

Economic Crisis and the Impacts on Transport

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A Tsunami Following the Financial Crisis



@Gary Varvel.



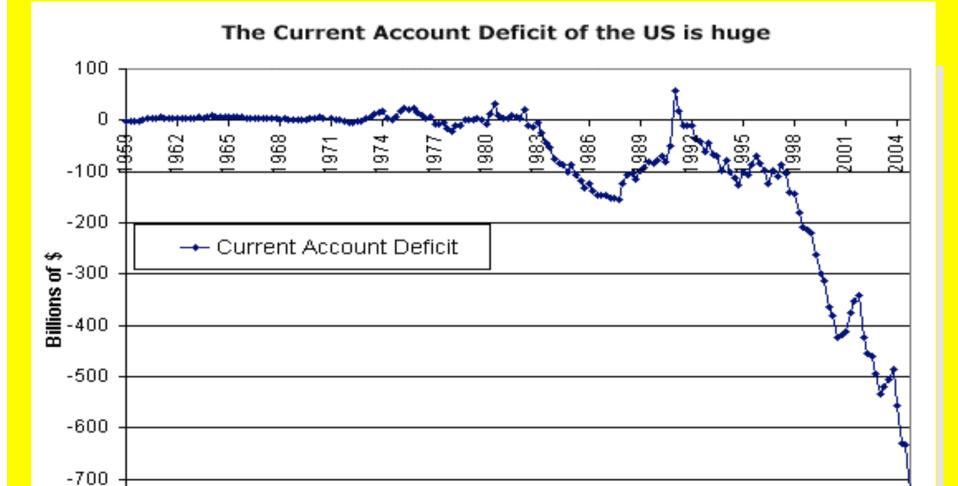








Trade Deficit US



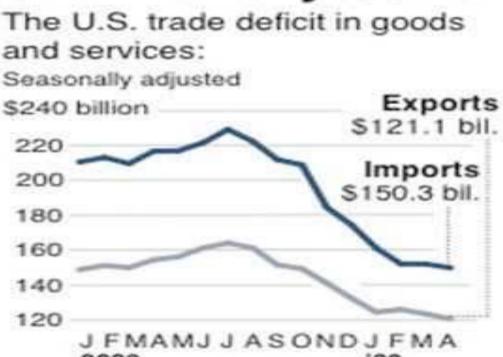
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June 2005

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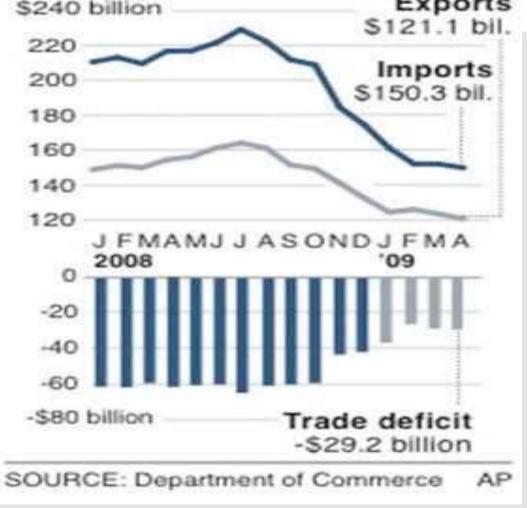


