

Rudjer Boskovic Institute

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RBI is the largest Croatian multidisciplinary research centre

- *basic science*
- *applied science*
- *higher education*

Research fields

- *Physics*
- *Chemistry*
- *Oceanography (marine and environmental research and geosciences),*
- *Molecular Biology*
- *Biomedicine*
- *Computer science*
- *Electronics/Engineering*



Board of Governors

DIRECTOR

Board of division directors

Scientific Council

Scientific divisions

Support departments

Theoretical Physics

Molecular Biology

Administration

Experimental Physics

Molecular Medicine

Library

Material Physics

Marine Research

Computer center

Electronics

Marine & Environmental

NMR service

Physical Chemistry

Laser and Atomic Research

Technical and scientific services

Organic Chemistry and Biochemistry

Material Chemistry



MISSION

High quality basic research

- strong involvement in higher education
- Leading contribution to the growth of the national economy

VISION

✓ Excellent scientific institution

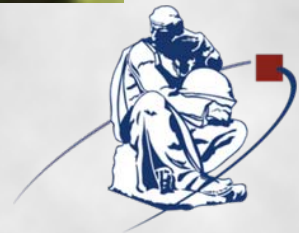
✓ delivering knowledge and values to industry, government and academic institutions



INSTITUTE TODAY



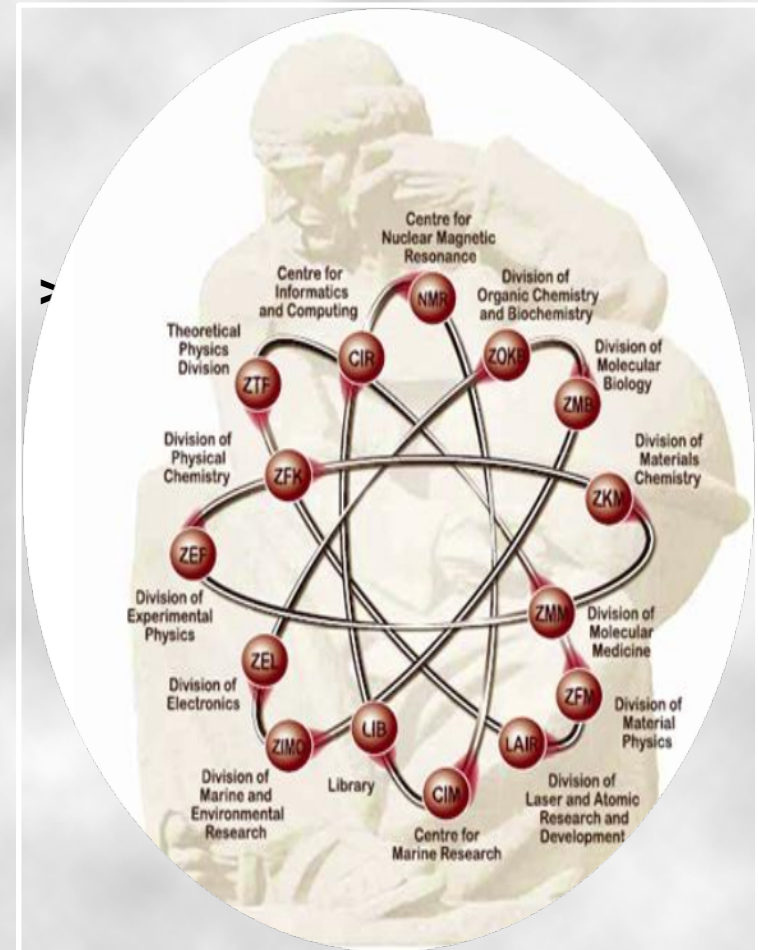
20 000 m² area
82 laboratories



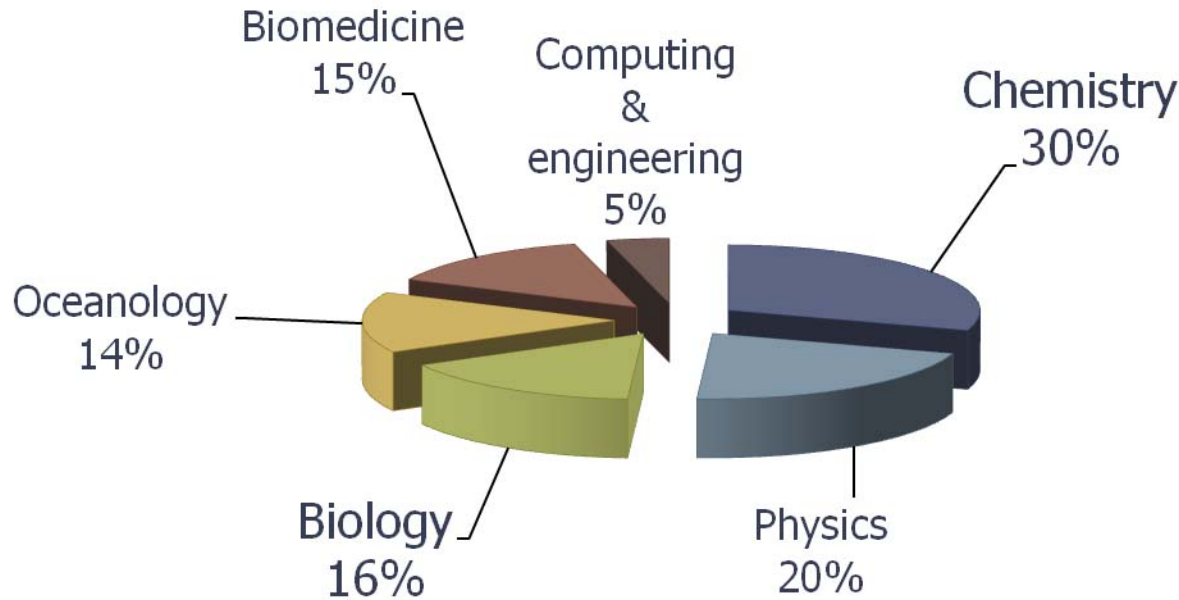
TOTAL = 867 EMPLOYEES

**542 RESEARCH STAFF (344 WITH PhD) +
325 SUPPORT AND TECHNICAL STAFF**

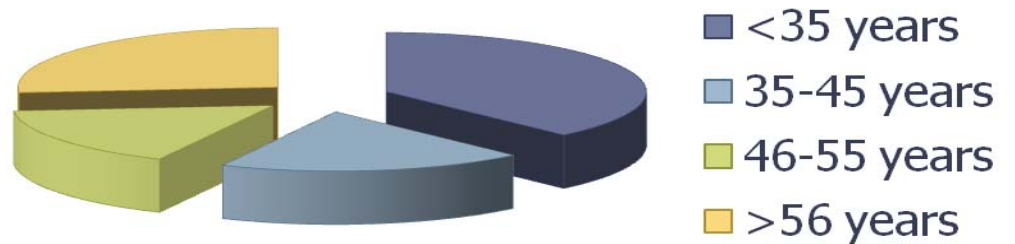
198	YOUNG RESEARCHERS
34	YOUNG RESEARCHERS WITH PhD
118	SENIOR RESEARCH ASSOCIATES
95	RESEARCH ASSOCIATES
97	SENIOR RESEARCHERS



Overview by branches



Overview by age



Scientific publications

RBI scientists - 6% of the total no. of scientists in Croatia

☑ 22 % of all Croatian articles cited in Current Content

☑ 1998-2008 = 3771 (22% RH)

➤ No. of citations = 22 553

➤ Average citation number per paper = 5.98

2007		2008
450	original scientific articles	446↓
395	CC-papers	357↓
8	patent applications	26



Research Projects

- **136 projects** in basic research funded by the Ministry of Science, Education and Sports Republic of Croatia
- **International projects:**

