



EU-US Summit on STI and Sustainable Economic Growth

Woodrow Wilson Center
Washington DC, 11 September 2012

Visions of Sustainable Economic Growth: A Transatlantic Dialogue

Domenico ROSSETTI

European Commission, DG RTD*

Domenico.Rossetti-di-Valdalbero@ec.europa.eu

* Personally speaking

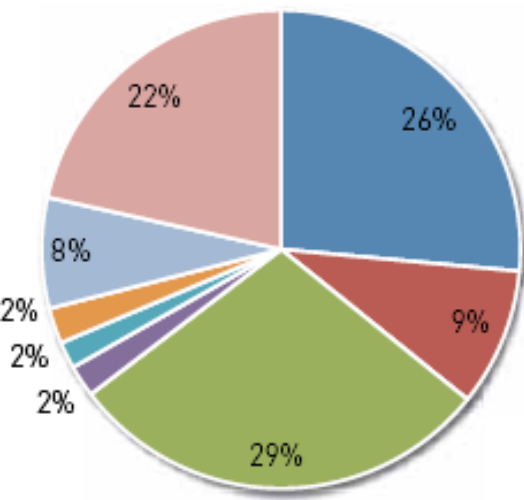
EU and US in a changing world

Population (million)

	1950	2011	2050	Factor
India	372	1 241	1 692	~X 4.5
Brazil	54	197	223	~X 4.1
USA	158	313	403	~X 2.5
China	551	1 347	1 296	~X 2.3
EU 27	377	506	516	~X 1.3

EU and US in a changing world

Share of GDP

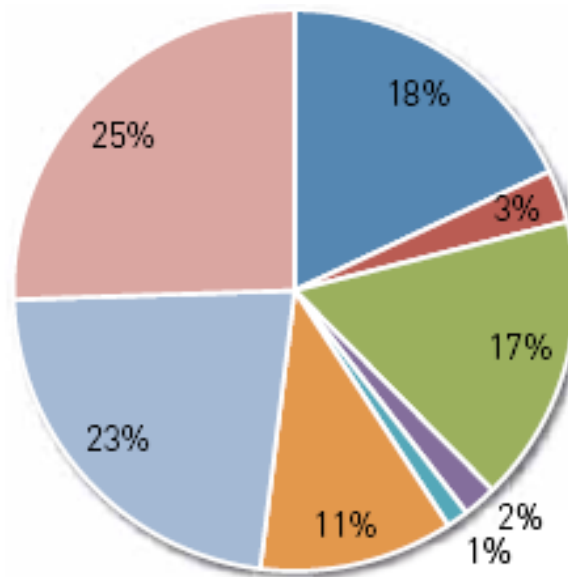


2010

- United States of America
- Japan
- European Union
- Brazil
- Russian Federation
- India
- China
- Other

**EU and US:
55% in 2010**

**EU and US:
35% in 2050**



2050

- United States of America
- Japan
- European Union
- Brazil
- Russian Federation
- India
- China
- Other



