



UNIVERSITY  
OF LJUBLJANA

**FGG**

Faculty of Civil and  
Geodetic Engineering

# Bridging the Gap

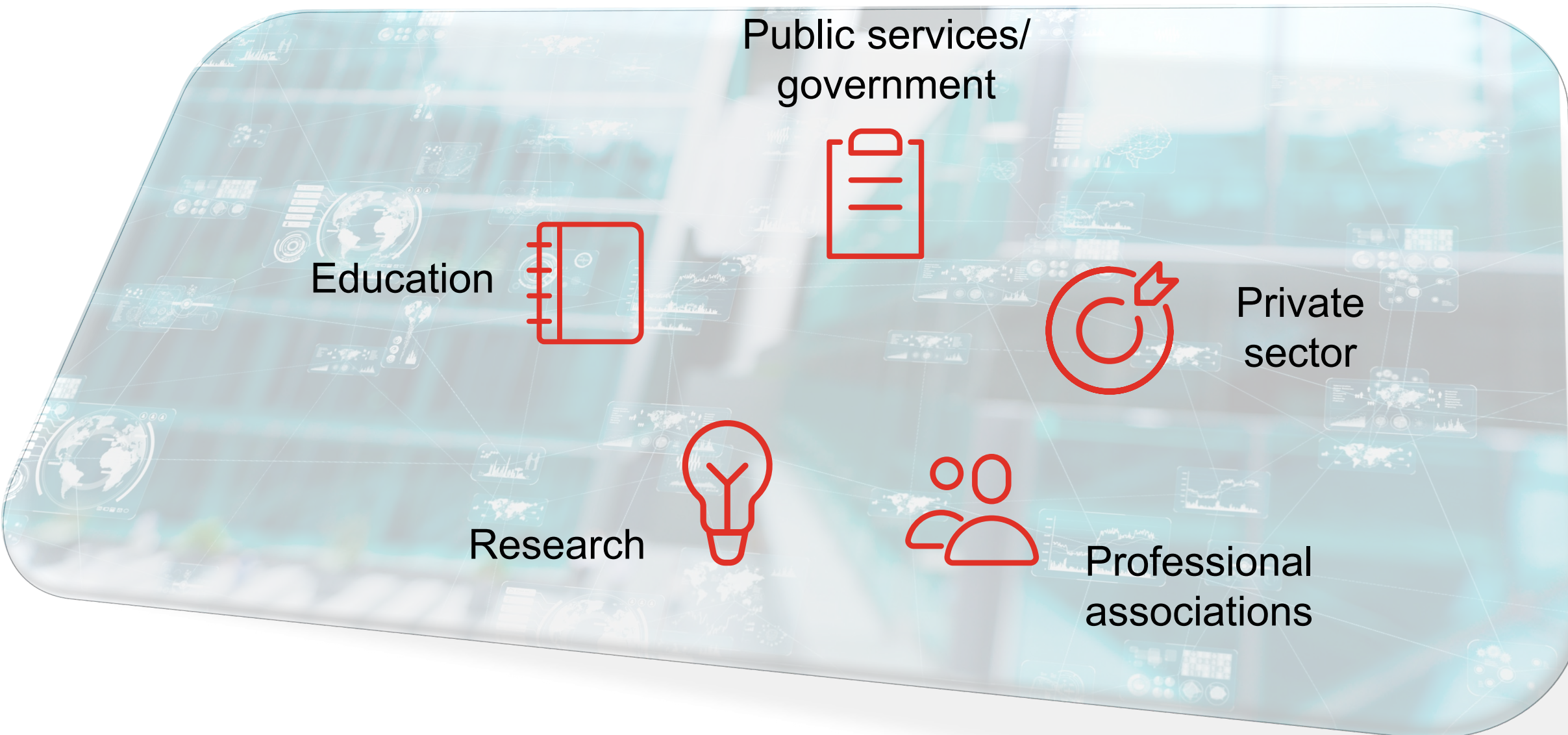
Addressing Recruitment and Capacity Challenges  
in Slovenia's Geospatial Sector

Prof Anka Lisec, UL FGG

Erna Flogie Dolinar, NSMA

Ljubljana, November 11, 2024

# The „geospatial ecosystem“ in Slovenia



# Higher education & research in geospatial domain

## University of Ljubljana, Faculty of Civil and Geodetic Engineering

- One of 23 faculties and three arts academies
  - Department of Civil Engineering
  - **Department of Geodetic Engineering**
  - Department of Environmental Civil Engineering



