

Regional Consolation on the Implementation of the UN 2030 Agenda for Sustainable Development in Central and Eastern Europe

11-12 April 2016 Szentendre, Hungary



REGIONAL ENVIRONMENTAL CENTER

TRANSFORMING OUR WORLD – YET AGAIN? THE SPECIAL POSITION OF THE EASTERN EU MEMBER STATES

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Regional Consultation on the Implementation of the UN 2030 Agenda for Sustainable Development in Central and Eastern Europe

Organized by Regional Center for Central and Eastern Europe

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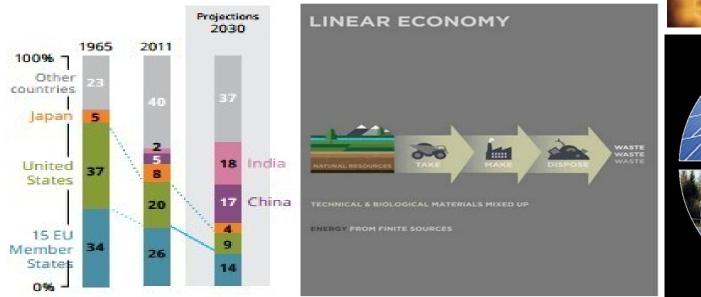
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WORLD CHALLENGES



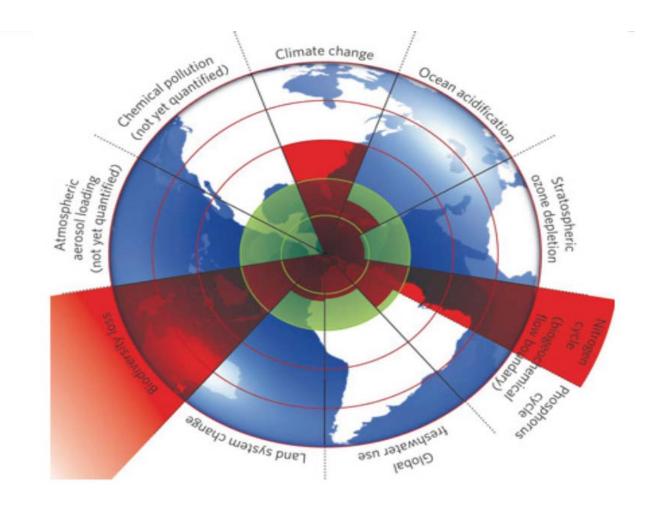
Megatrends

- demographic changes and growing social problems;
- o global economic changes;
- o accelerating urbanisation;
- climate change and the increasing finiteness of resources;
- technological breakthroughs.





GLOBAL Environmental Overstretch



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(Rockström et al., 2009)

ENVIRONMENTAL RESULTS OF TWO TRANSFORMATION OF CEE EU MEMBERS



THIRD TRANSFORMATION OF CEE MEMBERS



on behalf of the next generations

 1989 and early 1990' - the beginning of building democracy and market economy

2004/2007/2008 - accession to the European Union



• towards to low-carbon and circulate economy ?????



EU members from Central and Eastern Europe, join a group of rich countries, an increasingly unfavorable characteristics for sustainable development.

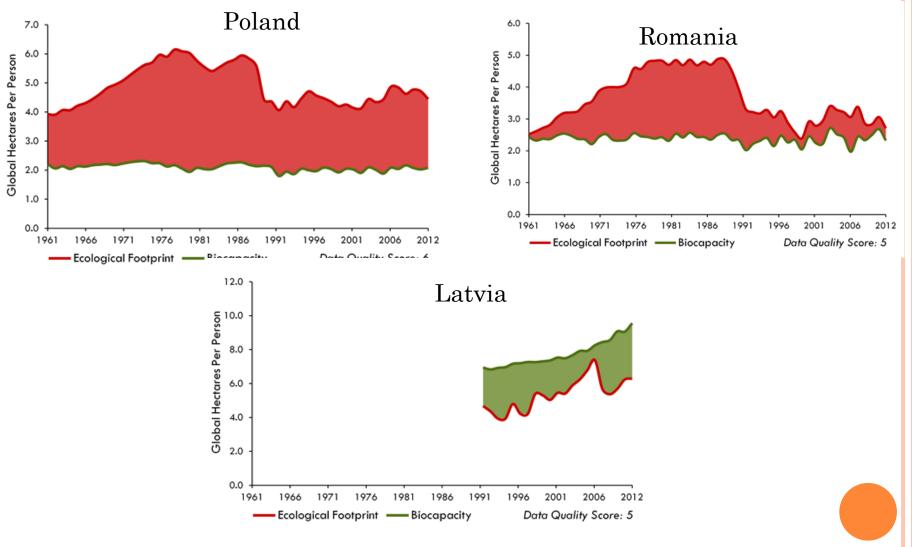
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PRESSURE ON THE ENVIRONMENT

