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Research landscape in Poland and FNP Experience with EU Funds

Maciej Zylicz

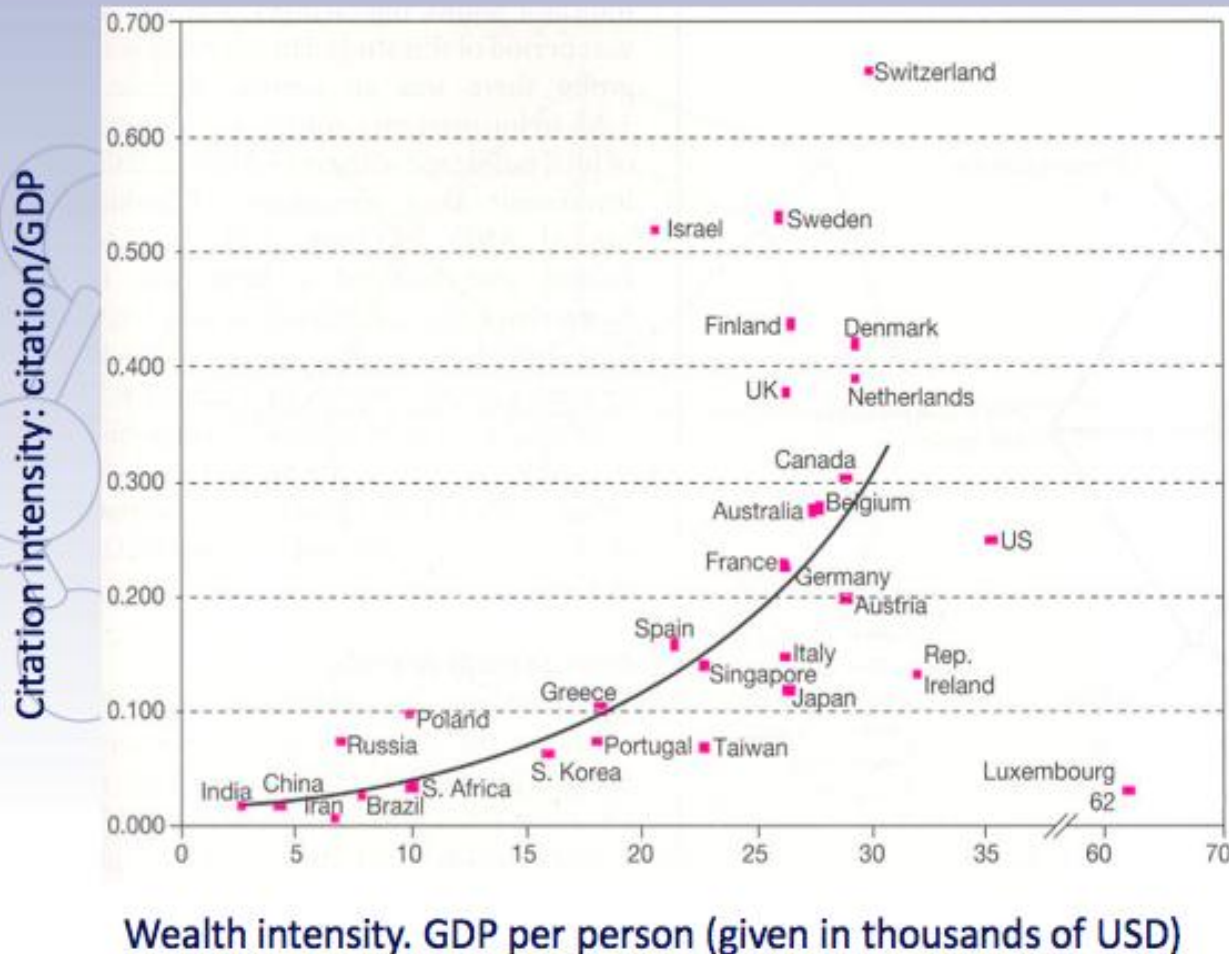
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Croatian Ministry of Science, Education and Sports
Zagreb, July 2013

