

VISION AND PLANS OF R&D PRIORITIES AND THEIR FINANCING IN POLAND

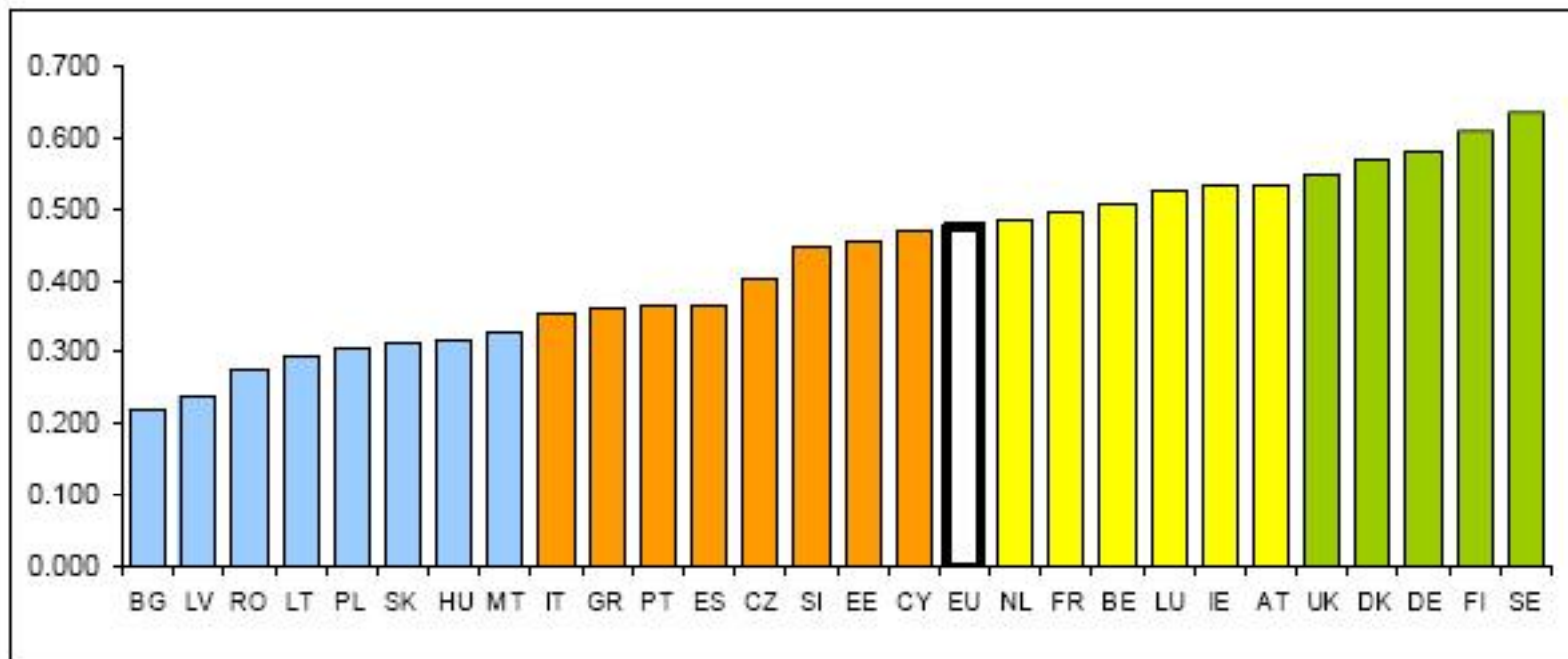
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OUTLINE