- The different range of ecological footprint but outlines a general increase in pressure on the environment after the accession to the EU;
- A significant improvement in the efficiency of resource (including water) and energy but still these indicators differ significantly from the average of the EU;
- Primary energy consumption despite economic growth did not change substantially and there are still significant reserves in improving efficiency
- A disadvantage is the uncontrolled development of road infrastructure and a significant increase in the number of vehicles in the countries covered by the analysis. Increases rapidly dominance of road transport.



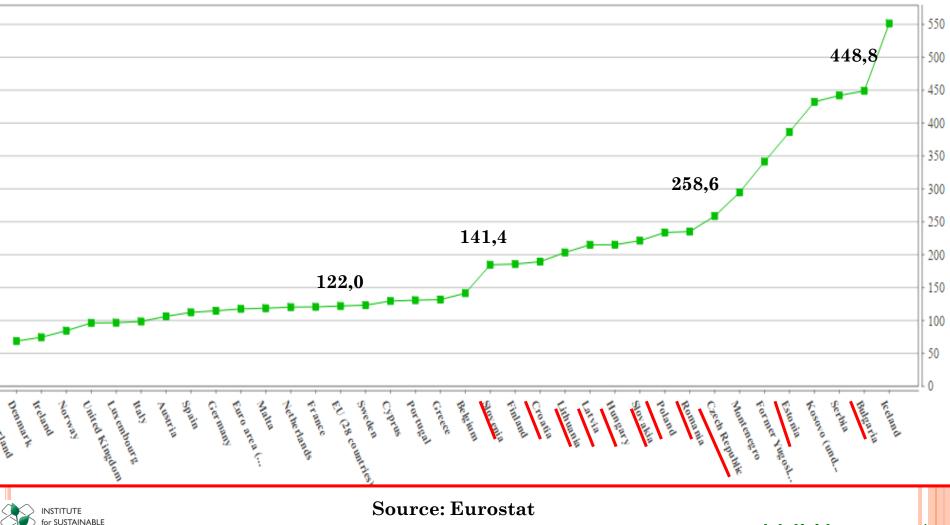
ECOLOGICAL FOOTPRINT 1961-2012



http://www.footprintnetwork.org/en/index.php/GFN/page/footprint_for_nations/



ENERGY INTENSITY OF THE ECONOMY (KOE/1000 EUR GDP)



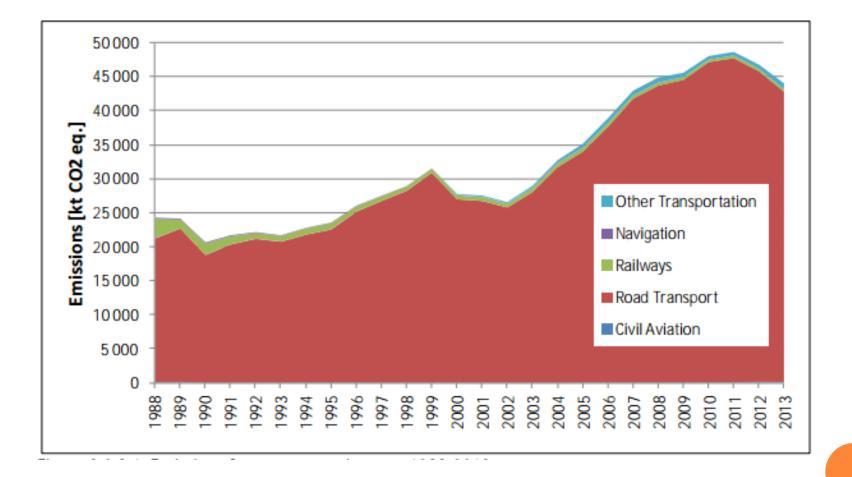
DEVELOPMENT

POLLUTION AND DEGRADATION

- There has been a significant reduction in emissions, both air and water. The exception is air pollution from transport.
- Clearly outlines a trend model building material consumption and overconsumption on the model of Western European countries.
- Serious negligence on the management of municipal waste.
- Progress in reducing the amount of hazardous waste production
- Stimulating the process of urban sprawl and **fragmentation** of the landscape.



