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of Education
and Research

iDEAS
INNOVATION
PROSPERITY
The High-Tech Strategy for Germany

The German Perspective on Innovation Policy

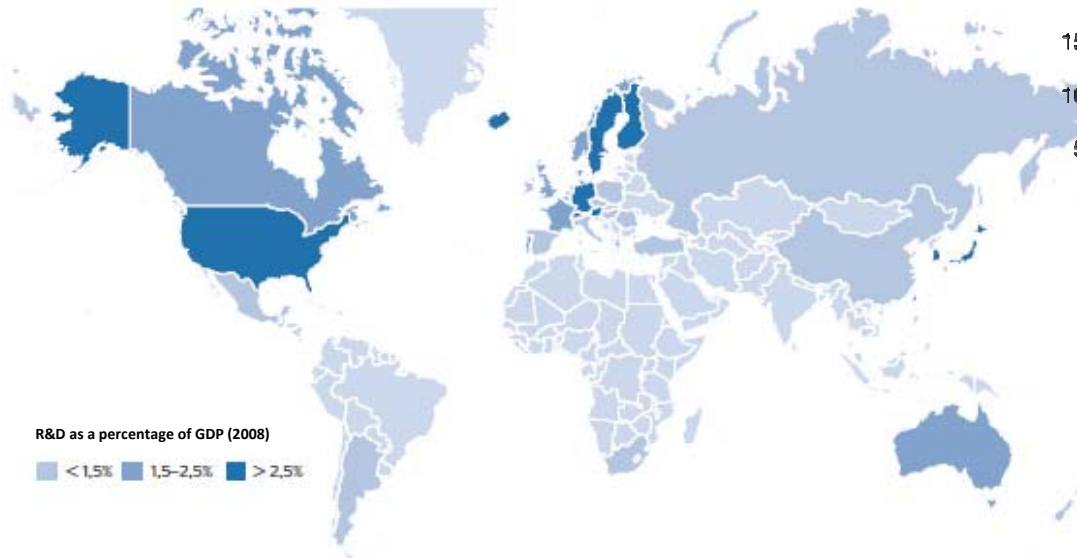
Engelbert Beyer

Head of Directorate - Innovation Strategies
Federal Ministry of Education and Research

Euro-CASE Annual Conference
Berlin – December 2, 2010

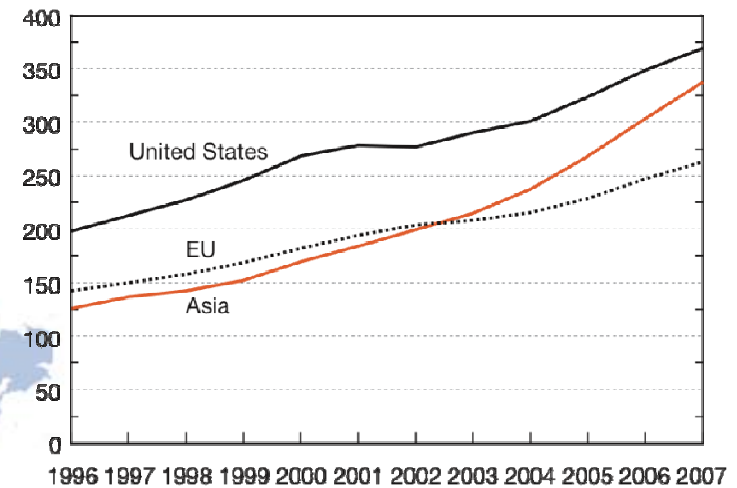


1 - Challenges for Europe



R&D expenditure 1996-2007

Dollars (billions)