Comparison of economic and scientific wealth



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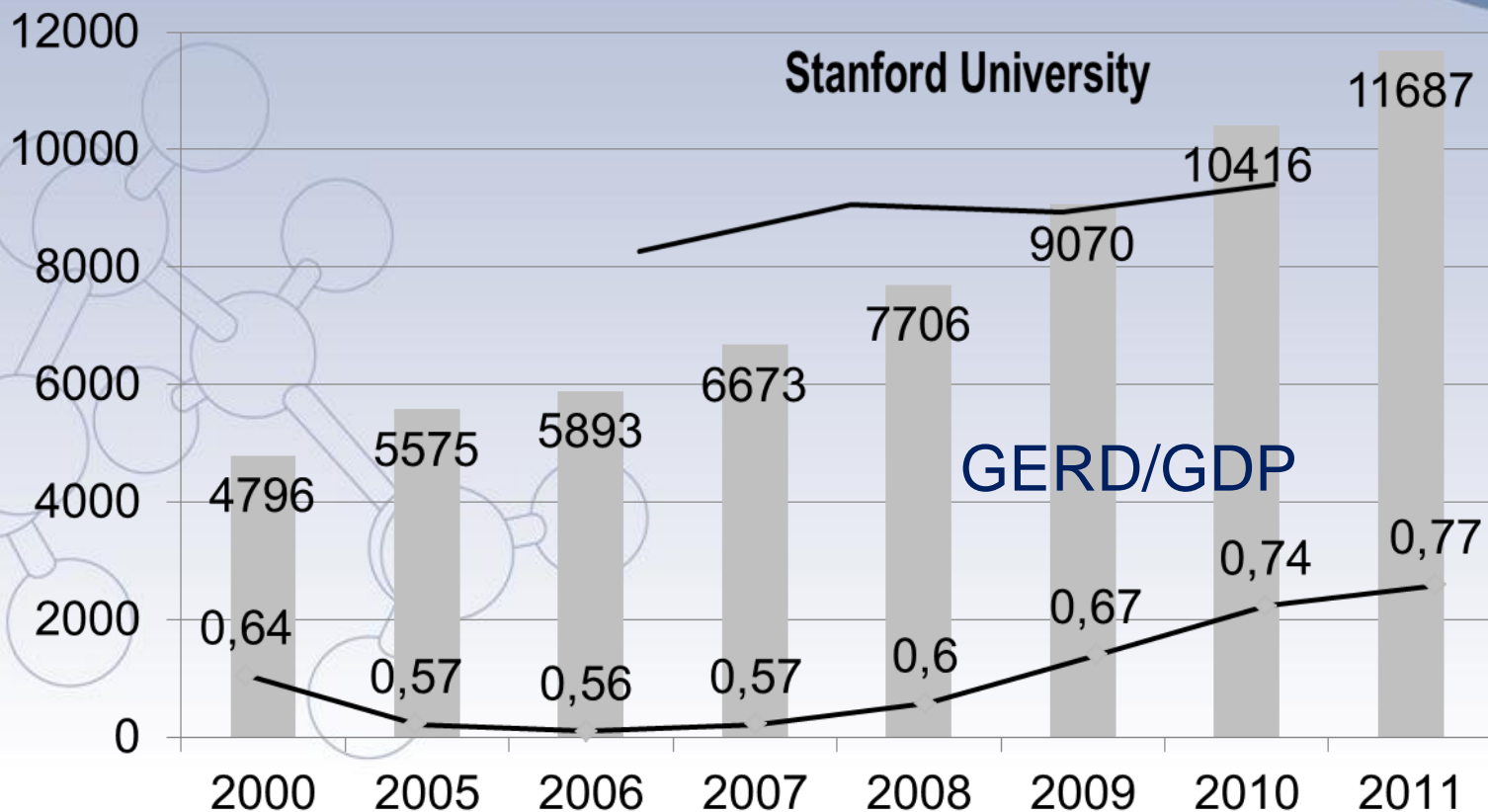
Ranking: top 1% highly cited publications (%):

1. USA 63
2. EU15 37
3. UK 13
4. Germany 10
5. Japan 7
- .
- .
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22. **Poland 0.6**

Gross domestic expenditure on R&D (mln PLN)