EU and US in a changing world

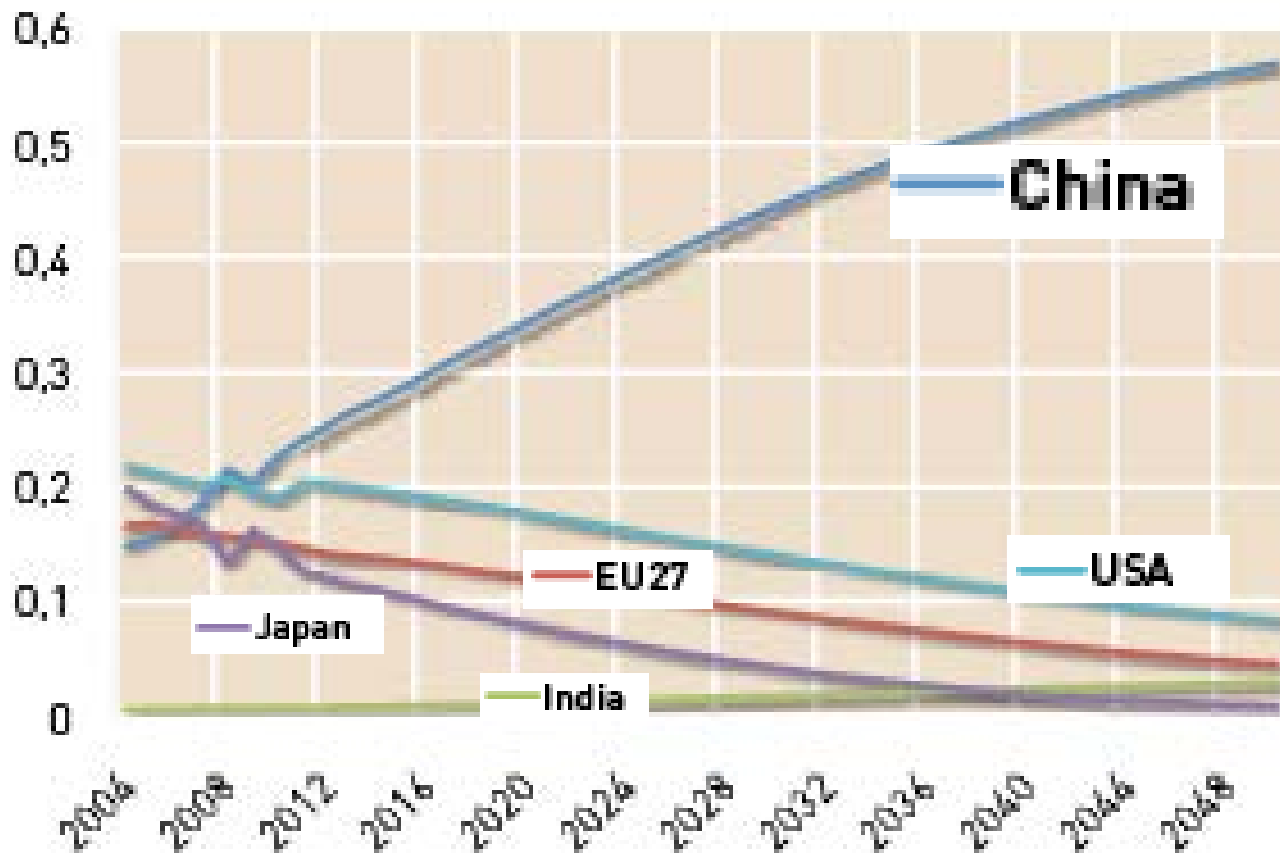
CO2 emissions

	2000	2050	
49%	USA & Canada	23%	12%
	Enlarged EU	14%	8%
	Russia & CIS	8%	5%
	Japan	4%	2%
51%			
	S-E Asia - China	20%	27%
	South Asia - India	7%	13%
	Africa	7%	15%
	Latin America	7%	9%
Others	10%	9%	

