



agency for science and higher education croatia

# Current good practices and upcoming initiatives in EBPM and data collection in the Croatian education system II. Mobile Team examples and experiences



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# Content

About ASHE

QA role

Research and  
Development

Analytics and  
Statistics

NISVOZ

Central  
applications

Graduate  
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# Agency for Science and Higher Education

- ❑ ENQA, EQAR, ECA, INQAAHE, CEENQA membership
- ❑ National accreditation body
- ❑ Evaluation procedures
- ❑ Research and development activities



# Activities

- QA Role
- Collecting and analysing data on the system of Science and HE
- National ENIC/NARIC Office
- Central Applications Office
- Support to work of various bodies
- International cooperation



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# Evaluation in Science

Accreditation

Reaccreditation

Thematic evaluation

- System wide analysis – published on ASHE web
- Evaluation and development of QA procedures
- Some policy recommendations



# Evaluation in Higher Education

Accreditation

Reaccreditation – criteria relevant for employment

Thematic evaluation

After each procedure:

- System wide analysis – published on ASHE web
- Data analysis + policy recommendation



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# Research & Development

- ❑ Statistical data provided by HEIs analysis
- ❑ ASHE: Study on impact of QA procedures on HE and science sector



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# Analytics and Statistics

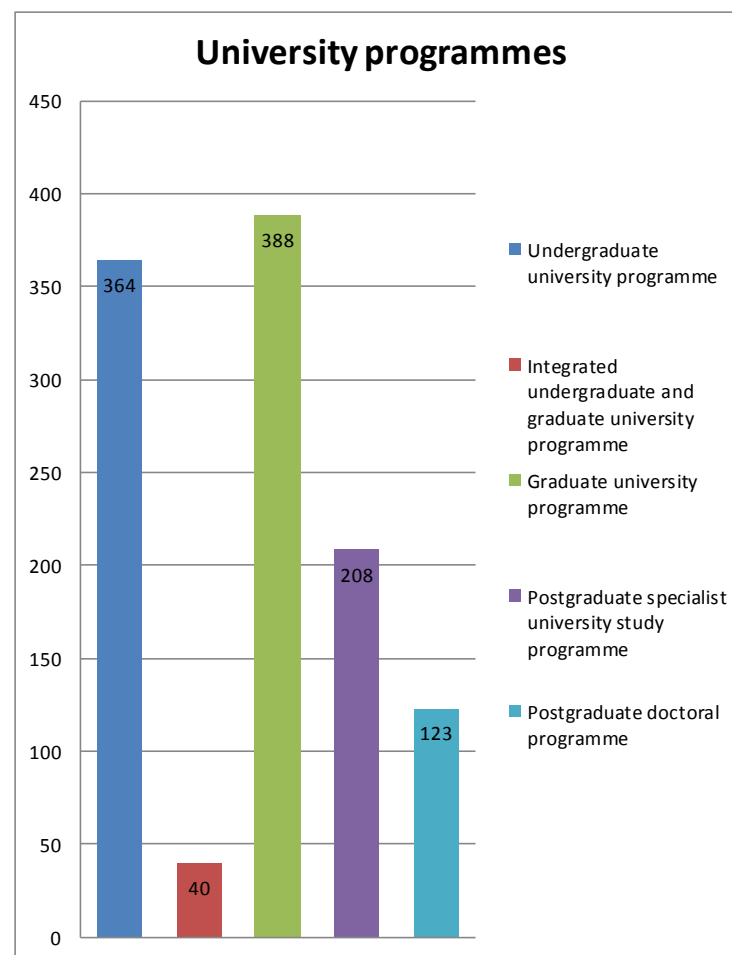
