



Jožef Stefan Institute (JSI)



Mission statement

The JSI's mission is to collect, create and disseminate knowledge at the highest level of natural and technical sciences for the well-being of Slovenian society and humanity in general. With the constant development of new knowledge, the JSI provides the best education to personnel as well as the research and development of technologies at the highest international level of excellence.

The mission of JSI is realized through:

- a professional attitude to research at the cutting edge of science at all levels;
 - education that is embedded in research and development; in doing so, the JSI cooperates closely with other institutions in Slovenia and around the world;
 - focusing on new research topics, which are frequently interdisciplinary;
 - the transfer of technologies and personnel to industry;
 - raising public awareness, especially among young people, of the growing importance of science and technology;
 - environmental and public-safety services;
 - adopting flexible, goal-oriented organizational structures that can respond quickly to new challenges and offer the appropriate services.
-



Name of the Institute



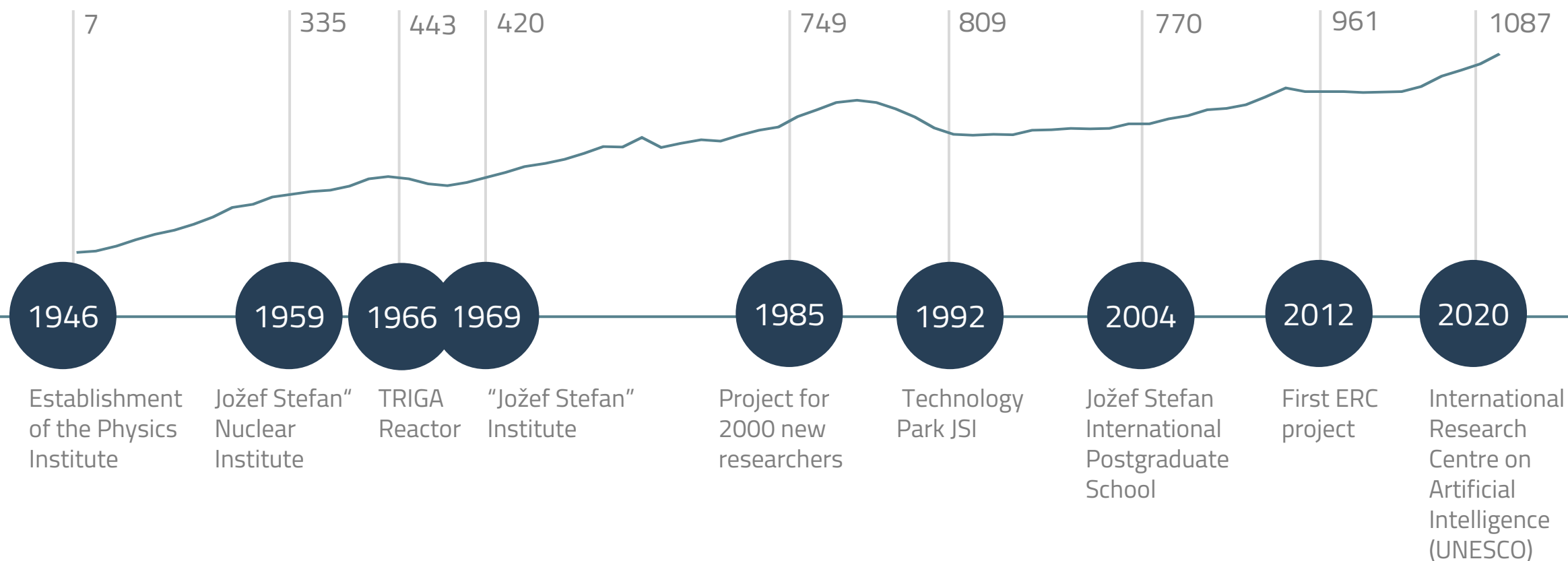
Jožef Stefan: distinguished 19th century physicist, most famous for his work on the Stefan-Boltzmann law of black-body radiation

