

SPREAD

Flemish Parliament, Brussels, 26 novembre 2012

EU Sustainable Lifestyles

Roadman and Action Plan to 205

Roadmap and Action Plan to 2050

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* Personally speaking



Some unsustainable trends

- Obesity is a leading cause of premature death
- More than 40% of the world electricity is generated from coal with its climate change impacts
- A car is parked 92% of its life cycle
- The average speed of an international freight train in the EU is 18km/h
- > 40,000 people die each year in road traffic in the EU
- From Rio to Doha: from 21 to 31 Gt CO₂ emissions

Source: D. Rossetti - Data from European Commission Communications



But... many EU local good-practices

Freiburg intermodality



Vitoria-Gasteiz green belt



Source: Freiburg and Vitoria-Gasteiz cities



Pour sortir de la crise, il faut "voir plus loin"

Sylvie Goulard & Mario Monti



EC Forward Looking Activities (FLA)

- FAST and Cellule de Prospective / BEPA
- Multiannual Financial Perspectives and long-term planning (SF, FP)
- Europe 2020
- EU 2050 Roadmaps (low carbon economy, transport, energy)
- DG JRC (IPTS)
- DG RTD FP7 activities including SPREAD

Source: D. Rossetti



Global Europe 2050

World and European Energy and Environment Transition Outlook

WETO-T







http://ec.europa.eu/research/social-sciences/forward-looking_en.html



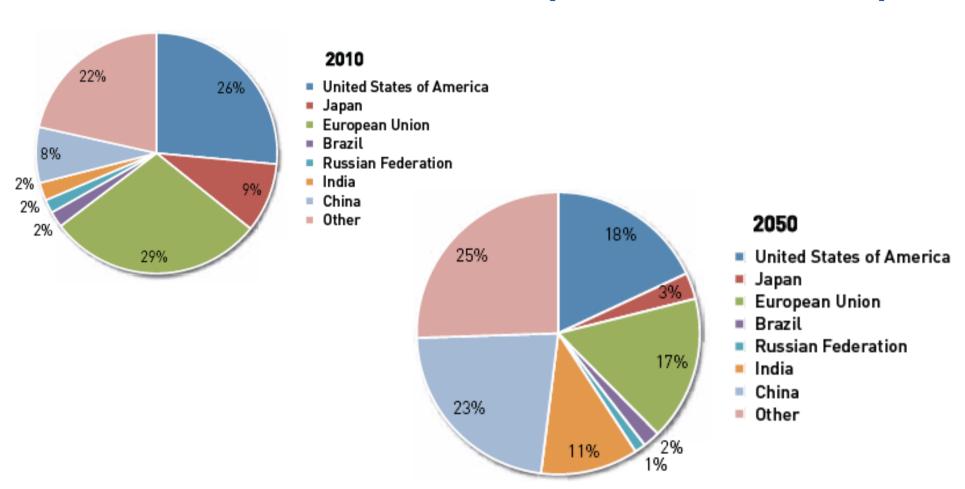
A changing world Population 1950 – 2050 (Million)

	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

Source: UN, World Population Prospects



World and EU GDP (2010 and 2050)



Source: EC, DG RTD, Global Europe 2050 (L. Fontagné)



Megacities and concentration of needs

	1950	2010	
	(millions)	(millions)	
Mexico	3	23	
Seoul	1	23	
Mumbai (Bombay)	3	20	
Jakarta	1,5	16	
Cairo	2,5	15	
Teheran	1	12	
Istanbul	1	11	

