PLUREL Introduction

Peri-urban land use relationships – Strategies and sustainability assessment tools for urban-rural linkages

Kjell Nilsson & Thomas S. Nielsen

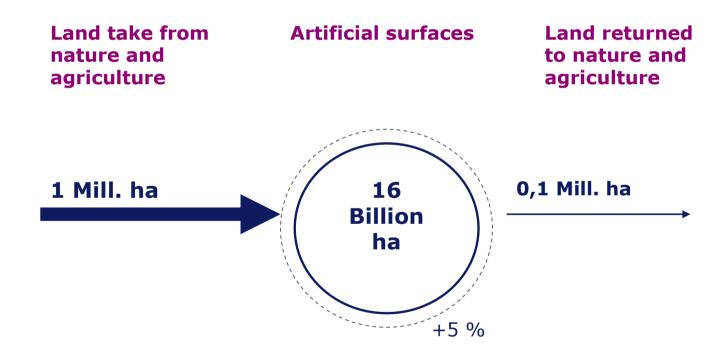
Danish Centre for Forest, Landscape and Planning

University of Copenhagen



Urbanization: a one-way process



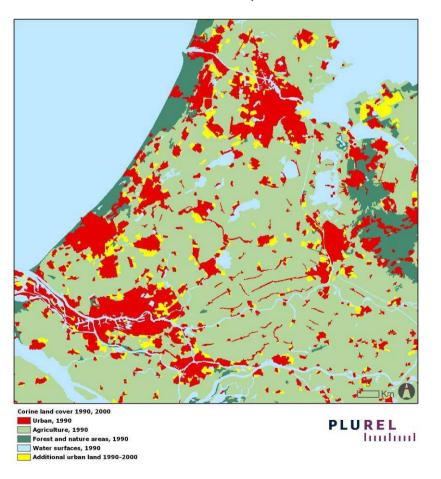


Developments in land cover in EU25 between 1990 and 2000 EEA Report No 10/2006

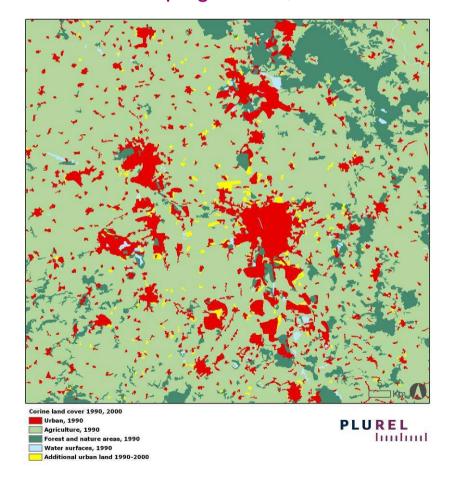
Urbanization on the edges of **PLUREL** existing agglomerations



Randstad, NL



Leipzig - Halle, DE





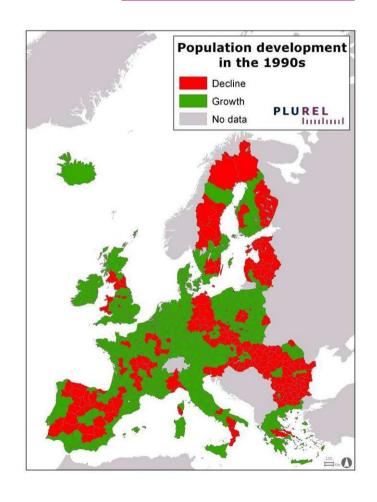
Urban Growth Issues

Impacts:

Energy, transport land take, soil sealing natural habitats etc.

Pre-conditions:

- Growth and Shrinkage
- Core and Periphery
- Density vs. Greenspace





Compact city



Landscape urbanism



Sixth Framework Programme "Global Change and Ecosystems" 4th Call for Proposals



Urban, peri-urban and rural land use relationships:

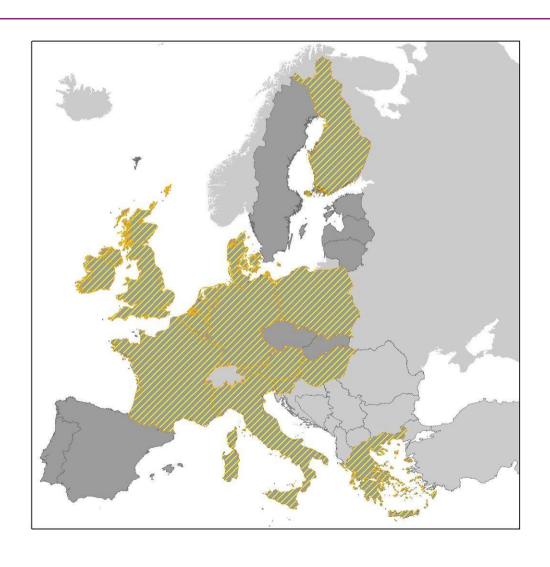
- Produce tools to help in the analysis of the EU urbanising trend and identify ways to improve the process and avoid negative consequences
- Consider how urban expansion effect the request of transportation, food supply chains, environment and recreation services and the pressures that these will put on rural land
- Interaction between urban and rural land uses
- Social, economic and ecological impacts
- Complementary and consistent with the SENSOR project