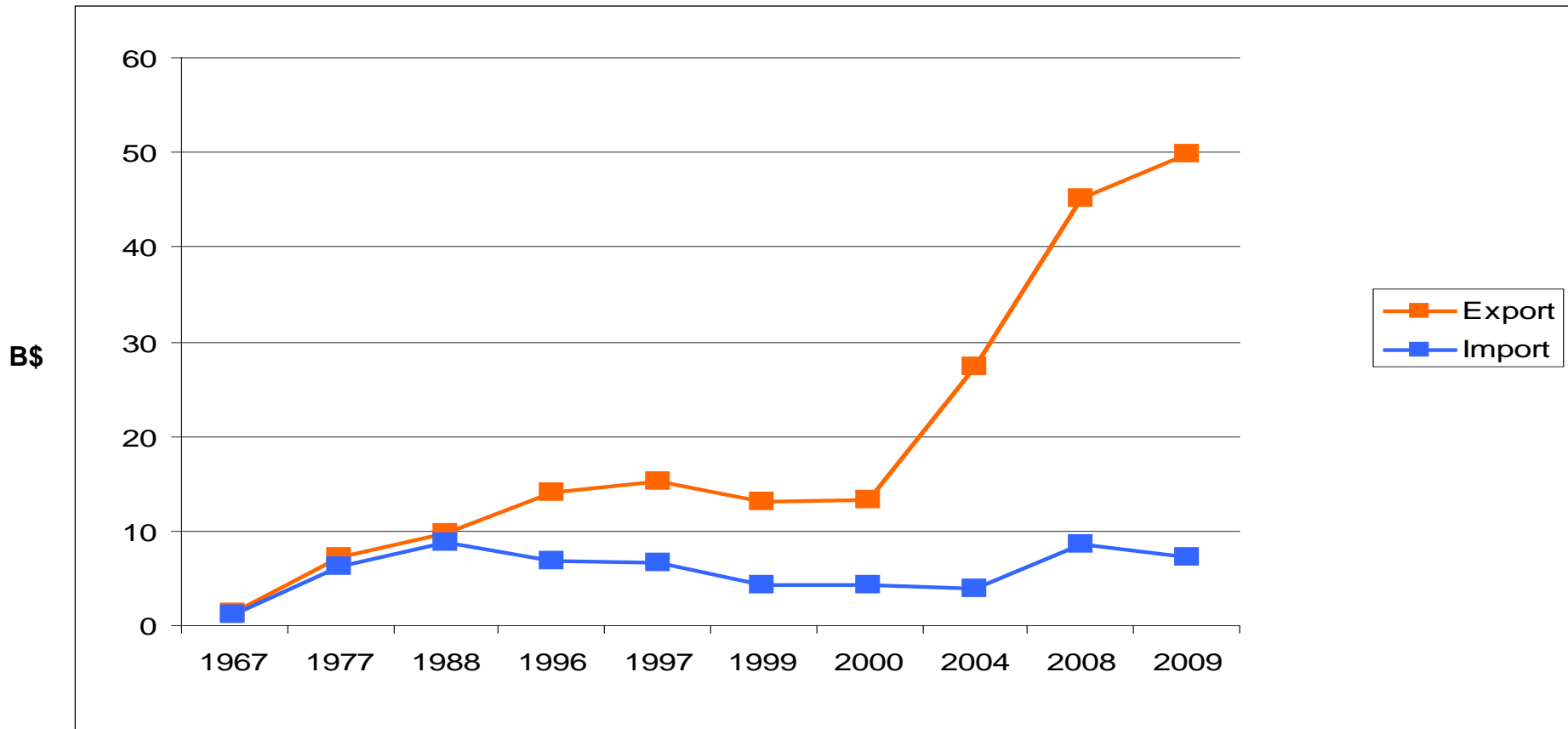
27%

73%

Share of the world production of electronic products



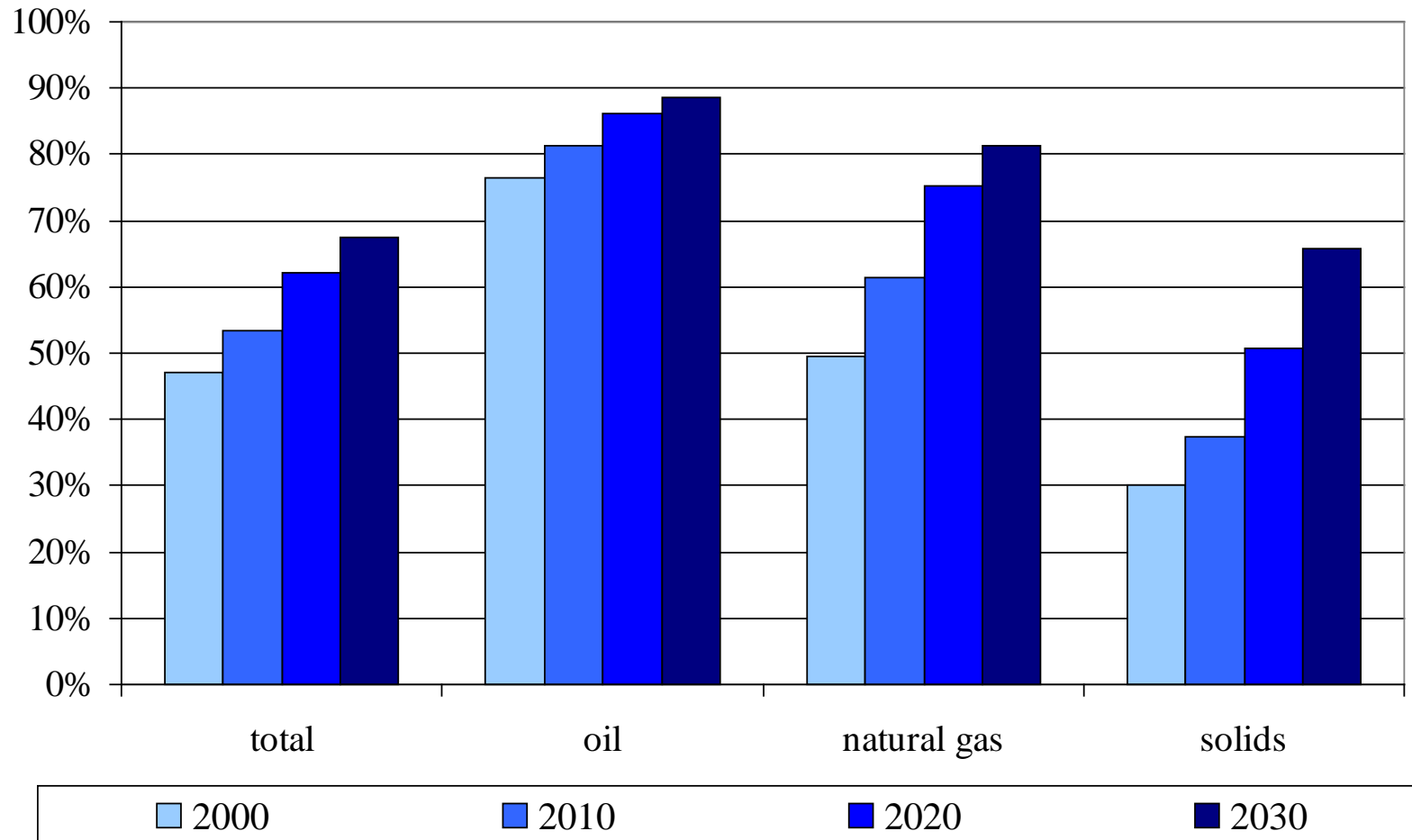