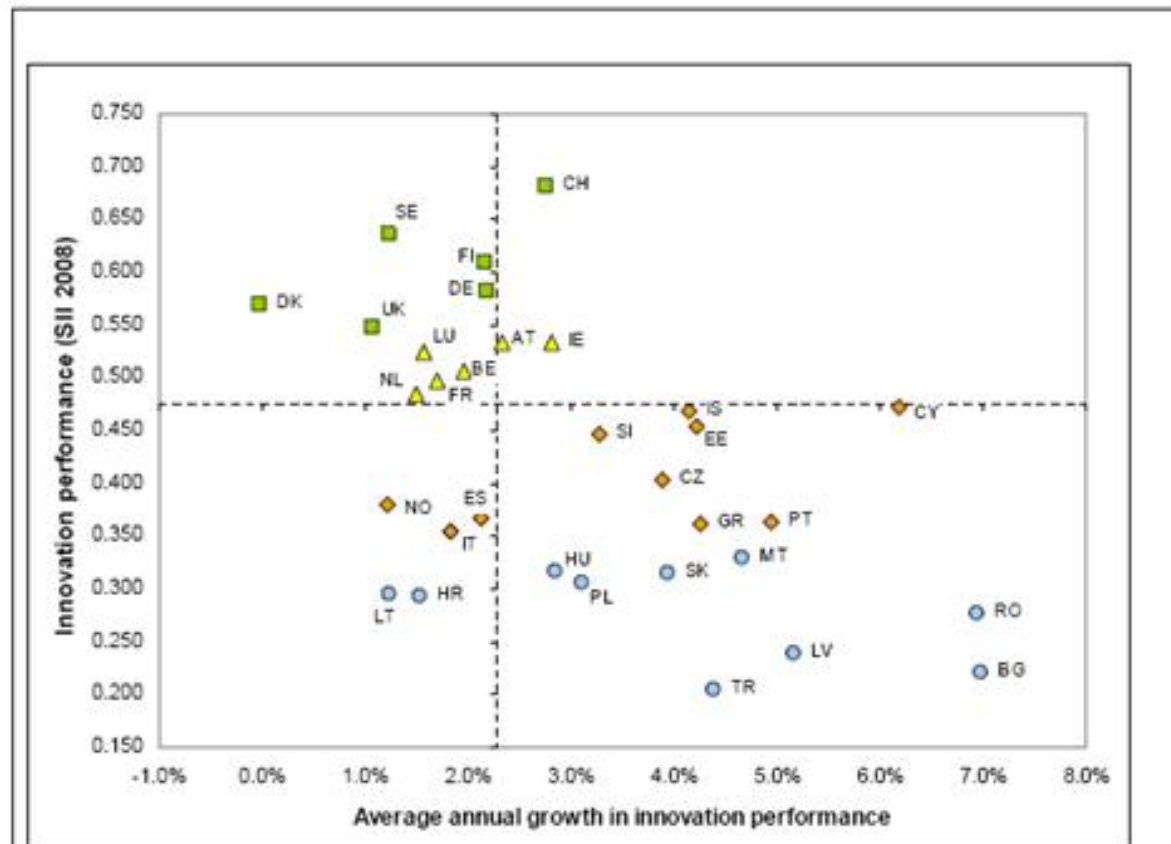
- **R&D, where we are?**
- **Organisation**
- **Programme**
- **Financing**
- **OP Innovative Economy**

