



Doctorate in Universities of Excellence

WP 3 – Doctorate in Universities of Excellence
Workpackage 3 Coordinator
Prof. univ. dr. PAUL SERBAN AGACHI



Proiect finanțat de
UNIUNEA EUROPEANĂ



MINISTERUL MUNCII
FAMILIEI ȘI PROTECȚIEI SOCIALE
ANOSDRU



FONDUL SOCIAL EUROPEAN
POSDRU
2007-2013



FONDUL SOCIAL EUROPEAN
POSDRU
2007-2013



MINISTERUL EDUCAȚIEI,
CERCETĂRII ȘI INOVĂRII
OIPOSDRU



UNIONEA EXECUTIVĂ PENTRU
PRIMĂRIA ÎNVĂȚĂMÂNTULUI
SUPERIOR ȘI A CERCETĂRII
ȘI INOVĂRII UNIVERSITARE



Workpackage 3 – Doctorate in Universities of Excellence Activities

3.1 Defining a methodology for a program of sustaining excellence in Romanian universities.

- 3.1.1 International panel of experts
- 3.1.2 Comparative analysis of international practice
- 3.1.3 Mutual Learning Workshop

3.2 Program “Universities of Excellence in Romania”

- 3.2.1 Elaboration of program specification and methodology of implementation
- 3.2.2 Public debate of the program
- 3.2.3 Recommendations for legal framework (national program for universities of excellence)
- 3.2.4 Public conference for presentation of the program





Workpackage 3 – Doctorate in Universities of Excellence

Status:

- International panel of experts - defined
- Comparative analysis of international practice - finished
- Mutual Learning Workshop

Work in progress:

- Elaboration of the methodology for a national program Universities of Excellence in Romania





Main findings and conclusions of comparative analysis report

- Cultural patterns, mentality and national culture influence governance, research policies and vision regarding the development of top research, as well as the operationalization of set objectives.
- National Programs for sustaining excellence in universities included a relatively small number of top institutions
- The programs adopted various approaches, from financing excellence by field of research to sustaining globally universities evaluated as world class universities (WCU) or universities with potential for becoming WCUs.
- Efficient programs allocated generous funds for sustaining excellence





Financial data for programmes of excellence

Country	Total number of HEIs	Total number of universities	Number of selected universities	Yearly budget (USD million)	Total budget (USD million)
Germany	238	88	9	400	2850
United Kingdom	166	116	20*	1235	2470
Spain	102	70	15	350	n.a
Taiwan	167	80	11	300	1500
Japan	726	173	4	n.a	20 - 800**
India	45000	300	25	n.a	n.a
China	3000	1300	39	750	7500
South Korea	353	175	20	700	2800
Canada	265	90	n.a	50 - 100	n.a
Australia	200	41	11**	50	500



Proiect finanțat de
UNIUNEA EUROPEANĂ



MINISTERUL MUNCII
FAMILIEI ȘI PROTECȚIEI SOCIALE
AMPOSORU



FONDUL SOCIAL EUROPEAN
POSDRU
2007-2013



FONDUL SOCIAL EUROPEAN
POSDRU
2007-2013



MINISTERUL EDUCAȚIEI,
CERCETĂRII ȘI INOVĂRII
OIPOSDRU



UNIVERSITATEA EXECUTIVĂ PENTRU
PRIMĂRIA ÎNVĂȚĂMÂNTULUI
SUPERIOR ȘI A CERCETĂRII
ȘTIINȚIFICE UNIVERSITARE



Exzellenzinitiative

Objectives of the program:

- supports top university research and international visibility
- creates high level conditions for young researchers
- encourages multidisciplinary and inter-institutional cooperation
- promotes equal opportunities for men and women
- intensifies academic and scientific competition and improves academic standards for research in Germany.