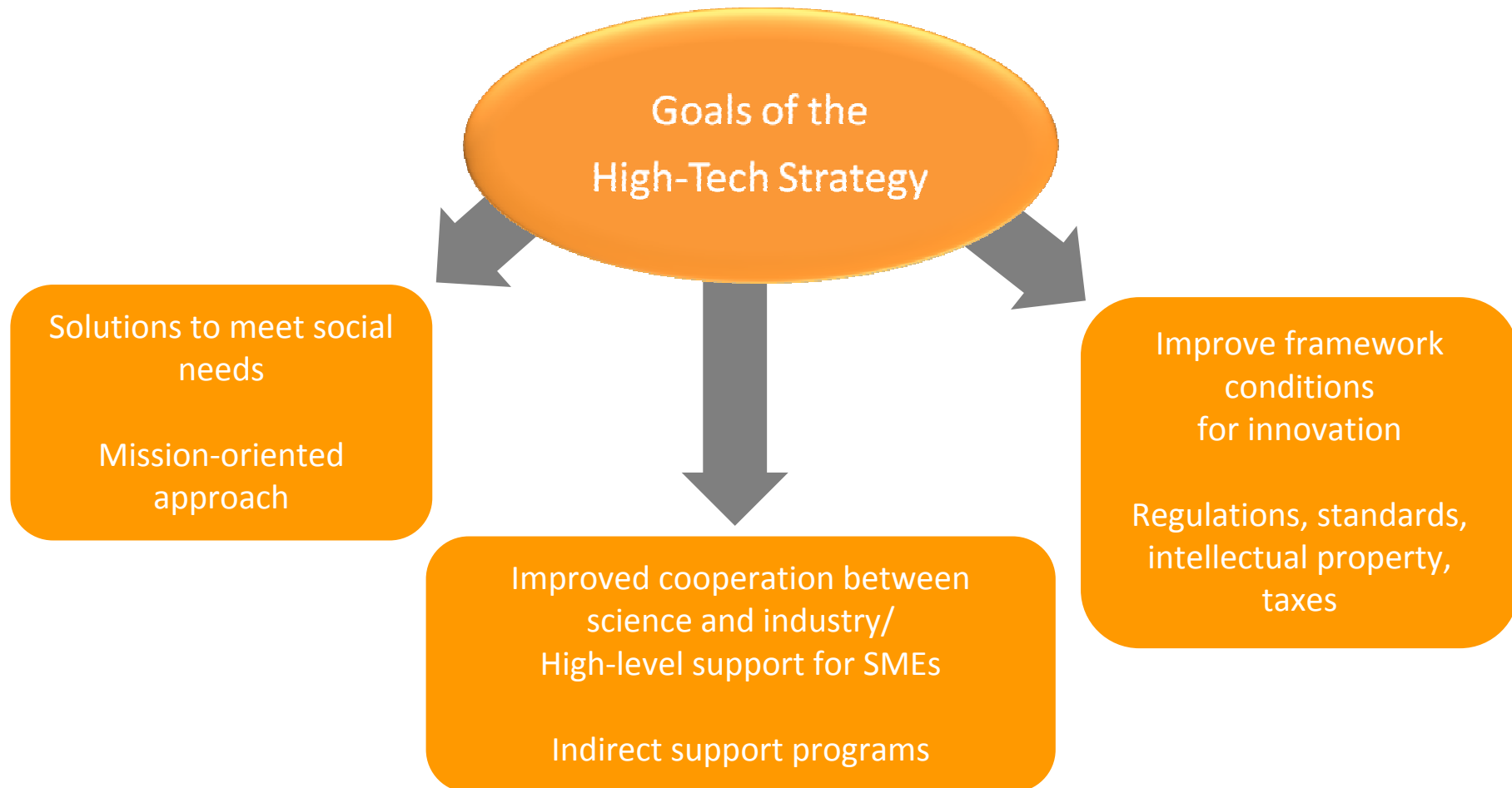


EU = European Union

NOTES: Asia includes China, India, Japan, Malaysia, Singapore, South Korea, Taiwan, and Thailand. EU includes all 27 member states.



2 - Innovation strategy goals





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3 - Fields of action

Global challenges → 5 fields of action

Climate
Energy

Health
Nutrition

Mobility

Security

Communi-
cation

Key technologies

Interdisciplinary issues/framework conditions



4 - Forward-looking projects of the High-Tech Strategy

For the fields of action ...

