



Horizon 2020 Policy Support Facility 'PSF'

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

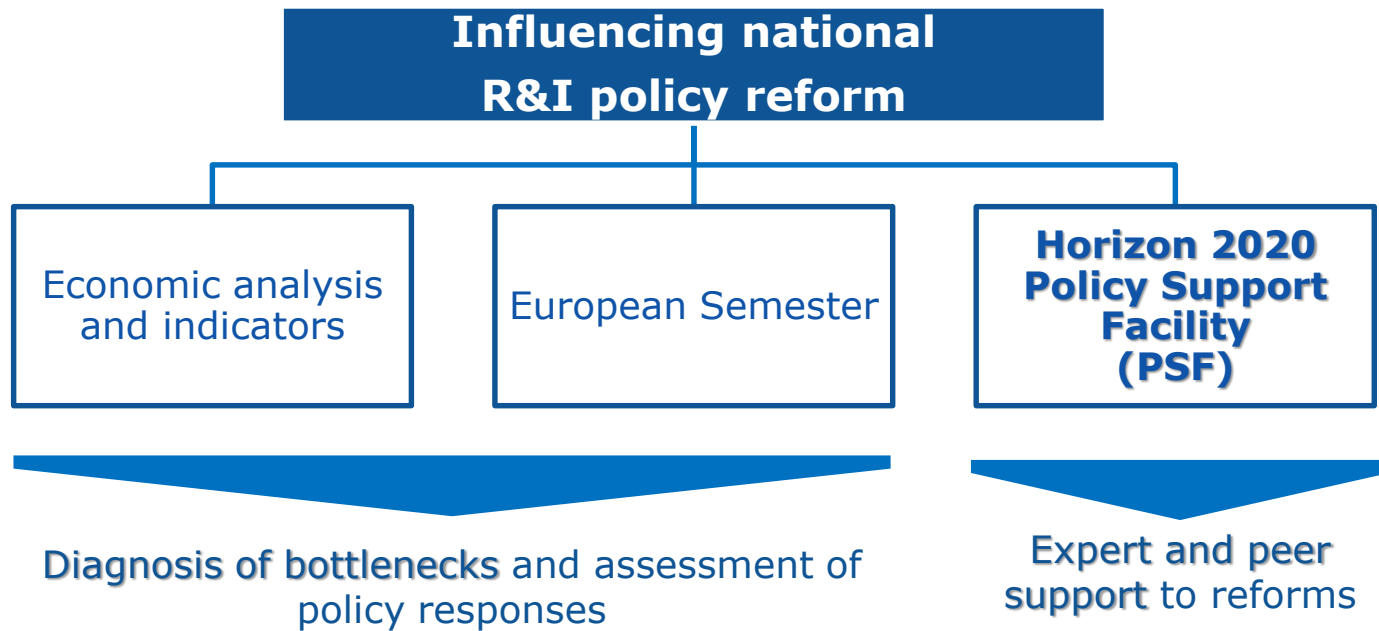
Román ARJONA – Head of Unit RTD.A4

Diana SENCZYSZYN – H2020 PSF Team Leader, RTD.A4

DG Research & Innovation
European Commission

30 January 2017

Better R&I policies need better evidence



Horizon 2020 PSF services

Peer Reviews of
National R&I Systems

Specific Support to
Countries

Mutual Learning
Exercises

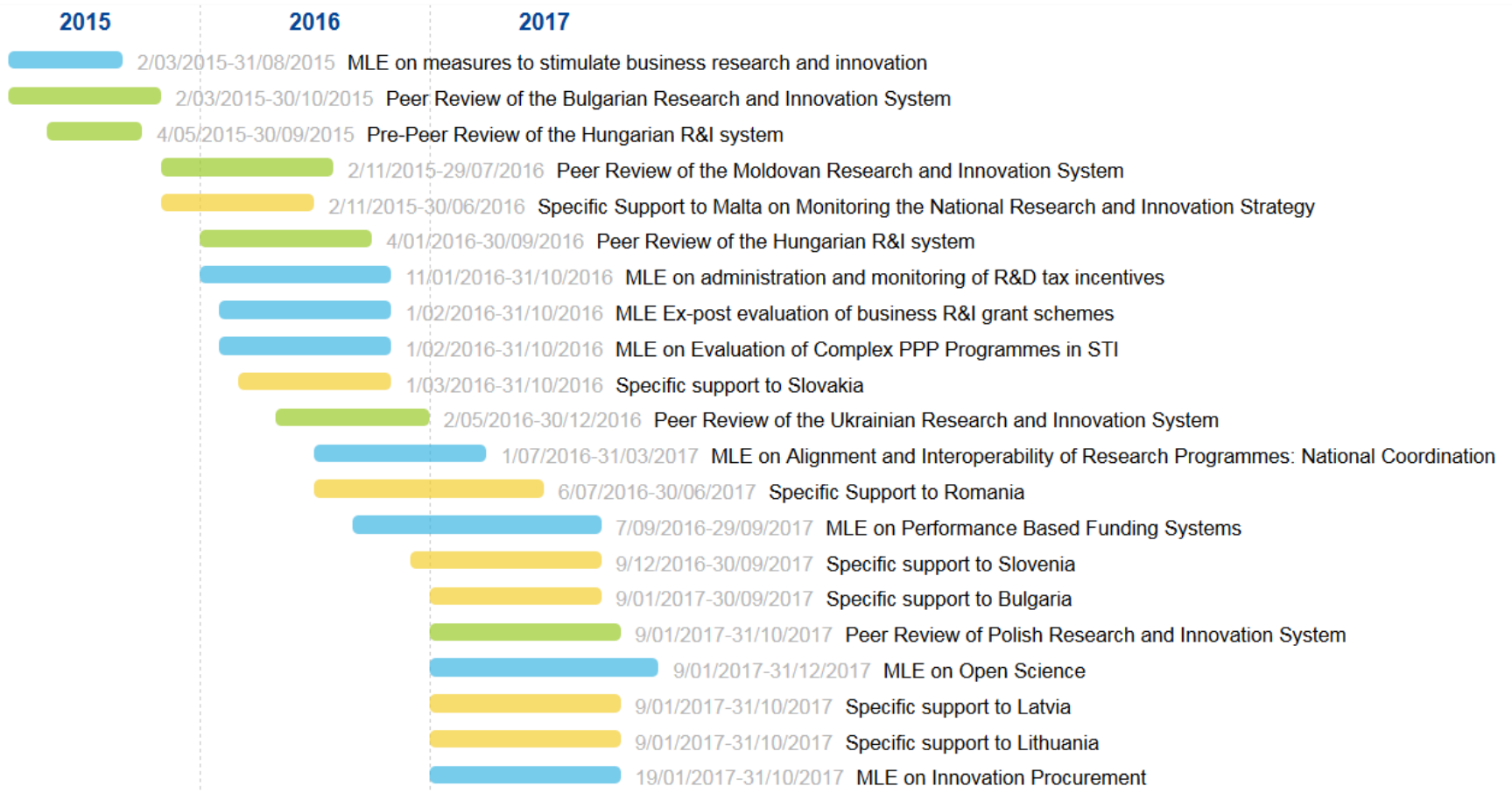
PSF Knowledge Center

<https://rio.jrc.ec.europa.eu/>



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PSF activities



Strengths

BUSINESS R&D INVESTMENT

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



*Business R&D intensity
(business R&D spending as % of GDP)*

FUNDING FROM ABROAD

More and more R&D investment comes from abroad



*Proportion of Business R&D spending
financed from abroad*

SCIENCE & ENGINEERING SKILLS

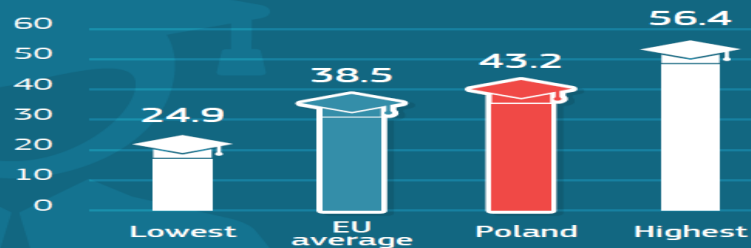
The availability of highly skilled human resources in the workforce represents an added value for the country