Financing lines

- Graduate schools
- Clusters of Excellence
- Institutional Strategies





Exzellenzinitiative

Organisation of the program:

-1.9 billion euro funding for 5 years

Selection:

- 2 phases,
- International evaluation

Funding for:

- 39 Graduate Schools
- 37 Clusters of Excellence
- 9 Institutional Strategies





China programs: 985 and 211

Project 211- supports 100 universities for world-class research

Main objective of the project: allocate resources for universities in order to **implement the national strategy** for social and economic development.

Financing lines:

- Institutional development
- Development of key research fields
- Development of public services in HEI





China programmes: 985 and 211

Project 985 finances 39 (initially 37) Chinese top universities for development of excellence and top research. The project started in 1999.

Objectives:

- Reform and improvement of operational mechanisms in universities.
- Recruitment of Chinese and foreign top researchers
- Development of a Platform for Science and Innovation in Technology and Research Base for Social Sciences
- Improvement of research infrastructure and fostering international cooperation

Funding:

7.5 billion USD between 1999- 2008.





South Korea – Brain Korea 21

Objectives:

- Support of top researchers at all levels (focus on human capital and direct support of researchers)
- Develop education and research infrastructure
- Develop regional graduate schools
- Performance-based funding

BK 21 since 1999:

Phase 1 (1999- 2005) - 89,366 graduate and post graduate researchers supported

Phase 2 (2006-2012) - 70-80% of the budget oriented to direct allocations for graduate and post graduate researchers





South Korea – Brain Korea 21

Targets:

- By the year 2012, 10 research-oriented universities with global competitiveness will be established and further developed.
- Korea aims to become one of world's top ten countries in terms of the number of papers listed in Science Citation Index (SCI.) (Korea ranked 12th in 2005.)
- By the year 2012, Korea wishes become one of ten most advanced countries in the world in knowledge transfer from universities to industries. (Korea ranked 21st in 2005, according to IMD)
- Increasing the ratio of technologies transferred from universities to private sector: 10% (2004) → 20%(2012)

(Source: <http://bnc.krf.or.kr/home/eng/bk21/aboutbk21.jsp>)





Hungary – towards research universities

Objectives:

- evaluate universities in order to define and select the “research universities” of Hungary

Quality criteria (minimum 3 required)

1. Basic and applied research in universities is guided by a structured strategy
2. Research and innovation activities which are nationally and internationally visible (reflected in highly cited publications, patents, etc), also transferred in teaching
3. Promotion of young researches is a strategic objective of the university as well as development of high level doctoral schools
4. Strong international cooperation in research and teaching