U.S. monthly trade



5

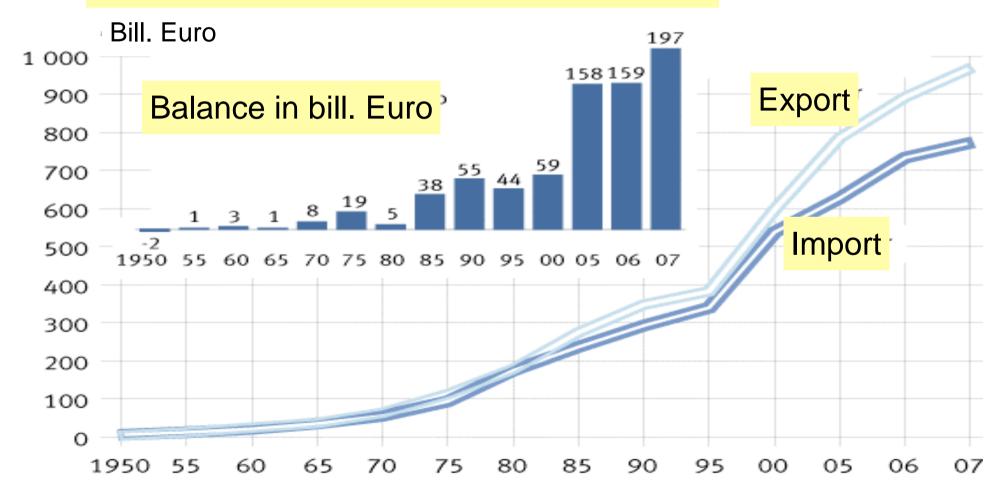
Trade Deficit S D





Imbalance of Trade

Development of Foreign Trade in Germany



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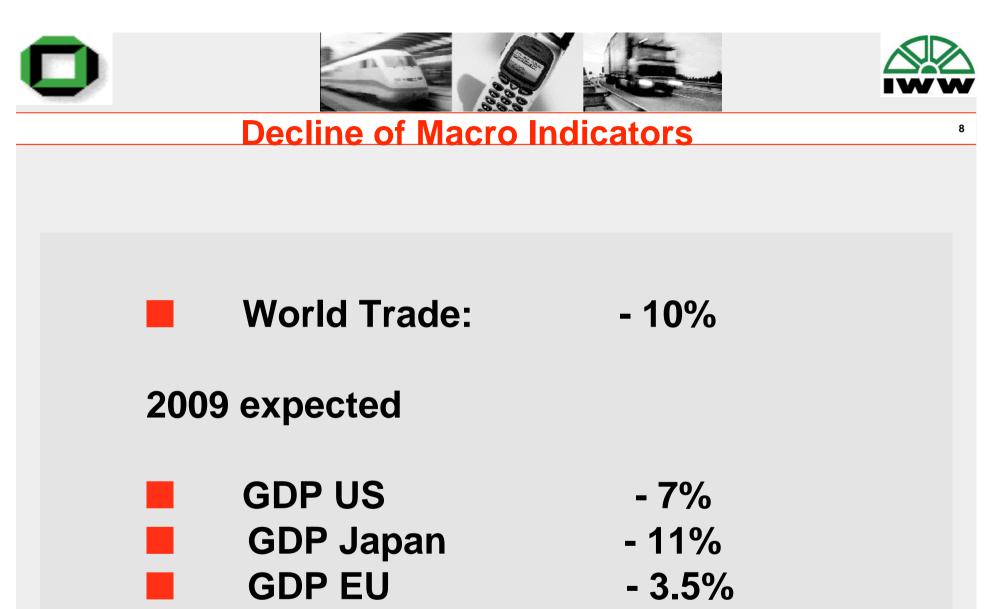
China Exports and Investment