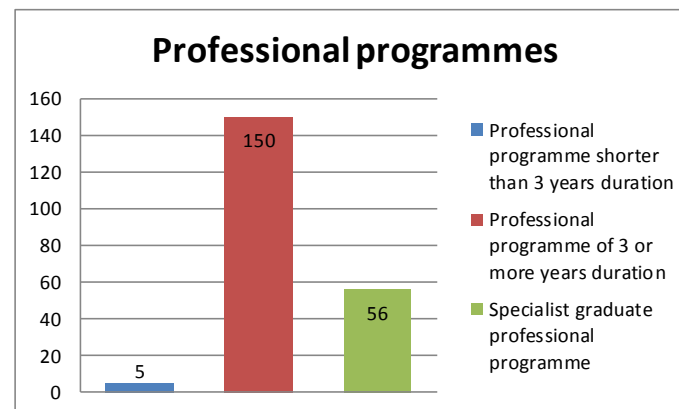
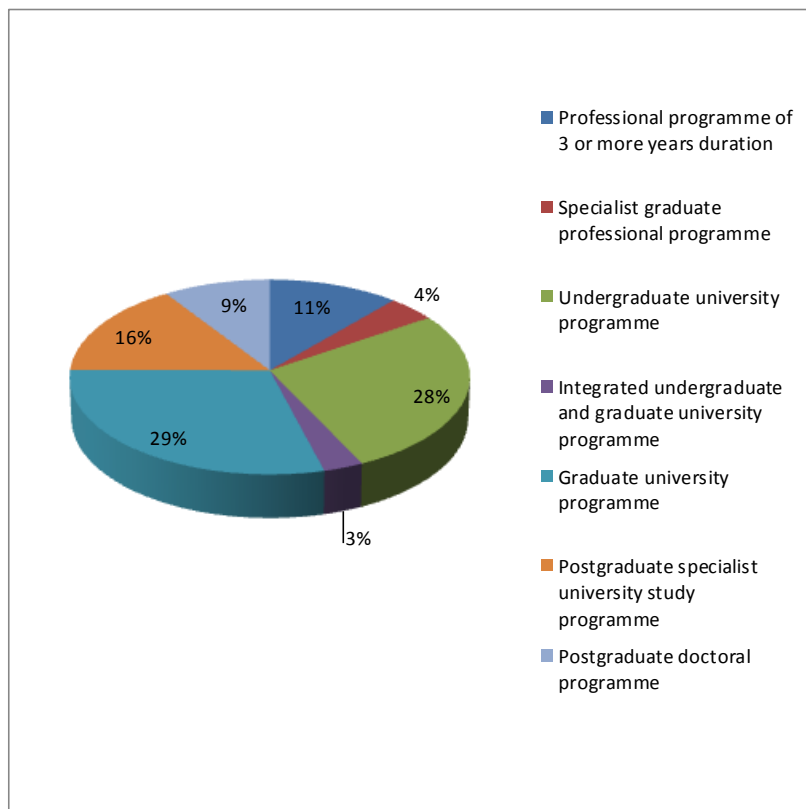
- ❑ “Collecting and analysing data on the systems of science and higher education”
- ❑ Statistics on HEIs, study programmes, number of students
- ❑ Data from Mozvag System (study programmes, HEIs) and MSES Registry of student numbers
- ❑ Published on Agency’s website



## Structure of university and professional programmes by type/level - 2012/13

Professional study programmes by type/level	Number
Professional programme shorter than 3 years duration	5
Professional programme of 3 or more years duration	150
Specialist graduate professional programme	56

University study programmes by type/level	Number
Undergraduate university programme	364
Integrated undergraduate and graduate university programme	40
Graduate university programme	388
Postgraduate specialist university study programme	208
Postgraduate doctoral programme	123



# Analytics and Statistics

- ❑ Directory of Study Programmes - the aim of the Directory is to provide information regarding accredited study programmes and Croatian HEIs
- ❑ Provides information on study programmes, institutions delivering the programmes, field of study, location, ECTS and duration of study
- ❑ Search by multiple criteria enabled



[Homepage](#)

## Advanced search of study programmes

**Search by:**

- ⇒ Programme type
- ⇒ Issuing institution and education provider
- ⇒ Field of study and subject
- ⇒ Study programme location
- ⇒ ECTS
- ⇒ Programme duration

Quick search

**Advanced search**

**Contact:**

- ⇒ [AZVO](#)
- ⇒ [Helpdesk](#)

[Hrvatski / English](#)

Please select one or more search criteria.