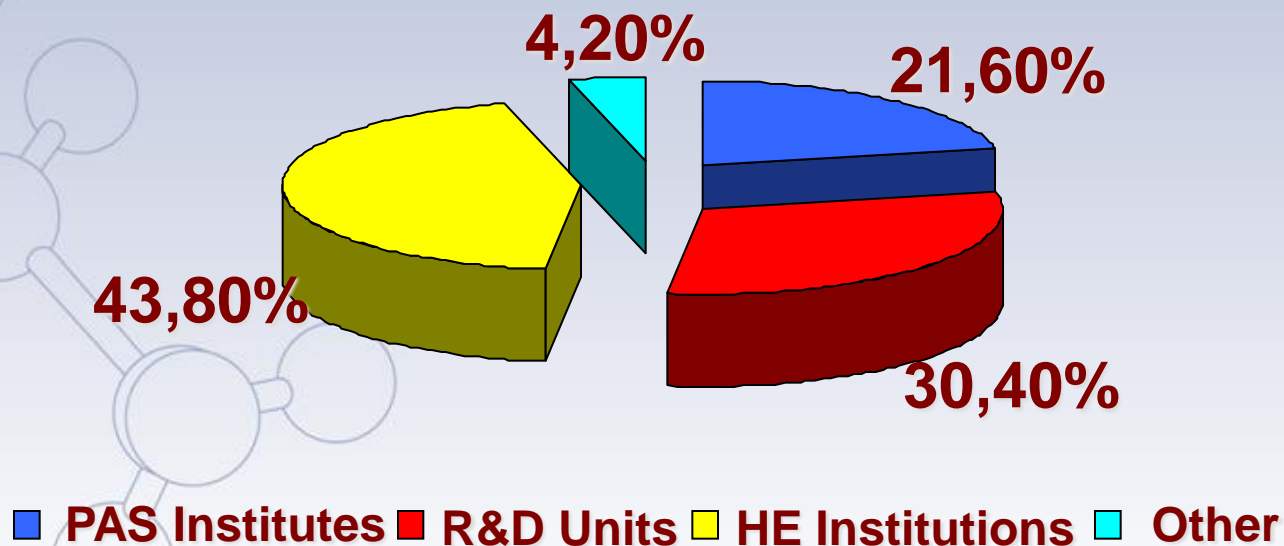
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Source: Central Statistical Office,
Stanford web, Financial Reviews

Breakdown of science expenditure in Poland according to sectors

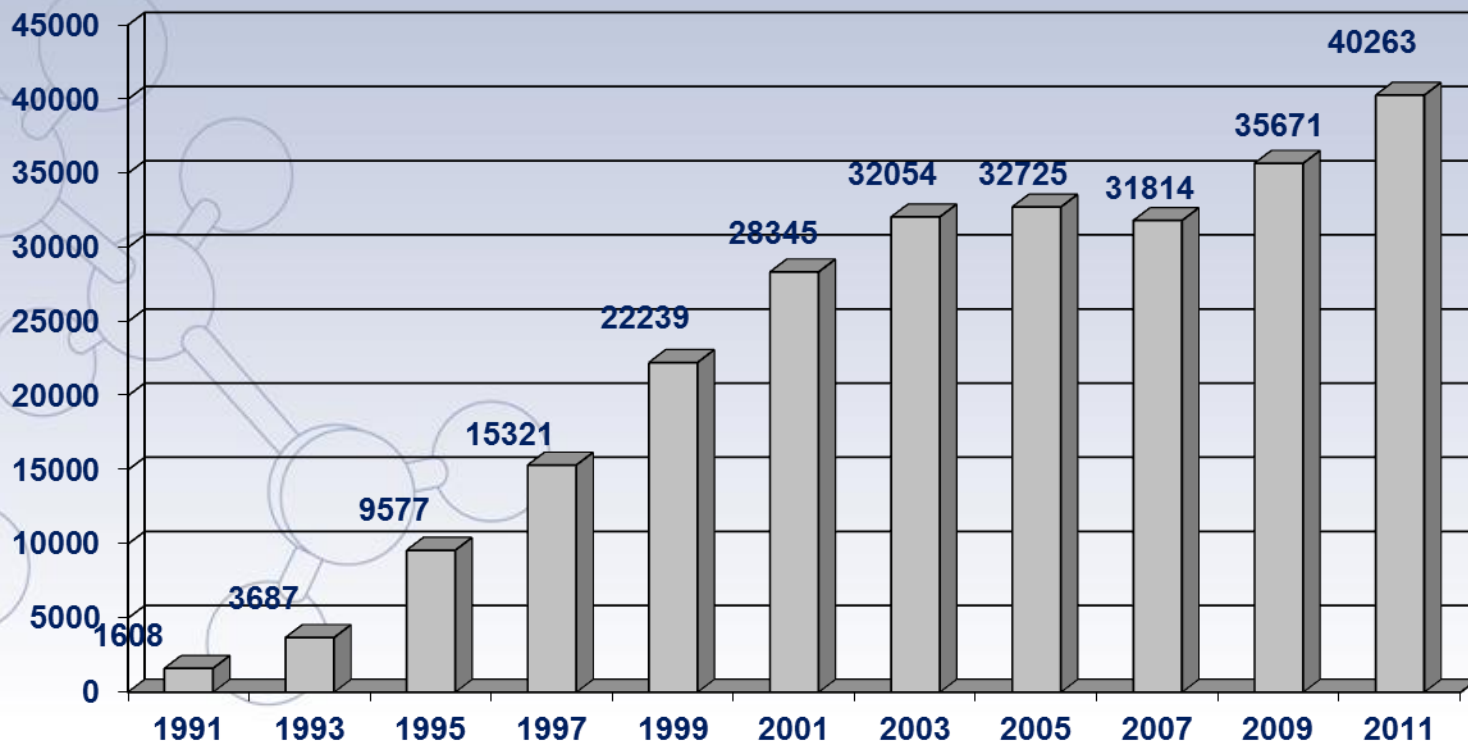


Institutions of public R&D

	1995	2000	2005	2010	2011
Polish Academy of Sciences	81	81	76	76	70
R&D Institutes	218	222	194	124	116
Higher Education	104	114	143	212	197

