

Using corporate foresight effectively - a case study from Poland



Surface engineering



Mechatronics



Environmental technologies



Innovation and knowledge transfer



Control systems



Tribology



Textile technologies



Systems research



Information technologies



Prototype and experimental production



Vocational education and training



Publishing

Presentation agenda

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1. Foresight in
Poland – an
overview



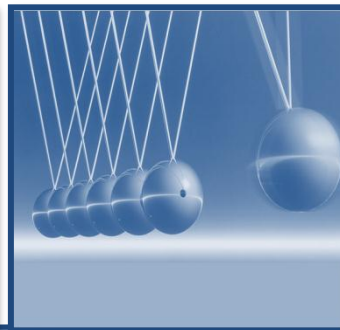
2. Corporate
foresight
process at
ITeE – PIB



4. Methodology
modification
for the current
ITeE-PIB foresight

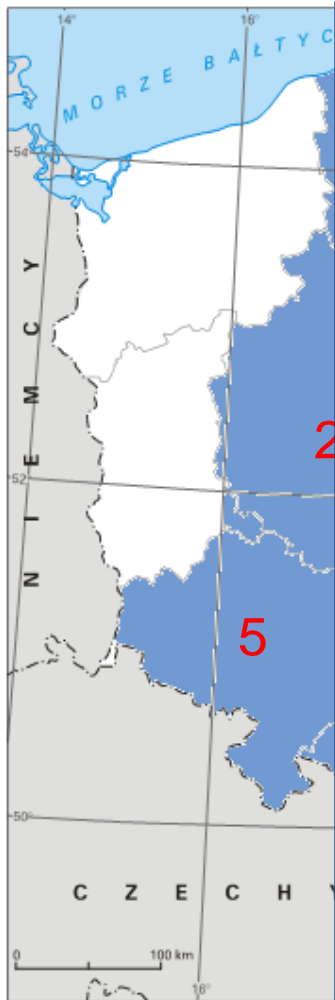


3. The use of
ITeE – PIB
foresight
results



1. Foresight in Poland

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1969 - onwards
"100 Plus" Forecast
Polish Academy of
Sciences

Project

2006 – 2008
National Foresight
the "Poland 2020"

Regional
S

2011 – 2013
Sectoral & regional
foresight projects

2. Corporate foresight process at ITeE – PIB



2009 – 2010
1st iteration
Methodology developed
Process executed
Results achieved

Lessons learned

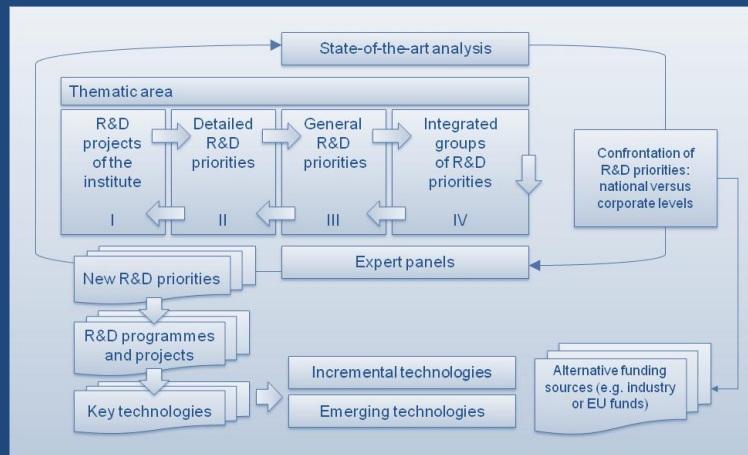
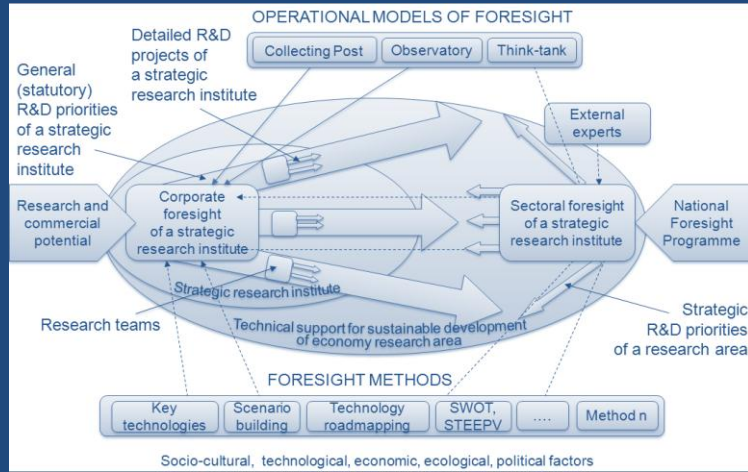
2011 – 2012
2nd iteration
Methodology updated
IT expert system developed & tested