### *Search by programme type*

#### University programmes

- All
- Undergraduate university programme
- Graduate university programme
- Integrated undergraduate and graduate university programme
- Postgraduate specialist university study programme
- Postgraduate doctoral programme

#### Professional programmes

- All
- Professional programme shorter than 3 years duration
- Professional programme of 3 or more years duration
- Specialist graduate professional programme

### *Search by issuing institution and education provider*

**Issuing institution:**

--- All issuing institutions --- ▾

**Education provider:**

--- All education providers --- ▾

### *Search by field of study and subject*

**Field of study:**

--- All fields of study --- ▾

**Subject:**

--- All subjects --- ▾

### *Search by study programme location*

**Study programme location:**

--- All locations --- ▾

Find study programmes that match all selected criteria

Homepage

You have selected issuing institution: **University of Zagreb**

Search by:

- ⇨ Programme type
- ⇨ Issuing institution and education provider
- ⇨ Field of study and subject
- ⇨ Study programme location
- ⇨ ECTS
- ⇨ Programme duration

**Select another issuing institution**

You have selected education provider: **Faculty of Architecture**

**Select another education provider**

Quick search

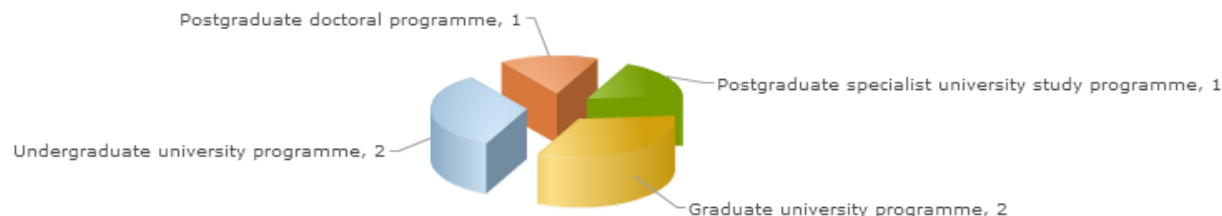
Advanced search

Contact:

- ⇨ **AZVO**
- ⇨ **Helpdesk**

**Hrvatski / English**

**Distribution of programme types for the education provider**



**Found study programmes (6):**

Export: **XLS**

Study programme name	Issuing institution(s)	Education provider(s)	Study programme type
Architecture and Urban Studies	University of Zagreb	Faculty of Architecture (Zagreb)	Undergraduate university study programme
Design	University of Zagreb	Faculty of Architecture (Zagreb)	Undergraduate university study programme
Architecture and Urban Studies	University of Zagreb	Faculty of Architecture (Zagreb)	Graduate university study programme
Design	University of Zagreb	Faculty of Architecture (Zagreb)	Graduate university study programme
Architecture and Urban Planning	University of Zagreb	Faculty of Architecture (Zagreb)	Postgraduate (doctoral) university study programme
Architecture and Urban Planning; Spatial Planning	University of Zagreb	Faculty of Architecture (Zagreb)	Postgraduate specialist university study programme

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## IPA 2007-2013

- ❑ *Development of National Information System for Science and Higher Education (NISSHE) - NISVOZ*
- ❑ Rationale: Integration of different, dispersed information, databases and IS in the system of higher education and science: ISVU, MOZVAG, NISpVU, Official Registers at MSES, ISSP...
- ❑ Providing integrated IS as a tool for analysis, reliable statistics and evidence based policy making



# Preparation and documentation

- ❑ Consultations with stakeholders
- ❑ Terms of Reference
- ❑ Functional Specifications
  - Registers
  - Data Warehouse
  - short description of existing information systems
- ❑ Contractor is to develop System Design Document in Inception Phase



# Envisaged results

1. Development and implementation of the NISSHE components
  - 1.1. NISSHE registers and data warehouse developed and implemented
  - 1.2. The system tested and implemented
2. Integration of the existing higher education and science information systems and databases
3. Making NISSHE available to users and training them in using it



# Examples of analyses and quality indicators in NISVOZ/NISSHE

- ❑ average length of study and graduation rate
- ❑ student/teacher ratios by HEI types, scientific fields etc.
- ❑ analysis of the distribution of the students admitted and correlation with the total cost and length of study
- ❑ analysis of completion rate by various criteria: study programme, institution, scientific field, academic degree of teachers
- ❑ citation in journals of respective scientific areas/fields
- ❑ analysis of teaching and research staff by the area, field and branch of science/art;  
etc.



