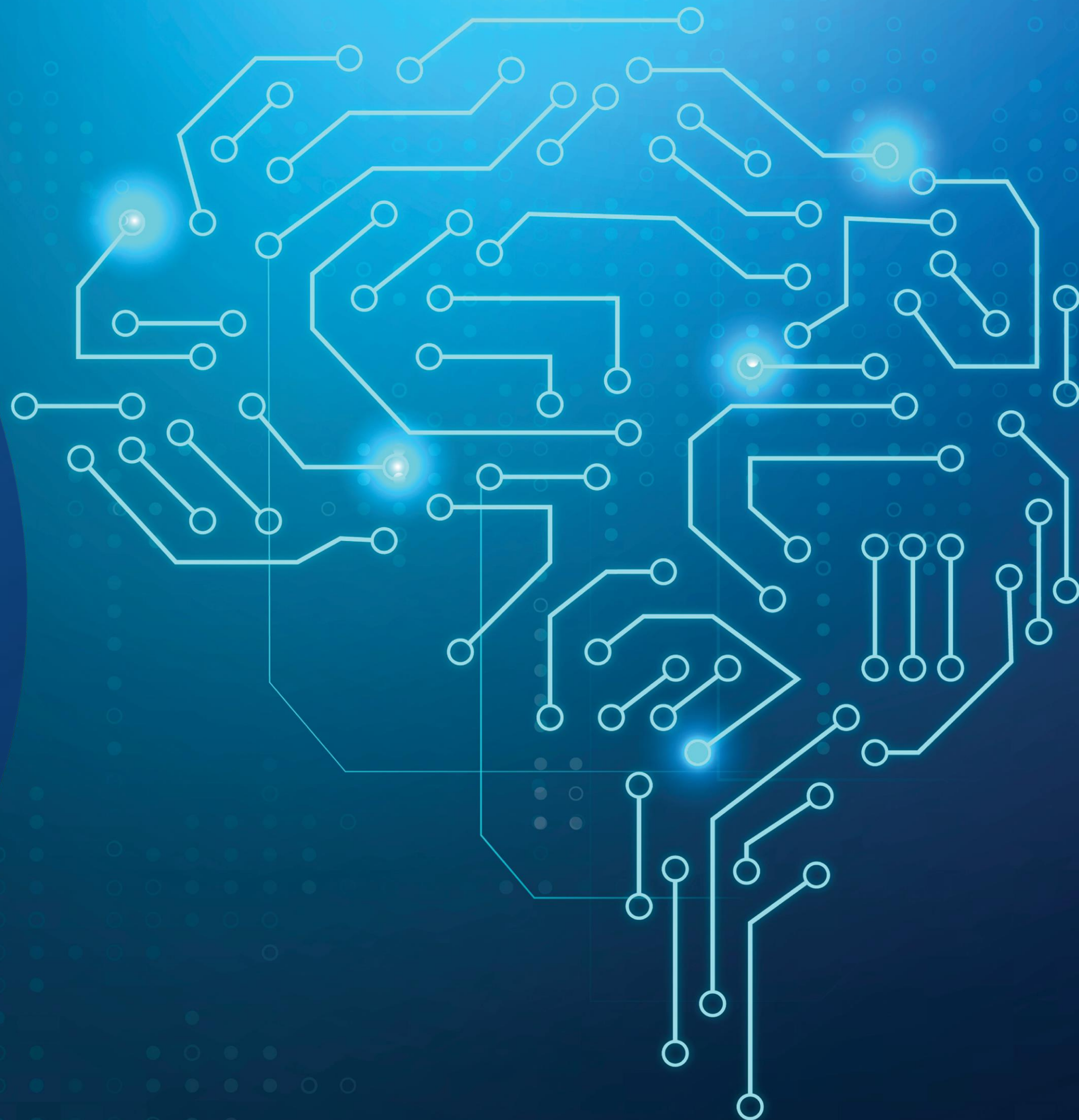