TRANSPORT GHG EMISSION IN POLAND (1988-2013)



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Source: Poland's National Inventory Report 2015

STATUS OF ENVIRONMENT AND HEALTH ISSUES

- Ensure a satisfactory ecological status of water is difficult;
- Intensive fishing, some species of fish are in danger;
- Generally as a result of changes in land use and progressive climate change provide to weakness ecosystem resilience;
- One of the most serious pollutants, which can not handle many countries and the threat of rising air quality is especially associated with the issue of low stack emission.
- External costs are very high conventional energy and transport



THE PERCENTAGE OF THE URBAN COMMUNITY OVERSTANDARD EXPOSED TO AIR POLLUTION (2009 - 2011)

	PM10		03		NO ₂	
Bulgaria	1	100		3	0	
Czech Republic	24	24-89		.6	0	
Estonia		0		'1	0	
Latvia		0			0	
Lithuania	0-	0-18			0	
Hungary	0-:	0-100		4	0	
Poland	79	79-86			0	
Romania	68	68-97		8	0-13	
Slovakia	13-	13-100		00	0	
Slovenia	0-:	0-100		00	0	
EU27	22	22-33		18	5-13	
<5%	5-25%	50-75%			>75%	

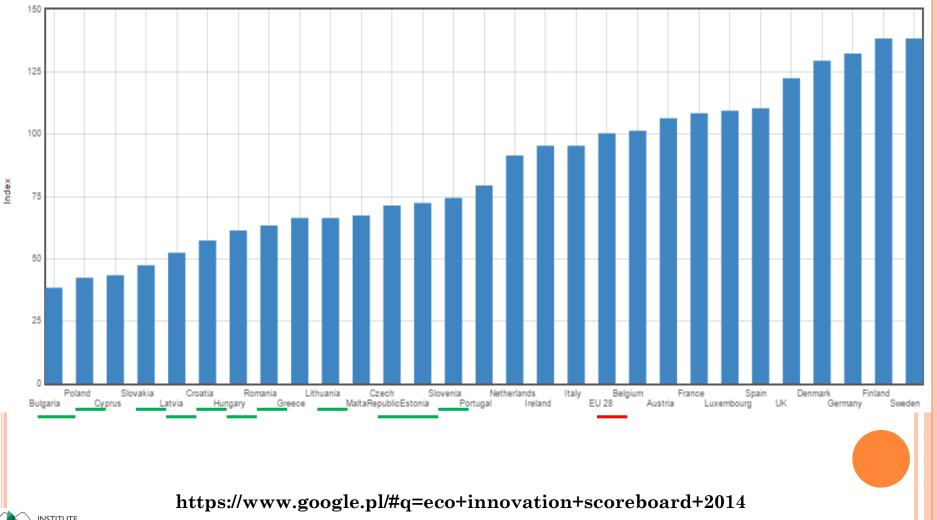


POLICY AND GREEN ECONOMY

- A significant increase in expenditure on environmental protection
- A significant expansion of environmental infrastructure catching up civilization
- Increasing the share of renewable energy in the energy mix
- The process of implementing efficiency improvements in many countries is not proceeding satisfactorily.
- Eco-innvation is in its infancy.
- Slow interest in environmental management systems in enterprises.
- Rapidly growing interest in ecological agriculture and processing of and sustainable tourism.
- The slow development of Natura 2000 areas and problems with them.