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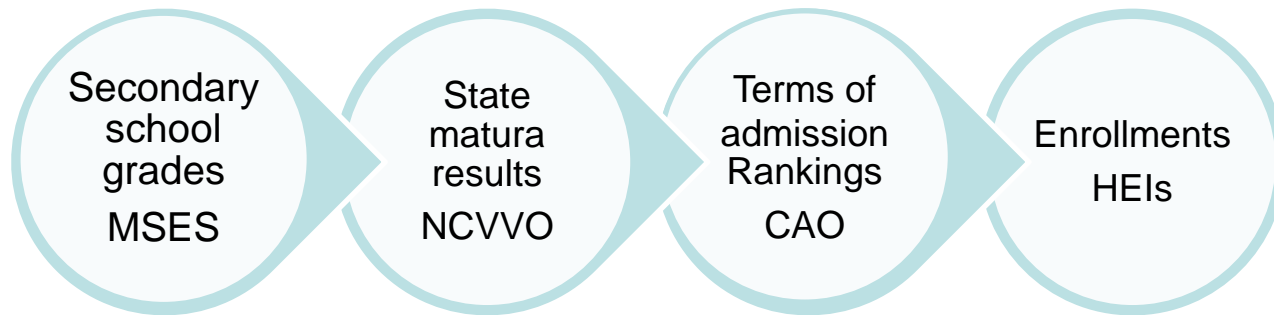
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# Central Applications Office

- ❑ Central place for applications to all undergraduate, integrated and professional study programs
- ❑ Data on all pupils who finished four-year long high school and on other candidates (personal data, grades, state matura results, desired study programs, position in rankings, etc.)
- ❑ Data on study programs (terms of admission, enrolment quotas, profile of enrolled students, etc.)



# Data collection and stakeholders



# Analysis

- ❑ Statistical data available to all higher education institutions
- ❑ Analysis of enrolment to study programs presented to MSES, NCVVO, to the Croatian Council of Universities and University Colleges of Applied Science, and to the universities
- ❑ Delivery of publication based on independent analyses





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## Who joins the labor market after finished high school?

- ❑ 96% pupils of high schools (lasting four years) want to enrolled at a HEI
- ❑ 97.5 % grammar school pupils get enrolled to study programs
- ❑ 66% pupils of vocational schools (lasting four years) get enrolled to study programs