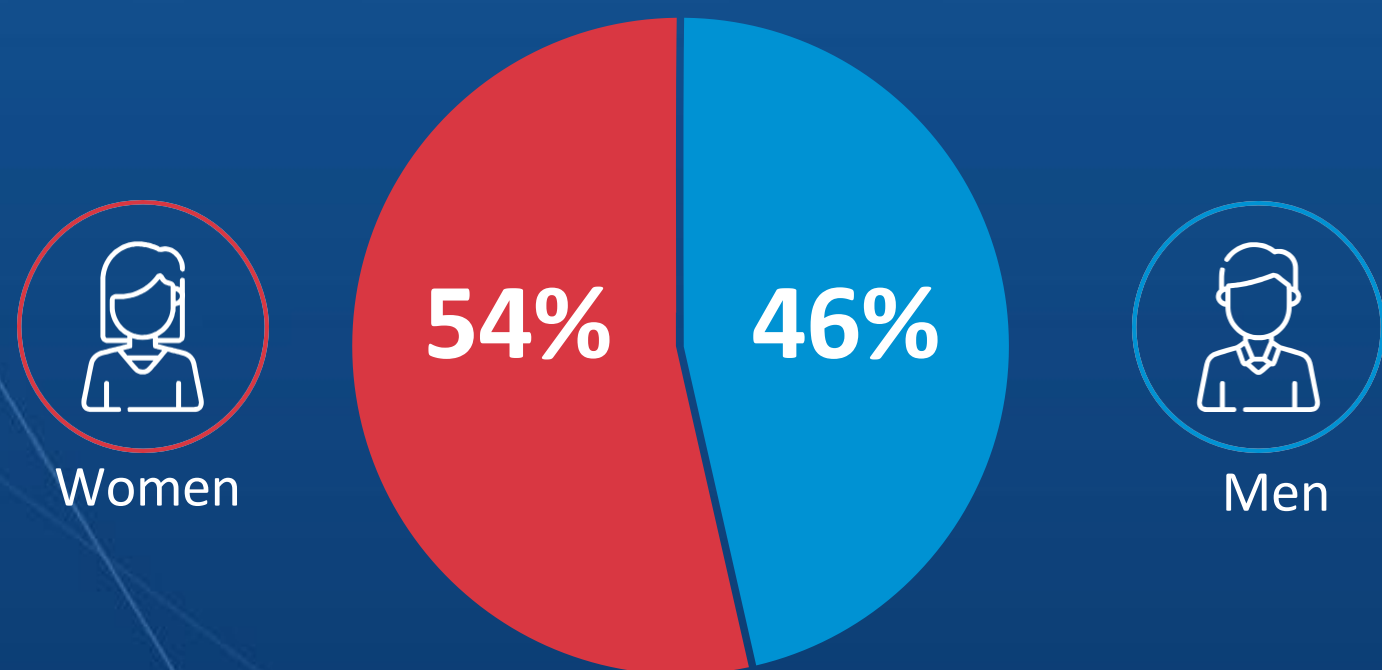Republic of Serbia