Jožef Stefan
1835–1893



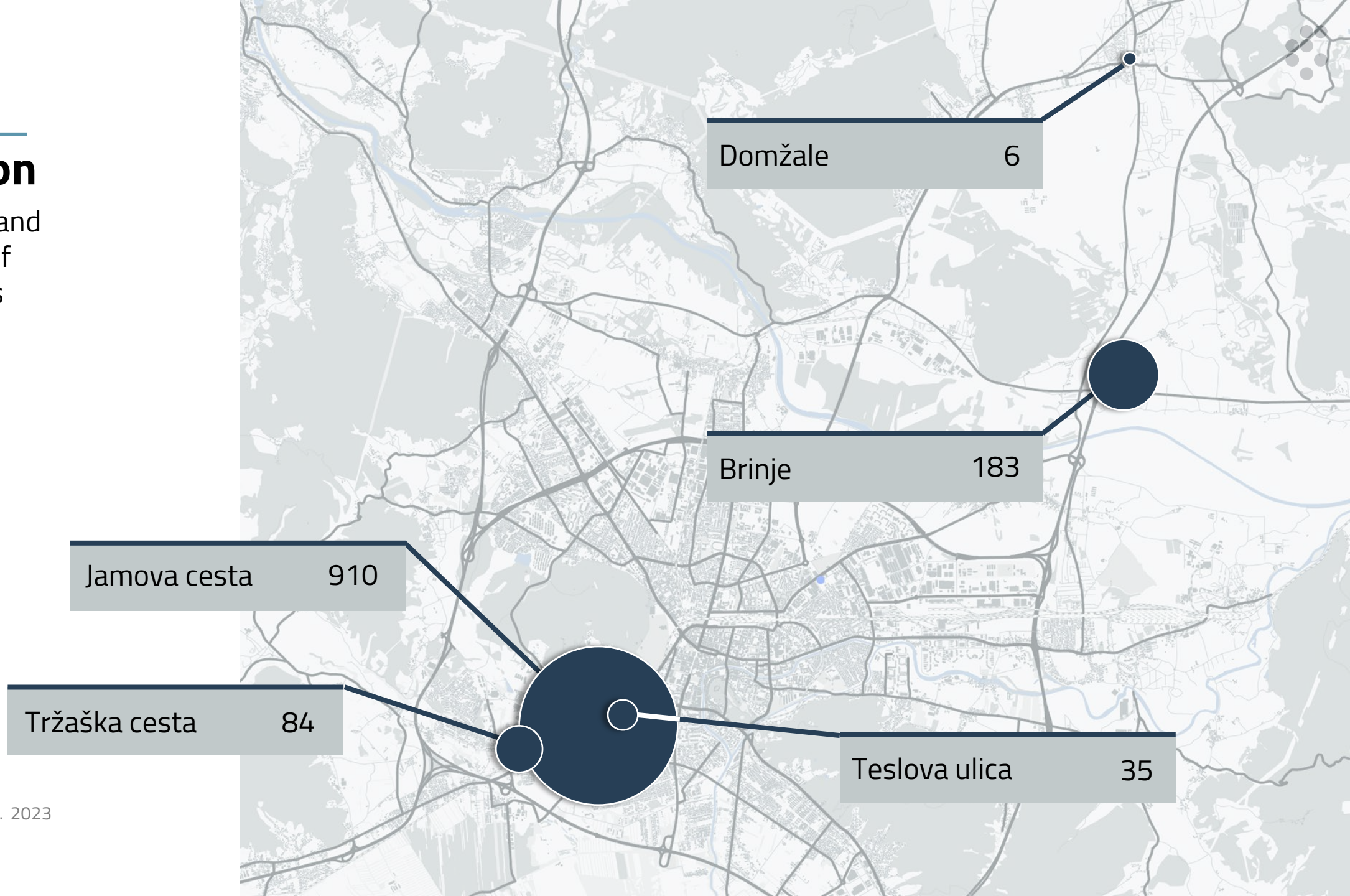
History

Institute milestones and growth in the number employees



Location

Locations and numbers of employees



Data as of 31.12. 2023

The Institute in numbers

1218

employees*

831

researchers*

224

faculty members
lecturing at ->

49

various higher-
education
institutions**

799

young
researchers * * *

803

doctoral theses***

900+

published articles**

42,477

citations*

770

projects**

9

ERC projects

122

awards***

46

programmes**

78,053

€m of planned
revenue*

2811

media releases**

20,600+

visitors**

*Data collected on 31.12.2023

**Data are for 2023

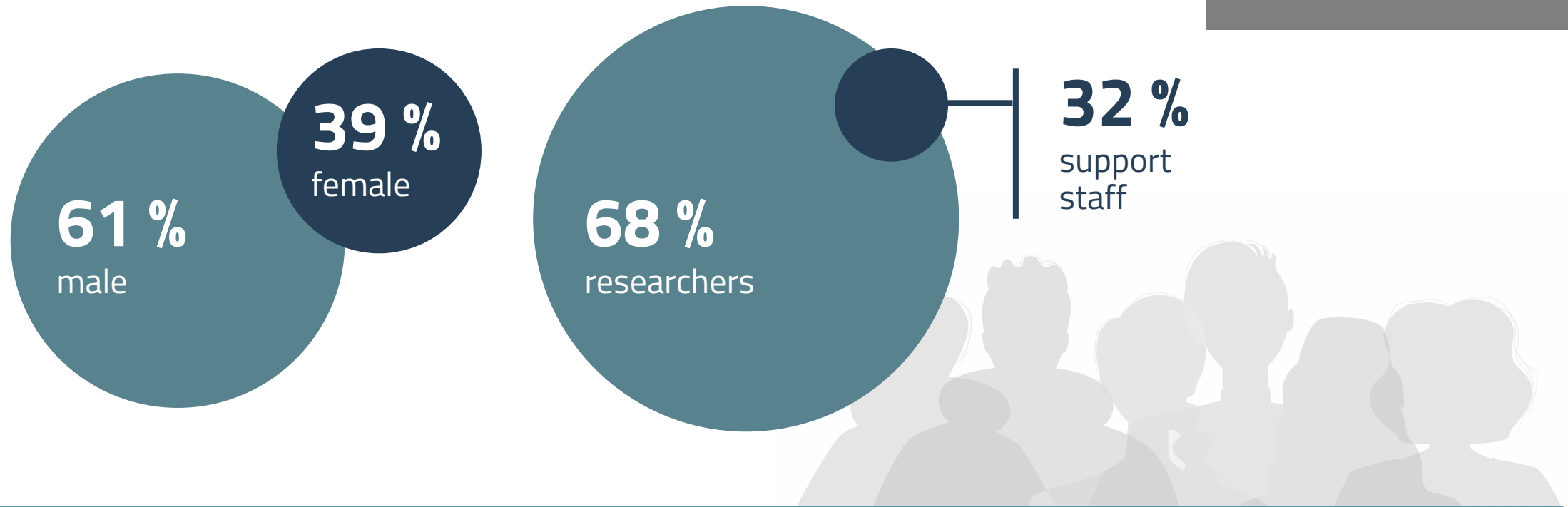
***Data for 2000-2023



Staff

Number of employees by gender and area of activity

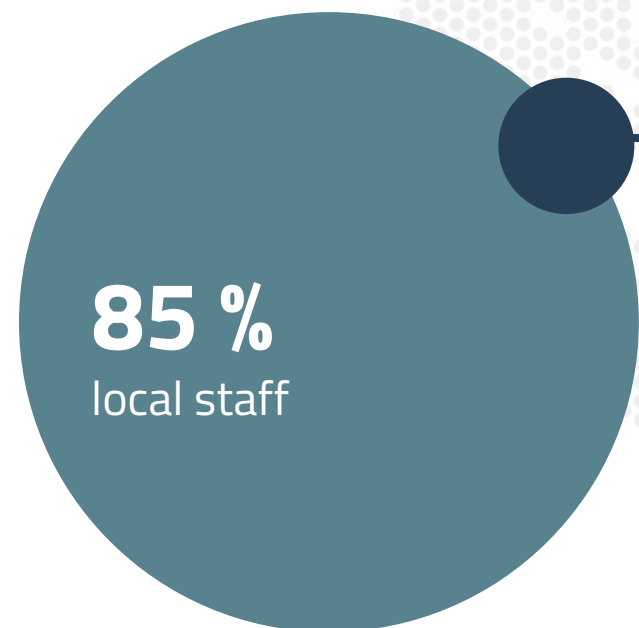
Total
1218
employees





Staff

Number of researchers by country of origin



15 %
International staff from
42
Different countries

Total

831

researchers



Main areas of research

JSI departments divided into areas



Electronics and Information Technologies

- Automation, biocybernetics and robotics
- Systems and control
- Artificial intelligence
- Open systems and networks
- Communication systems
- Computer systems
