



EU R&D INVESTMENT SCOREBOARD

Some discussion points

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Presentation and use of EURDSB indicators

- Methodology and limitations fairly well explained...
 - ... for those wishing to find out and understand... up to a point...
 - ... and prone to misuse...
- Issues
 - Examples from own personal experience – what policy questions answered with these data?
 - Information contained in *official* press release and ESTAT site
 - Publish as statistical data?
 - Implications for statisticians' activities
 - Choice of N for top N companies – why does it change?
- Presentation specifics
 - Use of BERD indicators as benchmarks for SB ?
 - What is Health BERD? = is it Pharma + Med.Instruments?
 - Potentially true statements, but not necessarily evidenced by the data:
 - “The EU has fewer young leading innovators than the US”
- Helps meet demand for open firm-level information
 - Particularly useful for micro-level analysis
 - Would welcome increased focus on analysing the heterogeneity



What is reported?

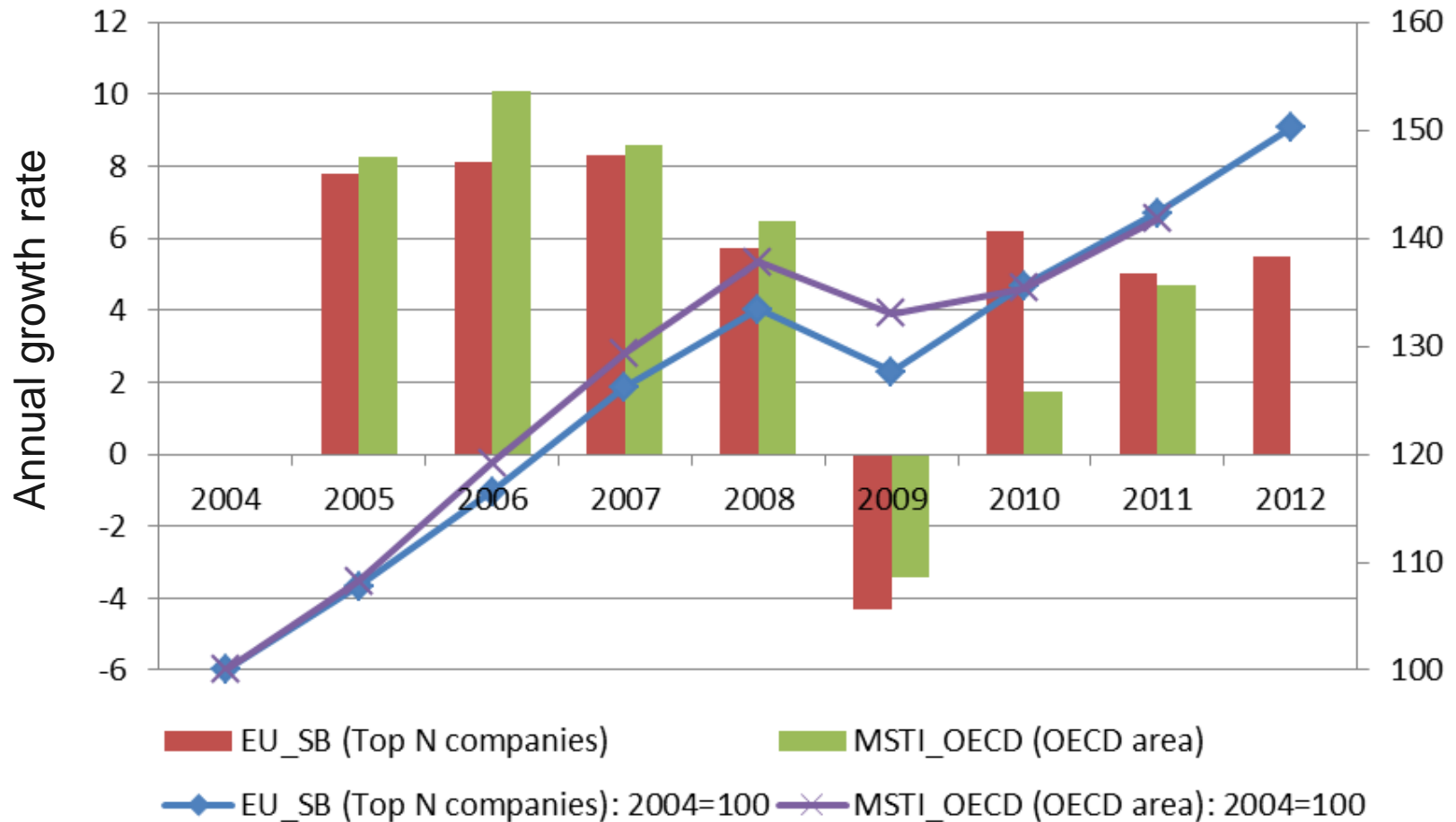
- Derivation of worldwide R&D performance from corrected R&D expense data