Brazil's foreign trade in agro-food



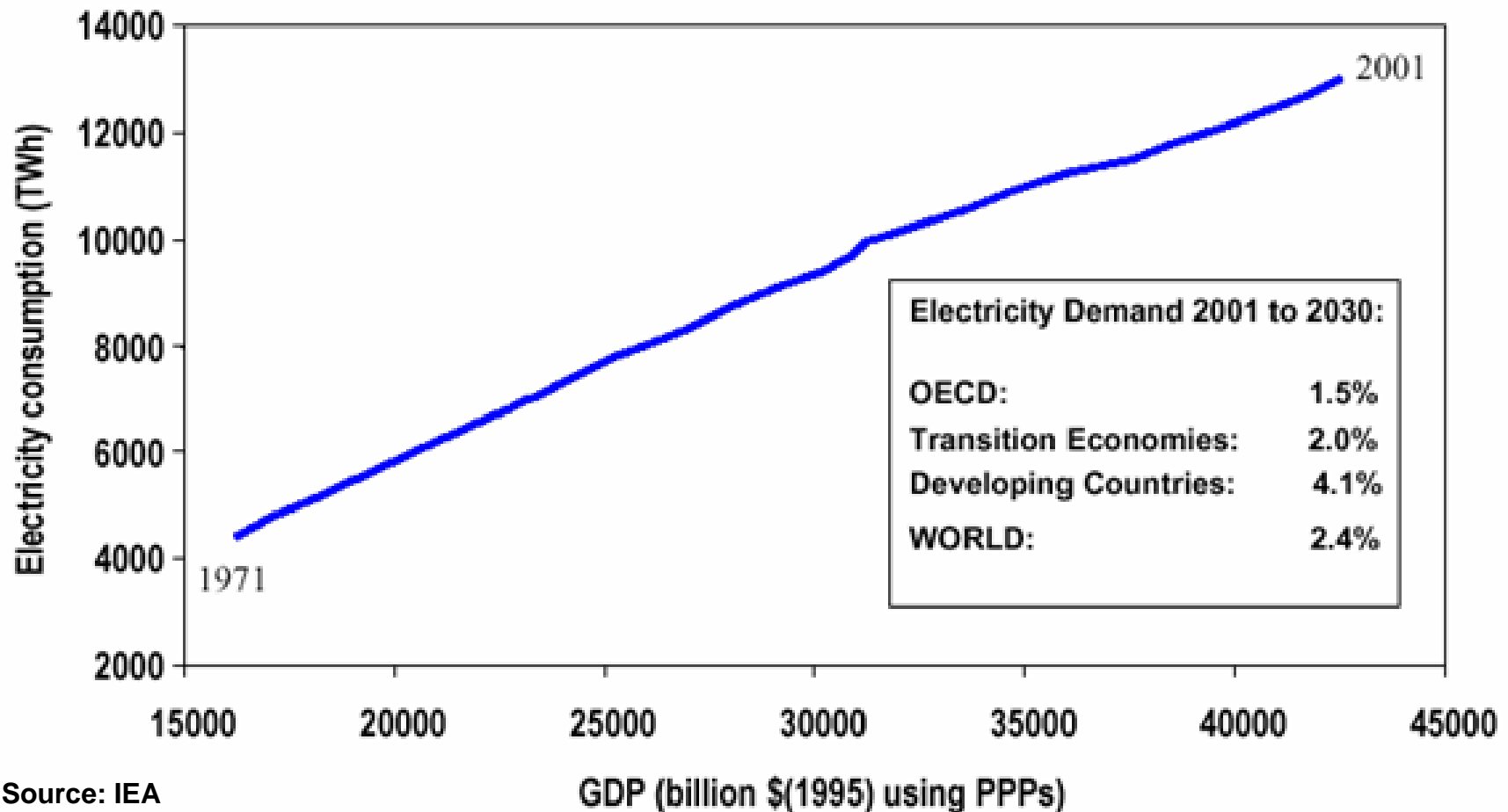
World tensions on natural resources

- **Water (4 billion people missing water by 2050)**
- **Food (70% increase by 2050)**
- **Land (war on lands)**
- **Materials (lithium, gallium, scandium,...)**
- **Energy (availability, prices, conflicts,...)**