Source: Central Statistical Office

Number of Ph.D. students

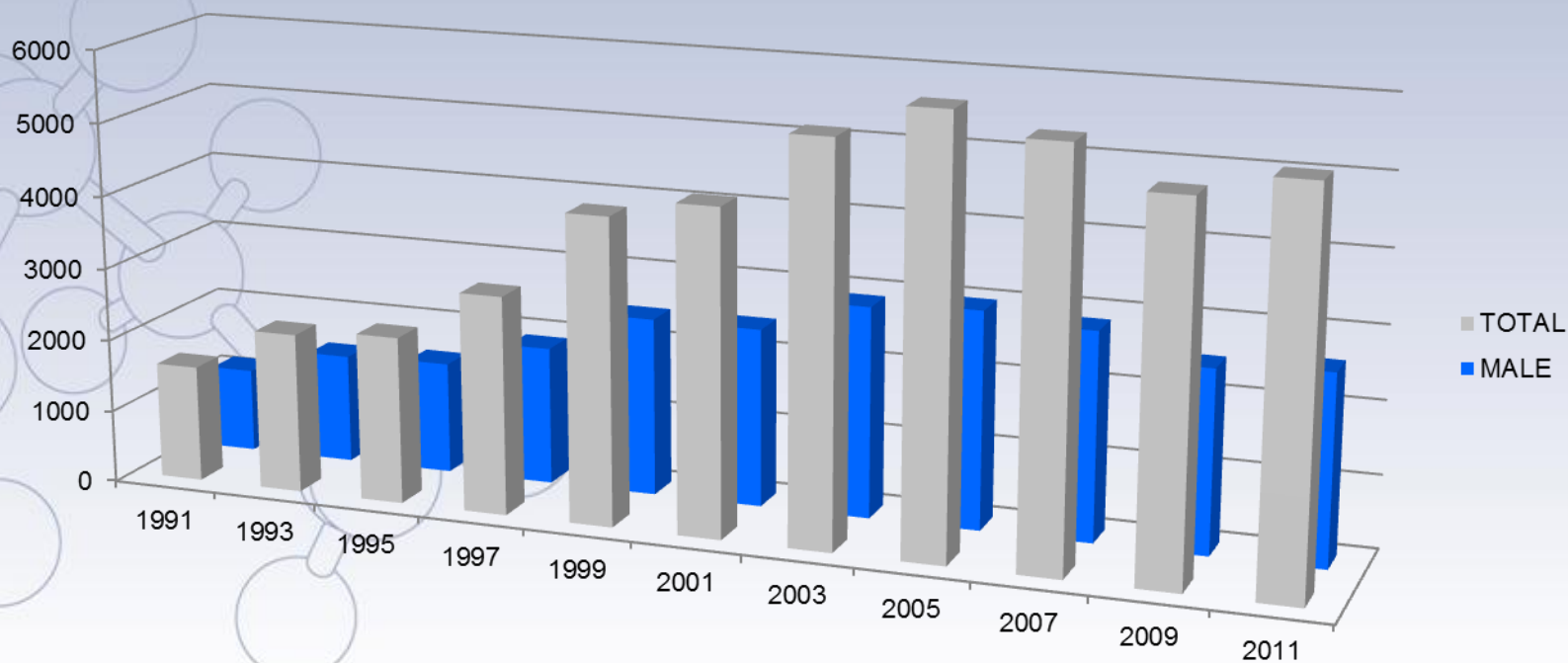


Source: Central Statistical Office

PhD awarded vs. gender

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Source: Central Statistical Office