BRDIS survey year	Worldwide R&D expense (\$millions)	Not R&D (\$millions)	R&D paid for by company (\$millions)	R&D paid to others (\$millions)	Worldwide R&D performance (\$millions)
2009	333,657	23,070	312,444	36,259	276,185
2010	353,803	41,878	316,201	39,130	277,071
2011	364,641	25,489	341,335	37,529	303,806

- For years 2009-2011, ~**8.6%** of reported worldwide R&D expenses was not R&D according to Frascati statistical guidelines
- For years 2009-2011, ~**11.6%** of derived worldwide R&D expenses was not intramural R&D performance
- Final gap with BERD compensated in part by adding R&D paid for by others...



General trends: *2013 EURDSB panel vs MSTI*



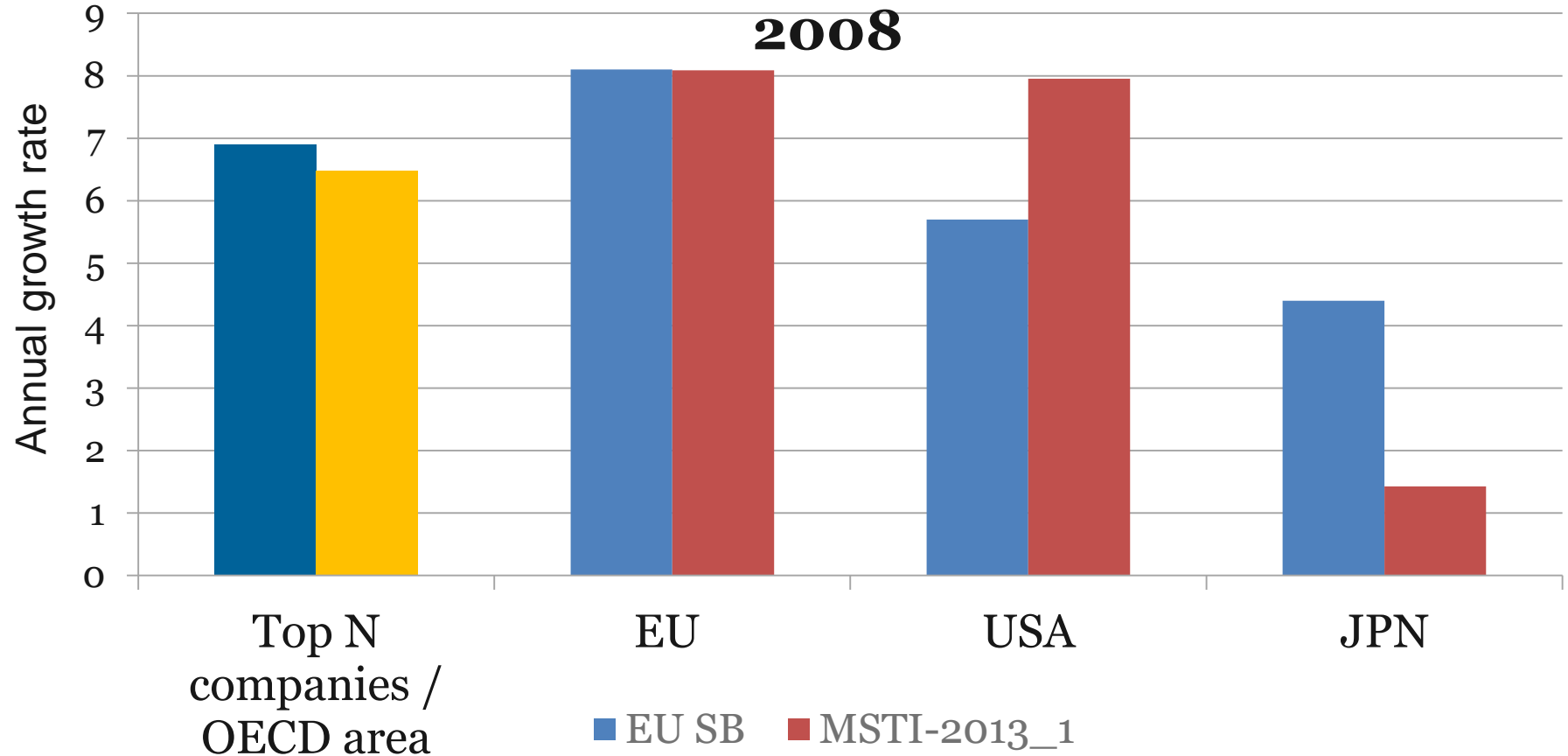
Source : OECD calculations based on EU R&D Scoreboard (~1470 companies with full series within top 2000 in 2013) and OECD Main Science and Technology Indicators.