- Knowledge technologies
- Intelligent systems

8
depart-
ments

Physics, nuclear engineering and energy

- Theoretical physics
- Low and medium energy physics
- Thin films and surfaces
- Surface technology
- Solid State Physics
- Gas electronics
- Complex matter
- Reactor physics
- Experimental particle physics
- Reactor technology

10
depart-
ments

Chemistry, biochemistry, materials and environment

- Biochemistry, molecular and structural biology
- Molecular and Biomedical Sciences
- Biotechnology
- Inorganic chemistry and technology
- Physical and organic chemistry
- Electronic ceramics
- Nanostructured materials
- Synthesis of materials
- Advanced materials
- Environmental sciences

10
depart-
ments



Main areas of research

Number of researchers by scientific fields

(7 female researchers and 18 researchers are employed in centres and technical services)

Total

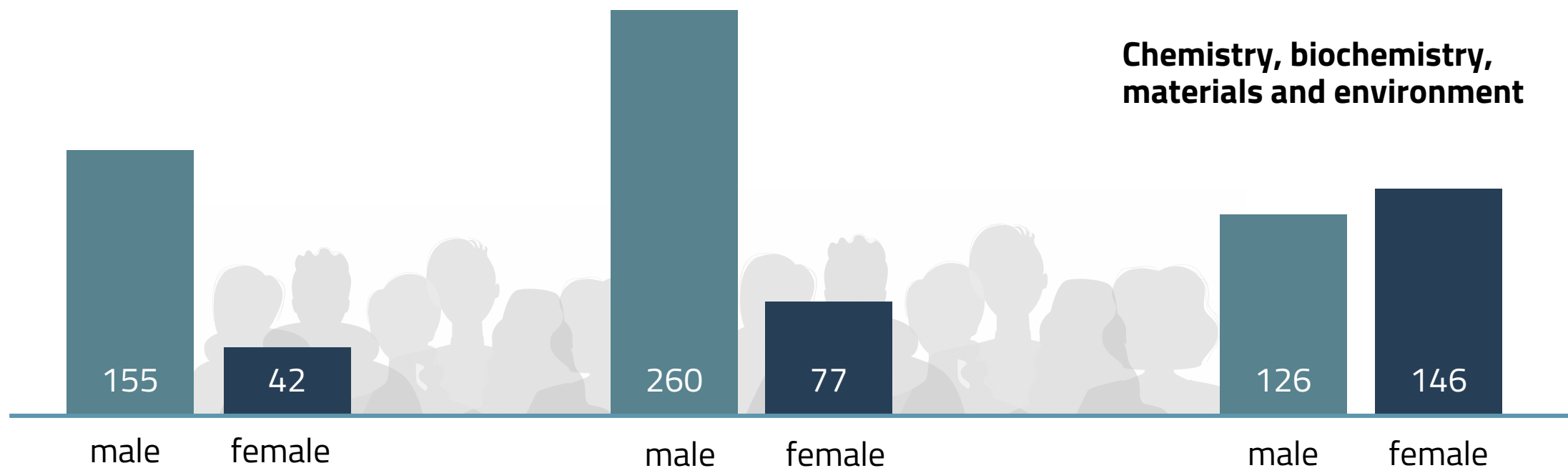
806

researchers

Electronics and Information Technologies

Physics, nuclear engineering and energy

Chemistry, biochemistry, materials and environment





Publication of JSI articles in top scientific journals

Elsevier CiteScore



Total

1212

publications

68 %

articles in
the top 25% of
scientific journals.