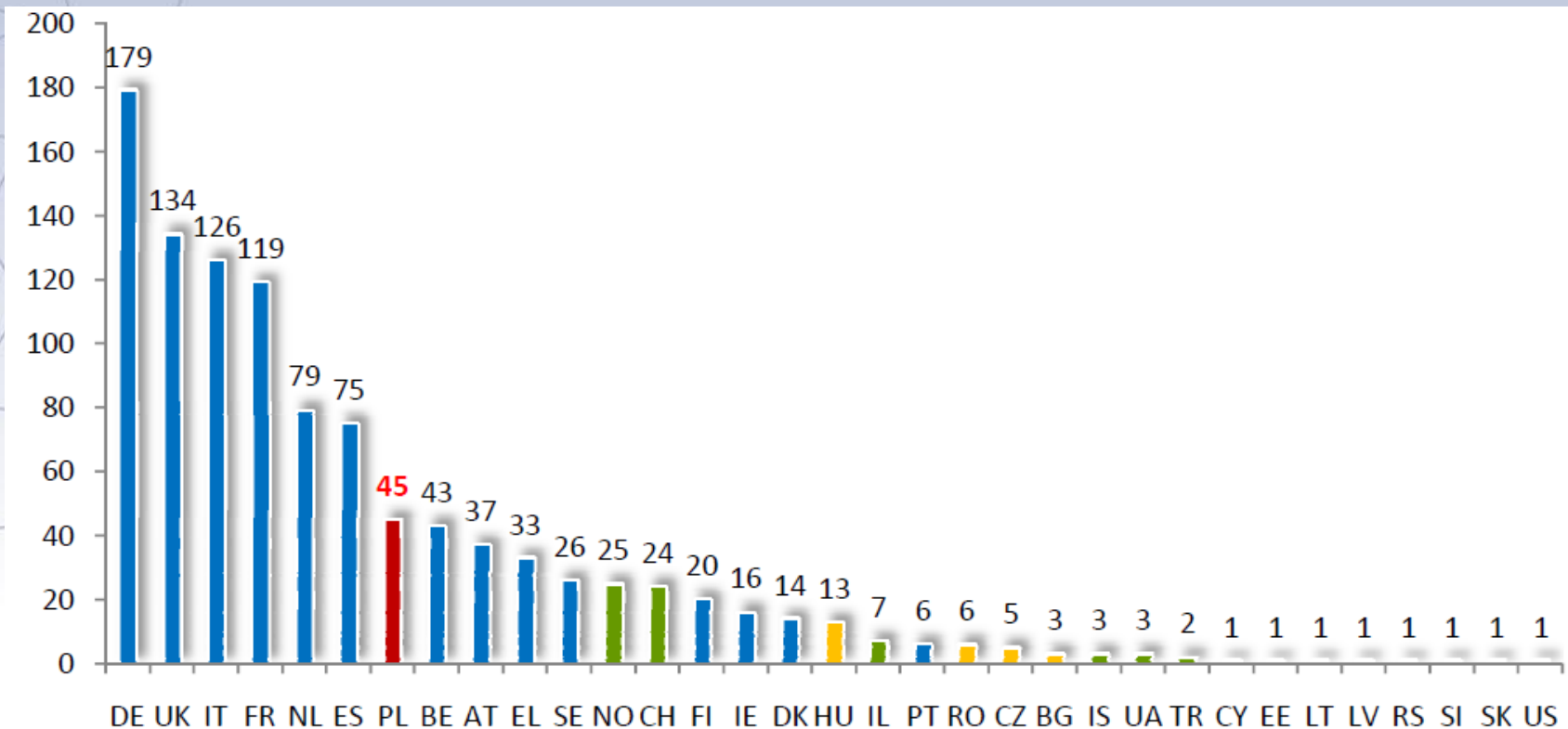
Number of students in Poland 1990-2020



Poland in EU 7 Framework Programme



Number of coordinated projects with at least one Polish participant



Source: National Contact Point. Poland's participation in 7FP (November 2012)

State Budget



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National Science Centre –
basic research projects, doctoral, postdoctoral projects

National Centre for Research and Development –
applied research projects, strategic R&D programmes,
research for defence and security

Ministry of Science and Higher Education –
Minister's programmes, mobility, etc.



INNOVATIVE ECONOMY
NATIONAL COHESION STRATEGY





Shortcuts

- **Results of the first NCN calls published**
Friday, 7 October 2011
The National Science Centre published the results of the four calls for proposals announced in March 2011. In total PLN 500 million will be distributed to 1871 projects. [Read more »](#)
- **NCN launches another three calls**

Programs

2011 Figures

- ✓ **7826:** Eligible proposals
- ✓ **3395:** Qualified for the second-stage evaluation (43%)
- ✓ **1871:** Qualified for funding (24%)
- ✓ **12.000:** Ongoing research projects (funded previously by MNiSW)
- ✓ **127 500 000 euro:** Grants
- ✓ **225 000 000 euro:** Grant budget for 2012



PANELS

25 Panels, covering all fields of science and scholarship, are divided into three thematic groups

214 million € (2013)



The National Centre for Research and Development



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Strategic Programmes – e.g. new energy sources, safety of nuclear energy, etc.