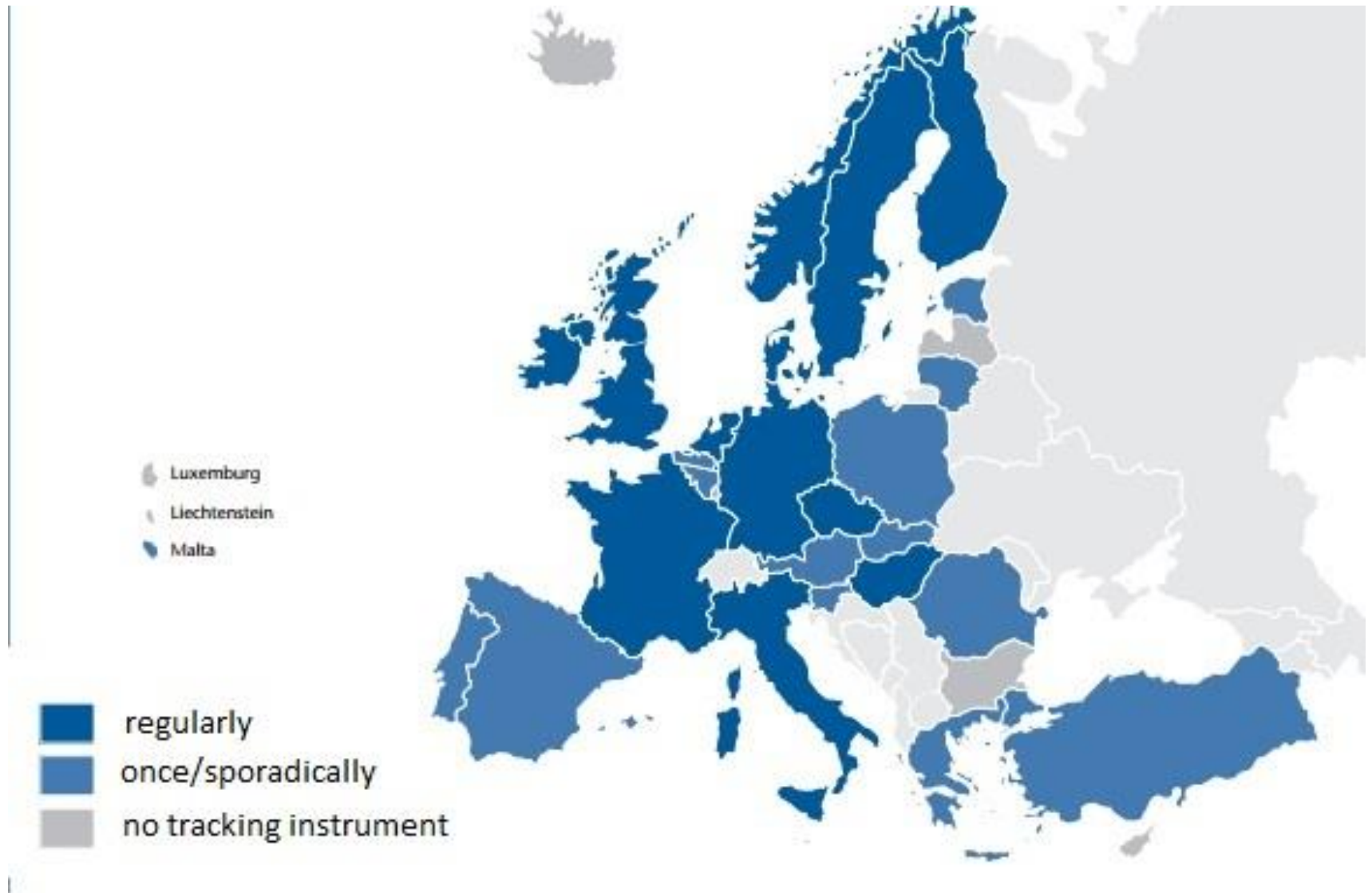
# Reaccreditation findings

Criteria for reaccreditation of HEIs (Criteria 3.6.):