40 %

articles in
the top 10% of
scientific journals.

20 %

articles in
the top 5% of
scientific journals.

3 %

articles in
the top 1% of
scientific journals.



Publication of JSI articles in top scientific journals

Web of Science



WEB OF SCIENCE



42,477

citations of all JSI articles

Data are for 2023



572,706

citations of all JSI articles

Data are for 2000–2023



909

Number of published JSI articles

Data are for 2023

Total

42,477

citations

Total

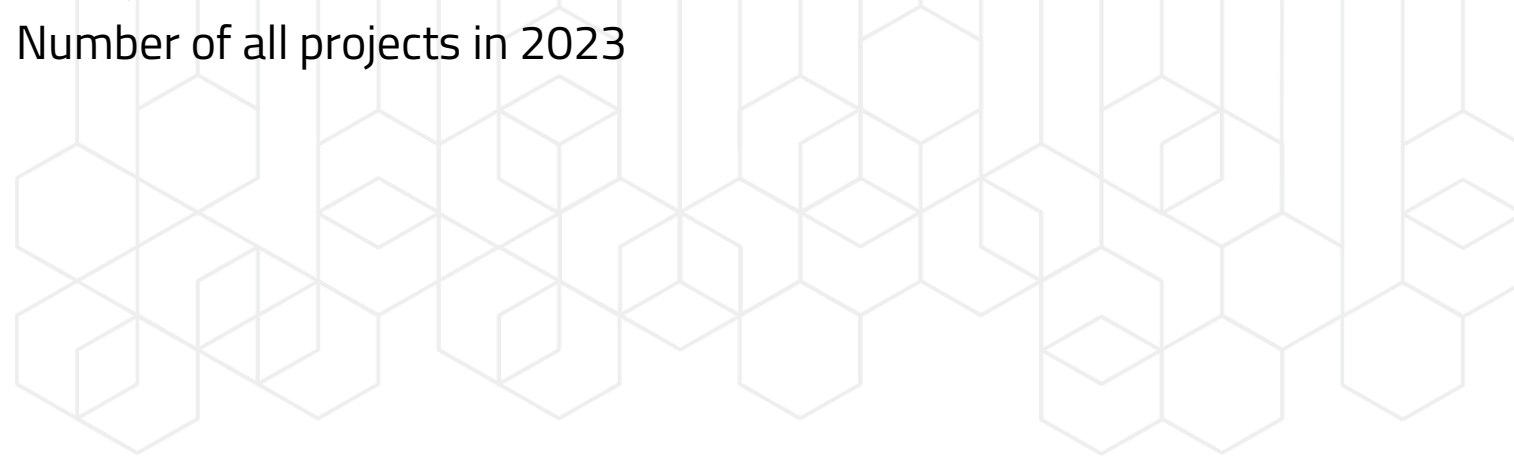
909

publications



Projects

Number of all projects in 2023



Total

770

projects

333

projects financed by
the national agency:
ARIS

147

projects financed by
different **European
Union** schemes

158

market projects:
domestic

132

market projects:
international



The Institute and the European Research Council (ERC)

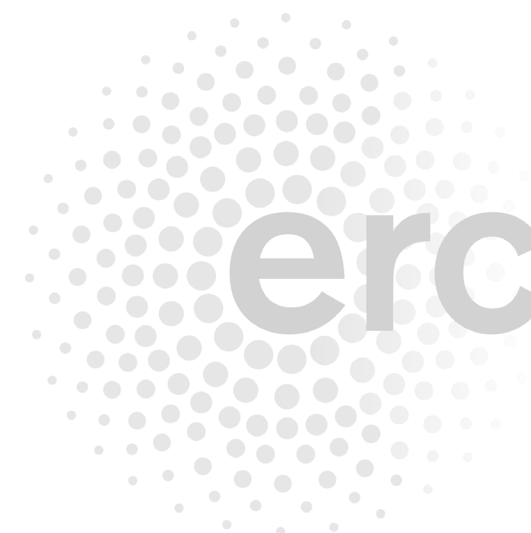
The JSI is proud of all its ERC project grantees

2012	D. Mihailović	ERC-2012-AdG	TRAJECTORY
2017	D. Mihailović	ERC-2017-PoC	Umem4QC
2019	M. Humar	ERC-2019-StG	CELL-Lasers
	P. Križan	ERC-2019-AdG	FAIME
	I. Mušević	ERC-2019-AdG	LOGOS
	M. Lozinšek	ERC-2020-StG	HiPeR-F
2022	P. Križan	ERC-2022-PoC	CherPET
	Z. Lenarčič	ERC-2022-StG	DrumS
2023	L. Vidmar	ERC-2023-CoG	Boundary