PROJECT	TOTAL NO.	FIELD OF RESEARCH
FP5	2	experimental physics, marine research
FP6	20	experimental physics, marine research, molecular biology, chemistry, atomic research, molecular medicine
FP7	7	computer sciences, experimental physics,
NATO	4	experimental physics, marine research, chemistry
IAEA*	6	experimental physics
COST	5	molecular medicine
INTERREG***	2	marine research

- **In 2008: 67 applied and technological projects and 4 HITRA*** projects**

* International Atomic Energy Agency (IAEA)

**Interregional Cooperation Programme

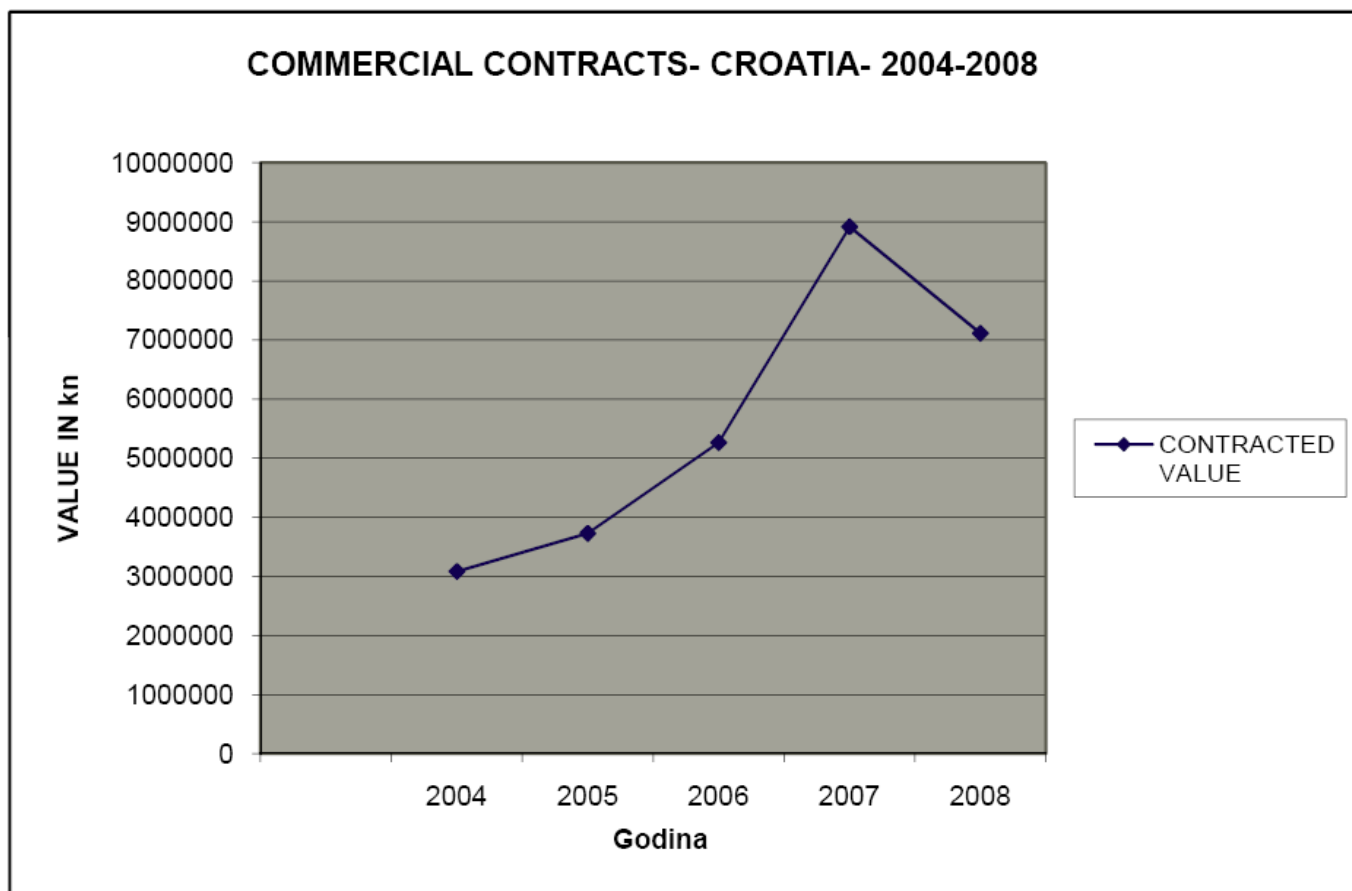
*** Croatian Innovation Technology Action Program