## Geodetic Institute of Slovenia

- Public research institute (supporting NSMA)

## Research Centre of the Slovenian Academy of Sciences and Arts

- Institute of Anthropological and Spatial Studies

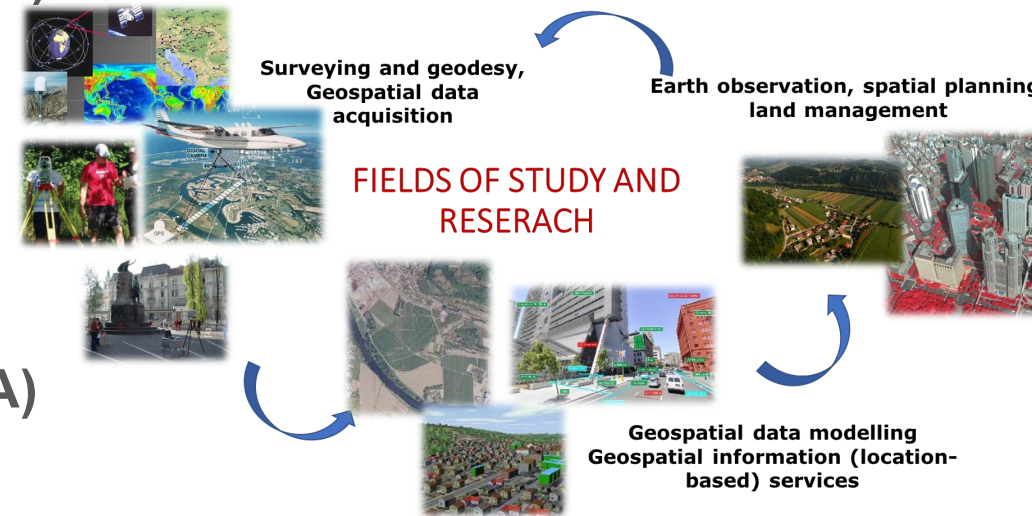