Total

9

ERC projects





Programmes

Number of programmes by policy area in 2023



Total
46
programmes

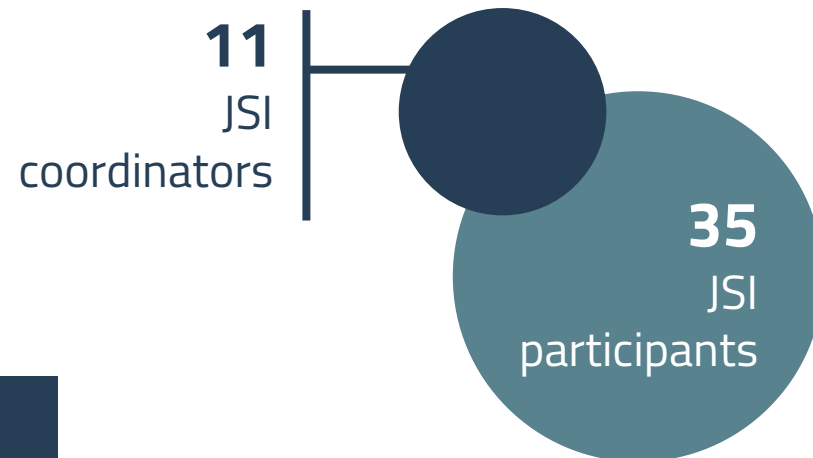
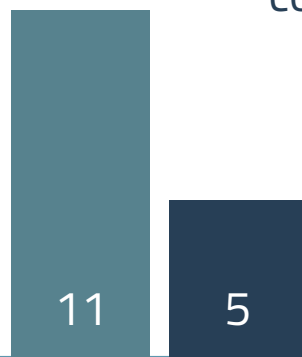
Electronics and Information Technologies



Physics, nuclear engineering and energy



Chemistry, biochemistry, materials and environment

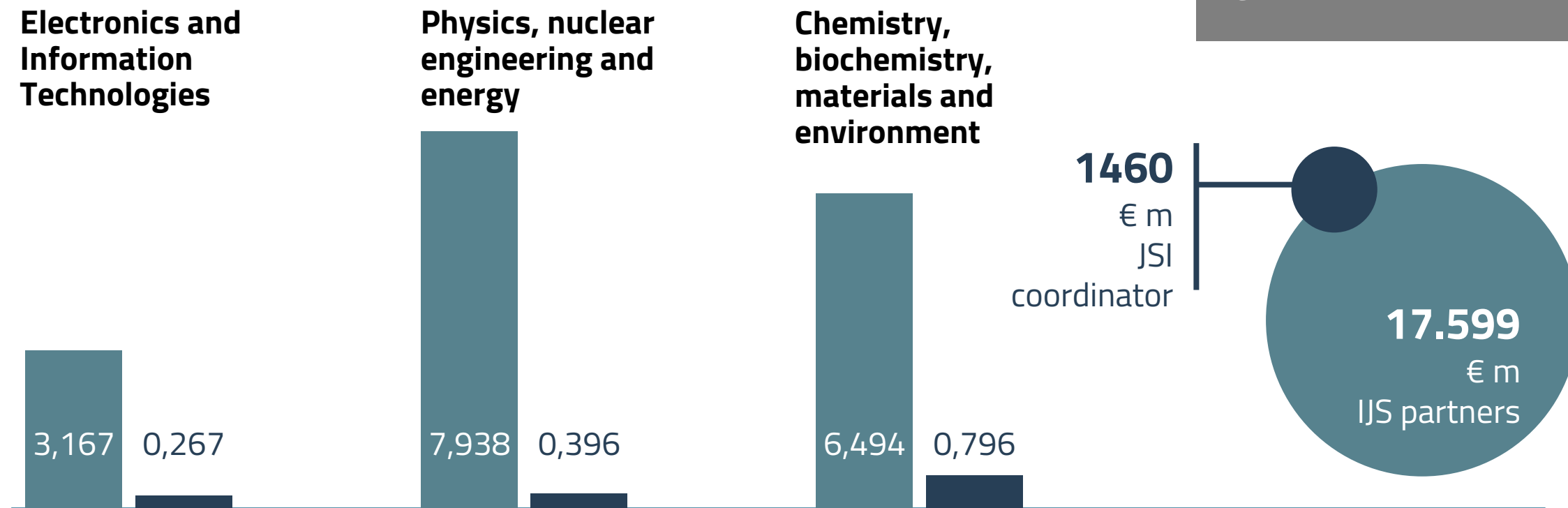


Data are for 2023



Programme revenues

Revenues from programmes by topic in 2023



Total
19.059
€ m

Data are for 2023



Education

Number of all staff teaching at different higher-education institutions.

