



Innovative Industrial Development & Environment

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**Existing sources of growth (cheap labor, etc.) are running out
-> we have to focus on building sustainable competitive
advantage based on R&D and innovation**

Key drivers of constant and fast economic growth:

- **maximizing efficient use of resources** (knowledge, capital, labor, natural resources and raw materials)
- **growth of innovativeness** understood as the business ability and motivation to improve the existing and future technologies, ideas and inventions related to the improvement and creation of products and changes in the organization and management



Strategy for Innovativeness and Effectiveness of the Economy



**Enterprise Development Programme + National Programme for
Development of Low-Emission Economy**

- **Implementation programme to the Strategy**

Conceptual work on the Programme was based on:

- **evaluation of the existing** instruments
- **design of new** instruments
- analysis of the **best international** practises
- cooperation with the **World Bank**
- cooperation with the **socio-economic partners**



Main rules of the new innovation support system



- whole innovation **cycle**
- all business development **stages**
- **direct support** for R&D, prototype, demonstration line, R&D implementation
- **financial engineering** for technology absorption
- tailor-made **trainings**
- new approach to **project evaluation**
- **smart specialization**

National Programme for Development of Low-Emission Economy



NATIONAL PROGRAMME
FOR DEVELOPMENT
OF LOW-EMISSION ECONOMY

- **Perspective:** 2050
- **Bottom-up** approach: identification and comparison of various spheres of human activity
- **Sustainable development:** priority given to those that, while reducing emissions, stimulate economic growth
- **Development and use of low-emission technologies**
(1 out of 6 specific targets)

Target: Development and use of low-emission technologies

- Technologies must be **realistically implementable**
- particular significance of the **Clean Coal Technologies**

Measured by:

- **efficiency of R&D** expenditure
(R&D expenses/ estimated financial effect of lower CO₂ emissions thanks to the technology)
- number of **implemented** low-emission technologies
- number of **commercialised** low-emission technologies

7 Towards green technologies



The National Programme in **facebook**

- **Bottom-up** approach: implies the need to identify many spheres of activity and thus involve as many people as possible

- **Best ideas** – assessed (by Facebook friends and experts) and rewarded



**NATIONAL PROGRAMME
FOR DEVELOPMENT
OF LOW-EMISSION ECONOMY**


- **Educational aspects**

- <http://pl-pl.facebook.com/Niskoemisyjna>



INSight 2030
FORE_SIGHT
technologiczny przemysłu

The goal of the analysis was to identify industry areas of biggest added value for further socio-economic development of Poland and key technologies that determine this development, as well as competitiveness of Polish industry including technologies in which Poland could be commercially successful in global market



Technology foresight for Polish industry – InSight2030 – methodology & governance



Methodology:

- ✓ First horizontal foresight project related to industry issues
- ✓ Desk research
- ✓ Scanning of the existing regional & sectoral foresight projects
- ✓ Cross-sectoral analysis
 - ✓ Delphi rounds
 - ✓ Expert panels

Governance:

- ✓ Steering committee
- ✓ Research areas
- ✓ Thematic panels

Outputs

Final report

Technology roadmaps

Technology geomapping

Recommendations

10 horizontal areas – InSight2030

Cogeneration &
rationalization of
energy utilization



Innovative technologies of
acquiring natural resources

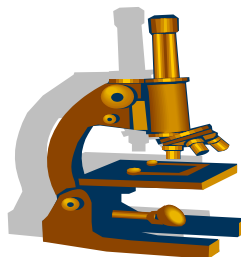
Green economy



Advanced materials
& production
systems



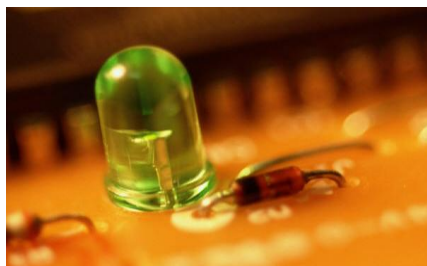
Photonics



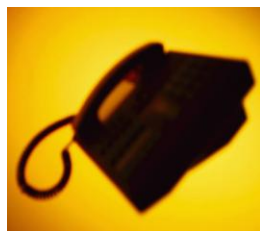
Nanotechnology



Microelectronics



Information
technologies and
telecommunication



Healthy society



Industrial
biotechnology



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