National Programmes – e.g. Leader Programme, Industrial Projects, etc.

Defence and Security programmes

International Programmes – e.g. ERA-NET, EURECA

UE Structural Funds – Intermediate Body Research Projects, Research Infrastructure, Human Capital for Science

**1,1 billion €
(2013)**

News | 2 December 2011

Polish scientists want to build an underwater hotel

Watching coral reefs up close will be possible at the underwater hotel, designed by scientists at the Gdańsk University of Technology.

Picture: www.deep-ocean-technology.com.

| + more



INTERNATIONAL CONFERENCES
IN POLAND

FELLOWSHIPS VACANCIES
IN POLAND

POLISH PRESIDENCY OF
THE EU COUNCIL

INTERNATIONAL
COOPERATION

1 2 3 4 5

STUDIES IN POLAND

- » Higher education in Poland
- » Polish Higher Schools
- » Studies in Poland in Foreign Languages
- » Recognition of Foreign Qualifications



- **National program for humanities** – ca. 30 m euro per year, for publishing, translations, young scientists, projects carried out in cooperation with foreign institution, mobility;
- **„Iuventus Plus” program** – research grants for young scientists, up to 35 years old, all fields of science (ca. 30 – 40 000 euro/per person)
- **Ideas Plus** – projects above 70 p. in ERC Starting grants
- **„Diamond” grant program** – for graduate students involved in research projects, to carry out PhD after BA
- **Mobility Plus program** - postdocs outgoing international fellowships, one call per year



Opportunities

Structural Funds for r&d in Poland (2007-2013)



- **1.3 bln euro for research projects**
 - **1.3 bln euro for research infrastructure**
 - **1.4 bln euro for universities and human capital**
-
- **synergy is needed among all actors in the field**
 - **structural effect met through Intermediary Body**
 - **our responsibility to the research community**



FOUNDATION FOR POLISH SCIENCE



FNP - the largest non-governmental organization funding research in Poland

- **24 million €** from the Central Development Fund for Science and Technology endowed by the Polish Parliament in **1989**
- over **100 million €** spent within the last 20 years (from own investments)
- nearly **100 million €** - current assets (endowment)
- over **100 million €** - received from the EU Structural Funds



INNOVATIVE ECONOMY
NATIONAL COHESION STRATEGY





**SUPPORTING
ONLY THE BEST, SO
THAT THEY CAN
BECOME EVEN
BETTER**



FNP PRIORITIES

FNP

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- **competitiveness - excellence**
- **independent *peer review* system**
- **transparency - external financial **audit** & public annual financial and programme **reports****
- **Code of Ethics** – both for the FNP authorities, staff and beneficiaries



FNP PRIORITIES

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FNP concentrates on **people** rather than any thematic priorities or institutions