COMMERCIAL CONTRACTS IN CRO 2004 - 2008

YEAR	CONTRACTED VALUE
2004	3.082.763,46 kn
2005	3.727.441,70 kn
2006	5.266.894,31 kn
2007	8.917.551,69 kn
2008	7.114.677,60 kn

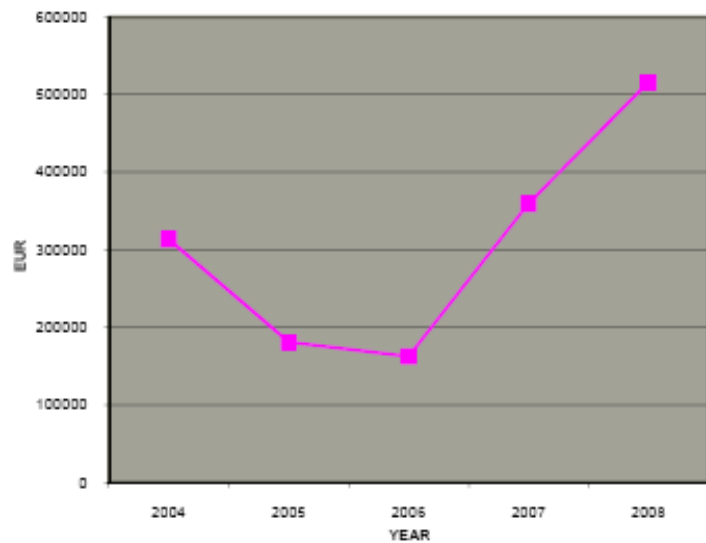
01/01/2009 - 15/05/2009	1.551.116,06 kn
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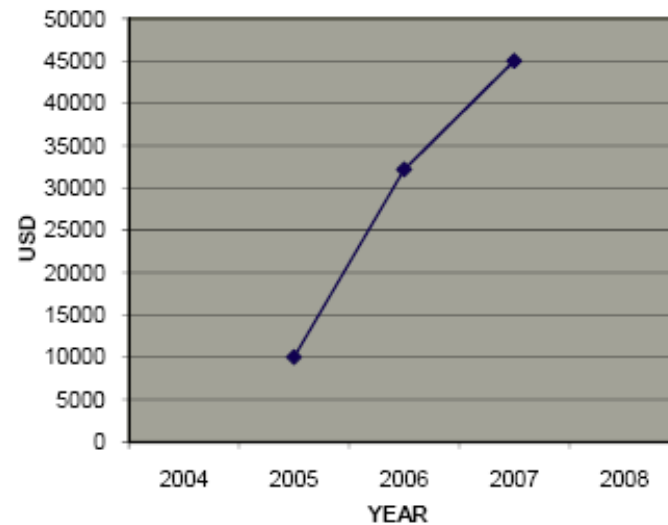
INTERNATIONAL COMMERCIAL CONTRACTS 2004 - 2008

YEAR	CONTRACTED VALUE- COMMERCIAL CONTRACTS INTERN.	
	EUR	USD
2004	313.398,00	
2005	180.721,20	10.000,00
2006	162.366,28	32.160,00
2007	359.279,54	45.000,00
2008	515.586,89	
01/01-15/05/2009	11.224,00	

COMMERCIAL CONTRACTS
IN EUR



COMMERCIAL CONTRACTS IN
USD





Collaboration with universities

- ✓ 200 RBI scientists involved
- ✓ 78 undergraduate courses
- ✓ 245 graduate courses

PhD studies:

Medicinal Chemistry – Uni Rijeka &
GlaxoSmithKline Research Centre ZG

❑ **Molecular Biosciences** Uni Osijek, Split
and Dubrovnik

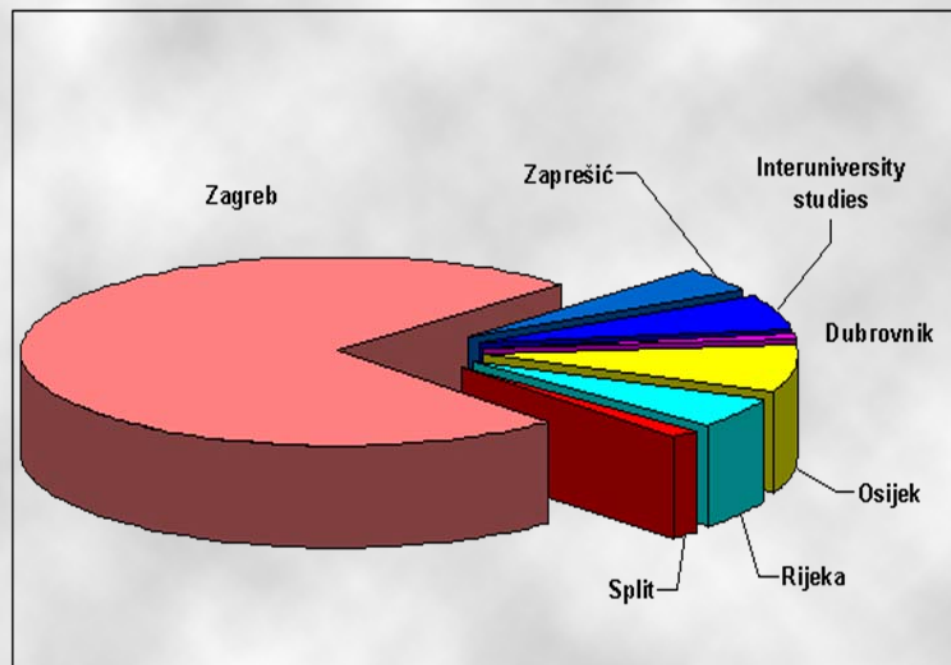
❑ **Environment and Ecology** – Uni Osijek

❑ **Tumour Biology** - Unis Split, Dubrovnik
and Zadar

❑ **Biophysics**, Uni Split

❑ **Oceanology** –Uni ZG,DU, ST

❑ **Graduate studies on Project
Management**



Distribution of the RBI held graduate courses among the universities (245)



Intellectual Property and Commercialization



- RBI's Agency founded in 2007
- specialized in commercialization of innovations and technology transfer
- links science and technology with economy and industry.

Portfolio: more than 80 innovations and scientific projects in various fields with commercial potential but primarily in chemistry, medicine, biology, physics and informatics

- ❑ 7 employees,
- ❑ more than 80 projects (32 outside RBI),
- ❑ 32 patent applications
- ❑ 7 license agreements, 1 patent granted and 5 spin-offs