Push and Pull

China is boosting investment to try to offset declining exports

Change from a year earlier in three-month moving average





- GDP Germany
 - GDP China

- 6%
- + 6%







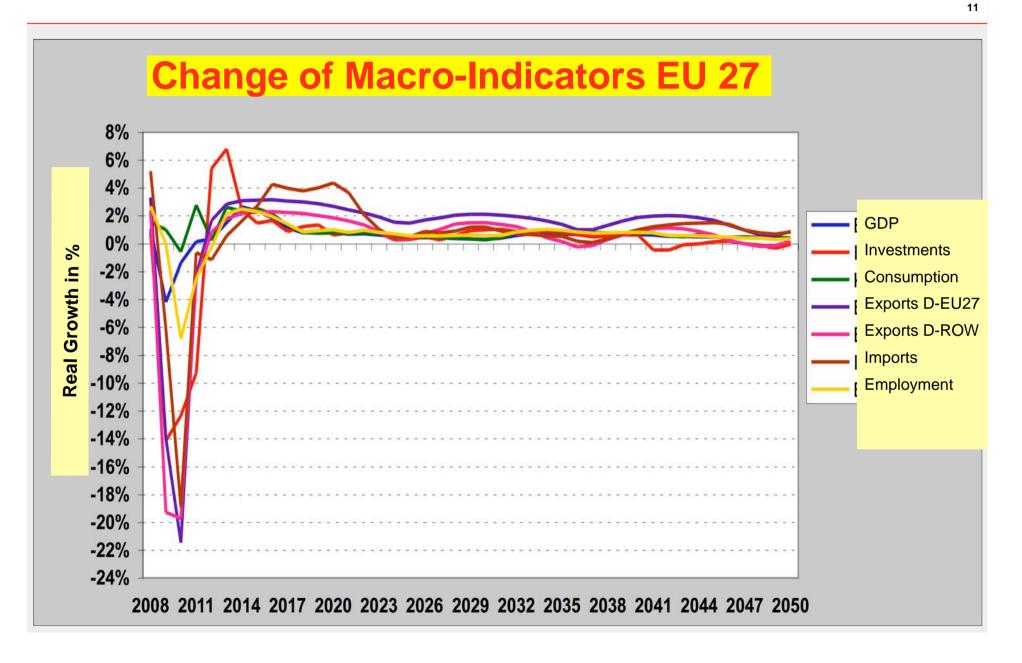


Impacts on the EU Economy

Country	Change of G D P	Public Deficit in % of GDP	Rate of Unemployment in %
Belgi u m	- 3.5	- 4.5	8.5
Germany	- 5.4	- 3.9	8.6
Finlan d	- 4.7	- 0.8	8.9
Franc e	- 3.0	- 6.6	9.6
Greece	- 0.9	- 5.1	9.1
Irelan d	- 9.0	- 12.0	13.3
Italy	- 4.4	- 4.5	8.8
Luxemburg	- 3.0	- 1.5	5.9
Malt a	- 0.9	- 3.6	7.1
Netherland s	- 3.5	- 3.4	3.9
Austria	- 4.0	- 4.2	6.0
Portugal	- 3.7	- 6.5	9.1
Slovak Rep.	- 2.6	- 4.7	12.0
Slovenia	- 3.4	- 5.5	6.6
Spain	- 3.2	- 8.6	17.3
Cypru s	+ 0.3	- 1.9	4.7

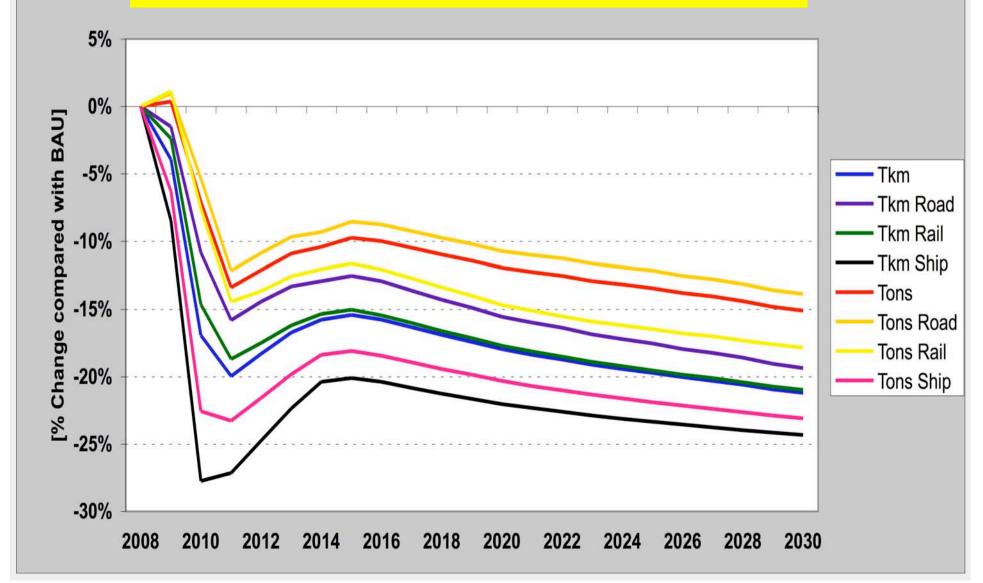








Change of Freight Transport in EU 27









Impacts on Globalisation and Trade

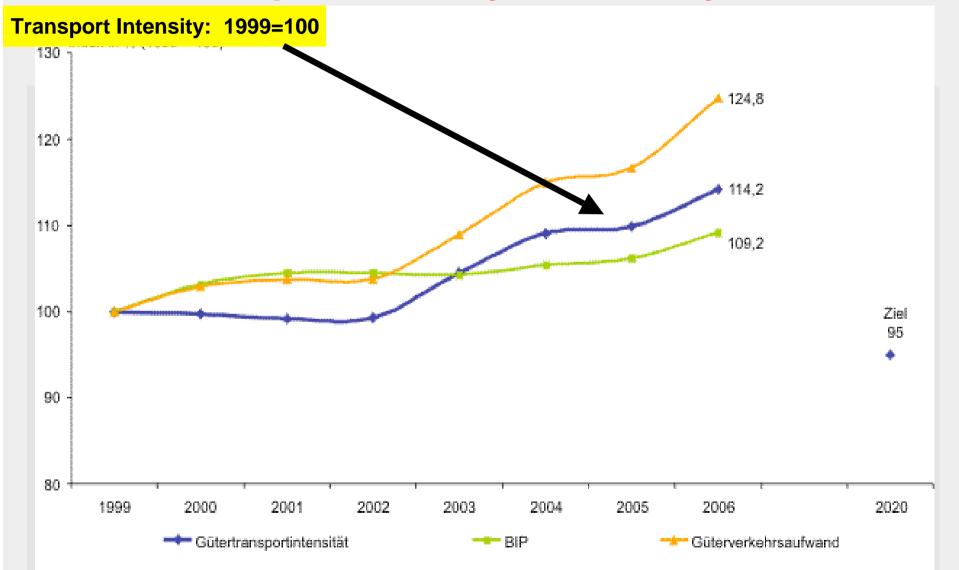
- Necessary Consolidation of Public Budgets
- Control of Money Supply by Central Banks
- New Protectionism?
- Increased Risk Aversion of Firms
- Problem of Developing Countries
- Continuation of Globalisation on a Lower Trajectory
- Schumpeter Paradigm: Crisis is a Starting Point for Innovation and Structural Change
 Promising Technology Lines: Energy Savings and CO₂ Reduction