PLUREL Initial

Participants



31 parties

- 13 universities
- 10 research institutes
- 8 SME's

15 countries

- EU countries
- China

7 letters of intent



The peri-urban zone

- The peri-urban zone is a transition zone where rural-urban linkages are particularly intense
- Urban life has spread out of the city. The morphological delineation of the city (the built up area) no longer reflects the reality of human interactions
- Rural and urban features co-exist in the periurban zone. This mix of urbanity and rurality must be considered when dealing with the environmental impacts of urbanisation and urban growth across Europe







Rural-Urban Region (RUR)

- Functional Urban Region +
- Recreational use
- Food supply
- Nature reserve functions
- Ecological services







handaad



PLUREL

Specified objectives

- Models and strategies to enhance the understanding and handling of relationships between rural, peri-urban and urban land uses
- Study and model the demands and competition for resources in Rural-Urban regions
- Land-use scenarios for Rural-Urban regions in Europe
- Generic Sustainability Impact Assessment Tool for Rural-Urban relations
- Tools for the assessment of the costs of policies related to the urbanisation process
- Enhance cooperation between policy makers, stakeholders, planners and researchers through the development of tools and dissemination







Two tier approach:

Generic Sustainability Impact Assessment:

For Impact assessment of policies affecting
 Peri-urban land use relationships → SIAT-RUR



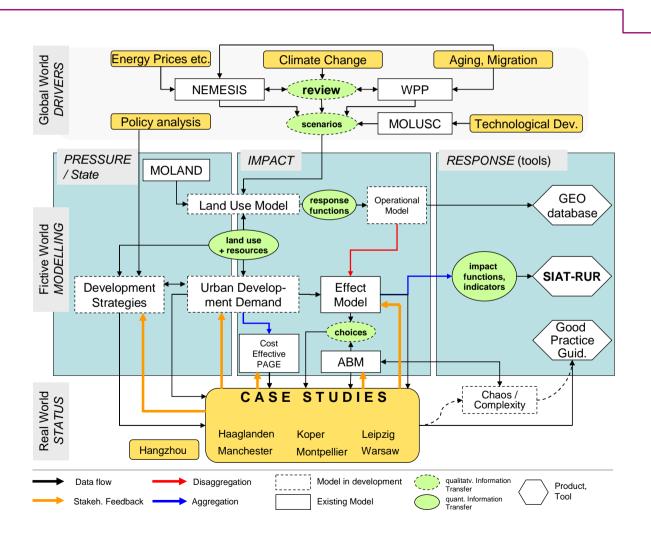
Case studies:

 For comparative scenario-analysis of policy options - in close collaboration with regional stakeholders & development of concepts and methodologies