Methodology will be verified

2013 –
3rd iteration
Current foresight process focused on technological and environmental safety



2. Corporate foresight process at ITeE – PIB



- SWOT
- Workshops
- Brainstorming
- Benchmarking
- Key technologies
- Technology roadmapping
- Questionnaire survey
- Structural analysis
- Scenario building
- Expert panels
- STEEP

Methods - qualitative

Experts – internal & external



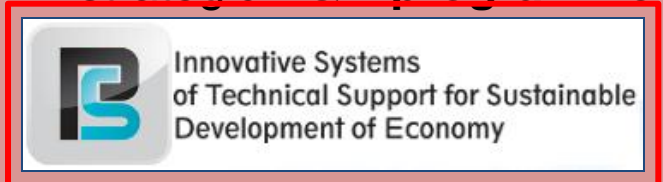
R&D priorities and technologies in **five** research areas



Sustainable Development

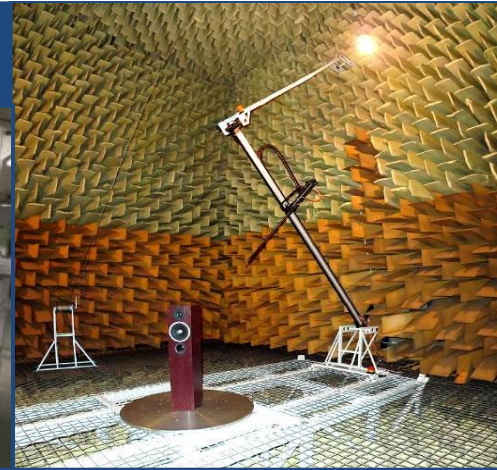


A strategic R&D programme



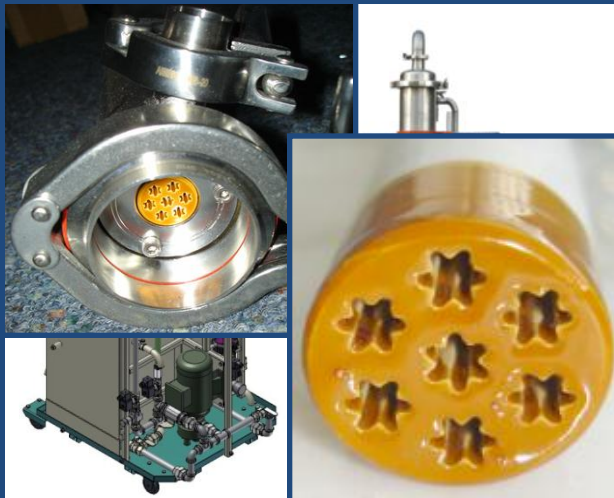
3. The use of ITeE – PIB foresight results (Strategic R&D Programme)

