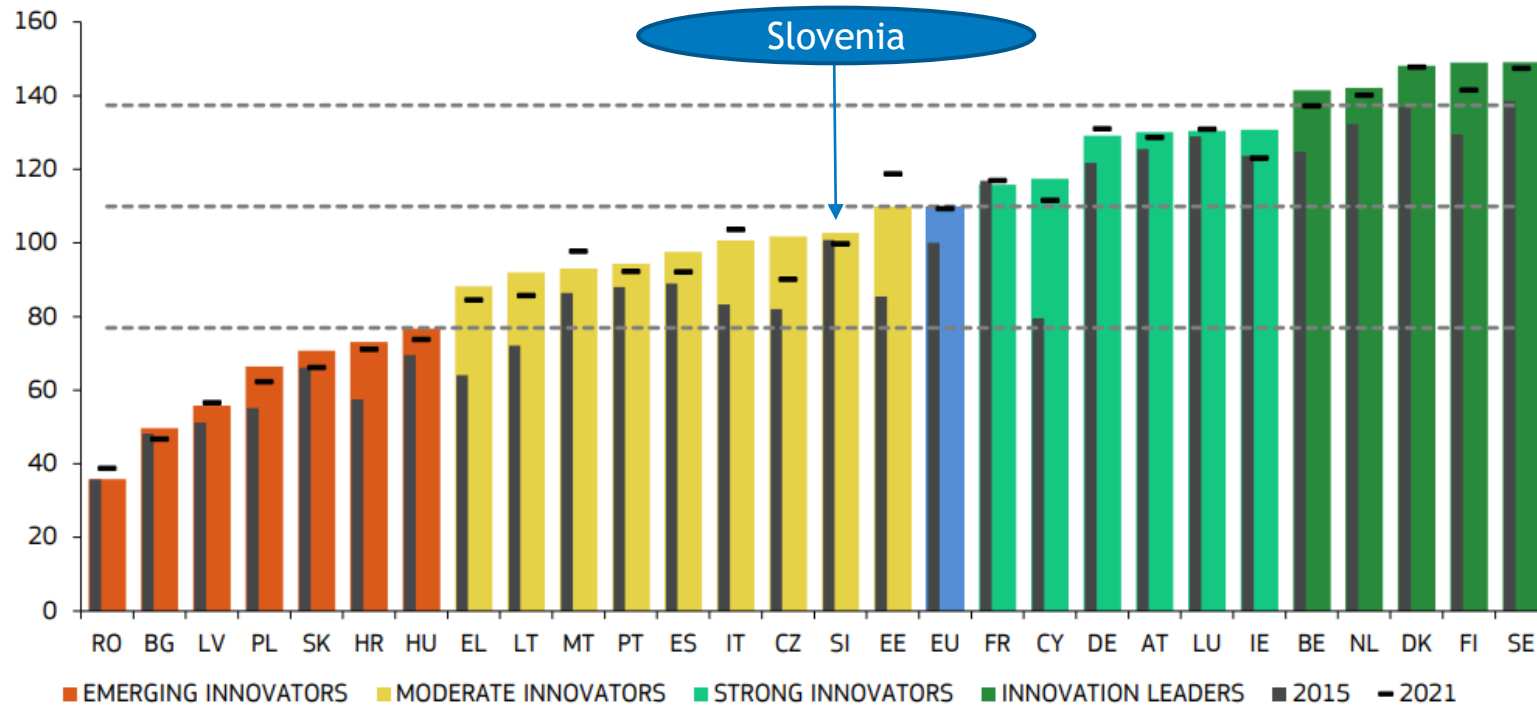
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**Ministry of Education, science and sport of Slovenia**