EU energy imports



Decoupling energy and wealth



New challenges in innovation

➤ **Technological innovation**

But the value of manufactured products is increasingly based on intangibles

➤ **Open innovation**

Firms do not develop innovation in a closed system

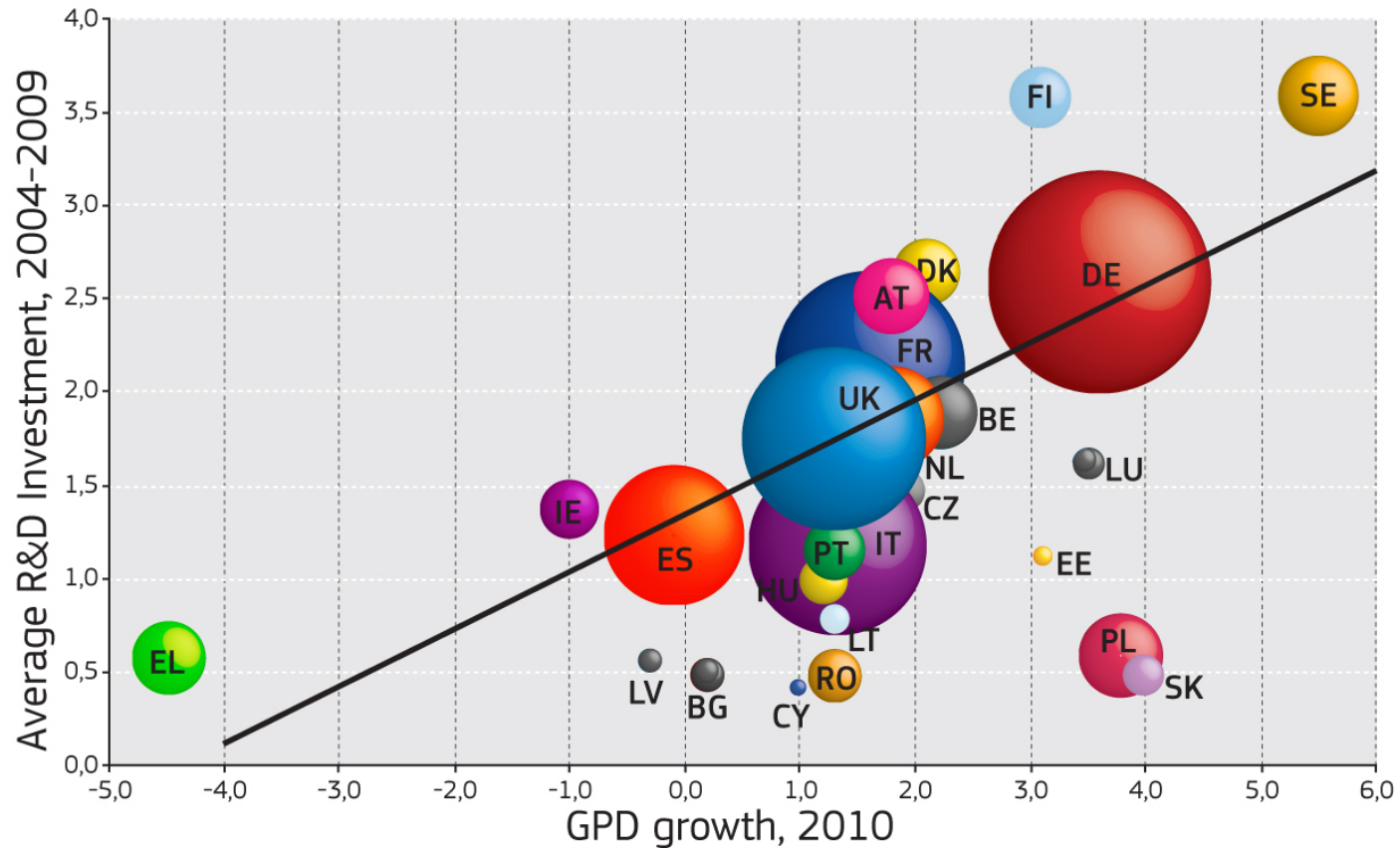
➤ **Global innovation**

Not only the production but also the innovation networks are now globalized

➤ **Social innovation and demand-side innovation**

Social scope, customer's-employee interface, marketing and organisational innovation

Innovation and (exit of) the EU crisis





EU-US cooperation more needed than ever

- **Same values (freedom, democracy, market economy, rule of law, gender equality)**
- **Potential for sustaining and improving cooperation in R&D and innovation (quality, confidence, thrust)**
- **Many common objectives (security of supply, energy efficiency, renewables, smart grid)**
- **Similarities in long-term “Roadmaps” (energy, transport)**
- **The EU-US dialogue must be stronger**

World and European Energy and Environment Transition Outlook

WETO-T



European forward-looking activities:

Building the future of 'Innovation Union' and ERA



Global Europe 2050