Gives assistance in getting **independence**

Protects the **talents** in the system

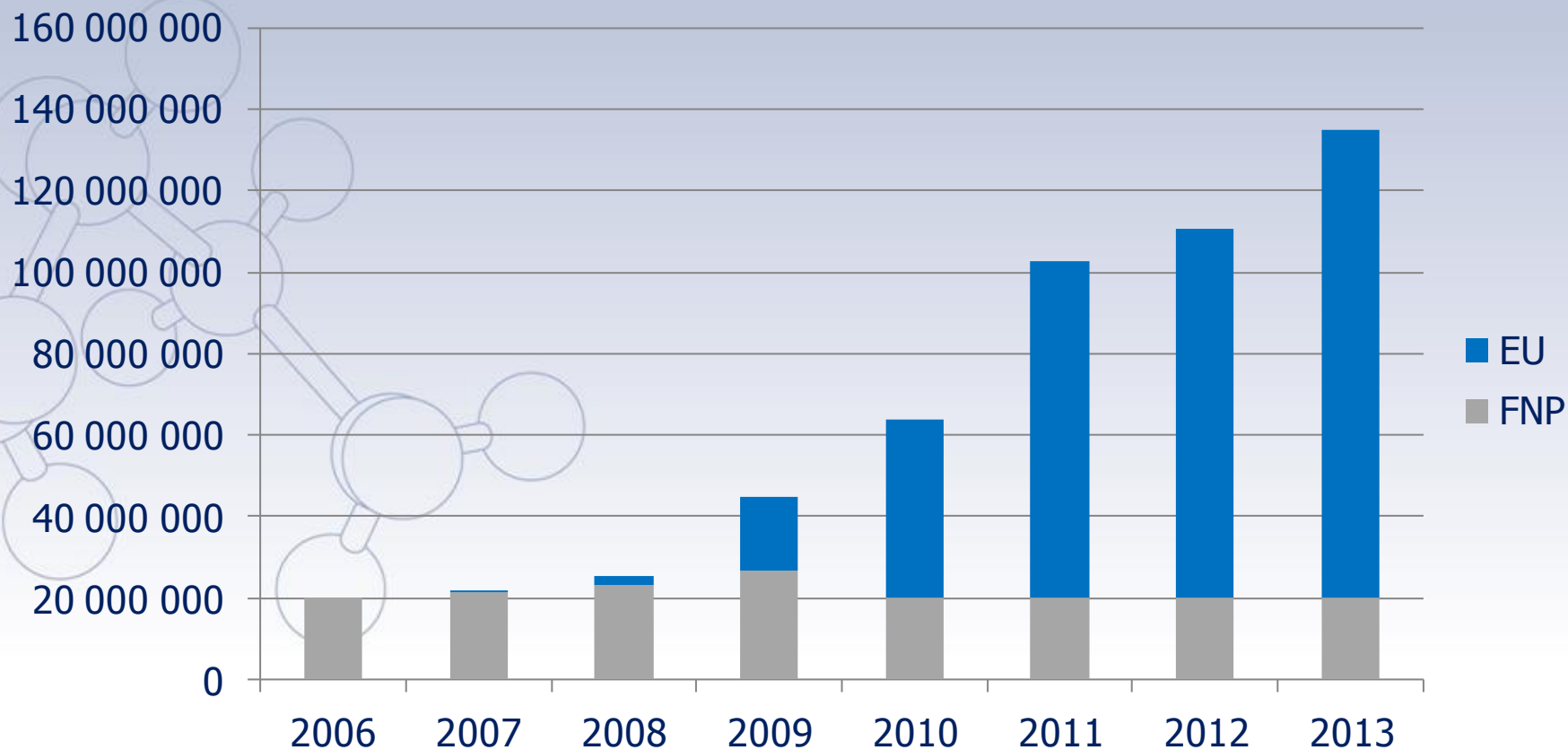
FNP promotes **excellence** in all fields of science and humanities

FNP ANNUAL EXPENDITURES

Including EU Structural Funds (in PLN)

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INNOVATIVE ECONOMY
NATIONAL COHESION STRATEGY



principle >> PEOPLE



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Individual fellowships

- > *START*
- > **HOMING**
- > *IDEAS for Poland*

Team-building grants

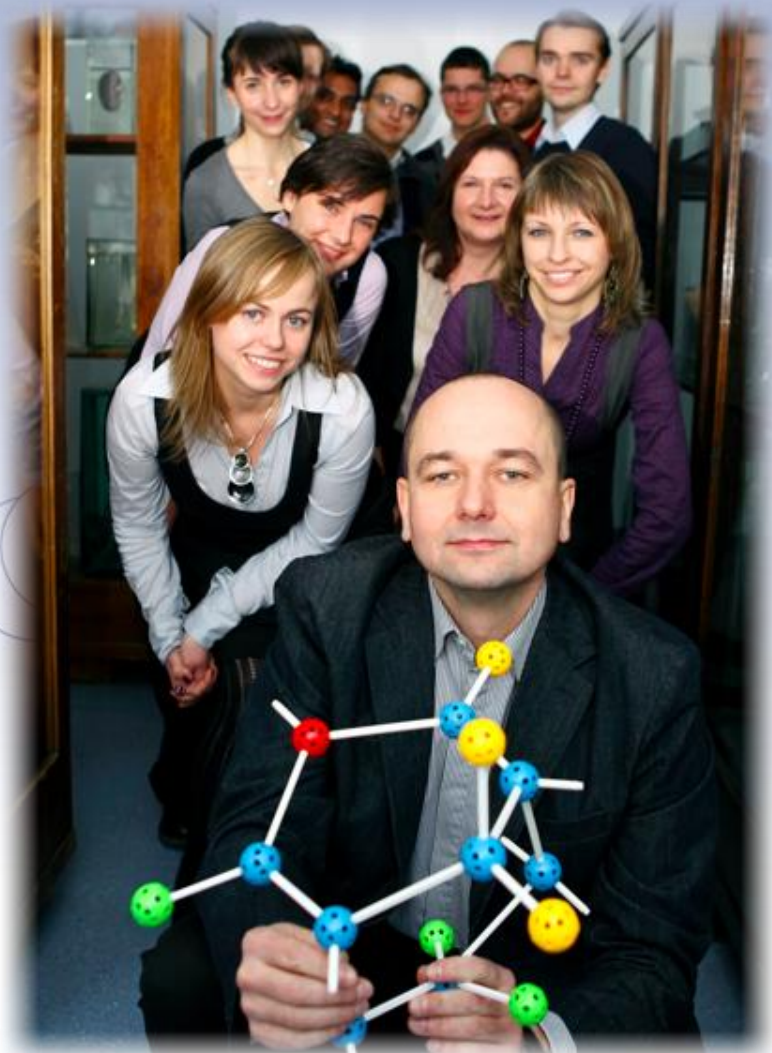
- > *FOCUS*
- > **TEAM**
- > *Welcome*

PEOPLE >> *case story*



TEAM *programme*

- > run since **2008** / 9 calls
- > **73** awards granted
- > **850** students & posdocs



