



Energy research and innovation

Use of structural funds & smart specialization



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Cohesion Policy in Poland

- Poland is the largest beneficiary of Cohesion Policy
- Around **€ 80 billion** in total for 2014-2020 in Cohesion Policy (Cohesion Fund, ERDF, ESF)
- Partnership Agreement approved by European Commission in May 2014 (Poland in the first group of UE countries to sign PA)

R&I funded from Cohesion Policy

About € 10 bln for R&I in Poland in 2014-2020

- the highest allocation for R&I in the history !

The support for research and innovation will be divided into:

- **OP Smart Growth** (national level, **€ 8,6 bln**)
- **16 Regional OPs** (regional level, **€ 2,5 bln Euro**).
- some additional funds (for universities) from **OP Knowledge, Education and Development**

Operational Program Smart Growth (OPSG)

OPSG aims at:

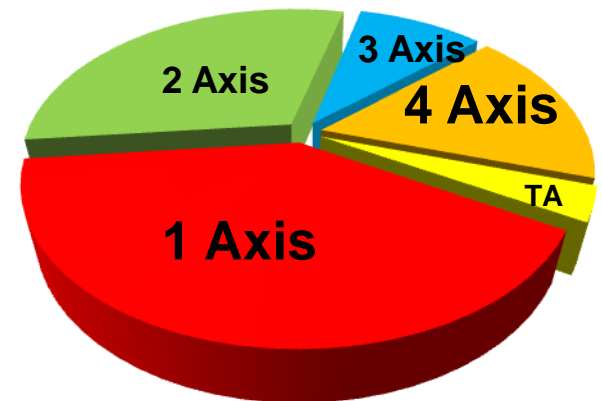
- strengthening R&D&I and cooperation between research units and enterprises
- supporting projects from idea to market

Main principles in the OPSG:

- support for projects mostly conducted by **business**; participation of **scientific entities** mainly as partners in consortia or subcontractors
- **all the activities in the programme have to be align with Smart Specialisation Strategies**
- **providing synergies with EU research programmes, e.g. Horizon 2020**

The OPSG will be implemented by:

- National Center for Research and Development (1&4 priority axis --> support for R&D)
- Ministry of Economy (2&3 priority axis --> support to implementation of innovation)



Regional Operational Programmes

ROPs aim at:

- **strengthening R&D&I and cooperation between research units and enterprises on regional level**
- develop research infrastructure crucial for economic development of the given region

Main principles in the RPOs:

- support for projects mostly conducted by **business**; participation of **scientific entities mainly as partners in consortia or subcontractors**
- **all the activities in the programme have to be align with Regional Smart Specialisation Strategies**

Demarcation line with OPSG:

- regional, not national smart specialization priorities as a framework for investment
- smaller size of investment per project
- simpler financial instruments (loans and guarantees on regional level, VC on central level)

Energy technologies in Cohesion Policy

Energy technologies in Poland will be supported at both national and regional level. At national level especially two OPs will support energy:

- **OP Smart Growth** (-> R&D&I and pilot and demo projects)
- **OP Infrastructure and Environment** (-> investment projects)

OPSG is **complementary** to OP Infrastructure and Environment

OPSG supports R&D&I in all sectors, but contributing to low-emission technologies is horizontal priority and all activities have to be aligned with S3 (clean energy is 1 of 5 priority areas)

OP Infrastructure and Environment funds investment projects contributing to transformation to sustainable and low emission economy, including **energy** (especially **RES, energy efficiency, smart grids, CHP**)

National Smart Specialisation

Strategy:

- ✓ sets out the priorities in the area of R&D&I
- ✓ the result of the development of Strategy is to identify national priorities for investment in the field of R&I policy by 2020
- ✓ open document, review and updating depending on ongoing socio-economic changes
- ✓ 19 smart specialization identified in the 5 priority areas

S3 preparation:

- ✓ based on dialogue with stakeholders – entrepreneurs, researchers and policy makers
- ✓ every priority debated within dedicated working group headed by the entrepreneur
- ✓ Documents from the working group discussed during sectoral and regional consultations



National Smart Specialisation

Energy RIS group - industry, academia, SMEs



Group's Coordinator



Lodz University of Technology





National Smart Specialisation

Sustainable Energy in 1 of 5 priority areas and includes:

- High efficiency, low-emission and integrated circuits manufacturing, storage, transmission and distribution of energy
- Smart and energy efficient construction
- Environmentally friendly transport solutions

Other priorities important to energy issues:

- Raw materials and waste management
- Innovative technologies and industrial processes (including new materials)



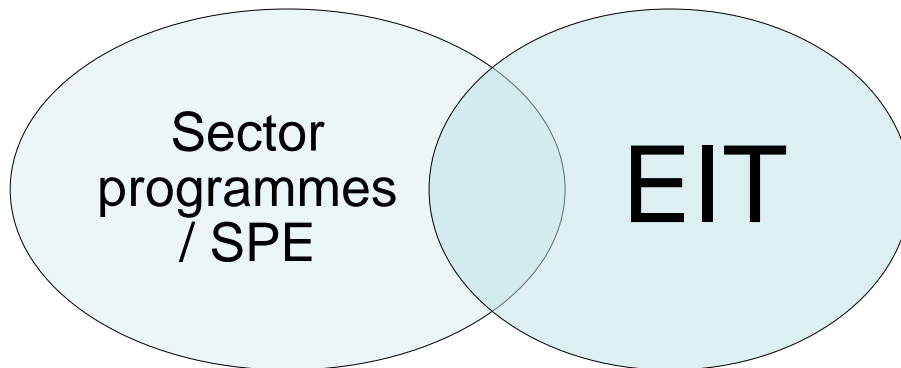
Smart synergies: H2020 - Cohesion Policy

Poland is particularly interested in actions, which could more effectively stimulate participation of Polish research teams and companies in H2020, especially the instruments of widening participation (e.g. teaming for excellence, twinning and ERA Chairs), also SME Instrument / Fast track to innovation, EIT.

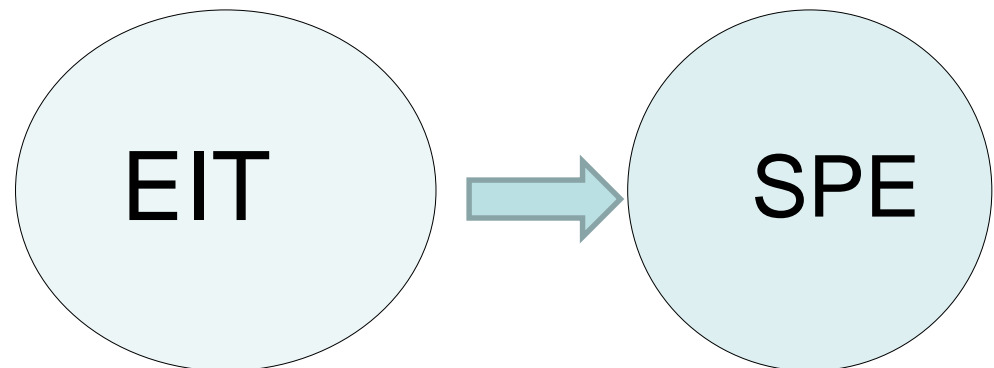
Energy is one of the main priorities, both with Operational Programmes, National Smart Specializations and National Research Programme.

Examples of synergy instruments in OPSG

- **Sector programmes or Strategic Programmes for Economy** under OPSG → complementary to **EIT**, e.g. **KIC InnoEnergy** (1 of 6 co-location centres in Cracow - Clean Coal CC).



Parallel projects that complement each other



Successive projects that build other



European Fund for Strategic Investment (EFSI)

- **Energy projects on Polish priority map for EFSI investment**
- **Two lines of investment – generation and distribution infrastructure and R&D projects**
- **First investment platforms to be created in October**
- **Coordination with EFSI crucial!**

**Example of a R&D investment in Poland financed by UE structural funds
(budget perspective 2007-2013)**



- Investment costs 162M PLN (input from EU funds 38M euro)

- 9th m2 of floor space

- 3 specialized, modern laboratories in Katowice + laboratory in Zabrze and the experimental mine in Mikołow

- Opened in May 2013

Conclusions

Smart investment:

- enable **combining different funding streams (ESIF and H2020)**.
- **support especially energy technologies (low emission technologies)** are one of main **priorities** in OPs)

However, we have to **wait for launch of more projects in OPs to gain first experience and practices to see how synergy works**.
First projects in OPSG have just started in summer 2015.



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Thank you for your attention

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