INNOVATIONS



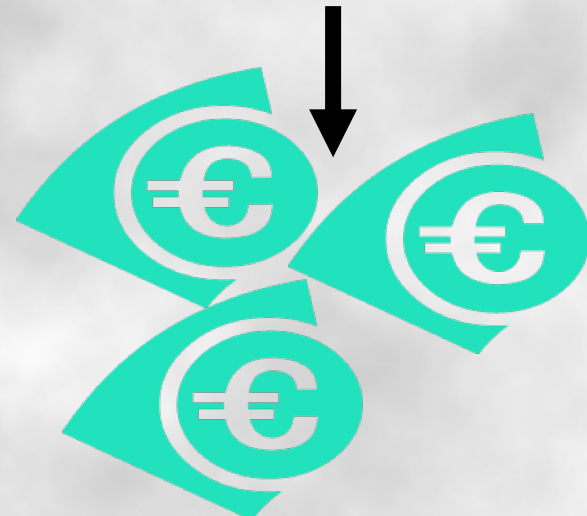
Ideas



FUNDING

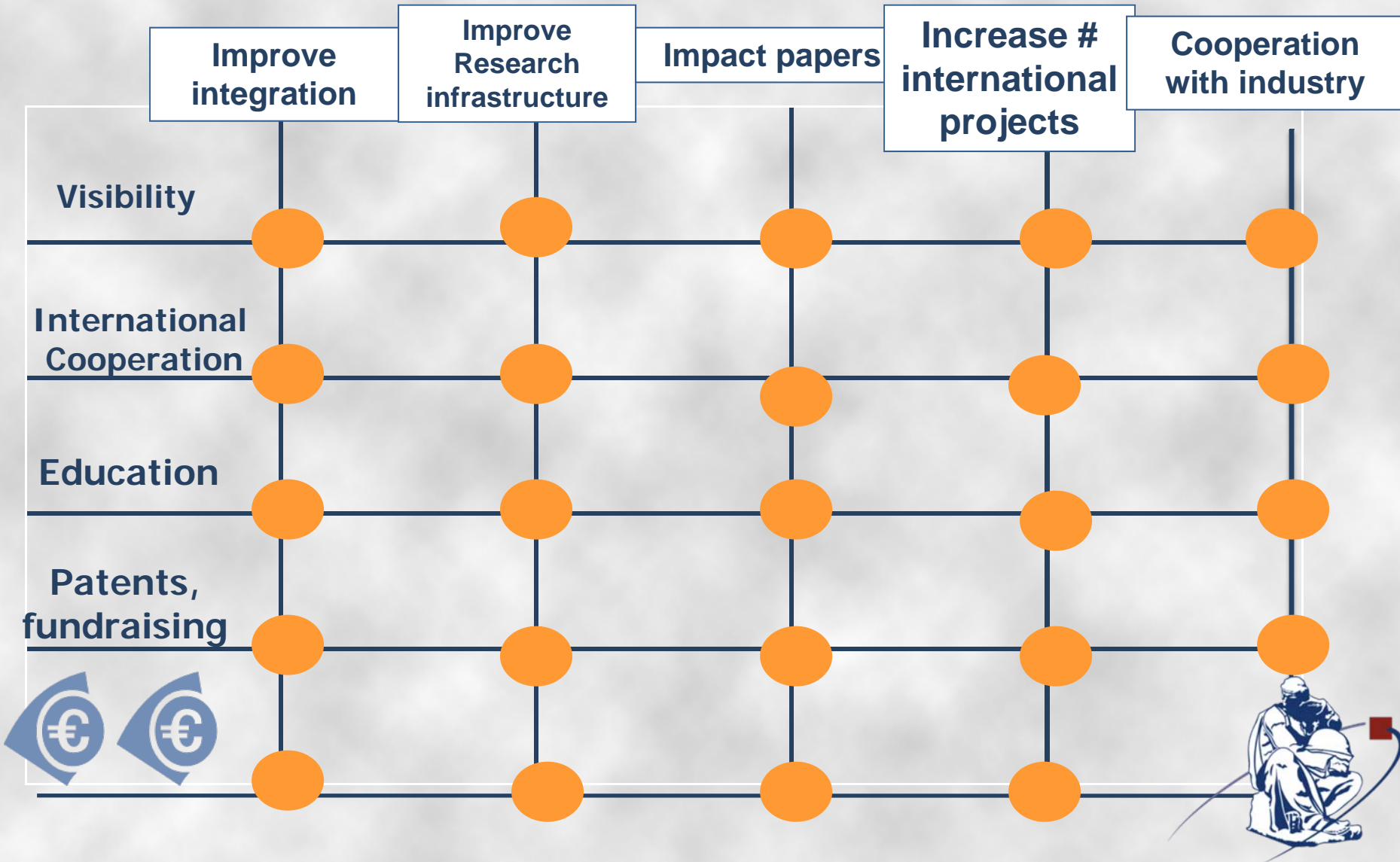


IP and
PATENTS



Technology Transfer

RBI → EU CENTRE OF EXCELLENCE



THANK YOU !