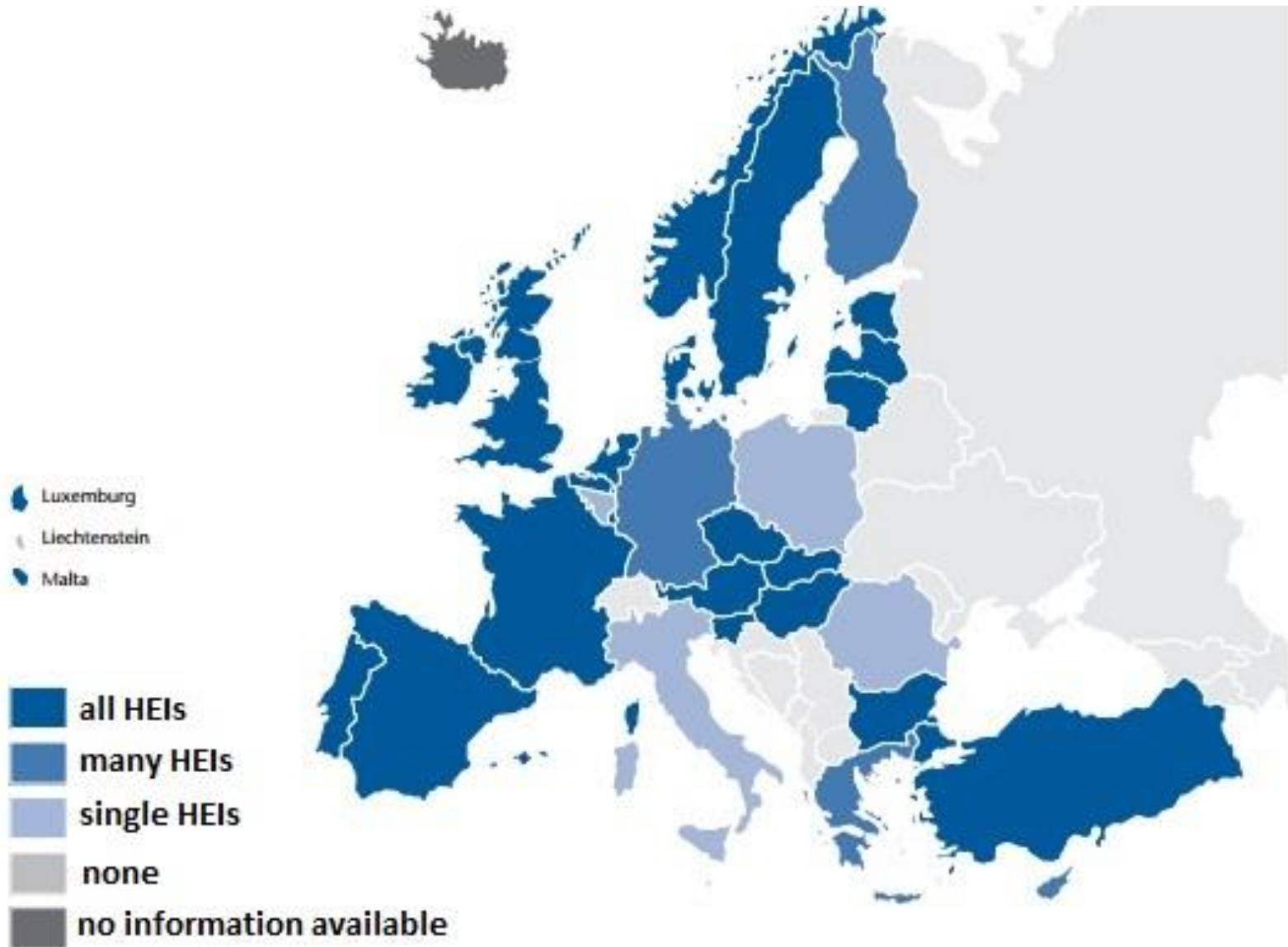
*The institution maintains contact with alumni and keeps track of the employability of its graduates.*



# Graduate tracking on national level



# Graduate tracking on HE level



# Plan

Initiatives in order to make a stronger liaison between education and the labor market

- ❑ Creation of national information system that would include data on employment of graduates
- ❑ Collecting data on employment of graduates in a period of 1, 3 and 5 years after completed studies



## Data collection

- Satisfaction with studies
- Time needed to find employment
- Satisfaction with the first working place
- Place of employment (RH and abroad)
- In a profession or not
- Satisfaction with income
- ...