Hungary – towards research universities

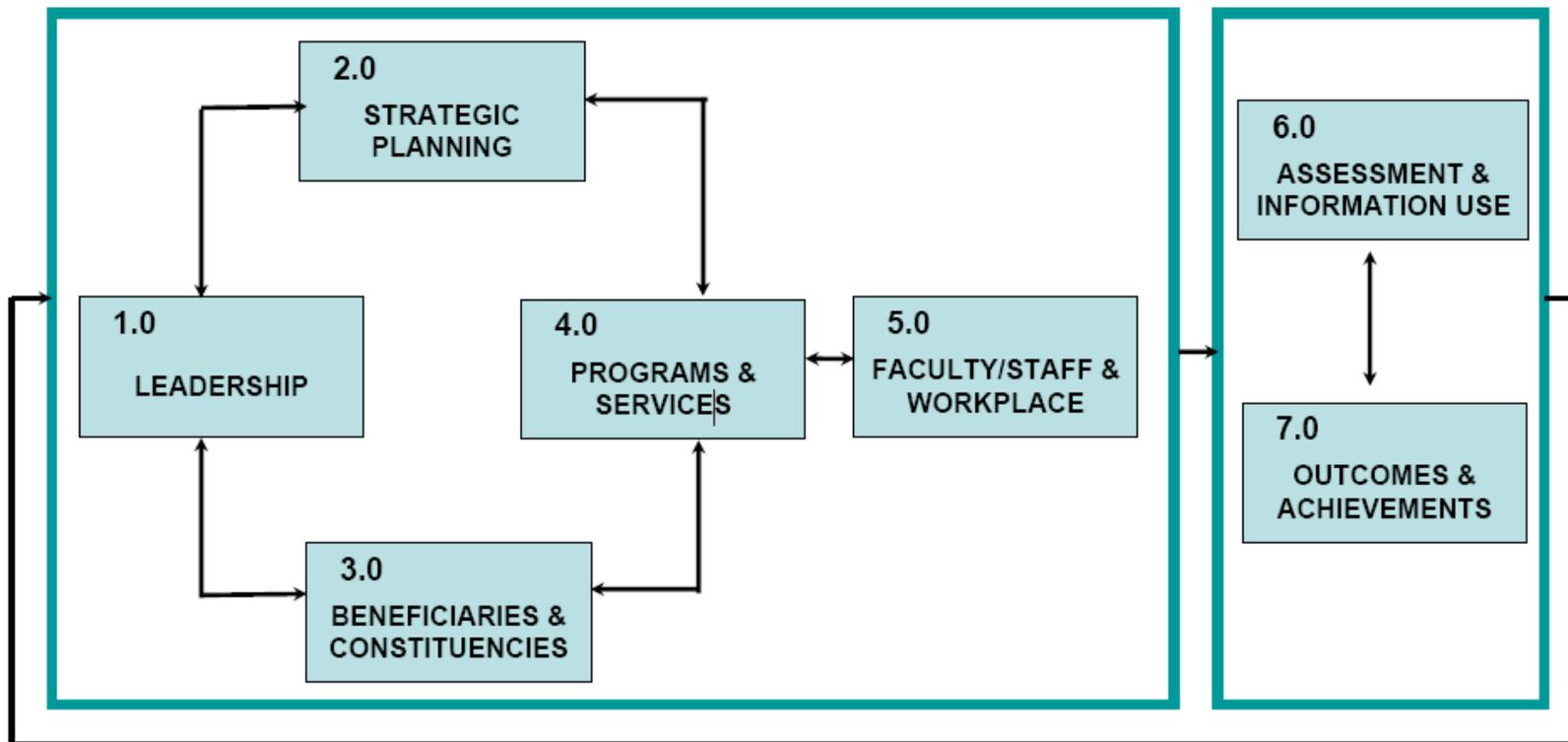
Selection is based on:

- A set of quantitative indicators reflecting the above mentioned criteria (such as internationally relevant research results, incomes from research activities, international cooperation indicators, etc).
- A strategic plan regarding the targets, objectives and resource planning for fostering excellence.