- Climate/Energy
- Health/Nutrition
- Mobility
- Security
- Communication

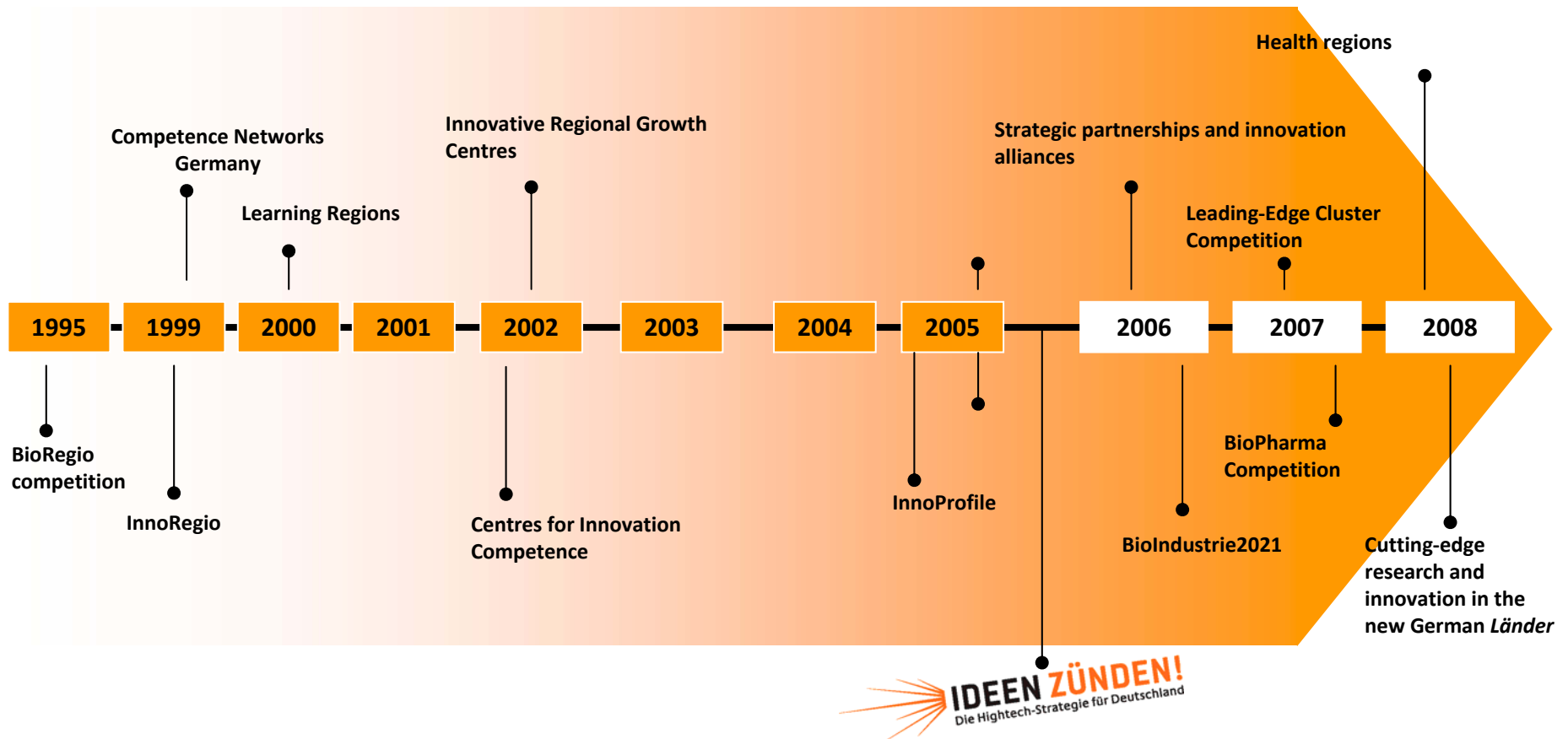
... Forward-looking projects

- are being developed by groups of promoters,
- roadmaps drawn up for their implementation,
- drivers of and obstacles to innovation identified,
- research tasks designated and
- need for action formulated.