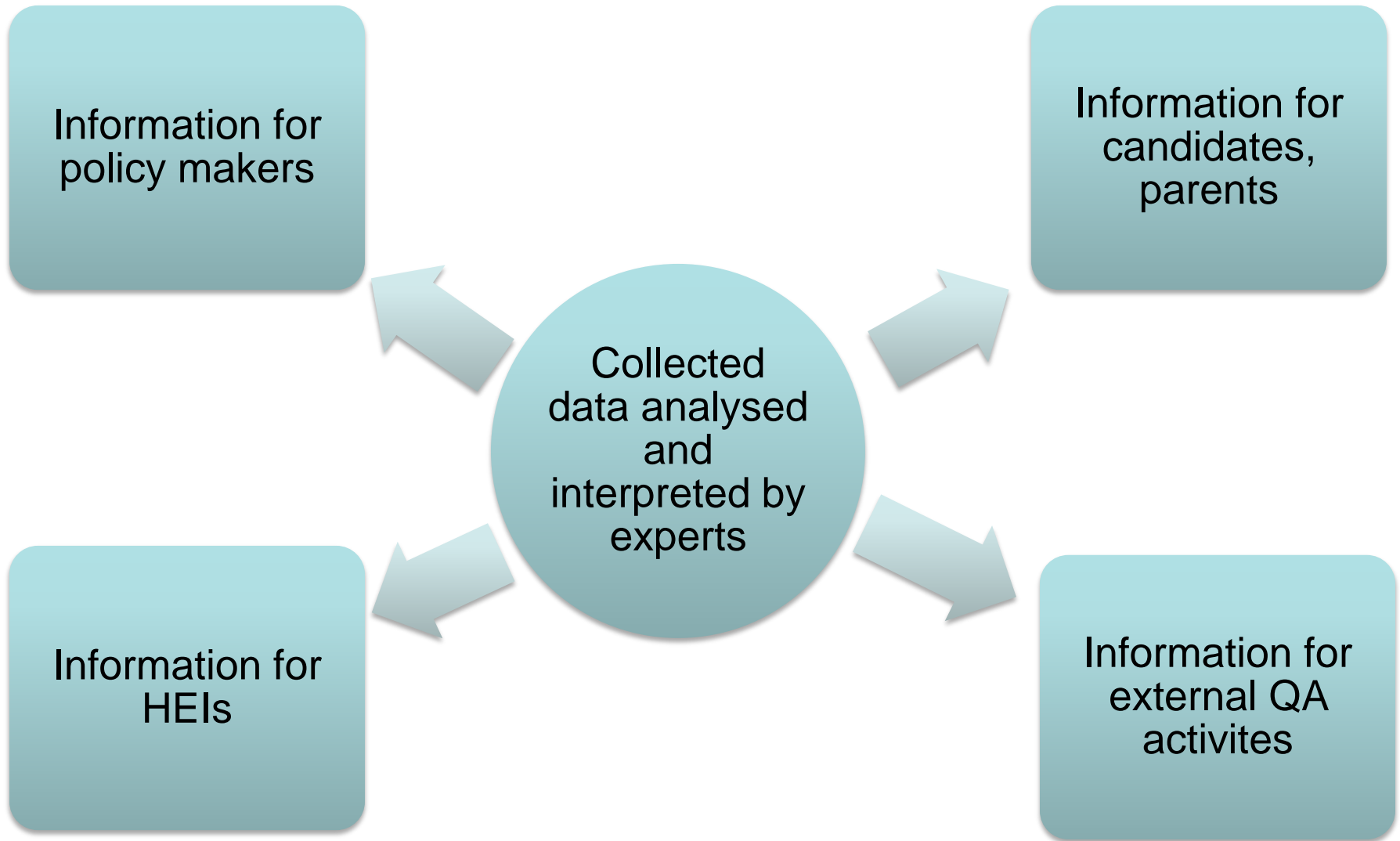
# What to do with the data ?

- ❑ Interpretation of data by experts necessary
- ❑ Data analysis at the national level – information for policy makers
- ❑ Data analysis at the level of study programme - information for HEIs
- ❑ Publishing data on the web page for the application of study programmes – information for candidates when enrolling study programmes