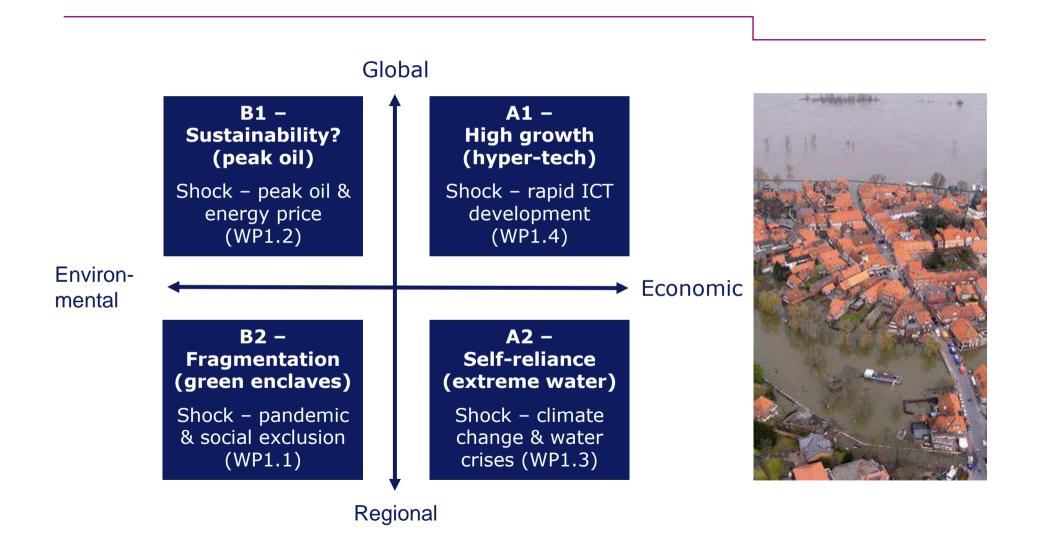


Integration of methodology



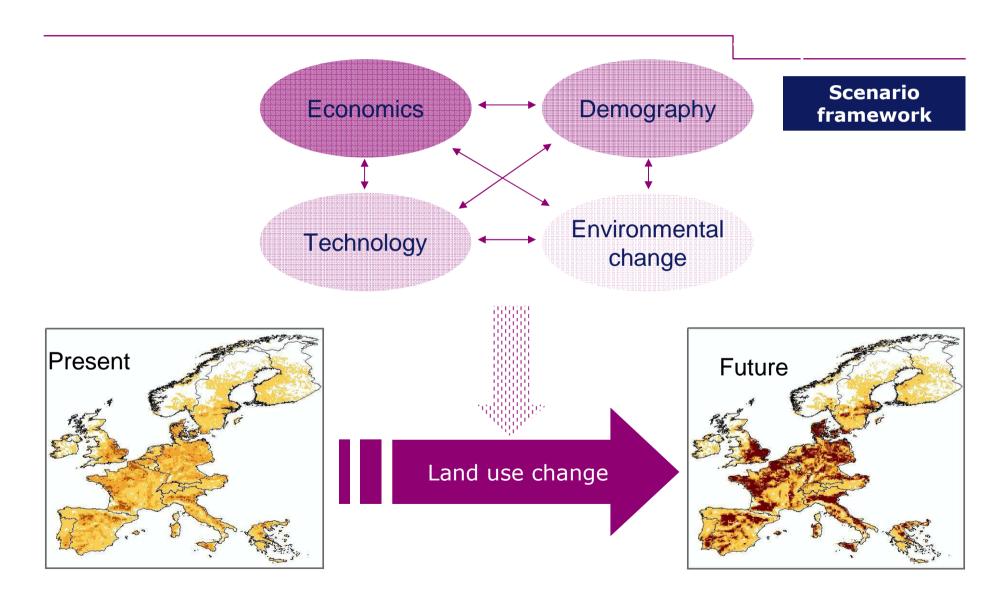


SRES variant scenarios





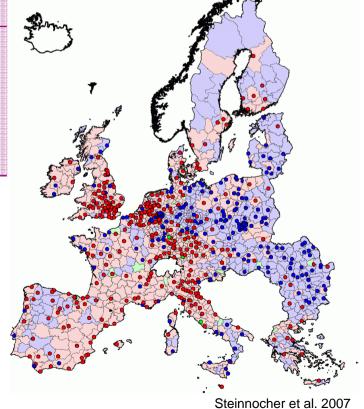
European land use drivers



RUR typology – related to growth dynamics

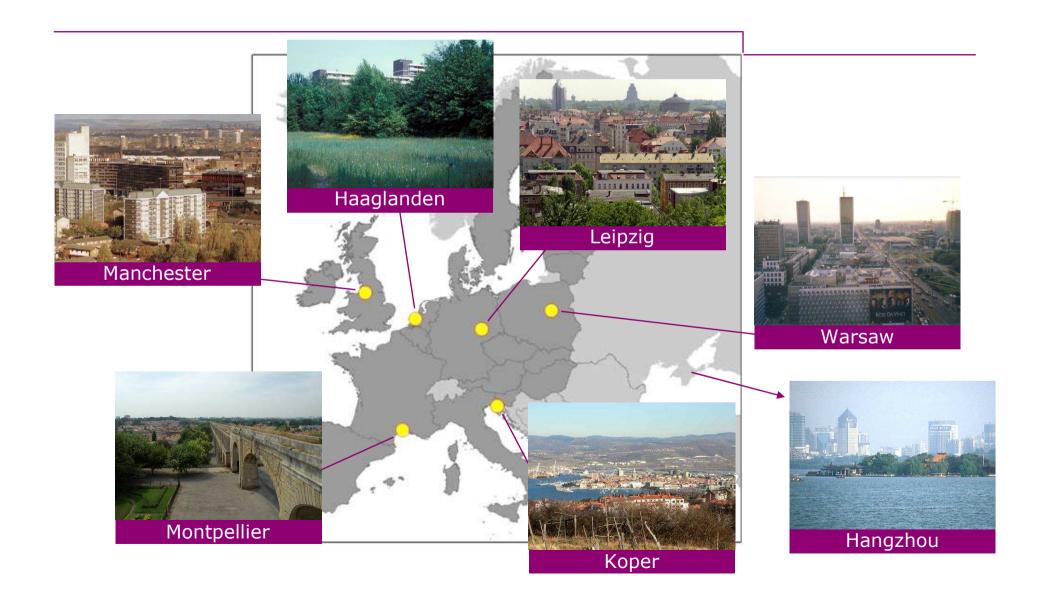


	Core city	Peri-urban area and rural hinterland
Type DD	Decline	Decline
Type DG -s	Decline	Growth - sprawl
Type DG -p	Decline	growth - polycentric
Type G D	Growth	Decline
Type G G-s	Growth	Growth - sprawl
Type GG -p	Growth	growth - polycentric





Case study regions



Object of strategies: priority PLUREL land use issues of the regions



Issue/Region	Warsaw	Koper	Montpellier	Haaglanden	Manchester	Leipzig	Hangzou
1 land press. due housing	1 st	1 st	1 st	1 st		1 st	1 st
2 agriculture under pressure	3 rd	3 rd	2 nd	2 nd	2 nd		2 nd
3 high value nature at risk	2 nd	2 nd			1 st		
4 integration of tourism			3 rd	3 rd		3 rd	3 rd
5 traffic					3 rd	2 nd	
6 water management							



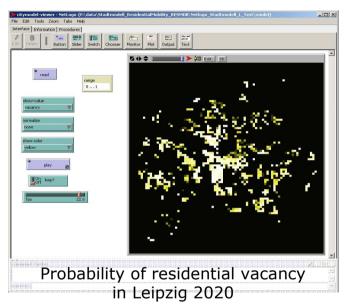
Stakeholder involvement

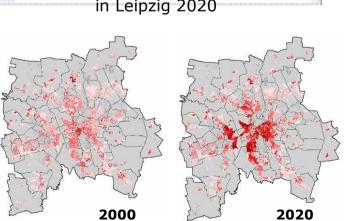
- Direct involvement through the Board of Stakeholders and in the case study teams
- Regional workshops, interviews and round tables with planners
- Evocative events that raise people's interest, audio-visual communications, workshops and roundtables in the case study areas
- News items will be designed for release through podcasts, newspapers and local television and radio
- General means of dissemination, such as the project website and newsletter