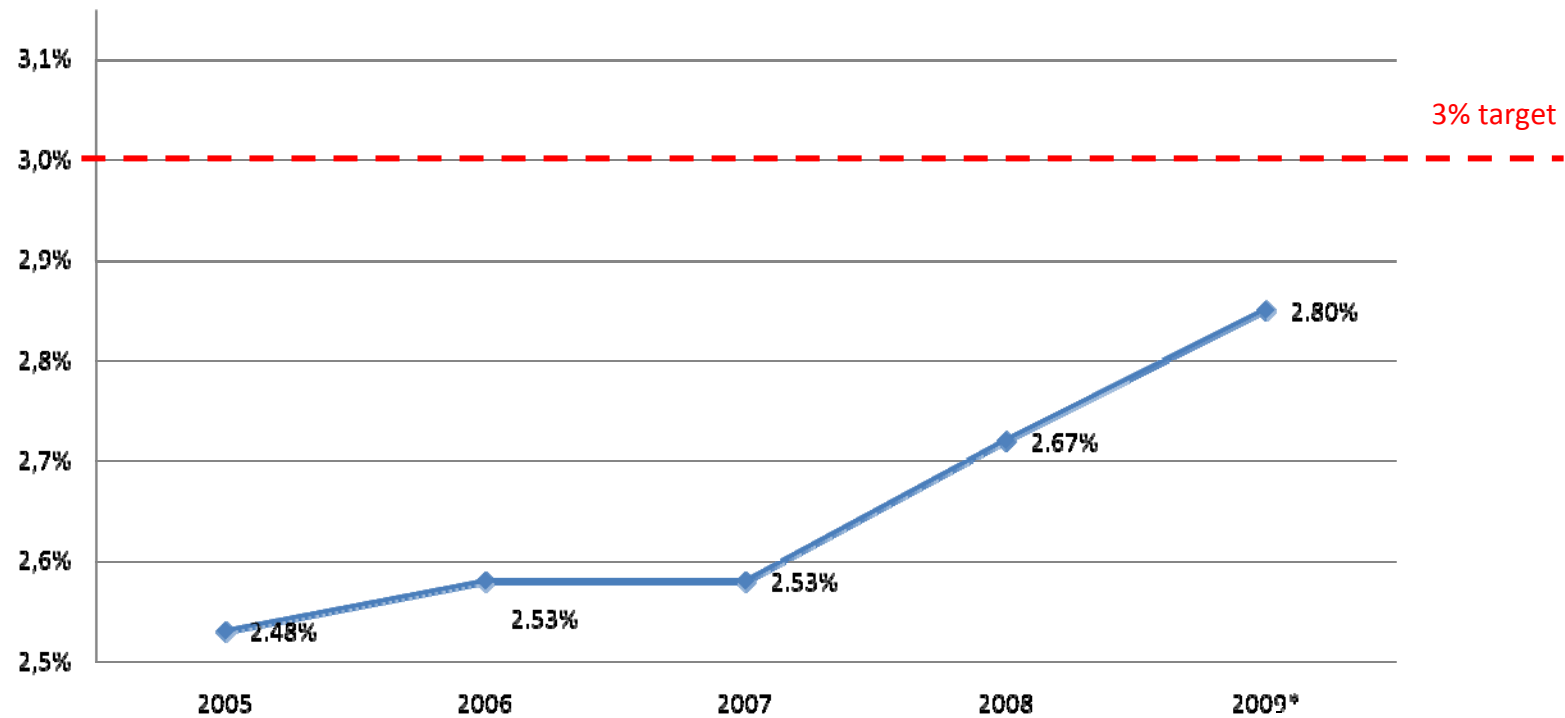
5 - Support of clusters in Germany





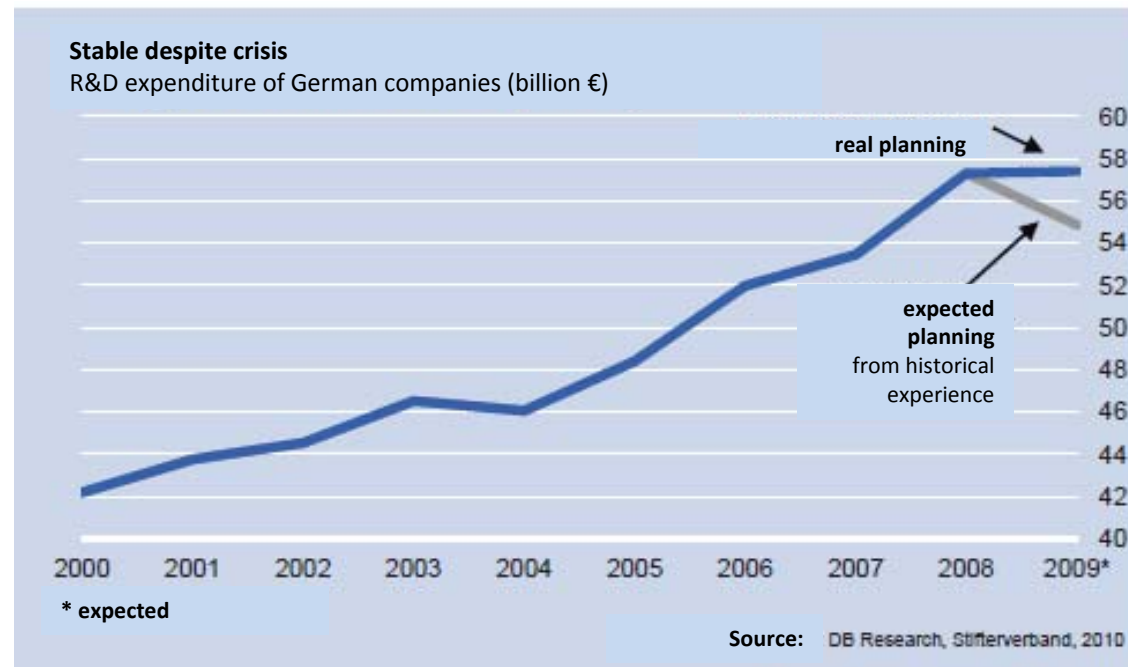
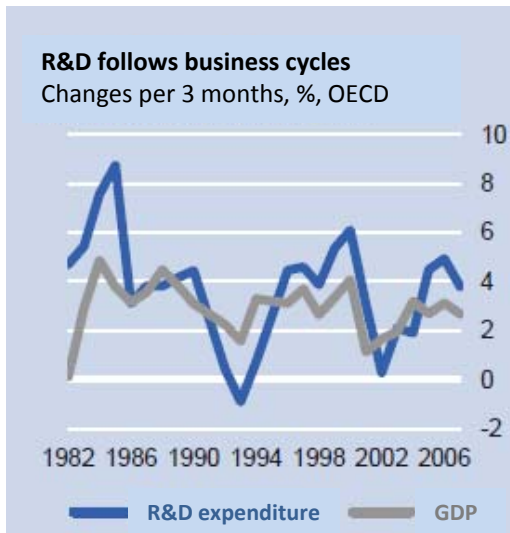
6 - Importance of investment in R&D

R&D as a percentage of GDP (2009 – first forecast)





7 - The current economic crisis





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8 – Innovation Dialog

- “Innovations Dialogue” between the Federal Government (three members), industry and science (15 members)