MINISTRY OF SCIENCE, TECHNOLOGICAL DEVELOPMENT AND INNOVATION

Vukašin Grozdić
State secretary

Researcher Gender Structure, Nitra Source

54% Women **46%** Men

RESEARCH STRUCTURE BY SCIENTIFIC FIELDS AND GENDER

	Total Number	Male %	Women %
Scientific Field	19514	47.1	52.9
Natural Sciences	4129	43.4	56.6
Engineering and Technology	4202	57.6	42.4
Medical Sciences	2736	40.2	59.8
Agricultural Sciences	1231	47.1	52.9
Social Sciences	2718	47	53
Humanities	1646	41.3	58.7

RESEARCH STRUCTURE BY SECTORS AND GENDER, RZS

Business Sector	1563	64.6	35.4
Government Sector	3401	37.9	62.1
Higher Education Sector	11695	47.5	52.5

NUMBER OF RESEARCHERS IN THE MINISTRY FUNDING SYSTEM
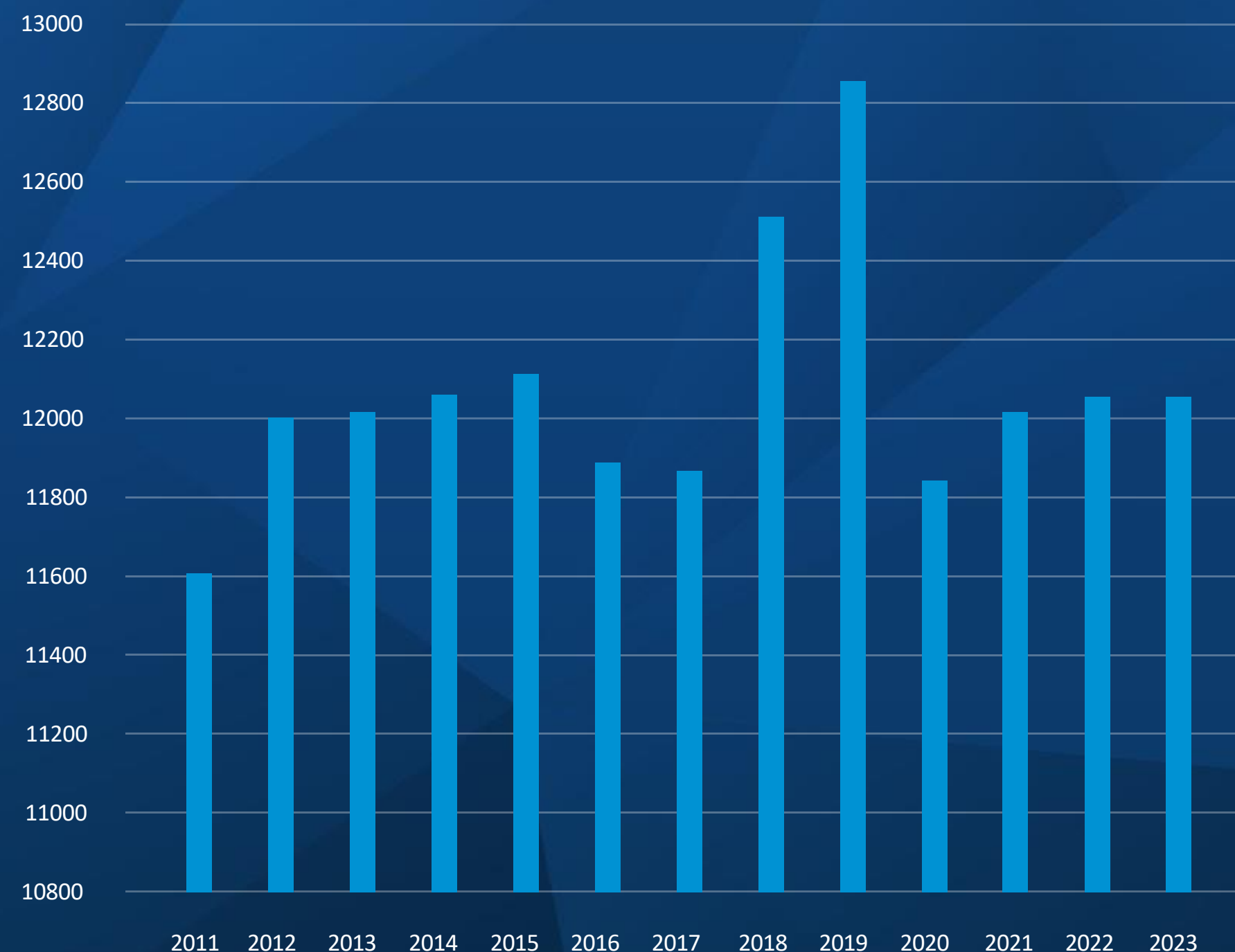
Top performing talent pool in Serbia – University education

Universities:

18 universities

118 faculties

Research Institutes

79 institutes

Strong background:

Engineering

IT

Physics

Mathematics

Serbia is ranked as **9th** in respect to **Graduates in Science and Engineering** according to Global Innovation Index 2023

(The share of all tertiary graduates in science, manufacturing, engineering and construction over all tertiary graduates)

401-500*
Shanghai Ranking
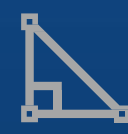
Top 300*
In Physics and Mathematics

University ecosystem breakdown by majors:

37%
Other

Active students:
249,768

27%
Social Sciences, Business and Law

16%
Mathematics, IT & Computing

20%
Engineering & Manufacturing

> 50% (approx. 130 K)
STEM students
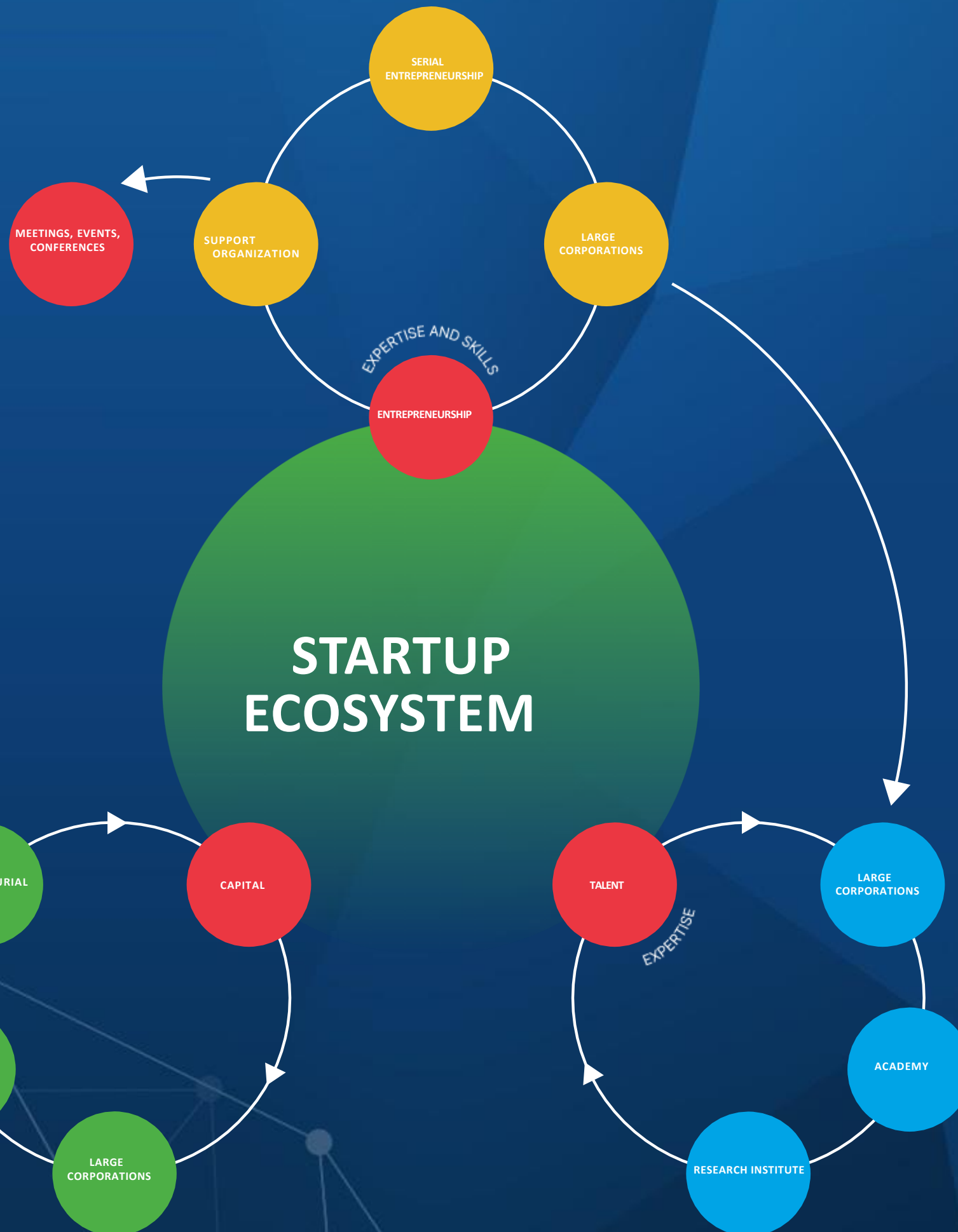
SCIENCE TECHNOLOGY PARKS

SCIENCE TECHNOLOGY PARK
Belgrade

SCIENCE TECHNOLOGY PARK ČAČAK

STP Kruševac
and
STP Kragujevac
- under construction-

SCIENCE & TECHNOLOGY PARK NOVI SAD

SCIENCE TECHNOLOGY PARK NIS

311
COMPANIES

183
STARTUPS

2,377
INNOVATIONS

41
DIGITAL
MEMBERSHIP
COMPANIES

2,982
EMPLOYEES

87
IT COMPANIES

Brief overview of AI roadmap of Serbia

CDT
Centar za digitalnu transformaciju

focused on **digitalization of all private industries**

The Government establishes the Institute for AI

a Center of Excellence, 1st such Institute Southeast Europe

Serbia's AI Platform in Top 10 Best Public Sector Innovation Projects by OECD

Expected **>500** students enrolled into AI master programs.