Source: Davies / Le Quément



Share of urban population living in slums

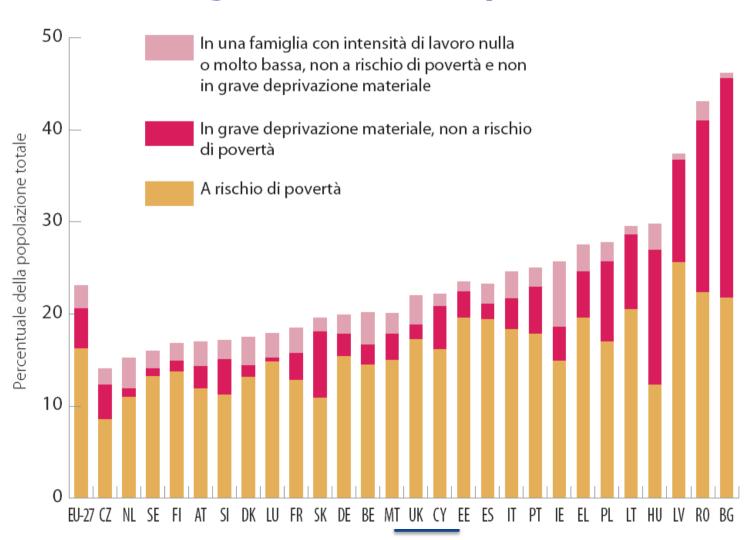
Sub Saharian Africa	62
Southern Asia	43
Eastern Asia	36
South Eastern Asia	27
Latin America	27

Source: UN HABITAT



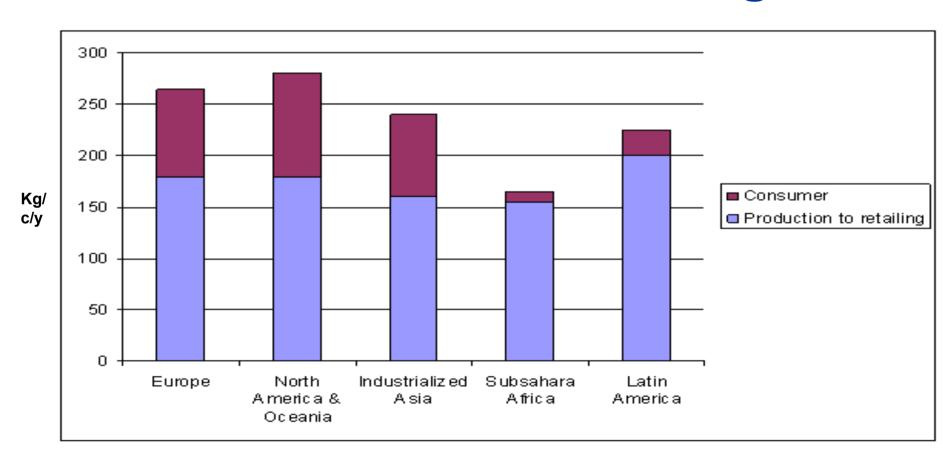
Poverty in the EU (~ 20% at risk)

Source: EU-SILC





Food loss and wastage



Source: FAO, Global Food losses and Food Waste, 2011



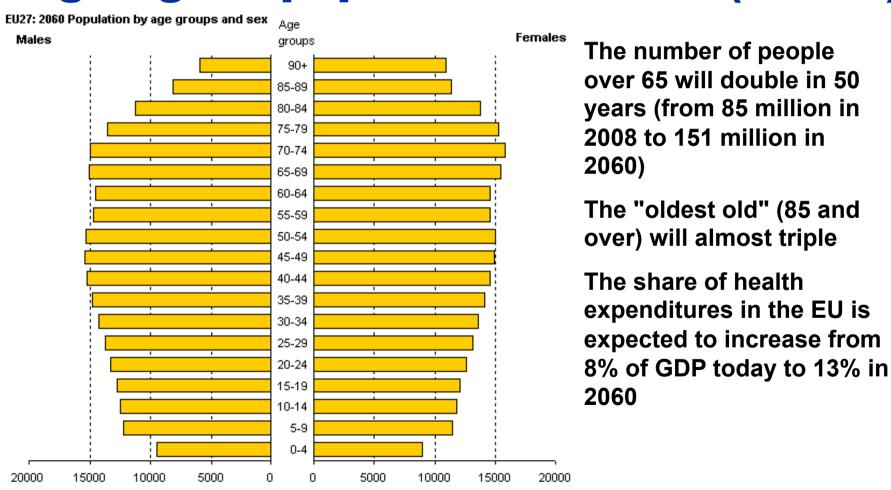
CO2 emissions – Old and new actors

			2000	2050	\Box _
49%		USA & Canada	23%	12%	
		Enlarged EU	14%	8%	
		Russia & CIS	8%	5%	27%
	L	Japan	4%	2%	
	_				
51%		S-E Asia - China	20%	27%]]
		South Asia - India	7%	13%	_{73%}
		Africa	7%	15%	
	Latin America	Latin America	7%	9%	
	L	Others	10%	9%	