- Observing new developments, findings and trends in the innovation cycle
- Using existing competence networks
- Intensifying the exchange on questions of innovation and technology policy
- Strengthening Germany as an industrial centre

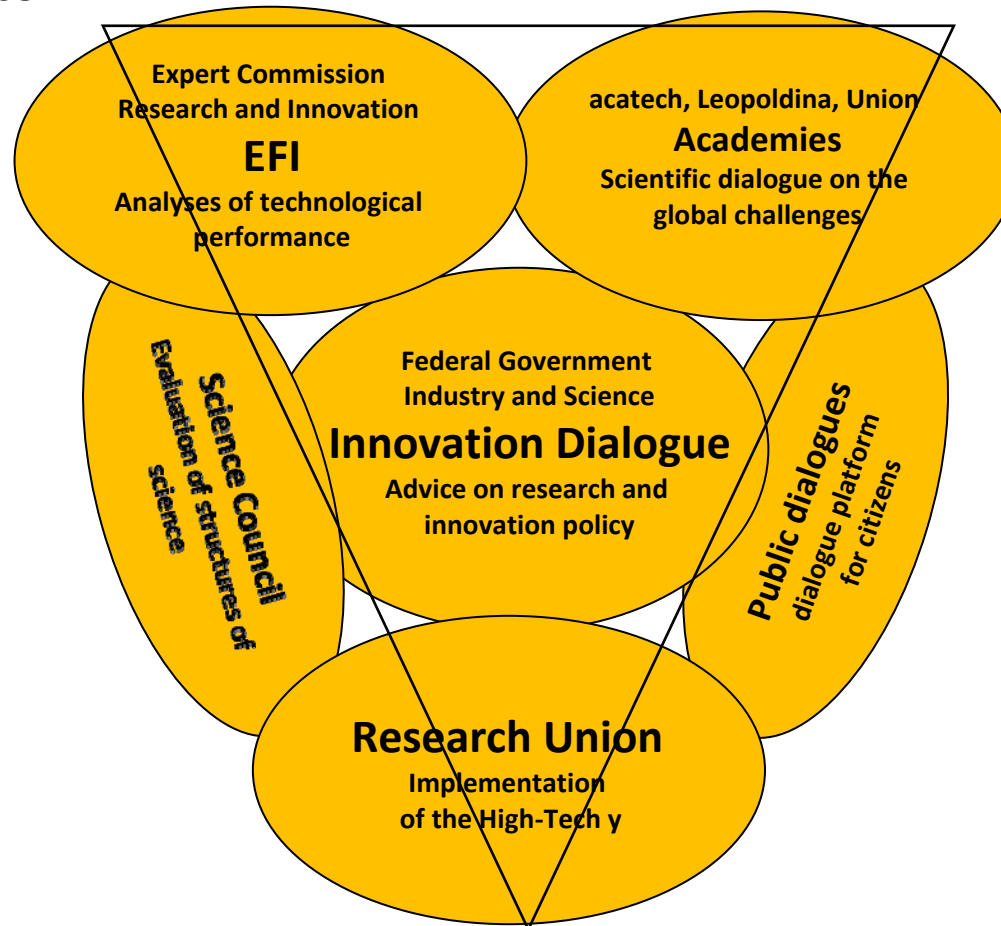
- Chair: Prof. Dr. Henning Kagermann ,
President of acatech – German Academy of Science and Engineering
- Office:  acatech DEUTSCHE AKADEMIE DER
TECHNIKWISSENSCHAFTEN