Total

244

lecturers

Total

49

Higher-education institutions



51

supplementary staff



176

regular staff working with higher-education institutions



35

Number of Slovenian higher-education institutions involved



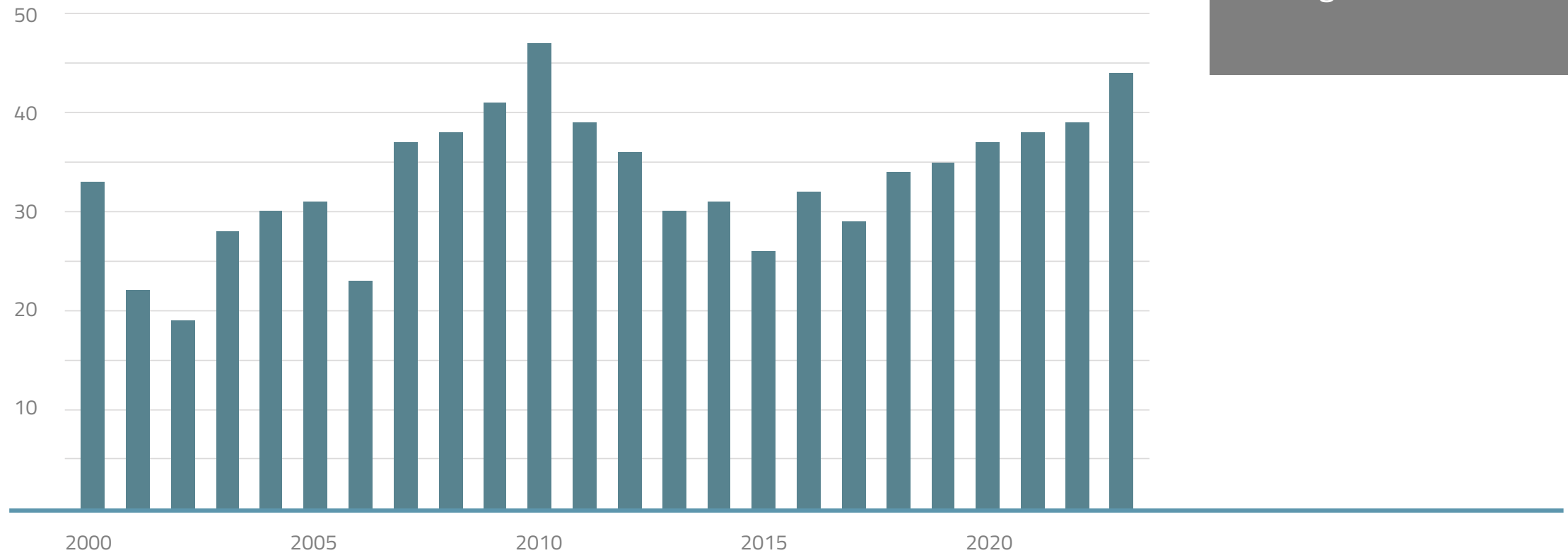
14

Number of foreign higher-education institutions involved



Young researchers

Number of young researchers covered by ARRS funding in the period 2000–2023 by year



Total

799

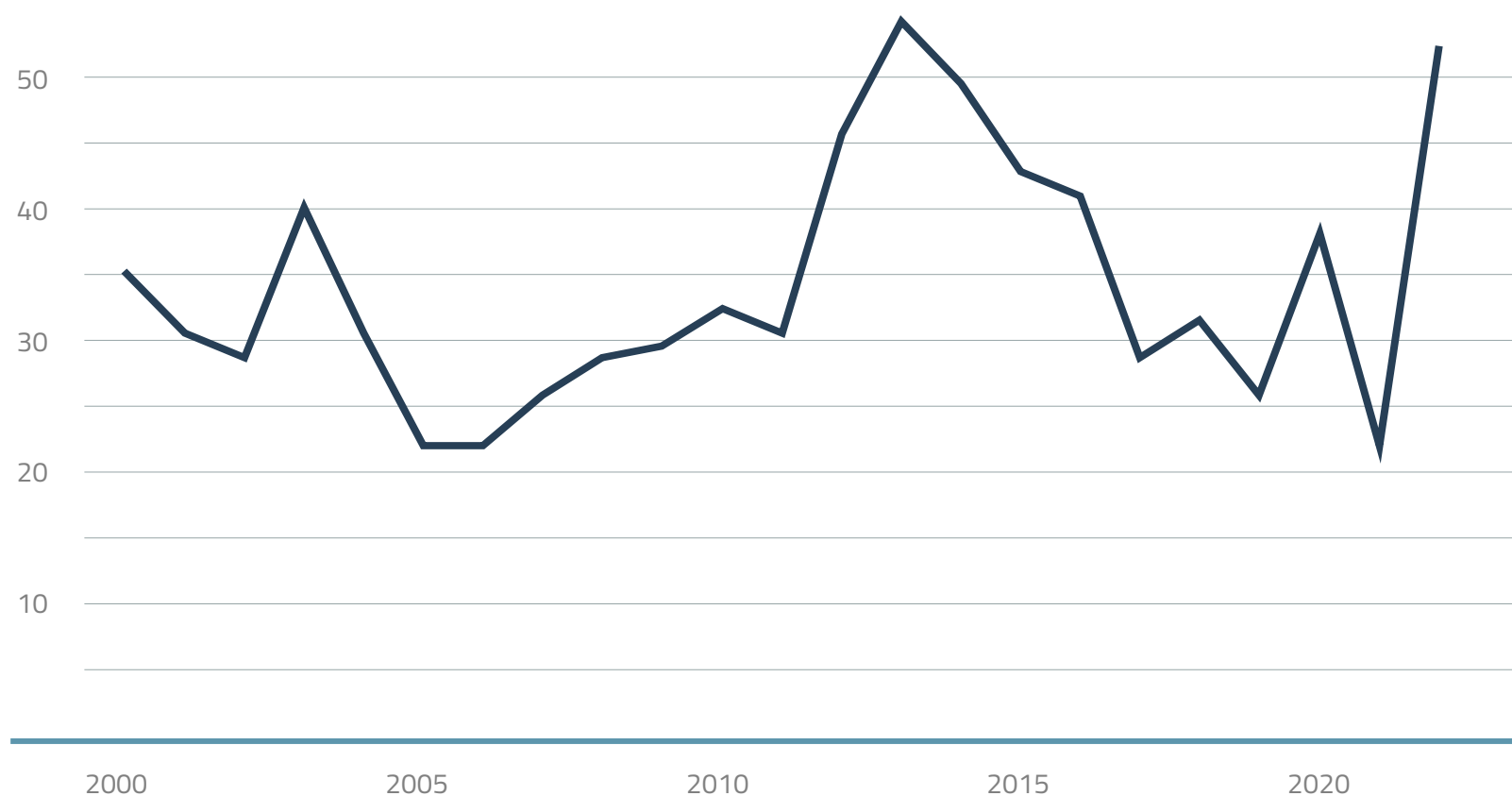
Young researchers

Data are for the period 2000–2023



Doctoral theses

Number of doctorates with mentors from the JSI



Total

803

Doctoral theses

The data are for the period 2000–2022, The data are the number of doctorates in the year with mentors from JSI