THE ECO-INNOVATION SCOREBOARD EU 2014



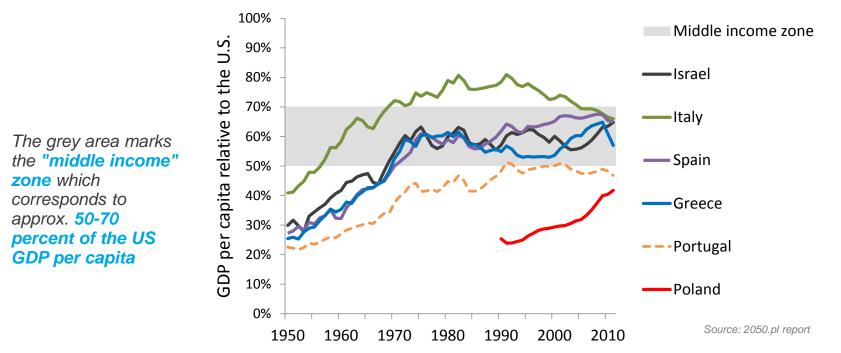
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What are the three most important actions we should take to protect the environment? Consider Reduce waste by, for **Buy more** Replace **Reduce your** environmental Use public example, buying local vour car Purchase Pay a little home aspects when Sort with a more transport as bigger sizes, products ecologically vou make large more in energy much as concentrated while waste so None of energy friendly taxes to consumption expenditures that it possible products, second avoiding efficient these (electricity, products (e.g., traveling, help protect can be instead of hand items or avoid one, even if (SPONT.) products for your heating, buying a car, the recycled buying overthat come it is smaller using your household daily needs heating environment packaged products, from far own car or more appliances) systems, build expensive etc. away a house etc) 47% 38% 23% 55% 30% 20% 16% 15% 3% 1% EU27 40% 21% 17% EU15 54% 50% 30% 21% 16% 2% 1% 12% 57% 37% 31% 30% 31% 20% 11% 3% 1% NMS12 What are the two most effective ways of solving environmental problems? **Offering higher** financial Ensuring incentives (e.g.: Introducing and Introducing better **Providing more** tax breaks. Introducing increasing heavier enforcement of information on subsidies) to stricter taxation on existing environmental environmental environmentally fines for industry, environmental offenders legislation damaging issues commerce and legislation to citizens who activities protect the environment 37% 33% 25% EU27 14% 30% 29% 36% 35% 29% 24% 14% 31% EU15 **NMS12** 41% 27% 28% 28% 29% 12%

THE MESSAGE FOR THIRD TRANSFORMATION



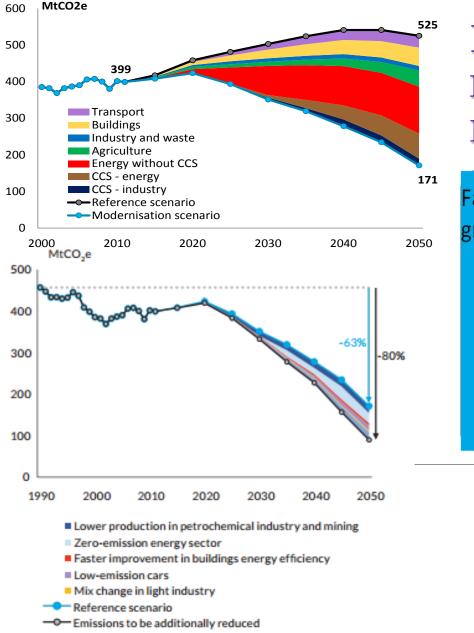
POLISH PERSPECTIVE MIDDLE INCOME TRAP



- Poland catching up country, the growth fueled by the low costs and the diffusion of innovations
- Innovations, stable institutions and improved resource and labour market efficiency needed to avoid the growth slowdown

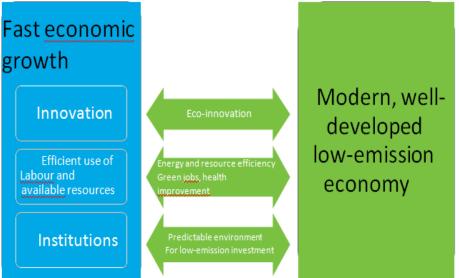
Source: 2050.pl. The Journey to the Low-emission Future. Edited by M. Bukowski. Warsaw Institute for Economic Studies, Institute for Sustainable Development, European Climate Foundation. Warsaw 2013

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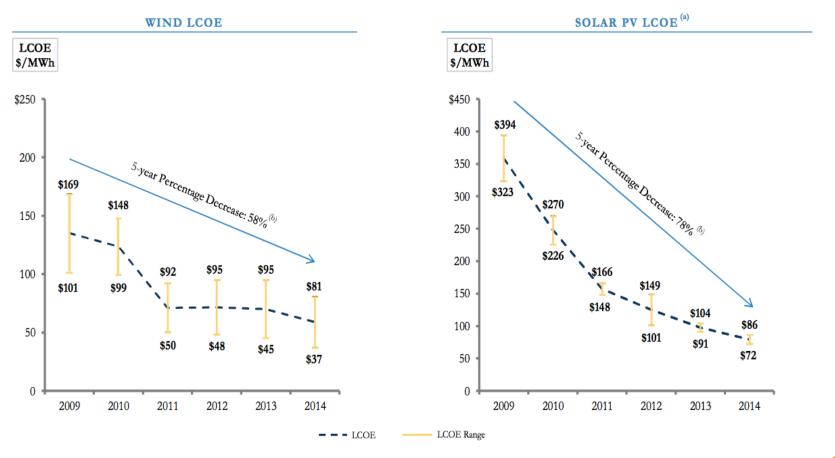