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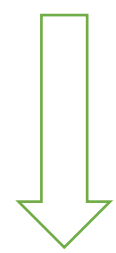
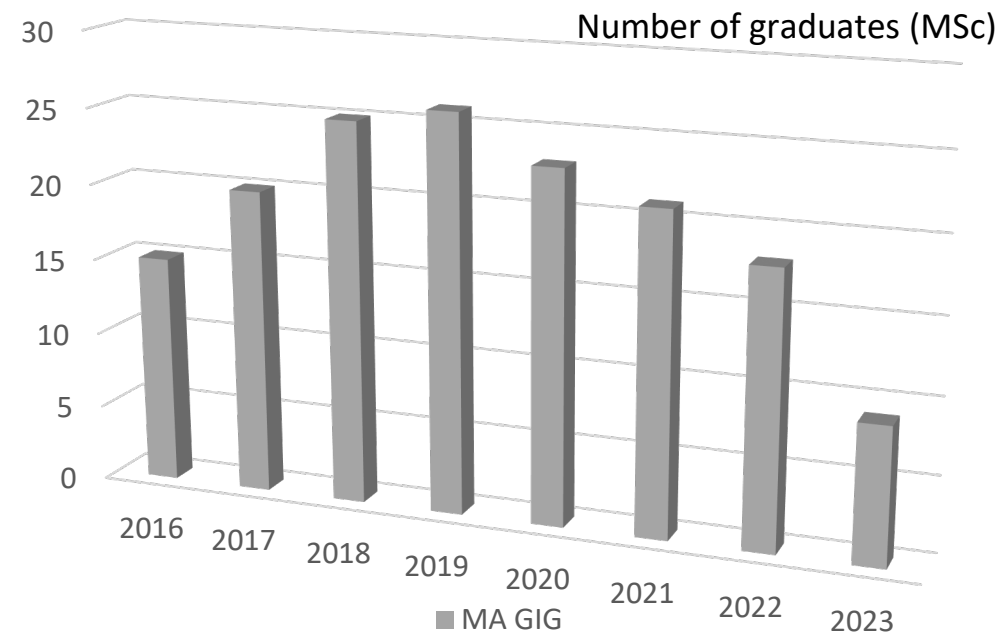
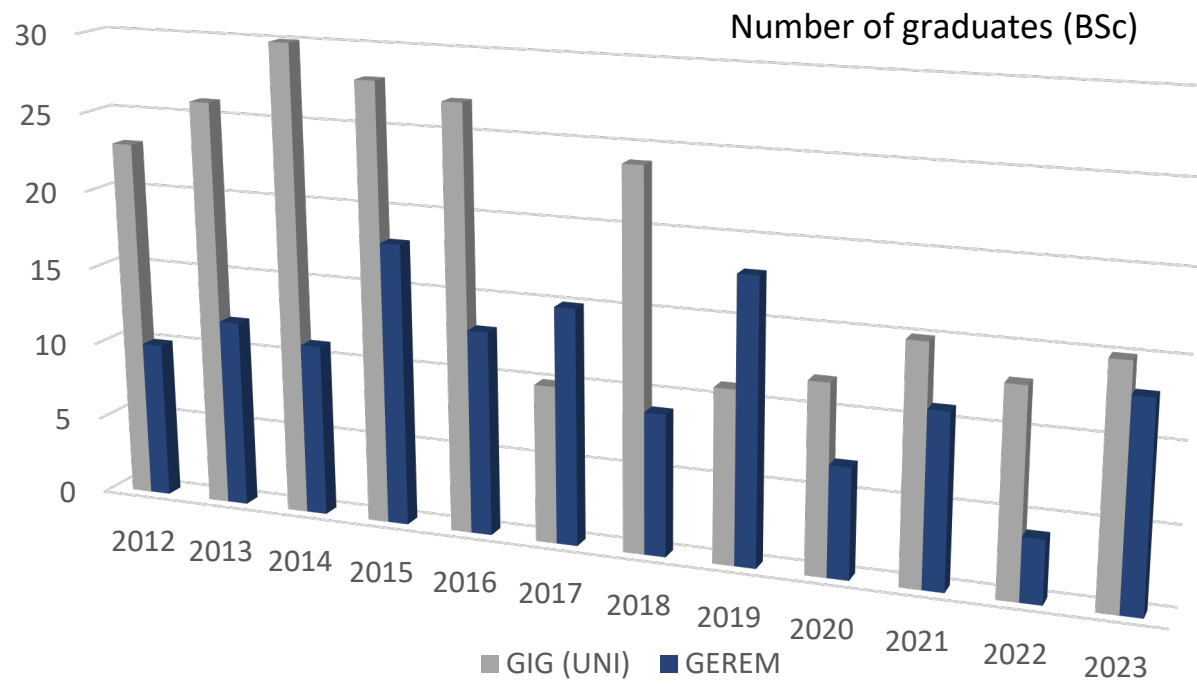
<https://www.en.fgg.uni-lj.si/>