Country-level trends:

Crisis building up...

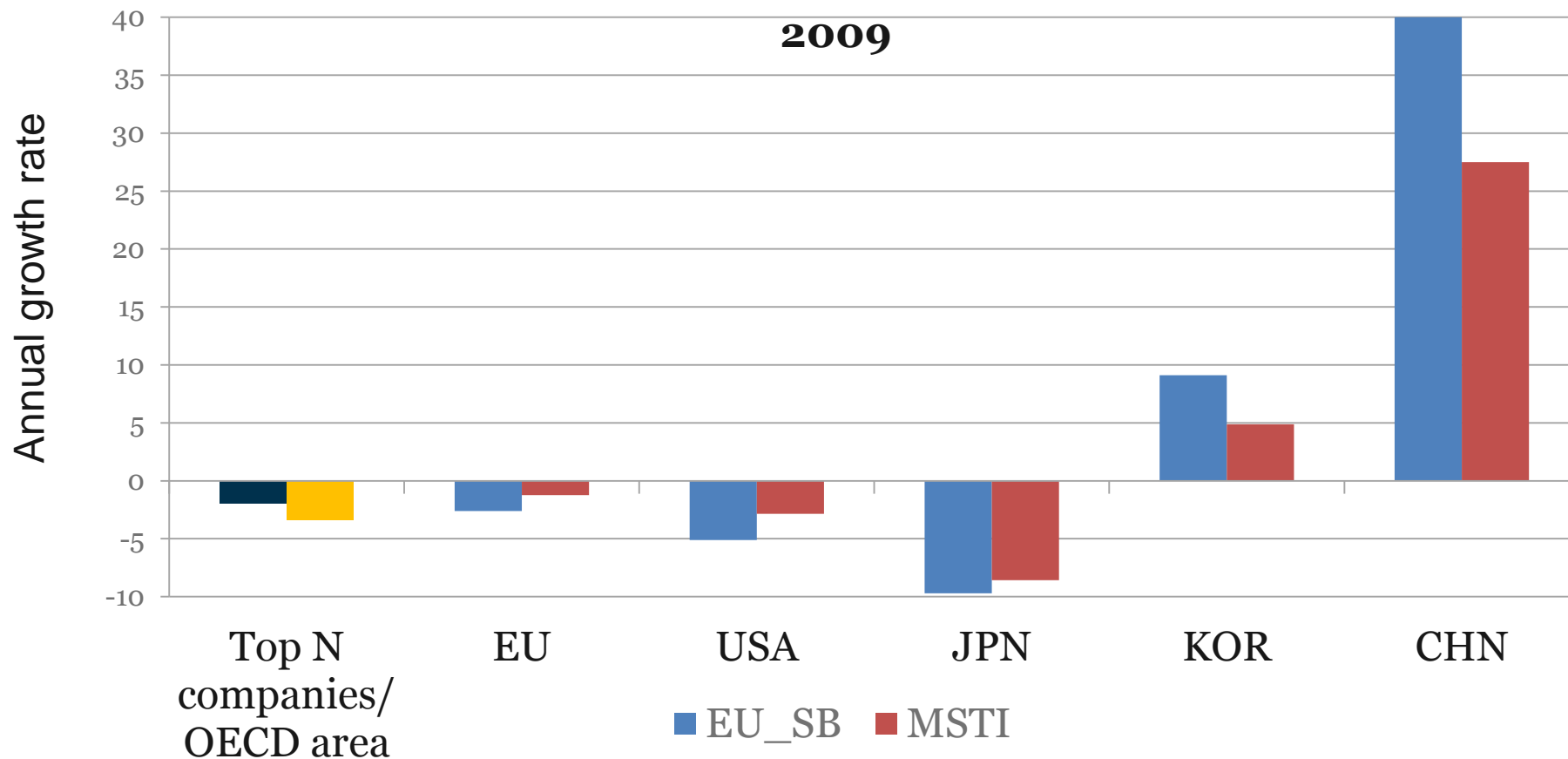
2008



Source: OECD calculations based on EU R&D Scoreboard press release and OECD Main Science and Technology Indicators.