Source: EC, DG ENV/CLIMA



Ageing EU population in 2060 (in 000)



Source: EC, DG ECFIN, Ageing Report (H. Bogaert)



EU oil consumption and production



Source: Grande Reportagem



The Power of Science

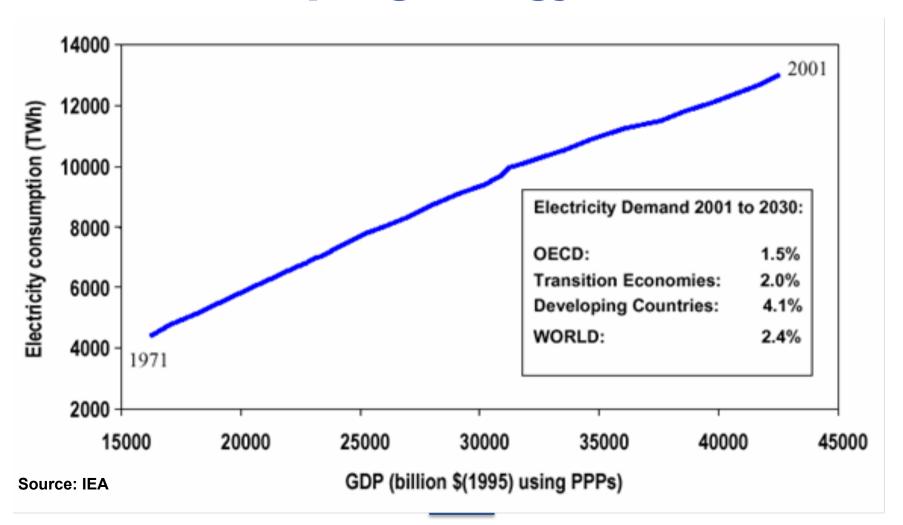
Economic research and European decision-making: The case of energy and environment policies

Domenico Rossetti di Valdalbero

P.I.E. PETER LANG

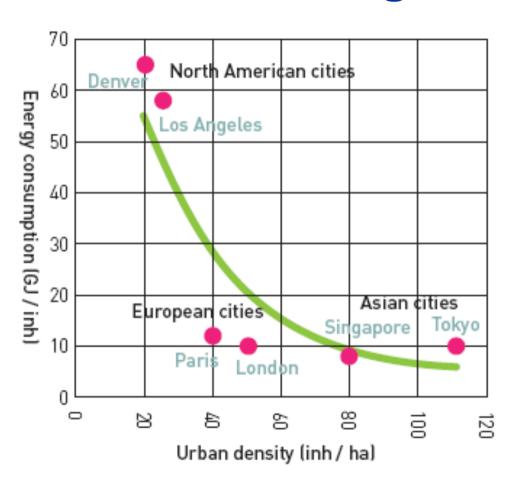


Decoupling energy and wealth





Building sustainable cities



Source: Newman and Kenworthy

World and European Sustainable Cities Insights from EU research

Source: EC, DG RTD (cover from L. Schuiten)