EUROPEAN INNOVATION INDEX 2008



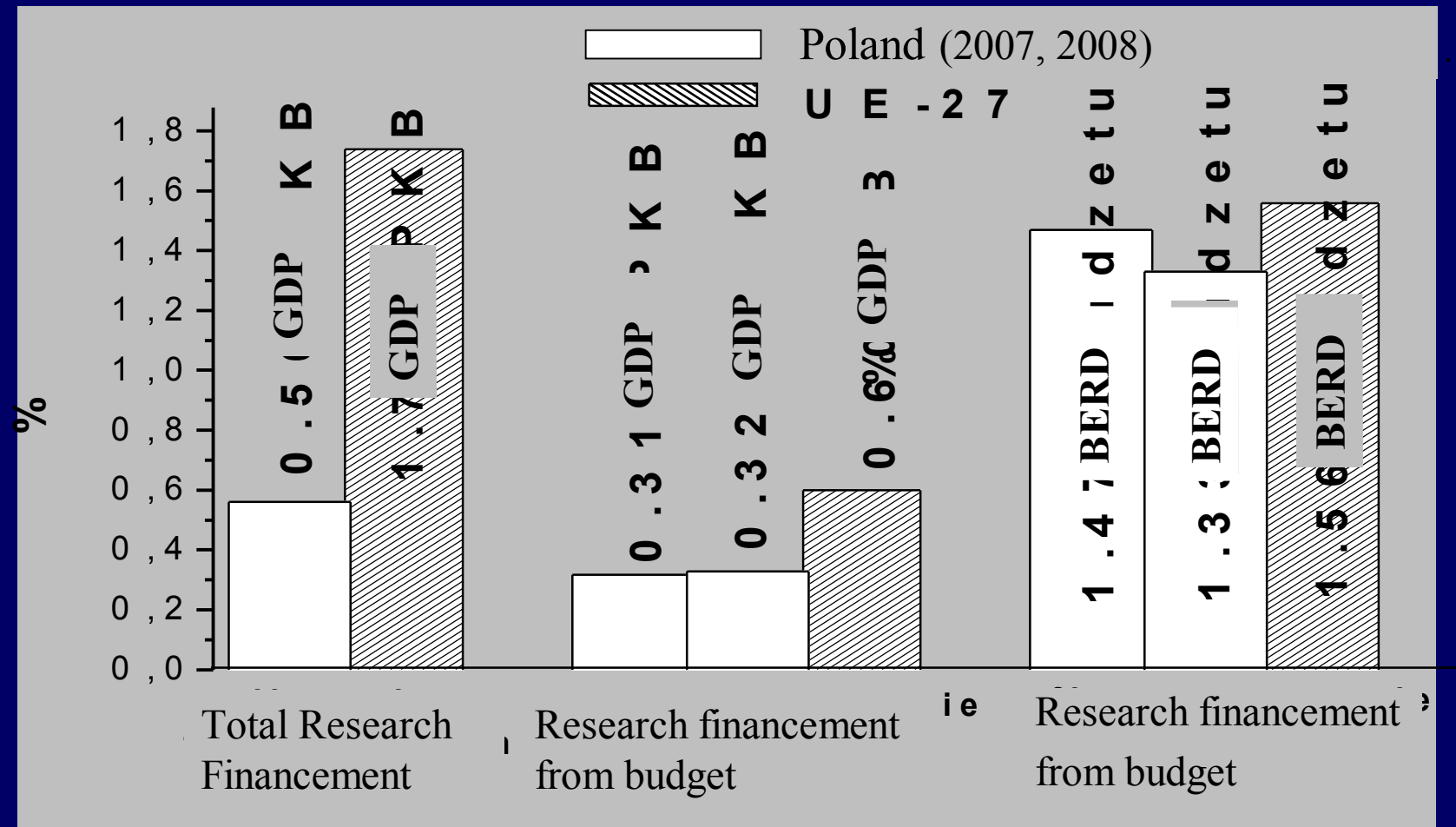
Note: The Summary Innovation Index (SII) is a composite of 29 indicators going from a lowest possible performance of 0 to a maximum possible performance of 1. The 2008 SII reflects performance in 2006/2007 due to a lag in data availability.

CONVERGENCE IN INNOVATION PERFORMANCE



Colour coding matches the groups of countries identified in Section 3.1: green are the innovation leaders, yellow are the innovation followers, orange are the moderate innovators, blue are the catching-up countries. Average annual growth rates as calculated over a five-year period. The dotted lines show EU performance and growth.