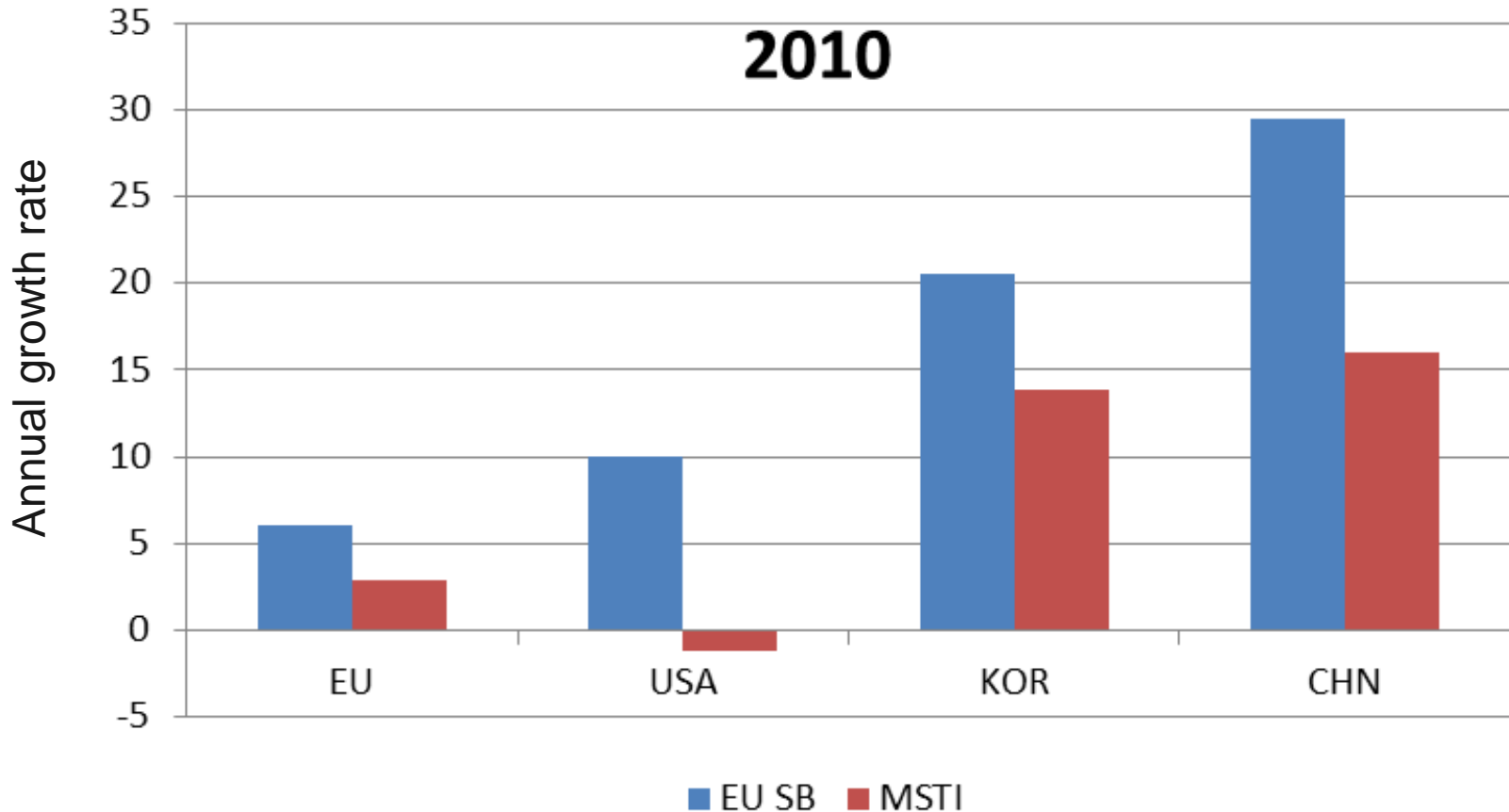
Country trends: The crisis hits R&D budgets



Source: OECD calculations based on EU R&D Scoreboard press release and OECD Main Science and Technology Indicators.