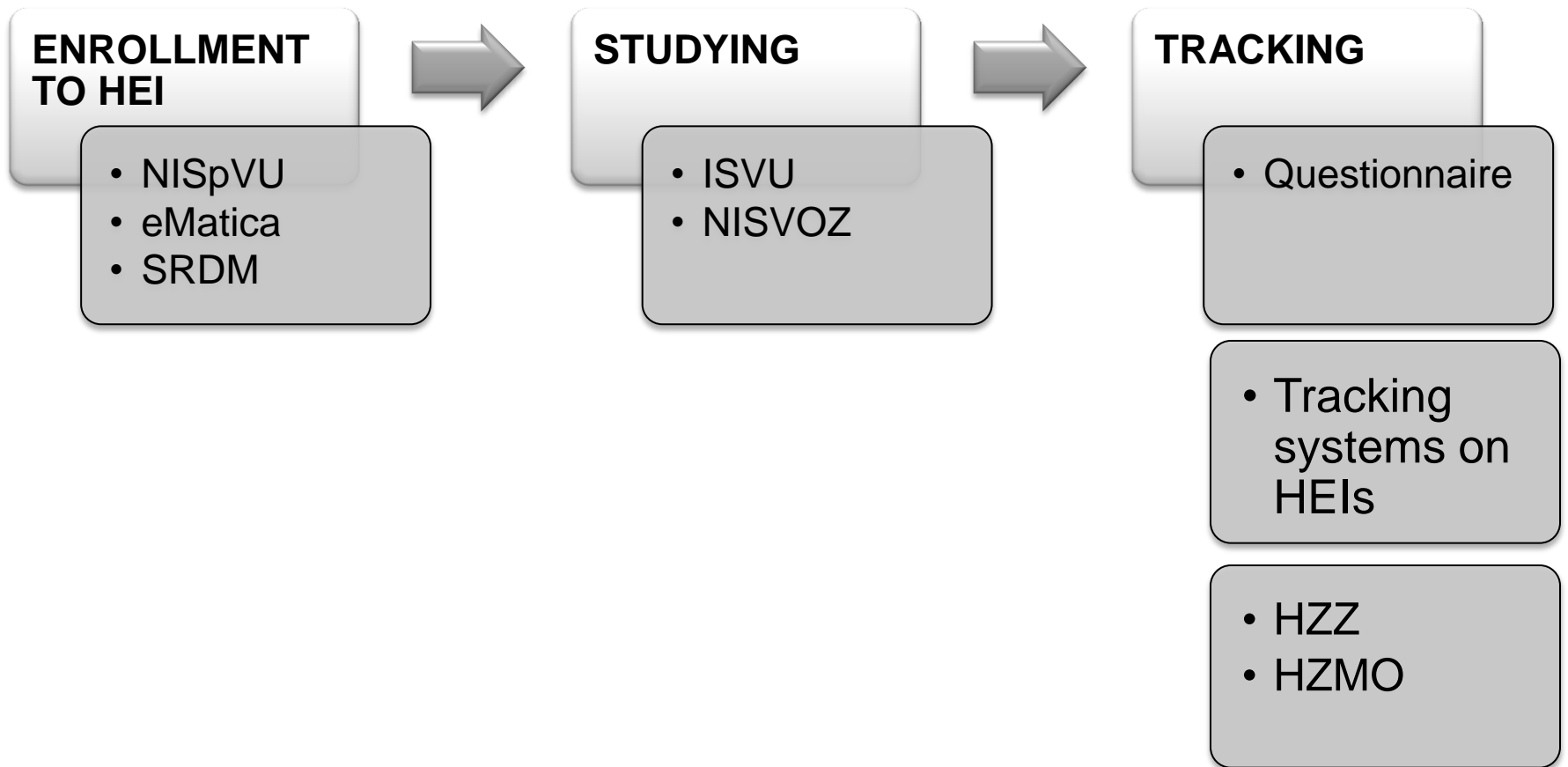




# Aims



# How to obtain data?



## Collecting data - questionnaire

- ❑ Direct collecting of data from graduates via their contacts that already exist in NISpVU System
- ❑ If HEI already has a tracking system of its graduates all necessary data would be transferred into the national system
- Of all students that got enrolled to a certain level of higher education in any Croatian HEI regardless of the fact whether they finished it or not



# Why Agency for Science and Higher Education?

- QA
- Accreditation
- Reaccreditation
- Applications for enrollment



**Thank you for your attention!**