Technological line for RFID tags implementation



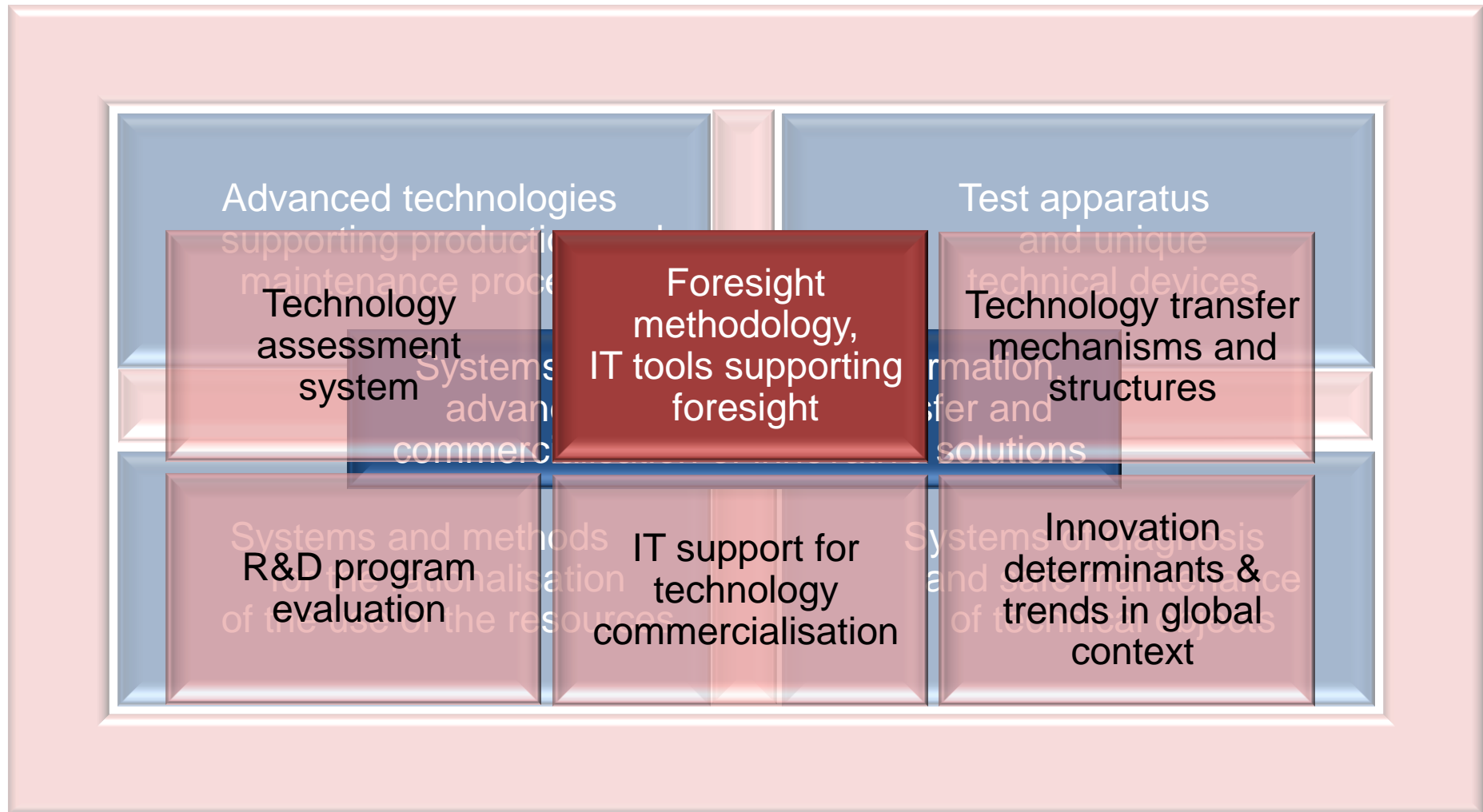
Manipulator for the positioning of the measuring microphone in the anechoic chamber