RESEARCH FINANCEMENT IN POLAND AND IN UE-27



R&D CHALLENGES

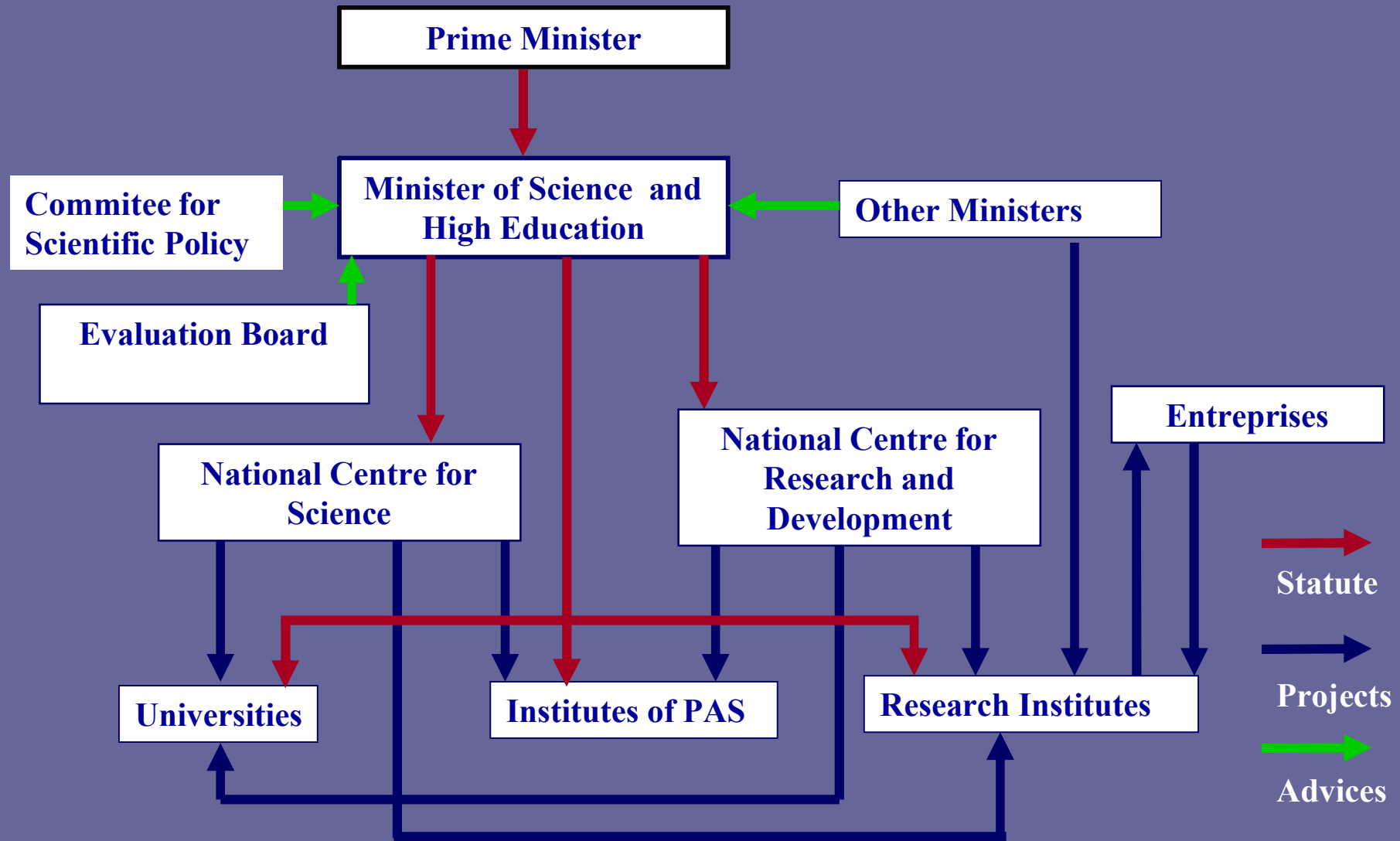
- ✓ **Complex and dispersed institutional structure:**
 - **State research and development institutions (120)**
 - **Higher public schools (147)**
 - **Institutes of the Polish Academy of Sciences (78)**
 - **Enterprises (573)**
- ✓ **Study profiles not matched to the market needs**
- ✓ **Low expenditure on R&D – GERD: 0,56% GDP**
- ✓ **Predominance of budgetary spending in the general composition of R&D financing - 57,5% against only 25,1% from business**
- ✓ **Dispersed and more than 70% amortised research infrastructure**
- ✓ **Low level of innovativeness and cooperation between research and business – 8% of research staff is employed in enterprises**

STRATEGY FOR THE DEVELOPMENT OF SCIENCE UNTIL 2015

Key aspects of the research system reform:

- Institutional and organisational changes
- Change in public research financing
- New model of research career
- Measures to boost innovation
- Setting R&D thematic priorities
- Closer association with ERA

RESEARCH GOVERNANCE AND FINANCING



NEW ROLE OF THE MINISTRY

- **Defining strategic policy objectives**
- **Allocating funds for scientific and research institutes (statutory funding)**
- **Implementing ministerial programmes and undertakings**
- **Deciding on key investments and infrastructures**
- **Auditing and evaluating of scientific institutions**

NATIONAL CENTRE FOR SCIENCE

**Governmental agency responsible for management
and financing of basic research**

Activity:

- **Calls for proposals and projects selection**
- **Financing international research programmes**
- **Introducing and managing of new funding instruments**

(bottom-up approach)

Structure:

- **Director** – appointed by the Minister of Science amongst candidates selected in competition
- **Council** – representatives of scientific community

NATIONAL CENTRE FOR RESEARCH AND DEVELOPMENT

Governmental agency responsible for:

- **implementing R&D and innovation policy**
- **managing strategic R&D programmes**
- **facilitating the technology transfer to economy and business**
- **enhancing scientists career development**
- **implementing international mobility programmes**

(top-down approach)

Structure:

- **director** (appointed by the Minister of Science)
- **scientific council** (consisting of representatives from scientific community, business environment and public administration)

NATIONAL PROGRAMME OF SCIENTIFIC RESEARCH AND DEVELOPMENT

(approved on October 30, 2008)

identifies

- **Priority Research Areas;**
- **Priority Research Directions.**

includes

- **Strategic Programmes of Scientific Research and Development Works.**

PRIORITY RESEARCH AREAS IN NATIONAL PROGRAMME OF SCIENTIFIC RESEARCH AND DEVELOPMENT

**Research area 1. – „Society in the process of
accelerated and equilibrated development”**

Research area 2. – „Health”

Research area 3. – „Energy and infrastructure”

Research area 4.– „Advanced technologies”

Research area 5. – „Agriculture and environment”

CRITERIA FOR THE SELECTION OF RESEARCH PRIORITY AREAS AND DIRECTIONS

- **Long and medium term development needs and security of society, economy and state**
- **Natural resources and geographical situation**
- **Intellectual potential and material opportunities of Poland in the international scientific market**
- **Conformity with research programme of the European Union**
- **Conformity with research areas, which actually play a leading role in the development of world civilisation and economy (ERA)**
- **Possibilities of implementation of scientific and technological results by the local industry**

INCENTIVES TO BOOST INNOVATION

- **Fiscal incentives for private sector and business**
- **Ability for an enterprise to apply for and be conferred the status of R&D centre**
- **Enhancing public-private partnership**
- **New forms of financing: *venture capital, business angels, seed capital***
- **Support for technology transfer, management of intellectual property rights and commercialisation of research results**
- **Developing entrepreneurial and managerial skills of R&D human resources**

STRUCTURAL FUNDS

OPERATIONAL PROGRAMMES

| OPERATIONAL PROGRAMME | EU financial measures (mln €) | % |
|---|-------------------------------|------------|
| 16 Regional OP's | 15 986 | 24 |
| Development of East Poland | 2 274 | 3 |
| <u>Innovative Economy</u> | <u>8 255</u> | <u>12</u> |
| <u>Human Capital</u> | <u>9 707</u> | <u>14</u> |
| <u>Infrastructure & Environment</u> | <u>27 848</u> | <u>41</u> |
| European Territorial Cooperation | 731 | 1 |
| Technical Assistance | 517 | 0,8 |
| Reserve | 1 967 | 3 |
| Extraordinary losses | 2 691 | 4 |
| TOTAL | 67 284 | 100 |