# Slovenian R&I within European innovation scoreboard 2022

Goal to become INNOVATION LEADER till 2030

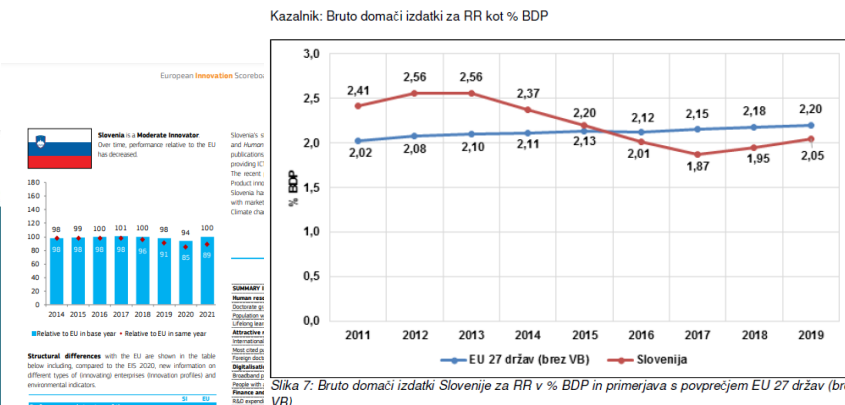
Figure 1: Performance of EU Member States' innovation systems



# New SI Scientific-research and innovation act

## Why?

- More autonomy to research institutions
- Stable funding - block funding of institutions
- Attractive remuneration possibilities
- Key performance indicators;
- Negotiable targets
- Increased financing
- Better governance
- General research and innovation ecosystem



Slika 7: Bruto domači izdatki Slovenije za RR v % BDP in primerjava s povprečjem EU 27 držav (brez VB)

European Innovation Scoreboard

Slovenija is a Moderate Innovator  
Over time, performance relative to the EU has decreased.

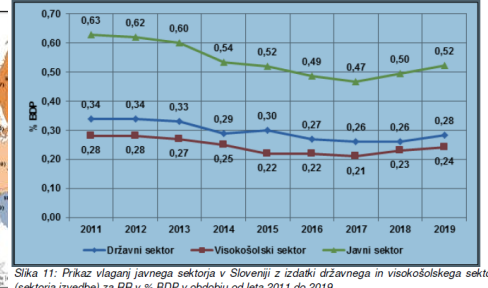
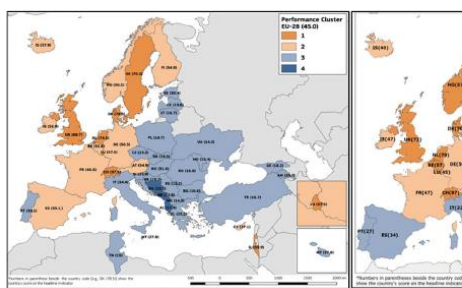
Slovenija's R and Human Capital indicators (including ICT) are below the EU average. Productivity in Slovenia has with market climate etc.

Indicator	2014	2015	2016	2017	2018	2019	2020	2021
Relative to EU in base year	99	99	100	101	100	98	94	100
Relative to EU in same year	100	100	100	100	100	100	100	100

Structural differences with the EU are shown in the table below including, compared to the EU 2020, new information on different types of innovating enterprises (innovation profici) and environmental indicators.