9 -Policy advice on science, research and innovation

Analyse

Dialog



Implementation



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10 - Expert Commission on Research and Innovation

- Independent expert body
- Scientific policy guidance
- Regular reports on Germany's research, innovation and technological performance
- Proposals for optimizing national research and innovation policy
- Made up of leading, internationally renowned scientists.



<http://www.e-fi.de>



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11 - Industry-Science Research Alliance

- Body advising the Federal Minister of Research on innovation policy
- Implementation and expansion of the High-Tech Strategy
- Increasingly active in the societal dialogue
- Identifies drivers of innovation, obstacles to innovation and relevant cross-sectional issues
- Formulates research tasks and identifies the need for action
- Members from industry and science
- New configuration met for the first time on 25 February 2010

FORSCHUNGSUNION
WIRTSCHAFT -
WISSENSCHAFT

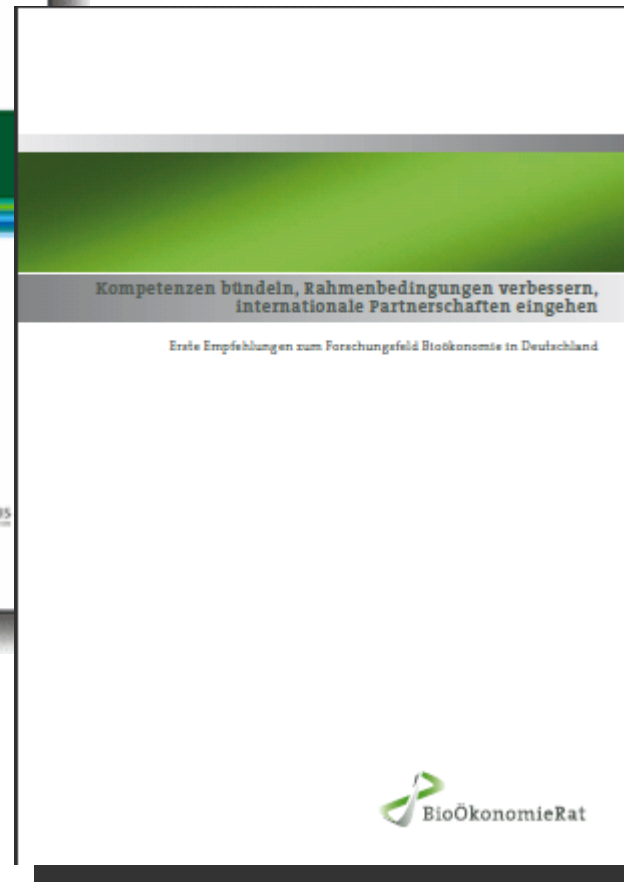


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12 - Examples of key reports of German academies



