

TURNOVER AND OUTPUT MEASUREMENT FOR R&D ACTIVITIES IN GERMANY

„25th Voorburg Meeting“
in Vienna 20th to 24th September 2010

Agenda

- 1. Definition of R&D activities**
- 2. R&D activities in Structural Business Statistics**
- 3. Market conditions**
- 4. Evaluation of standard definitions and market condition**

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R&D activities in Germany

- **Main characteristic is further development**
- **WZ 2008: No further breakdown on the 5-digit-level**
- **Three types of institutions operate in R&D activities**
 - **Government and universities**
 - **Private non-profit institutions**
 - **Businesses**

R&D conducted by businesses

External R&D

- R&D as main economic activity
- Research projects/studies not for own use
- Market service

Internal R&D

- Main economic activity different from R&D
- Predominately industrial sector
- Research projects/studies for own use
- Non-market service

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Method of data collection

- 15% sample survey covering a wide range of services industries
- Observation unit is „enterprise“
- Output is measured in terms of turnover
- Results are broken down by economic activity only
- Results are available since reference period 2001

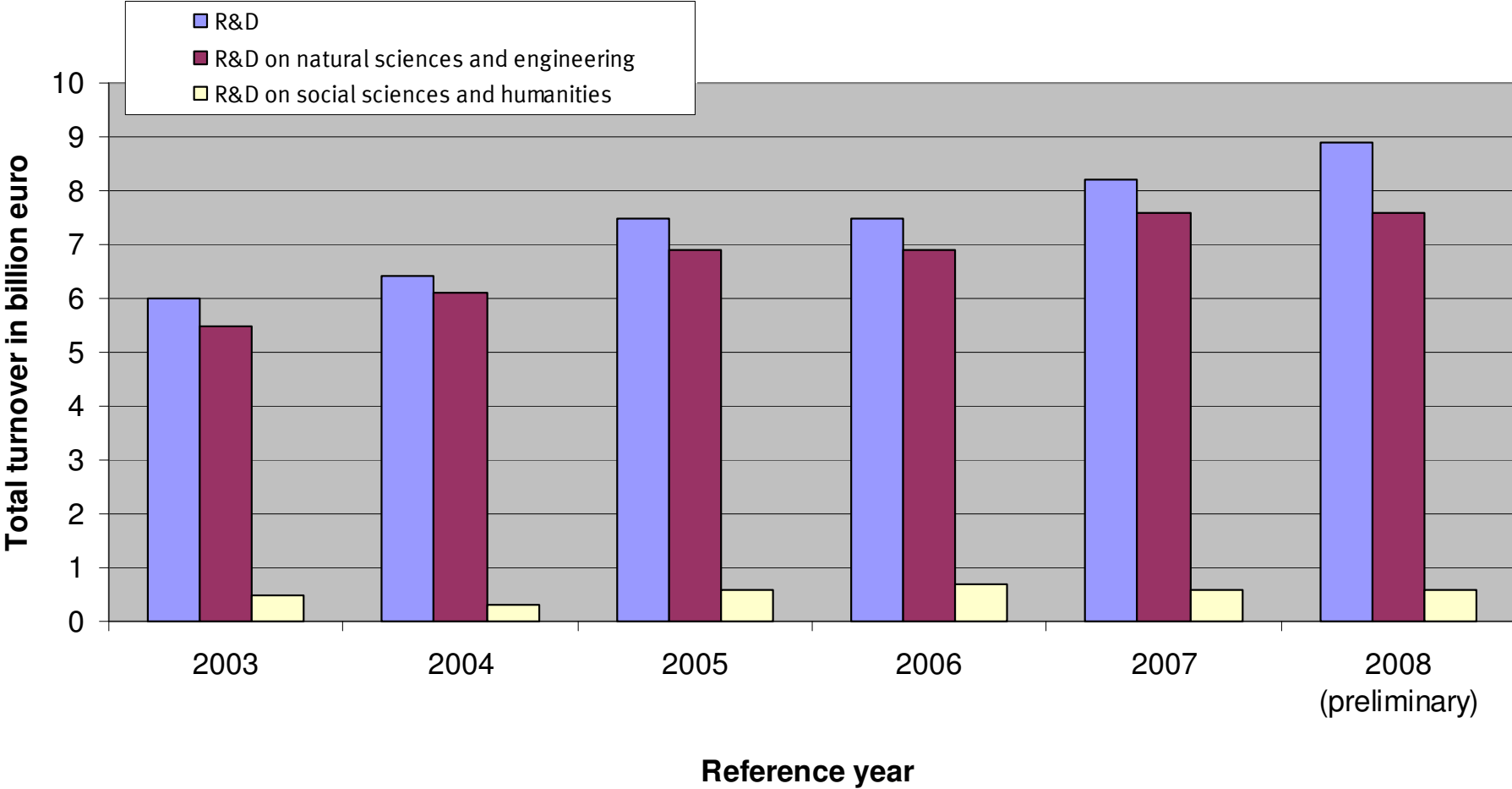
SBS about R&D

- SBS captures the output of all enterprises whose main economic activity is R&D
- Sample size 36.9% of all R&D enterprises
- SBS results point the characteristics of R&D activities up

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Turnover in R&D activities



Importance of subsidies

NACE Rev. 2	Total receipts in million euro (preliminary)	Thereof subsidies in %
Professional, scientific and technical activities	202.8	0.9
Legal & accounting activities	41.6	0.0
Activities of head offices; management consultancy activities	67.5	0.1
Architectural & engineering activities; technical testing & analysis	49.7	0.1
Research & development	9.5	18.2
Advertising & market research	23.6	0.0
Other professional, scientific & technical activities	10.9	0.1

Output in relation to expenditures

NACE Rev. 2	Total turnover in million euro (preliminary)	Share of expenditures of total turnover in %
Professional, scientific and technical activities	190.2	82.7
Legal & accounting activities	40.6	65.8
Activities of head offices; management consultancy activities	58.9	95.2
Architectural & engineering activities; technical testing & analysis	48.4	81.0
Research & development	8.9	118.7
Advertising & market research	22.9	78.8
Other professional, scientific & technical activities	10.5	63.8

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Outside the scope of SBS

- **Huge part of R&D is conducted by institutions not covered by SBS of services industries**
 - Internal R&D
 - Government, private non-profit institutions not exercising an economic activity

- **Measurement of output in terms of turnover is not straight forward**
 - Only market services directly cause turnover
 - R&D without success
 - Basic research

THANK YOU FOR YOUR ATTENTION

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