## Studies at the UL FGG - Department of Geodetic Engineering

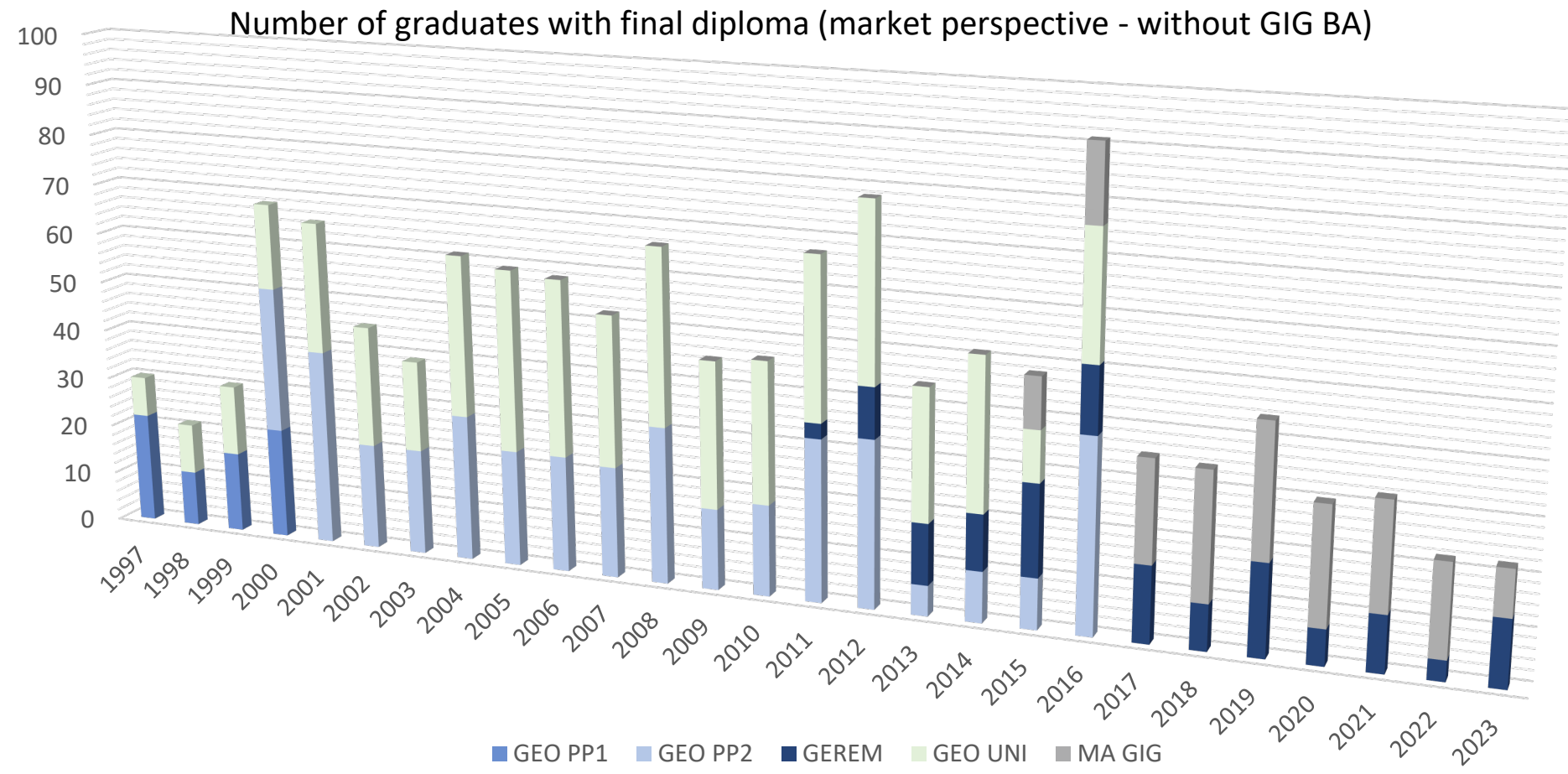
- Professional bachelor study programme in **Geodetic Engineering and Real Estate Management (GEREM)**
- Bachelor study programme in **Geodesy and Geoinformatics (GIG BA)**
- Master study programme in **Geodesy and Geoinformatics (GIG MA)**
- Master study programme in **Spatial Planning (SP MA)**
- Doctoral study programme of **Built environment**



<https://www.en.fgg.uni-lj.si/study/>



How to attract young people?  
 Should we change the curricula?  
 Should we invest more in secondary school education?



**Integrating new topics (technologies) in the curricula**  
**Addressing various application domains**  
**Collaboration with industry/government**

