

Study Visit with Coordination Meetings
Politecnico di Torino (Polytechnic University of Turin, POLITO)
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Set of the Key Performance Indicators for Serbian HE Institutions and System

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THE PROJECT MILESTONES

GOAL: Development of system and ICT solution for performance evaluation, profiling and multi-raking

WP2 and WP3

In line with Strategy for Education Development in Serbia 2020 and Action Plan for Implementation of the Strategy for Development of Education in Serbia by 2020, and based on good European practice in performance based evaluation (study visits to our EU partners and report on performance based evaluation form EU partners), as well as on U-Multirank, UNESCO, OECD and European University Association (EUA) indicators , we need to:

- 1) Develop and optimize the Set of Key Performance Indicators (KPI) for performance based evaluation of the Serbian HEIs and system,
- 2) Develop mathematical model for profiling and multi-ranking
- 3) Develop ICT solution for data acquisition and multidimensional ranking of study programs and institutions





Activity 2.2

Set of Key Performance Indicators (KPI)



SELECTION OF KEY PERFORMANCE INDICATORS

REASONABLE AND ADJUSTED TRANSPLANTS

The demands of students and academic community will be analysed. The dialogue between different parties will be established in order to have complete picture.

Developing indicators regarding the inputs and outputs of higher education institutions in Serbia need to address (most of) the following criteria: national higher education priorities; regional engagement, economical priorities.

SELECTION OF KEY PERFORMANCE INDICATORS

1. Indicators that can be harvested from independent **sources**:
DOSITEJ, SORS, NES, WoS, FINVO, GOMES-INFOVO, KOBSON...
2. Indicators that assess teaching, research, third mission and financial aspects

MUST BE ACCOMPANIED BY

- Compliance to existing requirements on providing information to the MEST
- Adequate institutional information systems
- Transfer of data to existing and functional DOSITEJ, GOMES-INFOVO, FINVO or other database

National Working group prepared a wider set of 42 KPIs and now is working on optimization



INDICATORS 1/4

Using this conceptual framework of the U-Multirank Project team has selected the following 4 dimensions for evaluation:

- Teaching & Learning
- Research
- Knowledge Transfer
- International Orientation

For each indicator they add a number of comments that relate to the criteria (relevance, validity, reliability, comparability, feasibility) used for the selection of the indicator.



INDICATORS 2/4

Quality of inputs to the HE system – Indicators on freshmen

Possible indicators:

Grads in pre-university educations

Grads on enrollment exam

Percentage of enrolled students from Serbia, different Serbian regions, abroad, West Balkan region

Quality of outputs of the HE system – Indicators on students

Possible indicators:

Graduation rate – absolute and relative (per year, after n years after enrolment, after 1.5 n years after enrolment, etc.)

Average number of years for finishing study programme

Students mobility longer than 3 months

Students dropout

Employability of students



INDICATORS 3/4

Quality of Research

Research publications production

Inter-University Cooperation

International Cooperation

Ratio number of publications / academic staff

Citations of publications

Other research products

National research projects

International research projects

Third mission of university (patents, cooperation with industry, etc.)

Quality of Teaching

Study programmes in English

Joint study programmes

Number of academic staff

Ration nonacademic/academic staff

Ration students/staff



INDICATORS 4/4

Indicator Sheet Content:

- Definition
- Purpose
- Calculation method
- Formula
- Data required
- Data source
- Types of disaggregation: By gender, year age, etc.
- Interpretation:
- Limitations:
- Risks:
- System postulation:

For each indicator they add a number of comments that relate to the criteria (relevance, validity, reliability, comparability, feasibility) used for the selection of the indicator.



Results:

DEVELOPMENT: Development of system for performance evaluation, profiling and multi-raking

2.1 Report on key processes and selected fields at HEI in Serbia 

2.2 Set of KPI at selected fields – National Working group prepared a wider set of KPIs and now is working on optimization

2.3 Report on optimization of the set of performance indicators 

2.4 Model for profiling and multi-ranking



All Reports will be published until April 14th



PROJECT OUTPUTS

1. Defined the **Set of Key Performance Indicators (KPI)** for study programs and institutions – **PUBLIC**
 - At the moment we have draft version of the set with 42 indicators. List of indicators will be cutted to 15-20 keyperformance indicators
2. Developed **Mathematical Model for profiling and multi-ranking** - **PUBLIC**
3. Developed **ICT solution for data acquisition and multidimensional ranking of study programs and institutions** - **PUBLIC**
4. Pilot testing of selected study programs and institutions (6 study programs and 6 institutions) - **INTERNAL**
5. Provide **feedback analysis for improvement of the system** (1 for study programs and 1 for Faculty per each University in Serbia) - **INTERNAL**
6. Changed **Accreditation Standards** - **PUBLIC**
7. Input for development of **directive (bylaw) for financing of HEIs** - **PUBLIC**