Device for the regeneration of aqueous technological fluids

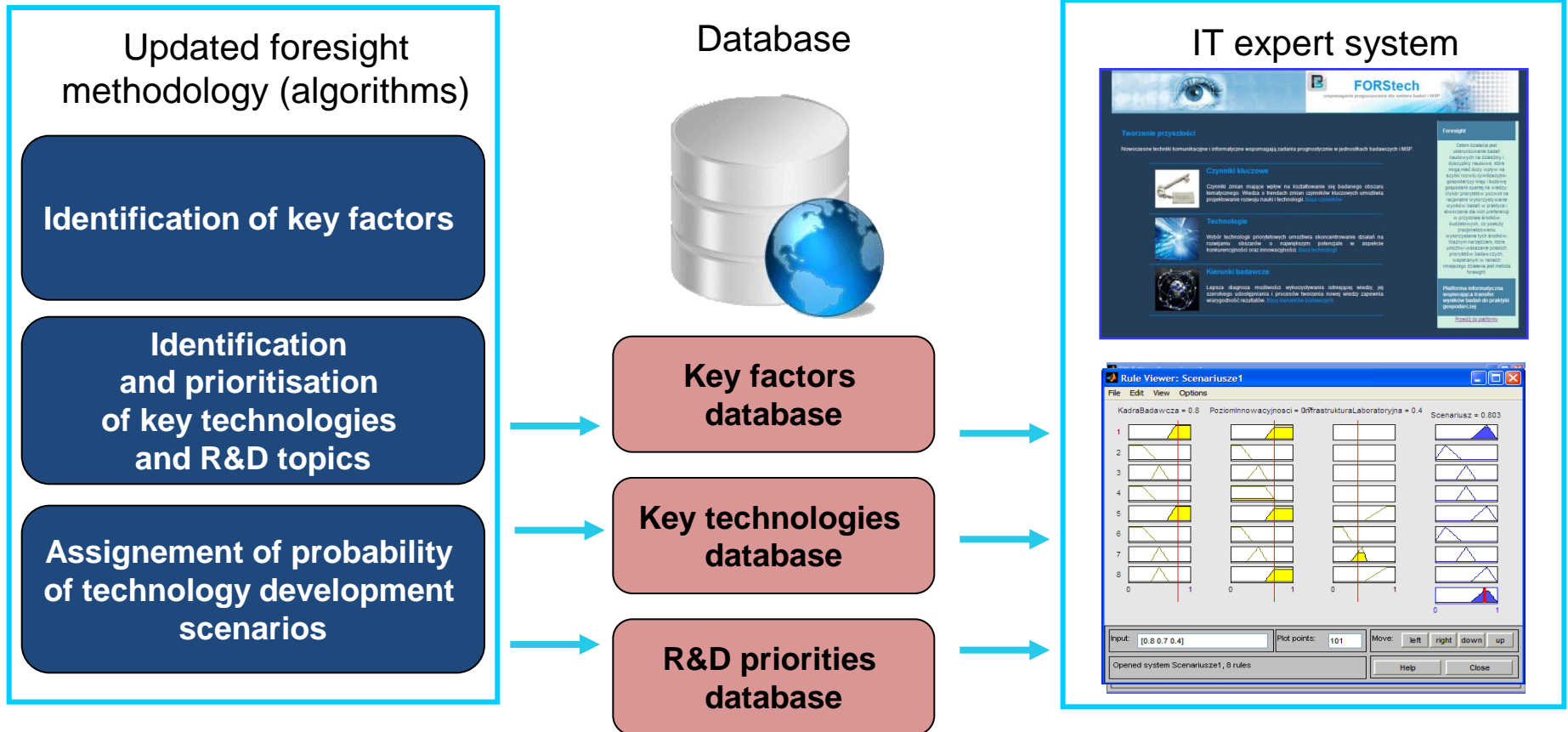


Pneumatic gun for impact tests in aviation

3. The use of ITeE – PIB foresight results (Strategic R&D Programme)



4. Methodology modification for the current ITeE-PIB foresight



4. Methodology modification for the current ITeE-PIB foresight



Aim

Development of R&D strategy for 2015-2020

Experts

More experts from (local/regional) companies

Methods

Probability theory,
Dempster-Shafer theory, fuzzy logic
Intellectual potential analysis
Patent analysis
Bibliometrics
Wild cards, weak signals, global challenges

Tools

IT expert system
iLAB Innovation Laboratory + software



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