Acting on lifestyles - Transport





Source: Google images



Acting on lifestyles - Households





Source: Google images



Acting on lifestyles - Buildings





Source: Google images



Valuing the time



Source: Google image



Reflecting on price



€ 30-150

Source: Energy-future.com



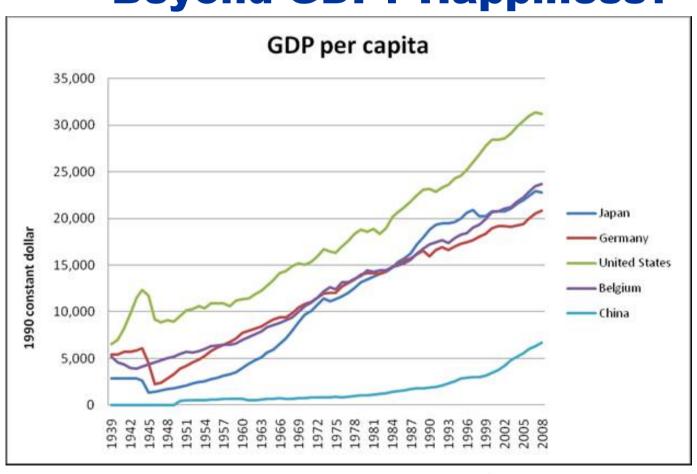
€ 150-350



€ 200,000-300,000



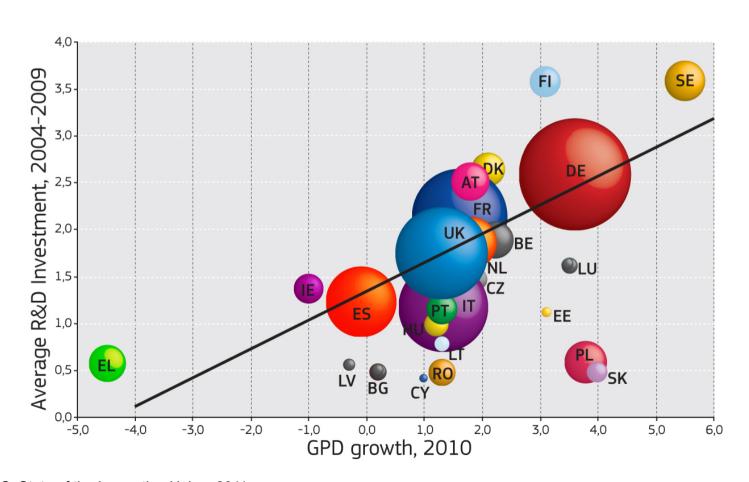
Growth, wealth and quality of life Beyond GDP? Happiness?



Source: Angus Maddisson, 2010



Innovation and (exit of) the crisis



Source: EC, State of the Innovation Union, 2011



EU FP7 research activities – 2013

FP7-SSH-2013

- Obstacles and prospects for sustainable lifestyles and green economy in Europe
- ▶ Post carbon cities in Europe: A long term outlook

FP7-ENV-2013

- ▶ Transition to sustainable, low carbon societies
- Network for forward looking activities and assessment of research and innovation prospects



Conclusions - New interactions

- Tangible & intangible assets
- Human & technology
- Industry & services
- Technology & social innovation
- Business in the broad sense (CSR, social entrepreneurship, third sector)
- Energy Environment Transport Water Food

Source: D. Rossetti



Conclusions – Many opportunities

- Austerity vs. Growth: a false alternative Towards a new path of socio-ecological development
- Inconvenient truth: fossil fuels will continue to dominate energy supplies but a lot can be done from the demand-side
- Eloge de la densité in urban planning
- Large potential from ICT: "sharing" is easy
- Social welfare and collective well-being need strong individual efforts

Source: D. Rossetti



Debout l'Europe! Voor Europa!

Guy Verhofstadt & Daniel Cohn-Bendit



EC relevant SSH research projects

- SPREAD: Social Platform identifying research and policy needs for sustainable lifestyles
- PACT: Pathways for carbon transitions
- GILDED: Governance, infrastructure, lifestyle dynamics and energy demand: European post-carbon communities
- PASHMINA: Paradigm Shifts Modelling and Innovative Approaches
- SUSTAINCITY: Micro-simulation for the prospective of sustainable cities in Europe
- POLINARES: Policy for natural resources
- GLOBAL-IQ: Impact Quantification of global changes