Horizon 2020
Policy Support Facility 'PSF'

Kick-off meeting of the Peer Review of the Polish R&I system 2017

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DG Research & Innovation
European Commission

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Better R&I policies need better evidence

Influencing national R&I policy reform

- Economic analysis and indicators
- European Semester
- Horizon 2020 Policy Support Facility (PSF)

Diagnosis of bottlenecks and assessment of policy responses

Expert and peer support to reforms
Horizon 2020 PSF services

- Peer Reviews of National R&I Systems
- Specific Support to Countries
- Mutual Learning Exercises
- PSF Knowledge Center
  https://rio.jrc.ec.europa.eu/
PSF activities

2015
- 2/03/2015-31/08/2015 MLE on measures to stimulate business research and innovation
- 2/03/2015-30/10/2015 Peer Review of the Bulgarian Research and Innovation System
- 4/05/2015-30/09/2015 Pre-Peer Review of the Hungarian R&I system

2016
- 2/11/2015-29/07/2016 Peer Review of the Moldovan Research and Innovation System
- 2/11/2015-30/06/2016 Specific Support to Malta on Monitoring the National Research and Innovation Strategy
- 4/01/2016-30/09/2016 Peer Review of the Hungarian R&I system
- 11/01/2016-31/10/2016 MLE on administration and monitoring of R&D tax incentives
- 1/02/2016-31/10/2016 MLE Ex-post evaluation of business R&I grant schemes
- 1/02/2016-31/10/2016 MLE on Evaluation of Complex PPP Programmes in STI
- 1/03/2016-31/10/2016 Specific support to Slovakia
- 2/05/2016-30/12/2016 Peer Review of the Ukrainian Research and Innovation System
- 1/07/2016-31/03/2017 MLE on Alignment and Interoperability of Research Programmes: National Coordination
- 6/07/2016-30/06/2017 Specific Support to Romania
- 7/09/2016-29/09/2017 MLE on Performance Based Funding Systems
- 9/12/2016-30/09/2017 Specific support to Slovenia
- 9/01/2017-30/09/2017 Specific support to Bulgaria
- 9/01/2017-31/10/2017 Peer Review of Polish Research and Innovation System
- 9/01/2017-31/12/2017 MLE on Open Science
- 9/01/2017-31/10/2017 Specific support to Latvia
- 9/01/2017-31/10/2017 Specific support to Lithuania
- 19/01/2017-31/10/2017 MLE on Innovation Procurement

2017
- 2/01/2018-31/12/2018 Specific support to Poland
- 2/01/2018-31/12/2018 Specific support to Estonia
- 2/01/2018-31/12/2018 Specific support to Latvia
- 2/01/2018-31/12/2018 Specific support to Lithuania
- 2/01/2018-31/12/2018 Specific support to Slovenia
- 2/01/2018-31/12/2018 Specific support to Bulgaria
- 2/01/2018-31/12/2018 Specific support to Romania
**Strengths**

**BUSINESS R&D INVESTMENT**
*Business R&D investment is growing as a proportion of GDP*

- 2010: 0.19
- 2014: 0.44

**FUNDING FROM ABROAD**
*More and more R&D investment comes from abroad*

- 2007: 5.1
- 2014: 9.0

**SCIENCE & ENGINEERING SKILLS**
*The availability of highly skilled human resources in the workforce represents an added value for the country*

- Lowest: 9.0
- Poland: 17.4
- EU average: 17.6
- Highest: 22.7

**TERTIARY EDUCATION**
*Above EU average for share of 30-34 year olds who have graduated from tertiary education*

- Lowest: 24.9
- EU average: 38.5
- Poland: 43.2
- Highest: 56.4

Share of new graduates (thousands aged 25-34) in science and engineering (2014)

% 30-34-year olds who have graduated from tertiary education (2015)
Challenges

QUALITY OF RESEARCH SYSTEM

Scientific quality is still far from EU standards

Scientific publications within the top 10% most cited worldwide as % of total scientific publications (2010)

INTERNATIONAL COOPERATION

The system would benefit from more openness to international collaborations

Number of international scientific co-publications per million population (2013)

Raise the quality of the public science base and nurture its international exposure
Challenges of Poland's R&I

INNOVATION LEVELS

The innovativeness of the economy still requires policy attention

SME INNOVATION

SMEs are less innovative than in EU average

More **business innovation** needed – drive economy towards more medium- and high-tech products and services

Strengthen cooperation between **academia and business**
The Peer Review

Letter of Deputy-PM and Minister of Science and Higher Education of Poland to EU Commissioner (September)

Request for **PSF Peer Review** of the Polish R&I system

Results will be **evidence for new laws on higher education and public research institutions** to be prepared by 2019

It should contribute to a **post-2020 perspective** for the restructuring of PL science and higher education system
Focus areas

Structural changes in science and higher education (research university/ HE university/ higher vocational education institutions):
   1. Eligibility criteria and evaluation of different categories’ units
   2. Cooperation with academic, economic and societal environment

Links between the HE sector and the other actors of the innovation system (research institutes, Academy of Sciences, entrepreneurs)
   1. Models and recommendations on functioning of the reformed sectors
   2. Financing pro-innovation activities in the HE sector
   3. Commercialisation of research results

Internationalisation of science and HE sector: trends, key areas for improvement
Peer Reviews - design

Building on successful experiences for R&I reforms

Key to success before the review
- Political commitment and trust
- Optimal timing in political/policy cycle
- Tailor-made to specific country needs

Key to success during the review
- Focus on key R&I policy areas (preparation important!)
- Mix of experts' and peers' skills
- Fully involve stakeholders
- Limited set of 'key' recommendations
The Team

Horizon 2020
PSF Peer Review
of Poland
2017

Independent experts
Georg Winckler (Chair)
Jaana Puukka (Rapporteur)
Jon File, Göran Melin, Lauritz B. Holm-Nielsen (Experts)

Peer experts
Göran Marklund (SE)
Christian Naczinsky (AT)
Ward Ziarko (BE)

EU Commission – RTD
Unit A4: Diana Senczyszyn

Project Management
Jacek Walendowski(Technopolis)
Methodology

Phase 1: **DESIGN and PREPARATION**
- Commitment, Design and Scope of the process, Selection of experts & peers
- Collection of background data and reports
- Engagement of all relevant stakeholders

Phase 2: **In-depth ANALYSIS and PEER REVIEW sessions**
- Background analysis
- Self-assessment by host country
- First Peer Review session- assessment
- Second Peer Review session- feedback

Phase 3: **REPORTING**
- Discussion of draft Peer Review report with national authorities of the host country
- Final report and recommendations
- Presentation to all relevant stakeholders
Roadmap

• Kick-off meeting with Polish authorities (30 January 2017)
• Preparation (background and national documents)
• Division of work
  Experts (drafting of chapters)
  Peers (input and case studies)
• 1st country visit with interviews with all relevant stakeholders
  i.e. Institutions, Academia, business, NGOs... (March 2017)
• Preparation of 1st draft report (March-May 2017)
  Key findings
  Options for the future
  Peer validation of key points
• 2nd country visit for feedback on 1st draft findings and refine
  analysis with topic-based meetings (May/June 2017)
• Report finalisation and consultations with host country
  (June-September 2017)
Outcome

Report

• Structure aligned to focus areas
• Policy messages
  - Focused
  - Well-justified
  - Political/policy relevant
• Evidence-base limited set of operational recommendations
• Case studies/ country boxes (good practice examples)
• Balance between documentation and interviews
• Neutral language

"Feedback mission" with public event and diffusion of results

Follow-up: country’s responsibility/ Post-Peer Review or Specific Support as an option