Indicator	2019	EU 27
GDP per capita (PPP)	26.900	30.890
Average annual GDP growth (%)	-0,25	-0,25
Employment share Manufacturing (MACE) (%)	25,4	18,5
of which high and medium-tech (%)	40,7	37,5
Employment share Services (MACE) (%)	36,0	41,7
of which knowledge-intensive services (%)	36,1	39,1
Turnover share SMEs (%)	44,7	36,7
Turnover share large enterprises (%)	53,4	63,3
Foreign-owned enterprises - share of value added (%)	14,3	11,1
Business and tertiary innovation		
Enterprise births (10+ employees) (%)	0,6	1,0
Total entrepreneurial activity (TEA) (%)	7,2	6,7
FTE net effect (% GDP)	2,6	2,0
Total R&D spending enterprises per 10 million population	9,6	14,2
Have entrepreneurs (1 to 7 level)	9,4	8,7
Entrepreneurial activities		
In-house product innovators with market revenues	14,9	10,7
In-house product innovators without market revenues	12,8	12,1
ICT patent applications	1,5	1,5
In-house business process innovators	5,1	11,0
Innovation that do not develop innovations themselves	14,0	11,4
Innovation active non-innovators	1,1	3,1
Non-innovators with patented to innovate	32,9	19,9
Non-innovators without disposition to innovate	18,4	11,1
Entrepreneurial and product innovation		
Ease of starting a business (0 to 100 best)	76,4	76,1
Basic school entrepreneurial education and training	2,1	2,0
Govt. procurement of advanced tech products	2,6	3,1
Ratio of start-ups to 25-35 best	1,1	1,1
Climate change indicators		
Climate material use rate	100,1	11,7
Greenhouse gas emissions intensity of energy consumption	0,78	0,65
CO2 innovation index	14,61	20,02
Population size	2,1	44,7
Average annual innovation growth (%)	0,71	0,1

Kazalnik: Javno vlaganje v RR kot % BDP, merjeno z izdatki Slovenije za RR

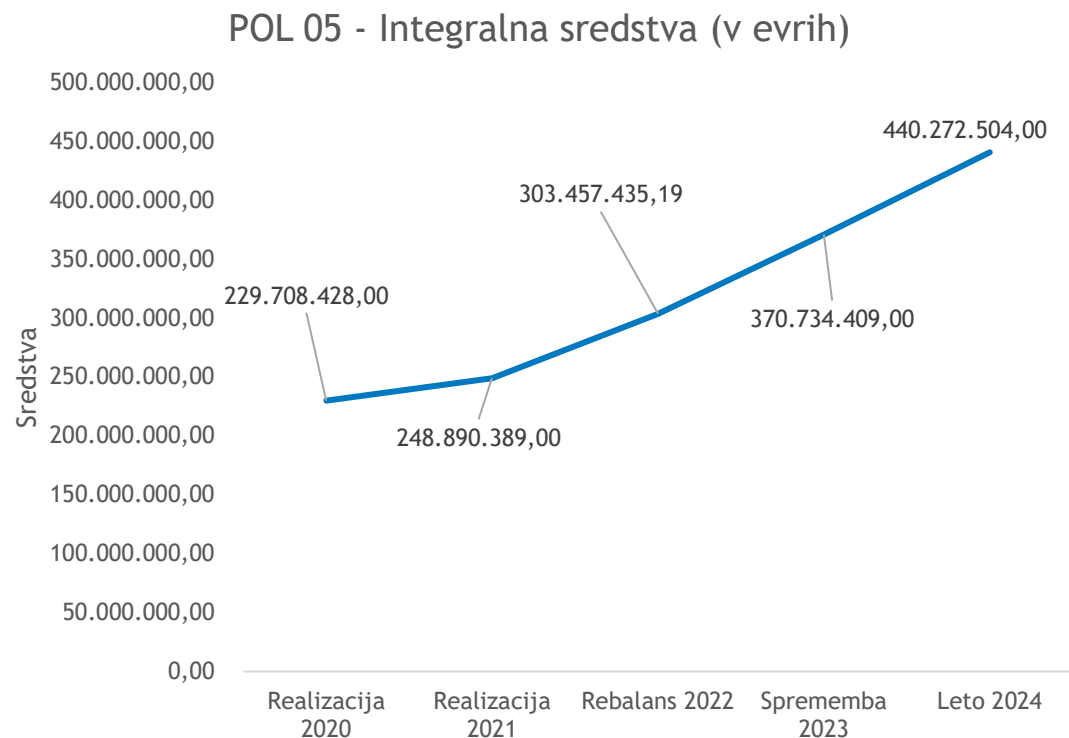


Slika 11: Prikaz vlaganj javnega sektorja v Sloveniji z izdatki državnega in visokošolskega sektorja (sektorja izvedbe) za RR v % BDP v obdobju od leta 2011 do 2019