Transport Intensity in Germany



Quelle: Bundesministerium für Verkehr, Bau und Stadtentwicklung (Hrsg.): Verkehr in Zahlen 2007/08, Oktober 2007; Statistisches Bundesamt







Transport Action Programmes

- EU Logistics Action Plan; Greening Transport Package
- GER Master Plan for Freight and Logistics
- FRA Grenelle Programme
- Climate Change Clearly Addressed
- Partly Concrete Action Lists (Grenelle)
- Aims of Changing Trends





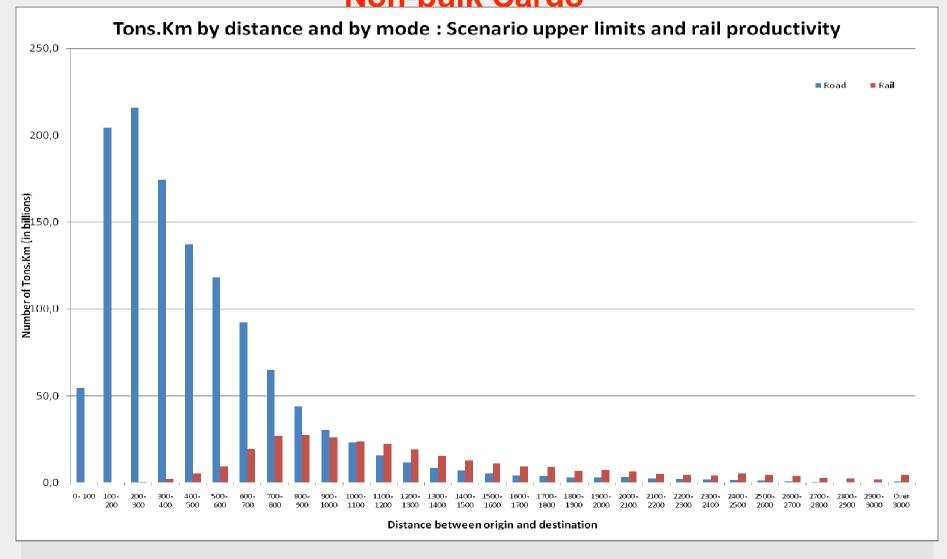


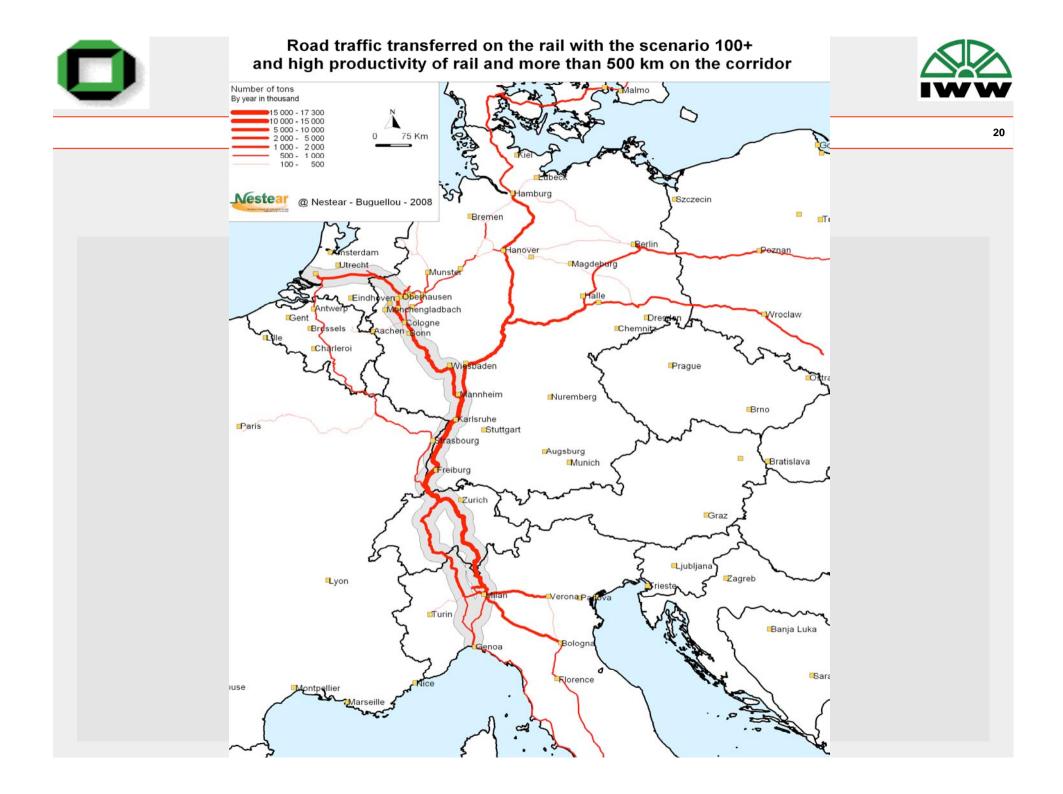
Fostering Railway Transport

- Climate Goals&Externalities Potentials in Non-bulk Segments Higher Logistic Requirements Increase of Productivity
- Internalisation of External Costs
 EC Strategy for Directive 2006/38
 Chances of a Combined Productivity/ Internalisation Strategy