Awards

Number of Zois, Puh Awards and Ambassadors of Science



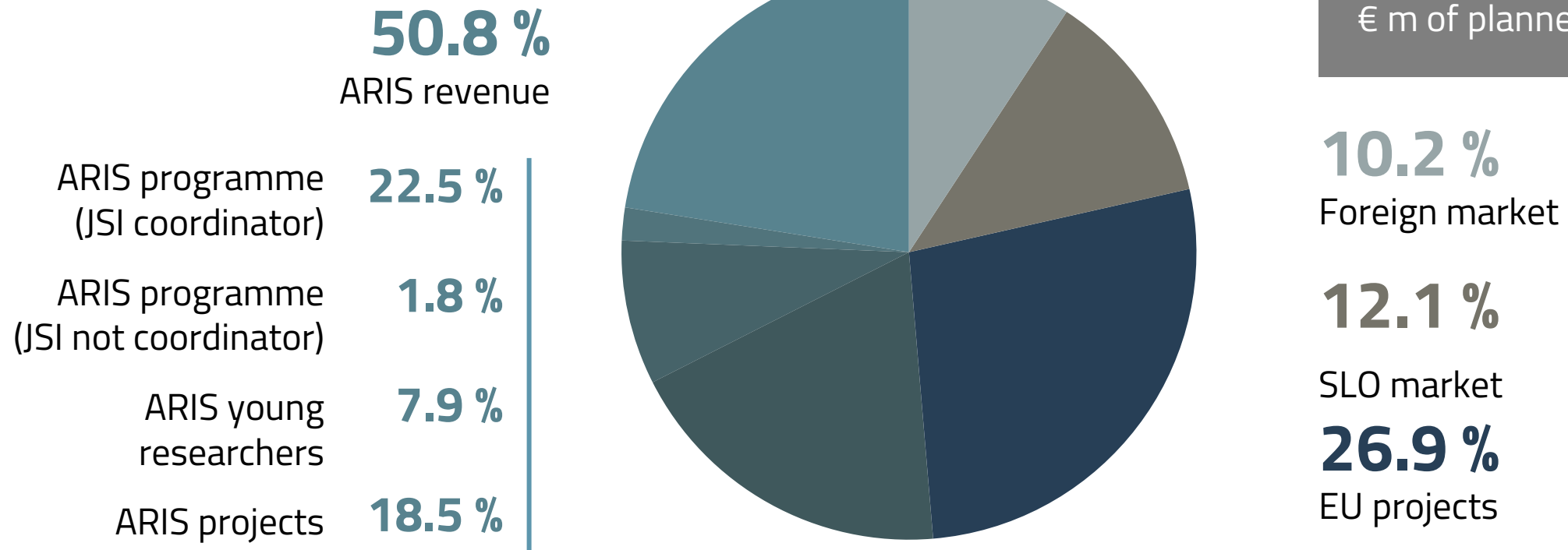
Total
122
awards





Planned revenue

Planned revenues of the Institute by type of revenue for 2023



Total

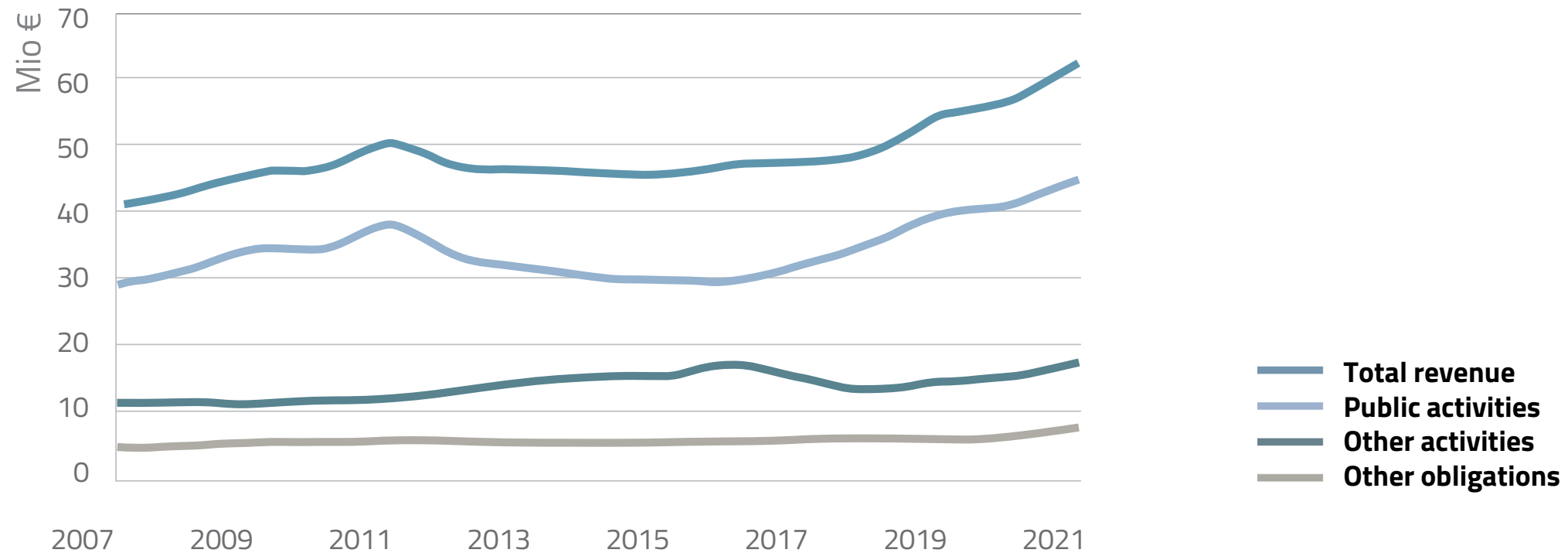
78.053

€ m of planned revenue



Revenue

Revenues of the Institute from 2007 to 2021 (amendment to the law)



The data are for the period 2007-2021, when the Financing Act was amended.



Comparison with the rest of the world

“Jožef Stefan” Institute (IJS) // Max Planck Institute (MPS) // French National Centre for Scientific Research (CNRS)



Employees

		population	Number of employees	Number of employees as % of population
IJS	Slovenia	2.12 m	1,200	0.05 %
MPS	Germany	84.60 m	23,950	0.03 %
CNRS	France	64.83 m	33,000	0.05 %

Revenue

		Annual revenue	Annual income per employee
IJS	Slovenia	65 € m	54,200 €
MPS	Germany	1,980 € m	82,700 €
CNRS	France	3,700 € m	112,100 €

Data are for 2022/2023