Slika 3: Prikaz uspešnosti držav evropskega raziskovalnega prostora z indikatorjem raziskovalne odličnosti, merjenim v številu točk, v letu 2016 (levo) in v letu 2013 (desno) z razporeditvijo držav v štiri skupine



## State budget funding in next years



### New Act:

- Stable funding for scientific research is introduced, with the budget for scientific research proposed to be gradually increased to reach at least 1% of GDP till 2028
- **370, 7 mio EUR (2023) and 440,2 mio EUR (2024)**, which is a substantial increase compared to previous years

## Other funds: Structural funds 2014 - 2020

*Measures for improvement of R&I infrastructure and excellence  
development in R&I*

approx. € 185,34 mio. ESRR

### **Efficient use of research infrastructure and competence development for better cooperation within knowledge triangle**

Improvement of international competitiveness and research excellence for cooperation within  
value chains

Better use and development of research infrastructure

Efficient cooperation within international research programmes including H2020

Efficient use of researchers potential and mobility (international as well as sectoral)

## Other funds: RRF funding - goals of reforms and investments

- ▶ to improve **governance and efficiency** of public investments in R&I (new Act, programme committee, improving the support environment for internationalization of RO, capacity building of research and innovation agencies + TSI project)
- ▶ Investments to support **collaboration between academia and private sector**, focusing on green and digital transition
- ▶ Investments to **enhance international mobility and reintegration** of slovenian researchers and support to internationalization (complementarity scheme to MSCA action)
- ▶ **Investments to ensure** at least 40 long-distance optical connections of 100 Gbps, which are expected to cover at least 75 % of all connections between public institutes and 2 established data centres for data repositories
- ▶ Investments to adapt **public research organisations** and enhancing competences for the implementation of **open science practices**

Approx  
67 mio  
EUR

## ESIF 2021-2027

- ▶ Enhancing collaborative research in line with Smart specialization Strategy;
- ▶ Intersectoral mobility of researchers;
- ▶ Widening instruments and complementarity → Teaming, MSCA cofund etc;
- ▶ Funding of Research infrastructure in line with national priorities;
- ▶ Improving and enhancing knowledge transfer (knowledge transfer activities and „death valley“ projects)
- ▶ Demonstration and Training Centre for **Carbon-Free Technologies** in Zasavje region (JTF)
- ▶ **Laboratory for Biomass Bio-refining Research** in Savinjsko-Šaleška Region (JTF)

Approx 350mio  
EUR (EU + SI  
funding)

## New Scientific Research and Innovation Strategy 2030

- ▶ Public investment in science, research and innovation will reach **1.25% of GDP by 2030**, with public investment already at least 1% of GDP in 2027, and total investment in science, research, development and innovation will reach **3.5% by 2030**
- ▶ By 2030, Slovenia will be among **innovator leaders** on the European Innovation Index
- ▶ **Research and innovation** will be targeted at broad areas, within which those addressing key issues to address the challenges of **sustainable development, in line with the objectives of the 2030 Agenda, the Green Transition and the Slovenian Smart Specialization Strategy**



## New Scientific Research and Innovation Strategy 2030- priorities to support widening

- ▶ Establish a system to achieve **synergies and complementarities** between different funding sources, with a focus on the use of the **Seal of Excellence mechanism**
- ▶ Ensure an adequate **share of funding for complementary actions** to the EU Framework Programme for Research and Innovation and **for actions that will increase** the success rate of preparing applications for calls for instruments in these parts of the EU Framework Programmes.
- ▶ **Increase support to projects** under the EU Framework Programme for Research and Innovation in the area of "Spreading Excellence and Widening Participation".