2023

2025

Introduced tax incentives for R&D

Introduced 7 new **master** programs in AI at **6 faculties, 4 Universities**

Adopted **ethical guidelines** for AI

2021

2022

2020

Elementary schools

7th & 8th grade AI subjects

High Schools have an AI elective subject

Serbia becomes member of AI Governance Alliance

1st to adopt the National AI Strategy in Southeast Europe

Opened **3 new Science Technology Parks** – Niš, Čačak, Novi Sad

2018

2019

Coding as mandatory subject in elementary schools

The Centre of Digital Transformation a **coordination & implementation body**

2017

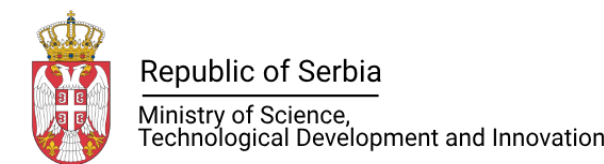Serbia becomes part GPAI

GPAI

National Science fund

SFRS programs are designed to meet the needs of the scientific community in the Republic of Serbia and challenges of society in general.

1) PROMIS	9.0 M€	
2) AI	2.2 M€	
3) DIASPORA Mobility Vouchers	0.8 M€	
4) COVID-19	2.0 M€	
5) IDEAS	30.0 M€	
6) IDENTITIES	2.0 M€	
7) GREEN PROGRAM	3.5 M€	
8) PRISMA	25.0 M€	
9) PROMIS 2023	4.0 M€	
10) PROOF OF CONCEPT	1.0 M€	
11) DIASPORA Joint Research Projects	2.2 M€	
12) DIASPORA Mobility Grants	0.8 M€	
13) IDEAS 2024	24.0 M€	

81,7 M€

Total budget
for 11 programs

Programs are funded by:

Republic of Serbia
Ministry of Science,
Technological Development and Innovation

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ЗА ТЕБЕ

MULTILATERAL PROGRAMS

- EU Framework Programs for Research and Innovation Over the past four years, the HEU funding amounted to €19,519,795.75 in 2021, €21,829,023.94 in 2022, €42,082,354.85 in 2023, and €33,213,293.48 in 2024**, totalling €83,431,174.54.**

- EUREKA program

- COST program - European Cooperation in Science and Technology

SERBIA ACCELERATING INNOVATION AND GROWTH ENTREPRENEURSHIP PROJECT – SAIGE

The Republic of Serbia's **joint investment** (MSTDI) through a World Bank loan and technical support amounting to **43 million euros** and non-repayable financial support from the EU through IPA amounting **to 41.5 million euros**.

COMPONENT 1

Reform of the scientific research sector (SFRS and MSTDI)

- Science Fund of the Republic of Serbia - 22.5 million euros + DF 16.5 million euros
- Reform of Research Organizations - 8 million euros + DF 5.7 million euros
- Cooperation with the Serbian scientific diaspora - 3.5 million euros

COMPONENT 2

Enterprise acceleration (IF) - 7 million euros + DF 4.7 million euros

COMPONENT 3

Implementation of the project, monitoring, capacity building (MSTDI) - 2 million euros

Republic of Serbia
MINISTRY OF SCIENCE, TECHNOLOGICAL DEVELOPMENT AND INNOVATION

Science Fund of the Republic of Serbia

REPUBLIC OF SERBIA INNOVATION FUND

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Funding in total– statistics

Indicator	2019	2020	2021	2022	2023
Total RD resources/GDP [%]	0.89	0.91	0.99	0.97	0.95
Budget RD resources/GDP [%]	0.4	0.46	0.42	0.39	0.39

Year	Ministry budget in (RSD)	Annual incresement
2019	19,822,863,227	
2020	21,023,064,609	6%
2021	24,912,174,712	18%
2022	27,002,817,026	8%
2023	33,991,384,071	26%
2024	37,552,617,000	10%

Serbia's financial contributions for research at CERN between 2019 and 2024 [in CHF]

2019	2020	2021	2022	2023	2024	2019 - 2024	Type of contribution
3.034.800	2.808.900	2.865.800	3.002.950	3.211.200	3.444.800	18.368.450	General contribution
		1.643.850	505.800	505.800	4.352	2.659.802	Special Contributions
				64.400	64.400	128.800	Contribution for the increase of electricity price
166.346	148.470	120.835	142.018	238.230	205.890	1.021.789	Participation of our researchers in different experiments (collaborations)
						22.178.841	TOTAL

Researchers from Serbia participate at the experiments:

➤ CMS

➤ ATLAS

➤ ISOLDE

➤ SHINE

➤ GRID

MoU with CERN: Worldwide LHC Computing Grid

- Memorandum of Understanding signed on December 9, 2023, between CERN, NITRA, and MIT
- for the establishment of a "Tier-1 center" at the State Data Center in Kragujevac.
- -The center is part of the Nordic Data Grid Facility and supports the CMS experiment.
- Part of the global computing infrastructure (WLCG) to store, process, transfer, and analyze LHC data.
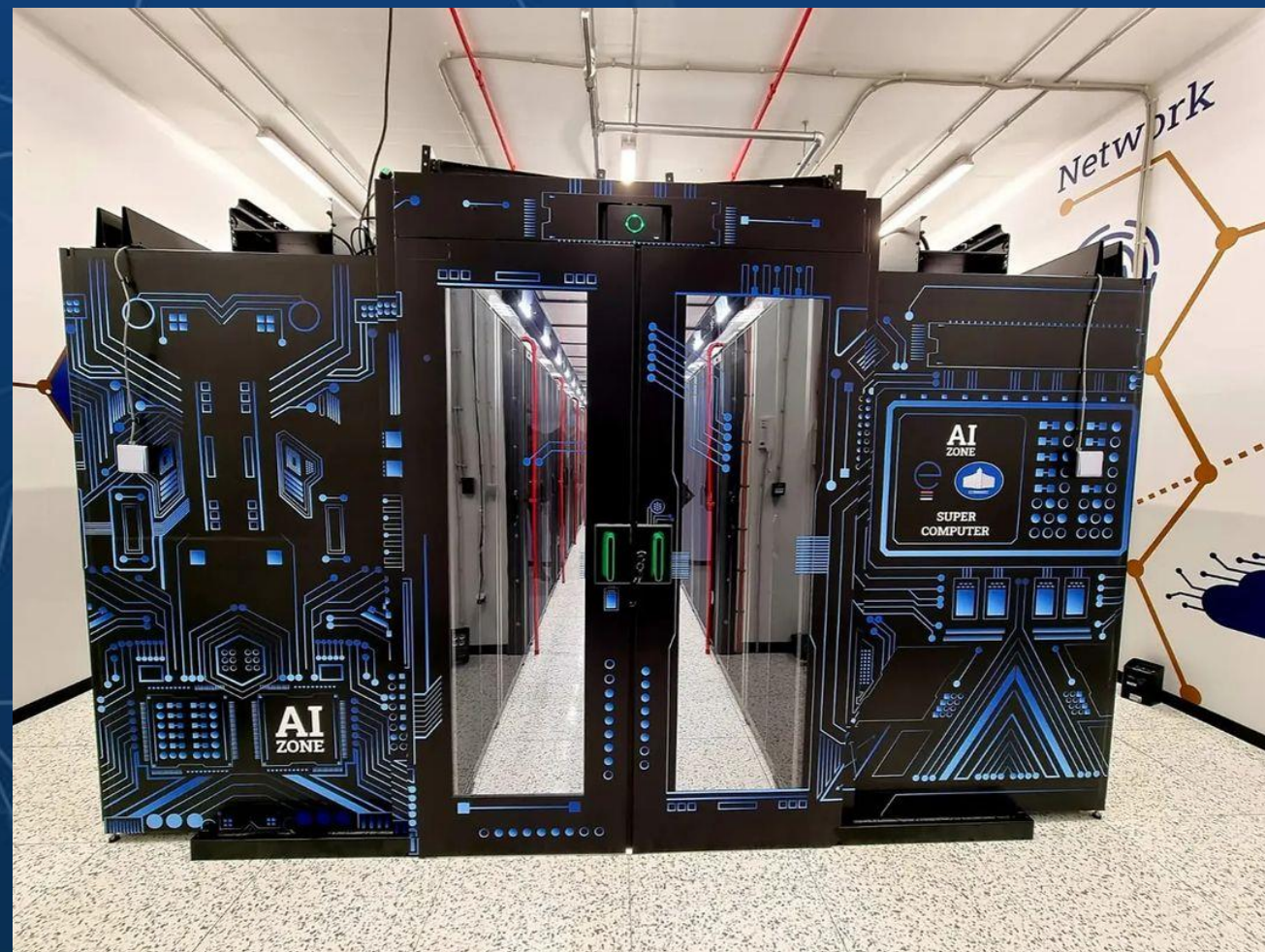
By establishing a "Tier-1 center" at the State Data Center in Kragujevac, Serbia becomes one of 7 European countries and 10 worldwide (alongside the USA, Canada, South Korea)