Example **Demographic Change**



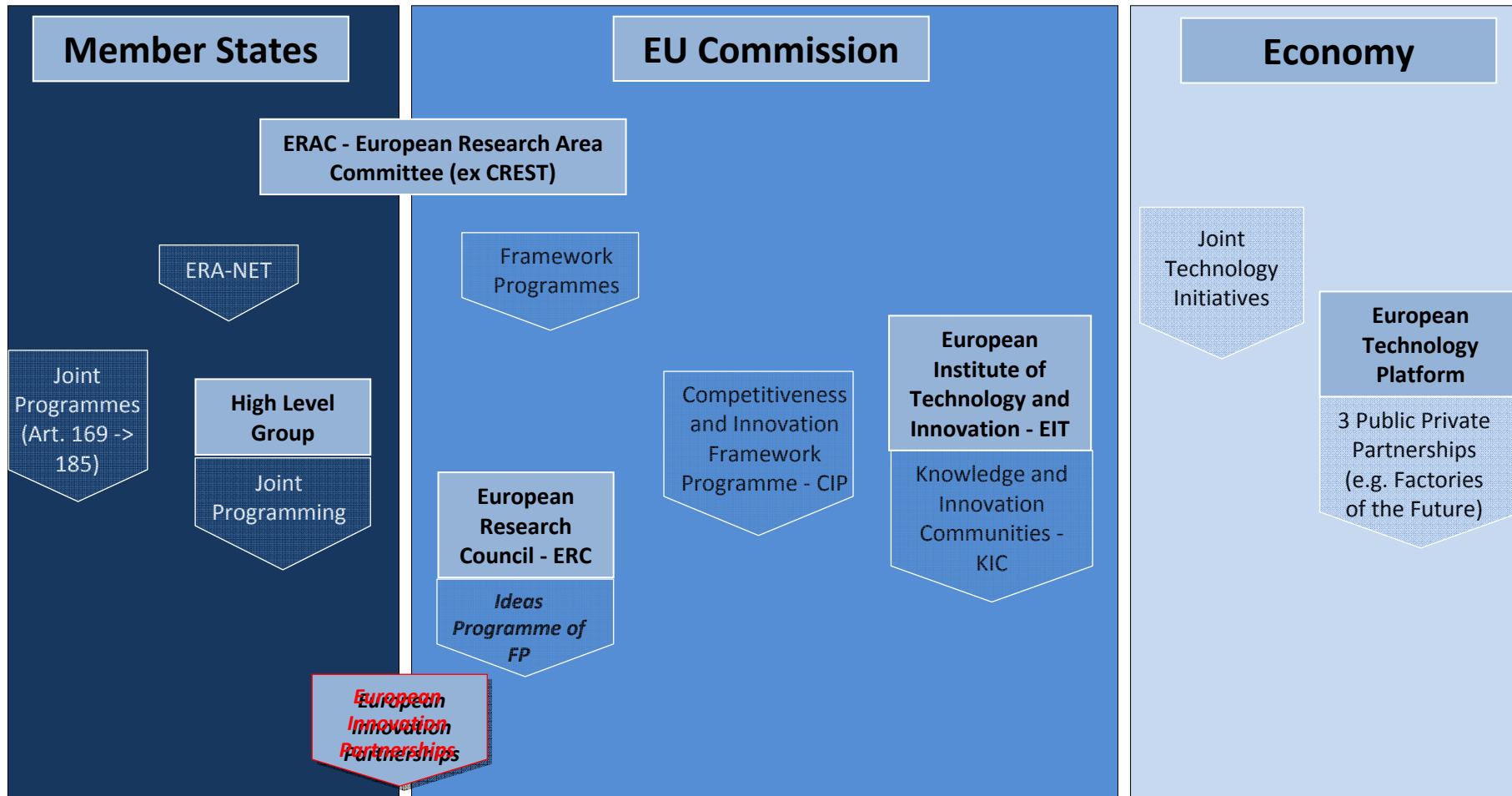
Example **Bio Economy**



Example **Energy Research**



13 - New structures for cooperation with the Innovation Union





Thank you for your attention

Engelbert Beyer

Head of Directorate 11, Innovation Strategies

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For more detailed information, see:

- BMBF: Ideas. Innovation. Prosperity. – High-Tech Strategy 2020 for Germany
- BMBF: Federal Report on Research and Innovation 2010
- Commission of Experts for Research and Innovation (EFI): Research, Innovation and Technological Performance in Germany - Report 2010
- European Commission: INNO-Policy TrendChart – Innovation Policy Progress Report Germany (2009)