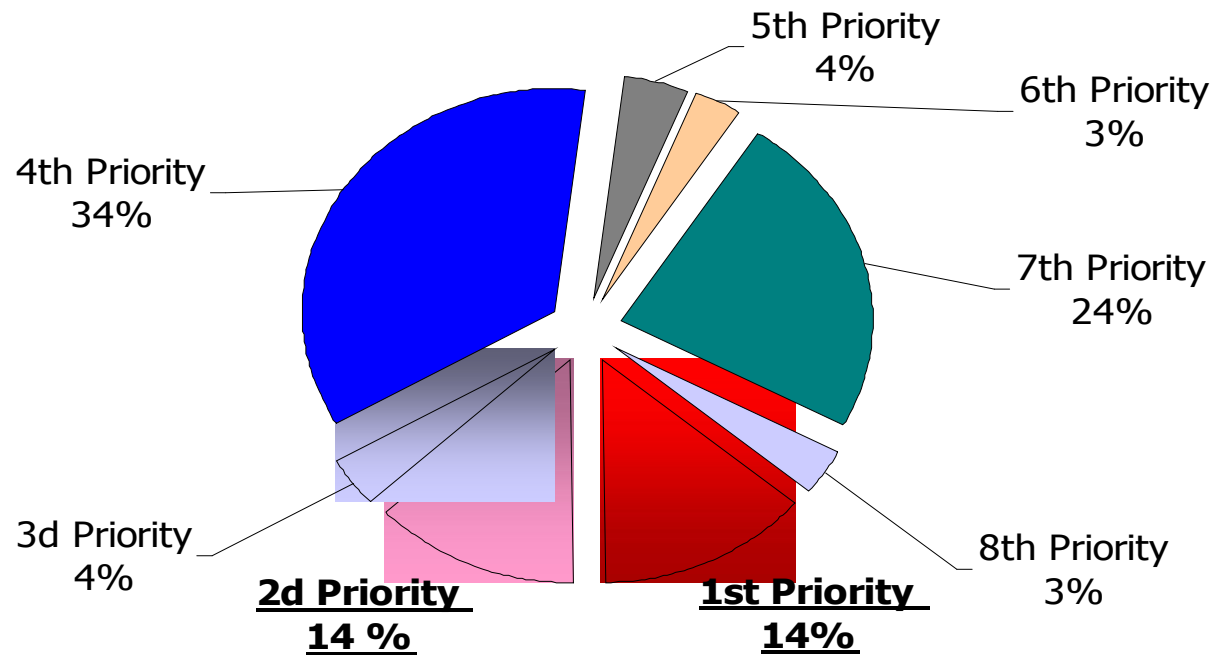
OPERATIONAL PROGRAMME „INNOVATIVE ECONOMY”