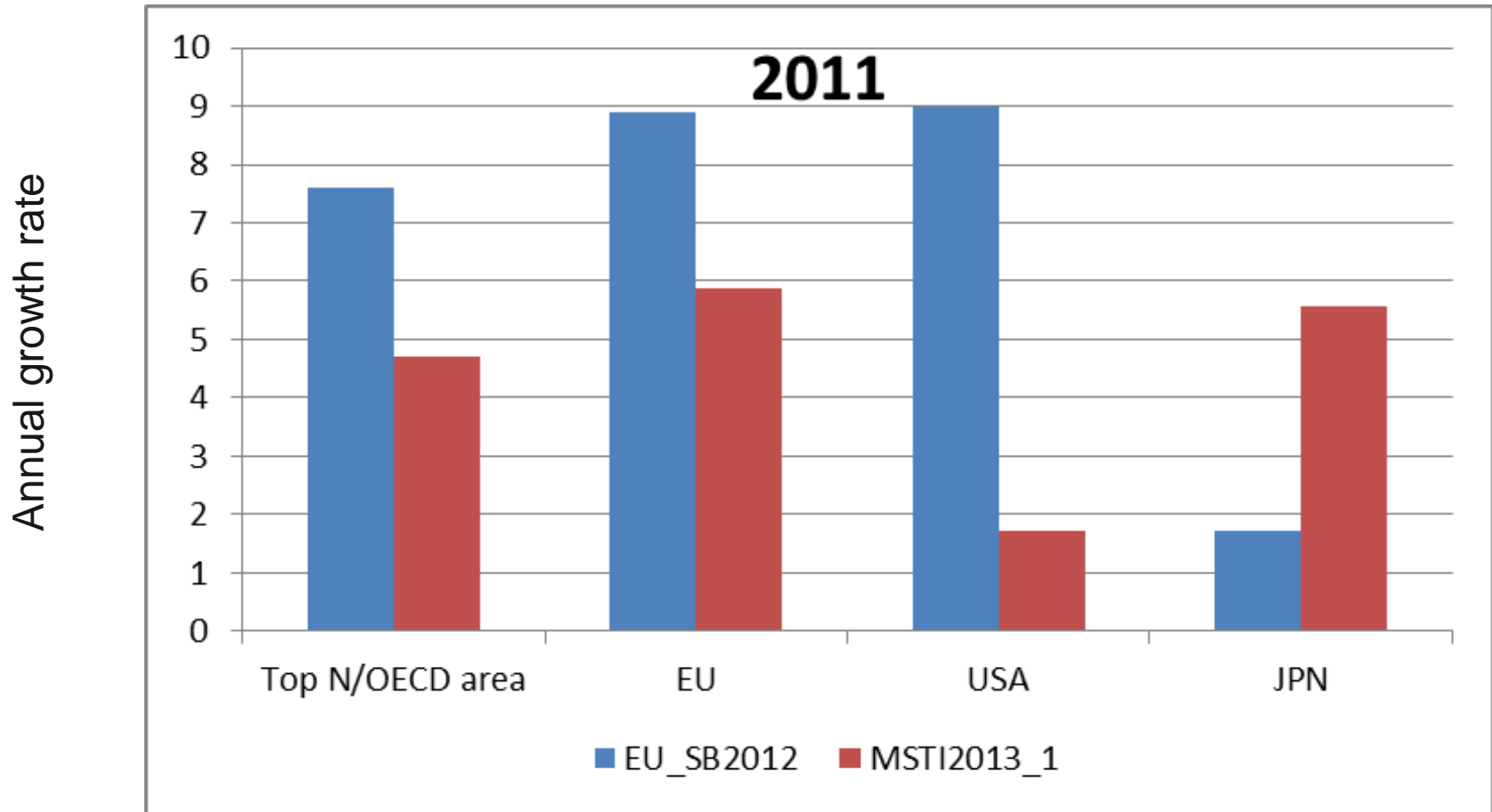
2010 – Back to growth...? ...depends on which data



Source: OECD calculations based on EU R&D Scoreboard press release and OECD Main Science and Technology Indicators.



Was it over in 2011?



Source: OECD calculations based on EU R&D Scoreboard press release and OECD Main Science and Technology Indicators.

Top 5 R&D performing sectors, by country



- Agriculture, mining, utilities and construction
- ICT equipment
- Electrical equipment and machinery nec
- Finance and other business services
- Wholesale, retail and transport services
- Medical instruments
- Chemicals and minerals
- Information and communication services
- Transport equipment
- R&D services
- Basic metals and metal products
- Food, textiles, wood, paper and printing