# Horizon 2020 Widening funding and Slovenia

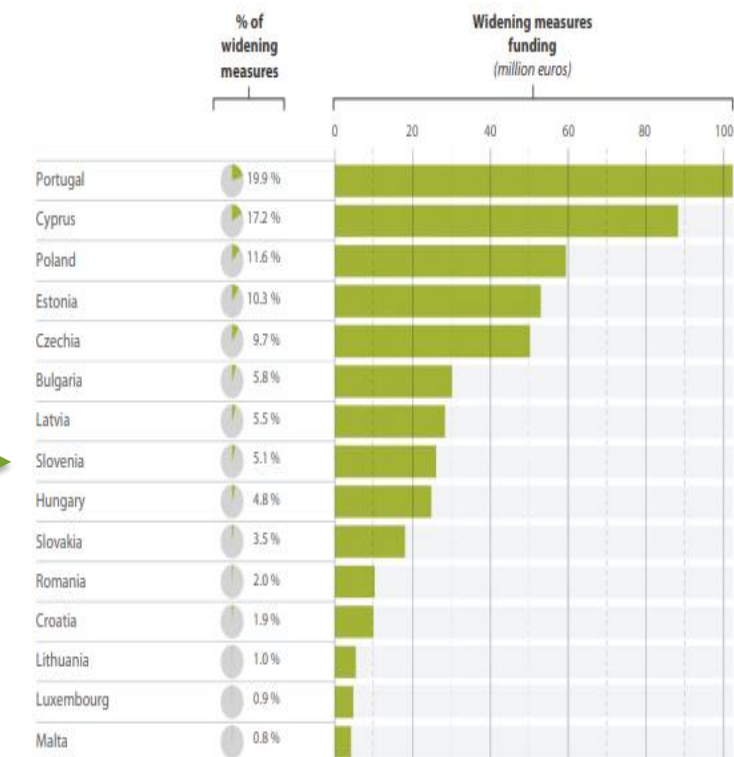
Table 9 – Distribution by country of commitments of H2020 widening funds (at the end of the programme)

Member State/country block	Commitments (in million euros) (excluding COST)
Portugal	102.3
Cyprus	88.2
Poland	59.4
Estonia	52.9
Czechia	50.1
Bulgaria	30.1
Latvia	28.3
Slovenia	26.0
Hungary	24.8
Slovakia	18.0
Romania	10.2
Croatia	9.9
Lithuania	5.3
Luxembourg	4.7
Malta	4.1
Non-widening countries	157.5
Non EU (including United Kingdom)	82.3

Source: ECA based on Horizon 2020 Dashboard.

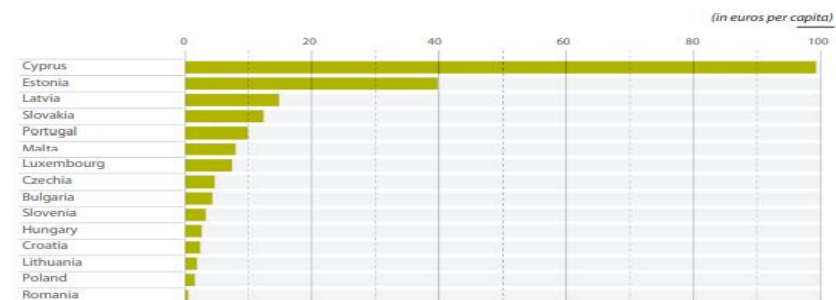
**Horizon Europe:  
21,1 mio EUR  
and 14 projects  
within widening**

Figure 8 – H2020 widening funding by country (at the end of the programme)



Source: ECA based on H2020 database.

Figure 9 – H2020 widening funding per capita (at the end of the programme)



Source: ECA based on H2020 database.

## Widening measures in support of national scientific research and innovation strategy -Why and How?

- ▶ **support institutional**, structural policy reforms and transformation of R&I systems, organisations
- ▶ a tool for **optimizing scientific excellence** for producing and sharing high- quality knowledge, development of pockets of excellence
- ▶ provide **synergies and complementarities** with other funding from ESIF, RRF
- ▶ **leverage the impact** on the efficiency and effectiveness of the slovenian scientific, research and innovation system



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**Thank you for your attention!**