Priority axes implemented within the programme

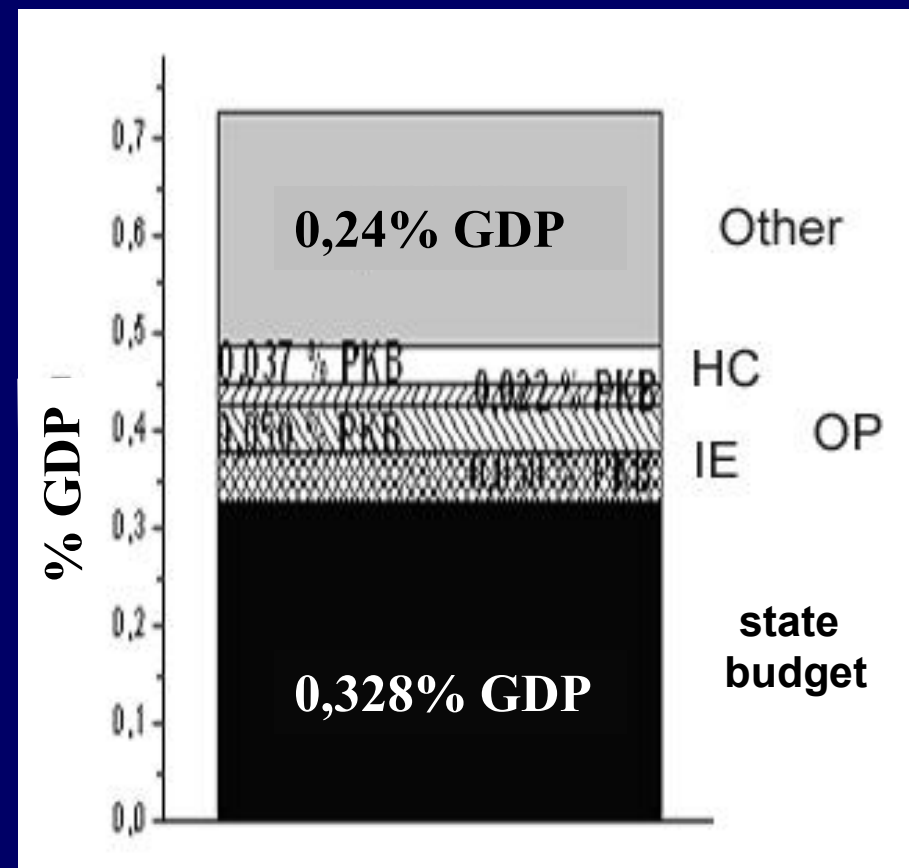
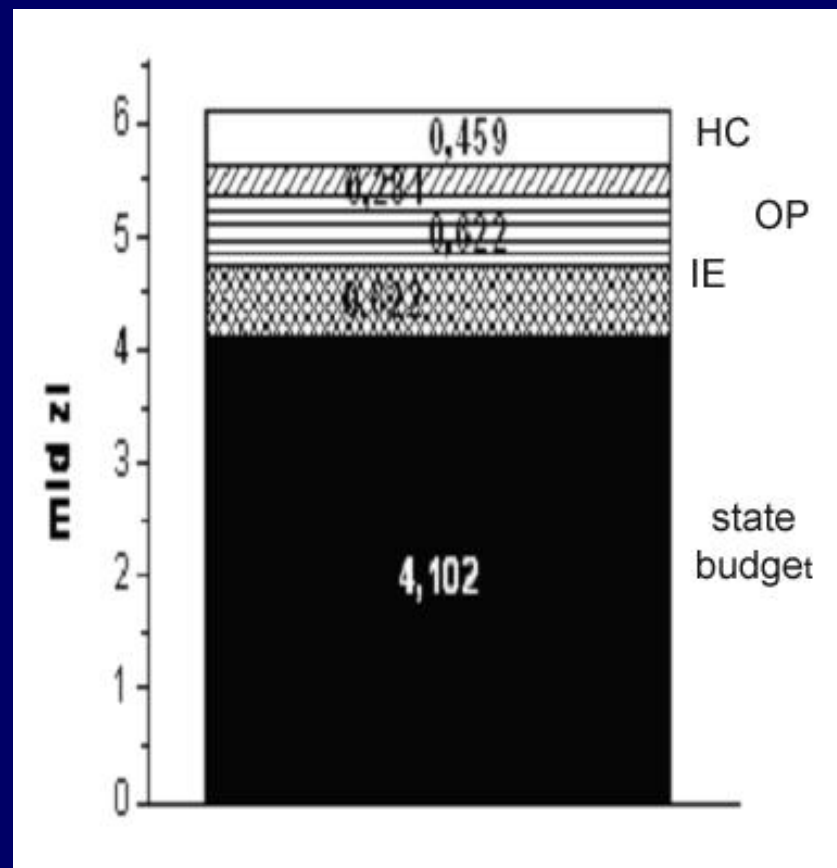
- **Priority 1. Research and development of new technologies**
- **Priority 2. R&D infrastructure**
- **Priority 3. Capital for innovation**
- **Priority 4. Investments in innovative undertakings**
- **Priority 5. Diffusion of innovation**
- **Priority 6. Polish economy on the international market**
- **Priority 7. Information society establishment and development**
- **Priority 8. Technical assistance**

ALLOCATION OF „INNOVATIVE ECONOMY OPERATIONAL PROGRAMME” FONDS FOR 2007-2013

Proposal of allocation 9 711,6 mln EUR among Priorities of
OP IE



ANTICIPATED SCIENCE BUDGET 2009



Thank you for your attention

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