Achieving Excellence - Conceptual Approach

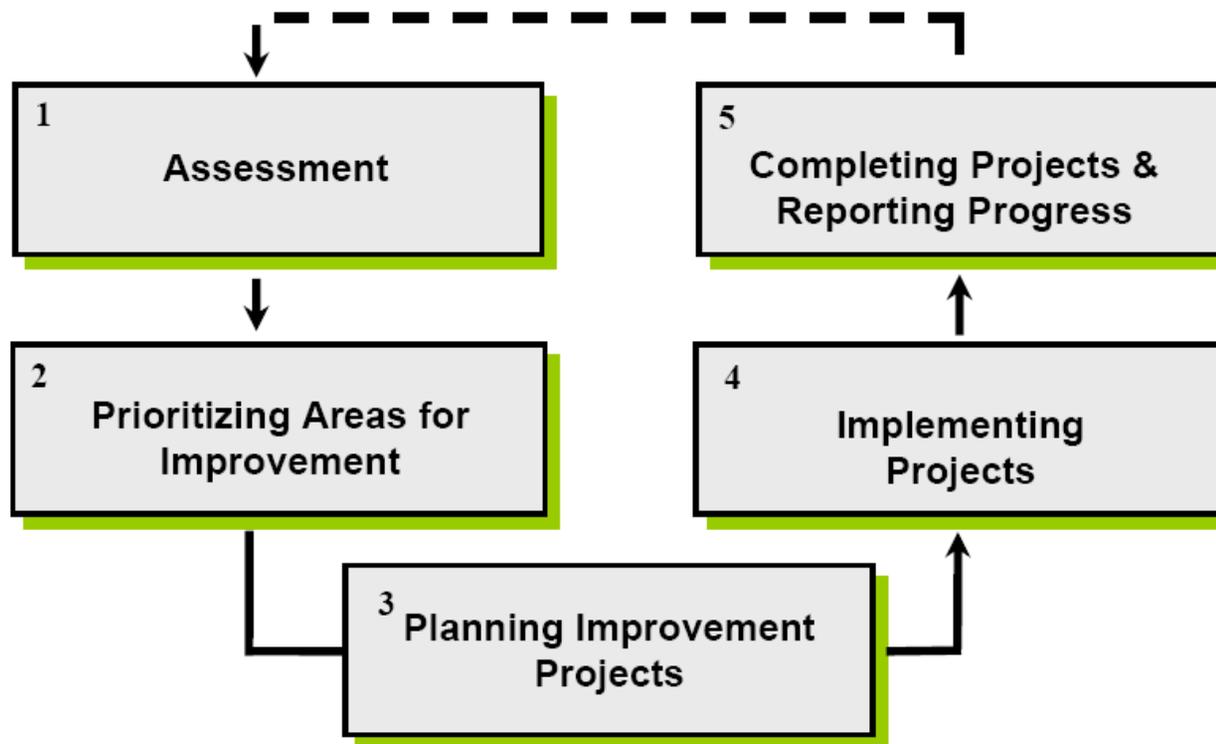


Source: Brent Ruben (2007) *Excellence in Higher Education. An Integrated Approach to Assessment, Planning, and Improvement in Colleges and Universities*, Nacubo,





Model for Achieving Excellence



Sursa: Brent Ruben (2007) *Excellence in Higher Education. An Integrated Approach to Assessment, Planning, and Improvement in Colleges and Universities*, Nacubo



Proiect finanțat de
UNIUNEA EUROPEANĂ



MINISTERUL MUNCII
FAMILIEI ȘI PROTECȚIEI SOCIALE
ANPOSDRU



FONDUL SOCIAL EUROPEAN
POSDRU
2007-2013



FONDUL SOCIAL EUROPEAN
POSDRU
2007-2013



MINISTERUL EDUCAȚIEI,
CERCETĂRII ȘI INOVĂRII
OI POSORU



UNIONA EXECUTIVĂ PENTRU
FINANȚAREA ÎNVĂȚĂMÂNTULUI
SUPERIOR ȘI A CERCETĂRII
ȘTIINȚIFICE UNIVERSITARE



Comparative analysis – some conclusions

- Supporting excellence in university research has common characteristics, such as:
 - High funding/institution
 - Small number of institutions/country





Comparative analysis – some conclusions

Necessary requisites for an university to access a program of excellence:

- performance and excellence at the moment of application for funding
- favorable environment for supporting excellence
- university strategy for excellence (medium and long term)
- extended university autonomy





Comparative analysis – some conclusions

Support for Excellence in Romania:

- should be promoted in a small number of top universities
- Would be operationalized after a national debate (not only in academic community)
- Should be ensured through a system that discourages bureaucracy





First draft for a framework – program methodology

Proposed objectives:

- Supporting excellence in university research
- Supporting Romanian research in several fields considered internationally competitive
- Several Romanian universities included in Top 500 of Shanghai in the next 15 years.





First draft for a framework – program methodology

Proposed financing lines:

- Graduate schools
- Centers of excellence
- Universities of excellence





First draft for a framework – program methodology

Proposed selection criteria:

- Results of research evaluation (WP2) (and excellence standards defined)
- Combined criteria (ExellenzInitiative model)

Proposed Selection methodology:

- Pre-requisites
- Pre-proposal phase
- Full proposal phase
- International evaluation





First draft for a framework – program methodology

Other issues to be discussed:

- Financial allocation, sources of financing
- Financing conditions
- Program Monitoring and Evaluation
- Program management, secretariat and administrative procedures;
- Legislation issues.