Public cooperation

Number of visitors to JSI events organised for different groups and number of visitors to the Nuclear Technology Training Centre

Events

Colloquia	1,100
Gallery	9,300
School visits	1,100
Days of Jožef Stefan	650
Open Day	2,000
Researchers' Night	350

Nuclear Technology Training Centre	6,180
---	--------------

Total of more than

20,600

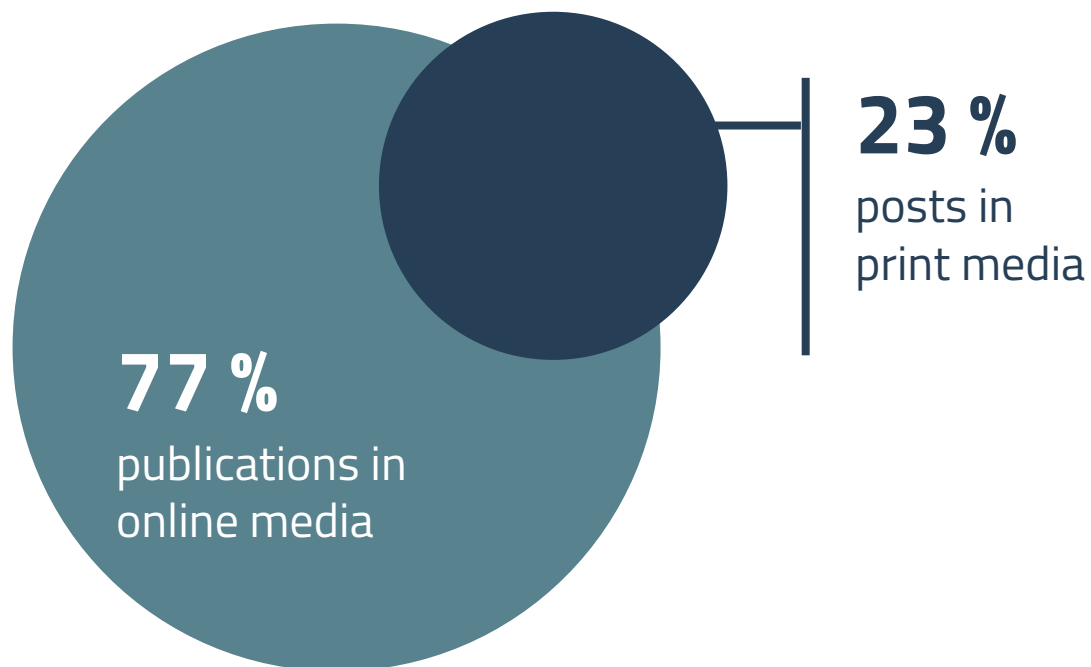
visitors





Appearances in the media

Incidences of the Jožef Stefan Institute and the Director Prof. Dr. Boštjan Zalar appearing in print and online media



Total

2811

Media releases

Media that wrote the most on these topics:

1. novice.najdi.si
2. sta.si
3. [Delo](http://delo.si)
4. rtvslo.si
5. delo.si

Authors who wrote the most on these topics:

1. [STA](#)
2. [Saša Senica](#)
3. [Borut Hočevar](#)
4. [Sabina Petrov](#)
5. [M.K.](#)

Thank you for your attention

“Jožef Stefan” Institute
Jamova cesta 39
1000 Ljubljana
Slovenija

<https://www.ijs.si/>