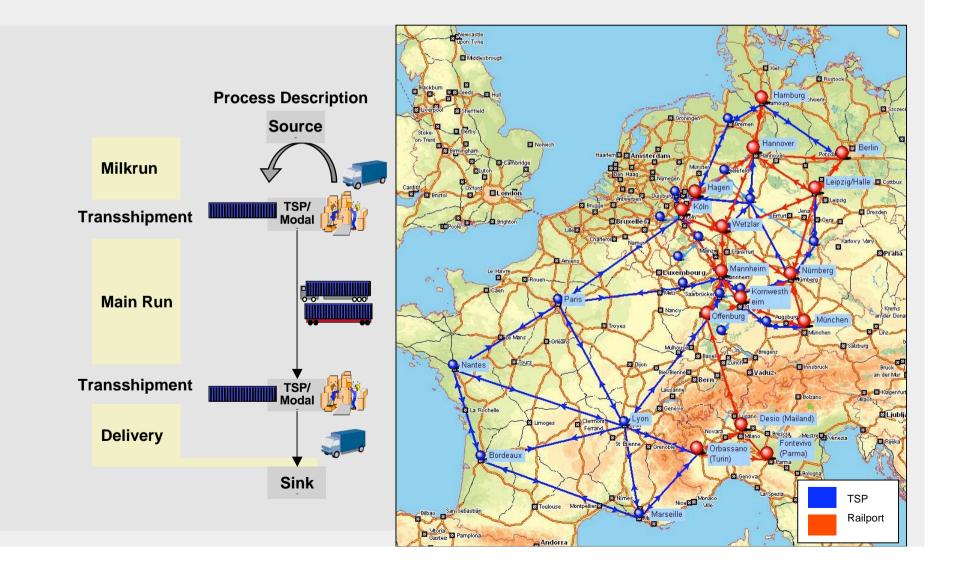
Scen. UL+RailProd: Tonkm by Distance and Mode Non-bulk Cargo



















Schumpetarian View: Crisis as a Chance for Structural Change

- Sustainability Targets as Orientation Marks for Technical Progress
 - New Kondratieff Cycle:
 - Energy/CO₂-Reduction
 - Bio-, Nano-Technology, Nuclear ?
 - Health Technology
 - Assistant Systems, Service Economy
 - Social Networks, Knowledge Economy







Transport a Derived Activity

- Freight Transport Development More Modest Because of Technology Change, Change of Production Organisation and Change of Logistics (Co-operative Logistics)
- Decrease of Transport Intensity
- New Technologies Modal Interchange and Moving Logistic Platforms
- Chances of Railways to Develop in Non-bulk Market Segments