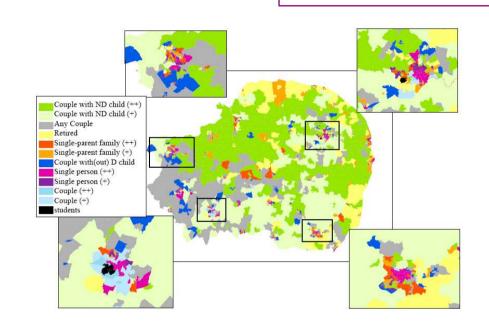


Examples

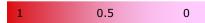


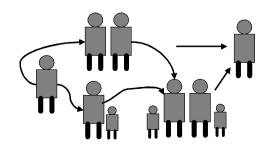






Probability of concentration of young single households in Leipzig



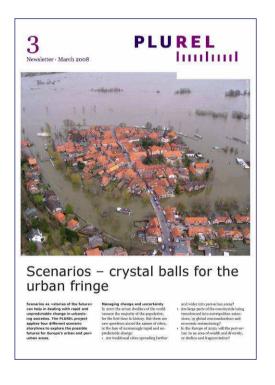












Project website





Project

Consortium

Organisation

Info for policy makers

Case study regions

News

Products Contacts

Links

Vacancies



Welcome

The PLUREL project: Peri-urban Land Use Relationships - Strategies and Sustainability Assessment Tools for Urban-Rural Linkages is a European integrated research project within the European Commissions sixth framework programme. The project began on the first of January 2007 and is expected to end the 31st of December 2010.

The webpages consists of a public section and an internal section that will only be available to the participants in the project. The project newsletter, reports and other news items will be made available on the public site as the project evolves. The internal section will serve the practical function of exchange between project partners.

2nd PLUREL newsletter, October 2007. Email Password

Forgot password? Log

LEIPZIG CHARTER on Sustainable European Cities, May 2007



International conference: Impact Assessment of Land use changes, 6th-9th April 2008, Berlin



Sign up for the PLUREL newsletter >



This web-page is edited by the University of Copenhagen [contact].

The photo on the front page is by Prof. Marina Pintar and display a view towards the city of Koper in Slovenia, one of PLURELS case study regions.