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

TERTIARY EDUCATION

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



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

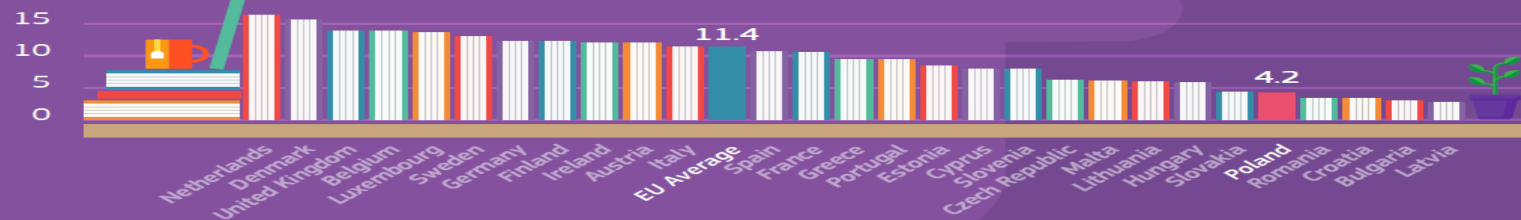


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Challenges

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



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Challenges of Poland's R&I

INNOVATION LEVELS

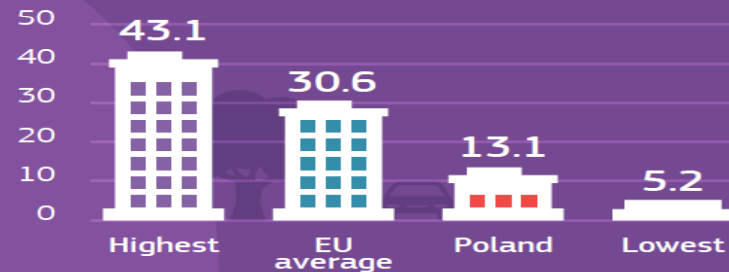
The innovativeness of the economy still requires policy attention



Value added in HT and MHT manufacturing and KI services as % of total value added (2013)

SME INNOVATION

SMEs are less innovative than in EU average



SMEs introducing product or process innovation, as % of SMEs (2012)



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

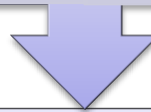
Jacek Walendowski (Technopolis)

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



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