Source: 2050.pl. The Journey to the Low-emission Future. Edited by M. Bukowski. Warsaw Institute for Economic Studies, Institute for Sustainable Development, European Climate Foundation. Warsaw 2013

RELATION BETWEEN ECONOMIC GROWTH AND LOW EMISSION ECONOMY

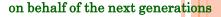


COST DECREASE - WIND & SOLAR (US)



Source: Lazard estimates.

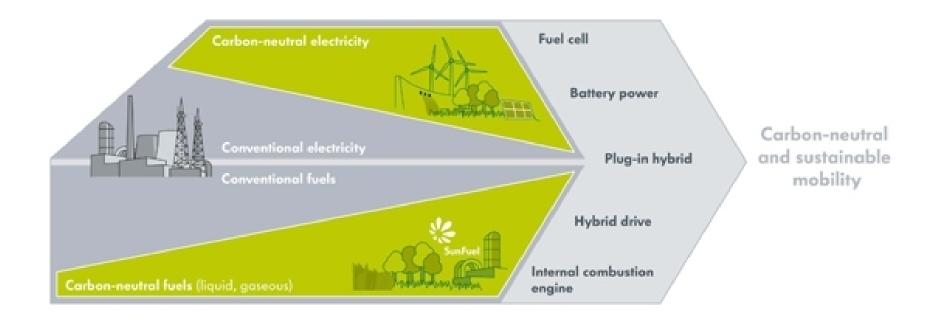
R. Fuchs. Green growth – smart growth.



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SUSTAINABLE MOBILITY: REPLACING FOSSIL FUELS WITH RENEWABLE

Powertrain and Fuel Strategy



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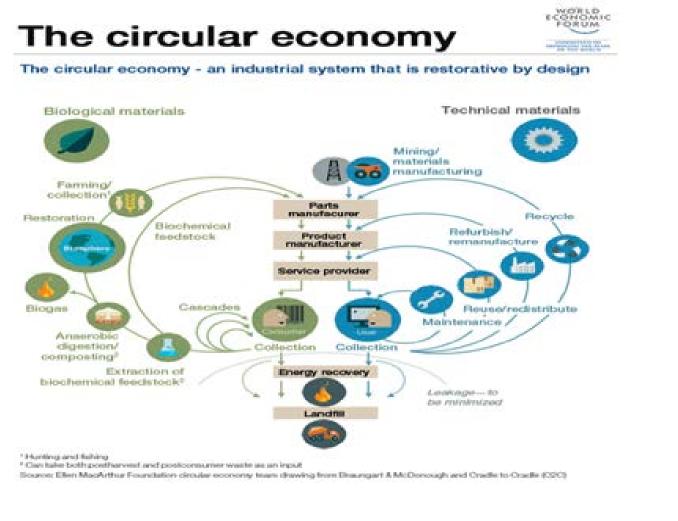








CREATING SYNERGIES INSTEAD OF WASTE



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on behalf of the next generations

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ECONOMY OF ENOUGH



- Sustainable approach, that is, economy of a steady scale, within the limits determined by available resources and capacity to absorb pollution;
- Fair distribution, that is, people have equal opportunities to gain decent living conditions;
- Efficient allocation of resources to support various activities so as to use the market economy capabilities, bearing in mind its strengths and shortcomings (external costs);
- High quality of life as the main objective of economic development, which means giving priority to human needs and ensuring decent living conditions for all.

CONCLUSION

 CEE EU members needs to broad discussion, understanding and support from society and politicians for long term sustainable development.

 CEE EU members needs the long term sustainable development strategy for solve simultaneously economic, social and environmental problems.

 SDG can be the road to build the support for long term strategy in CEE EU members.



TWO KEY MESSAGES

•In the nature a free lunch not exist

•We borrowed our Earth from grandchildren and it is necessary to bring it in good shape





THANK YOU FOR YOUR ATTENTION

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