PROF. JÓŹWIAK // FOCUS > TEAM
Medical University of Lublin // NIH, Baltimore

contact:

Beata Frączak
fraczak@fnp.org.pl



>> INDEPENDENCE



International
PhD consortia

> **HOMING**

> **FOCUS**

> **TEAM**

>> **success stories**



Nurturing **TALENTS**

Supporting **EXCELLENCE**

Creating **NEW QUALITY**

PROF. OLKO // FOCUS > ERC2012
Faculty of Artes Liberales, University of Warsaw

principle >> MOBILITY



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Outgoing
fellowships

Incoming
fellowships

Scientific
exchange

PROF. GUZIK // *START* > *WELCOME* > *FNP Prize*
Jagiellonian University in Krakow // Emory University, Atlanta

MOBILITY >> *case stories*



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HOMING *programme*

- > run since 2006 / 10 calls
- > 150 awards granted
- > +130 MSc fellowships



GANGULY, PhD // HOMING+
Nencki Institute, PAS // Jadavpur University, Kolkata

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MOBILITY >> *case stories*



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WELCOME *programme*

- > run 2008-2011 / 4 calls
- > 11 awards granted
- > +140 students & posdocs



PROF. BEGUIN // WELCOME

Technical University of Poznan // Orléans University, France

contact:

Kinga Słomińska
slominska@fnp.org.pl





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FNP EXERCICE WITH EU FUNDS

- Some statistics:
- 2401 submitted applications
- 348 funded projects (14%), 84 teams
- PI's: 202 male/146 female, 10 foreigners
- 1619 fellows – students, postdocs (145 foreigners)
- 211 postdocs (29 foreigners)



INNOVATIVE ECONOMY
NATIONAL COHESION STRATEGY



Opportunities

Structural Funds for r&d in Poland (2014-2020)



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- **1st Thematic priority :**

- **Scientific research, technology and innovation**

- **9,3 bln euro**

- Operational Program Intelligent Development

- 6,8 bln euro

- Regional Operational Programmes

- 2 bln euro

- Operational Programme Eastern Poland

- 0,5 bln euro



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Operational Program Intelligent Development 2014-2020

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Current proposal for the research sector:

- **Consolidation of teams (virtual institutes) – FNP?**
- **Creation of Centres of Knowledge and Innovation (regional programmes)**
- **Projects in cooperation with industrial partners**
- **Development of Research infrastructure (Road Map)**
- **International Research Institutes (International Research Agendas - *Teaming*) - FNP**
- **Development of R&D personnel - FNP**



INNOVATIVE ECONOMY
NATIONAL COHESION STRATEGY



New Programmes in FNP (2014)



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International Research Agendas (*international institutes*)

- Financed from EU Structural Funds for Poland – **budget** around **50 mln EUR**
- Newly created, independent, excellence driven, highly competitive, interdisciplinary research units - 3 to 5 IRA in different areas of science
- Partnership with foreign or international, globally recognized research institutions
- **International Scientific Council** for each IRA – assessing strategy, securing high standards of research, appointing team leaders
- Open, international calls for positions in IRA, competitive work environment, access to existing research infrastructure (built recently from structural funds) and pool of young, highly motivated doctoral students and young researchers
- **Additional Funding from other competitions (e.g. Teaming H2020, New Team)**

New Programmes in FNP (2014)



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- **NewTeam** – creation of teams in strong international cooperation
- **FirstTeam** – creation of the first teams
- **TeamTech** – creation of teams for technology



INNOVATIVE ECONOMY
NATIONAL COHESION STRATEGY



FNP PROGRAMMES



International Institutes (Int. Research Agendas)

First Team – New Team – Team Tech

HOMING PLUS

TEAM

INT. PhDs

WELCOME

VENTURES

PARENT/BRIDGE

Academic MASTER

STUDIES

PhD

SCIENTIFIC CAREER/AGE

IDEAS PL FNP - AvH Fellowship

START

COPERNICUS PRIZE

FNP - AAAS PRIZE

FNP PRIZE

25

30

60+

Thank you for your attention!

FNP

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