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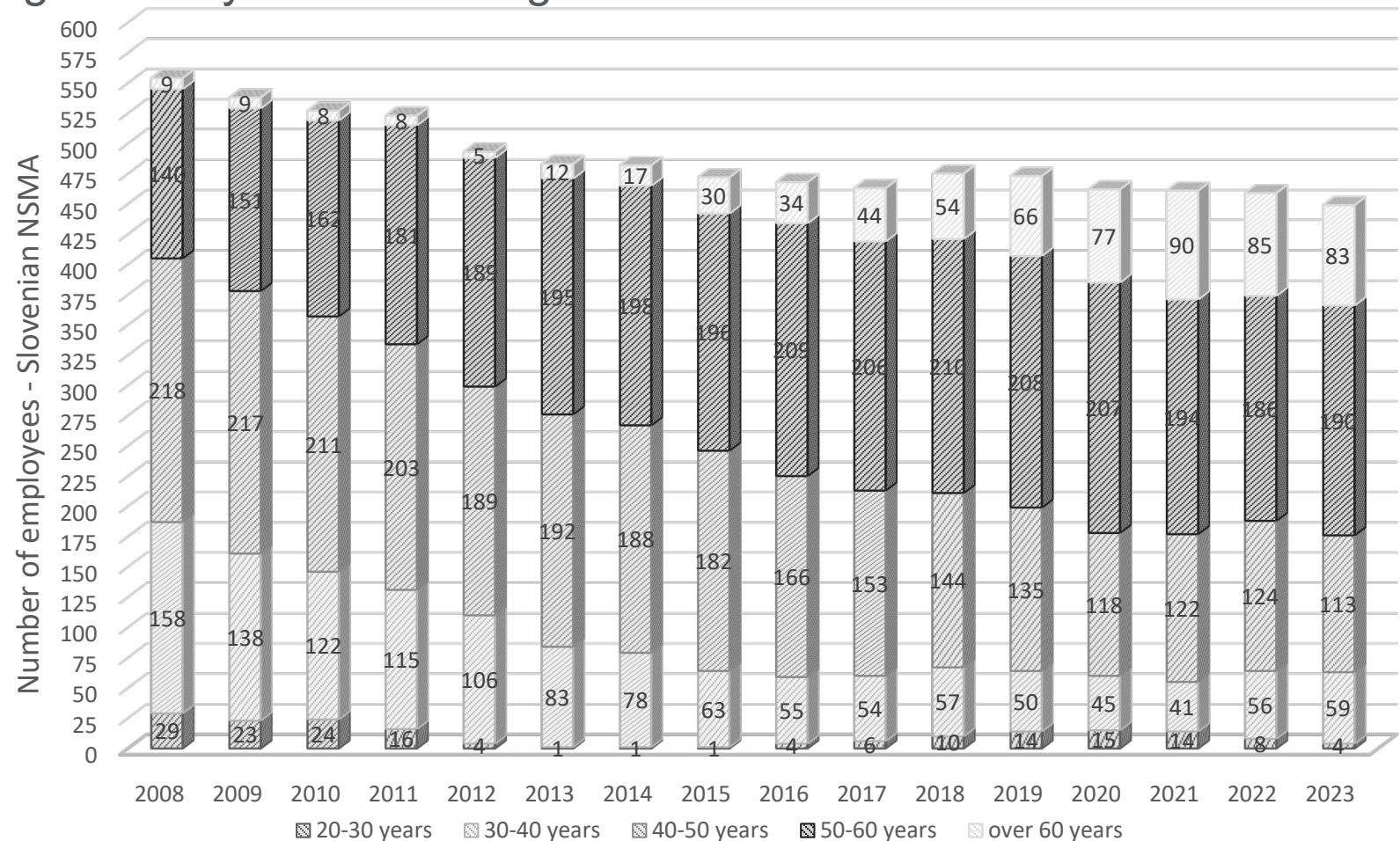
# Governmental organisations

- Surveying and Mapping Authority – coordinating NSDI

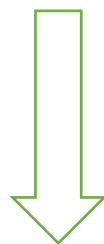
How to recruit professionals?

How do we develop skills for using new technologies?

How do we include innovative solutions?



- Geospatial data and IS - in various sectors
- Increasing need for know-how and skills in geospatial domain (national and local levels)



NSMA initiated „Knowledge & innovation centre“



# Private sector

- Chamber of Engineers:
  - Licence for surveying engineers (480 active members, 20 new licences per year)
  - Permanent education program
- Cluster of private companies in surveying and geoinformatics



How can young professionals be attracted to work in engineering geodesy and cadastre?

More practical work during the study? Mentorship?

# Professional associations

- Zveza geodetov Slovenije (Slovenian Associations of land surveyors):
  - An umbrella organisation for professionals from land surveying and geoinformatics
  - Annual symposia
  - Professional journal Geodetski vestnik
  - Collaboration with international associations (FIG, ISPRS, ICA etc)



**Bringing together professionals from academia, research,  
government and private sector**



# Challenges in Slovenia in the geospatial domain

- **Deficit in the number of geospatial professionals**
- **Limited interest** in studying geodesy and geoinformatics
- **Increasing expectations/needs** of the government/industry/public
- **Fast development of profession** – do we follow this progress with education programs / geospatial solutions?
- **Diversification** of the work of geospatial professionals





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