32nd International Geographical Congress in Cologne

Land use and land cover changes in Øresund region

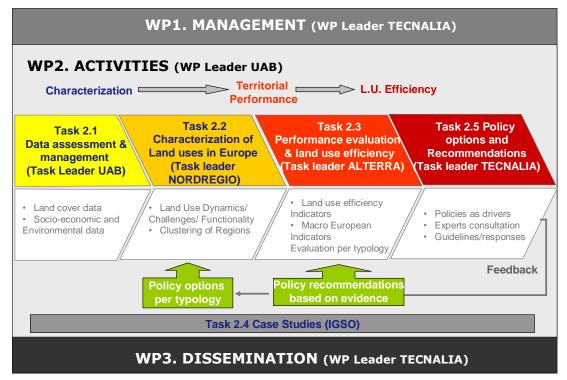
Mariola Ferenc

Institute of Geography and Spatial Organization Polish Academy of Sciences mferenc@twarda.pan.pl

Session on Land Use and Land Cover Change Urbanisation and demographic change



EU-LUPA project



1990-2000-2006

Corine Land Cover

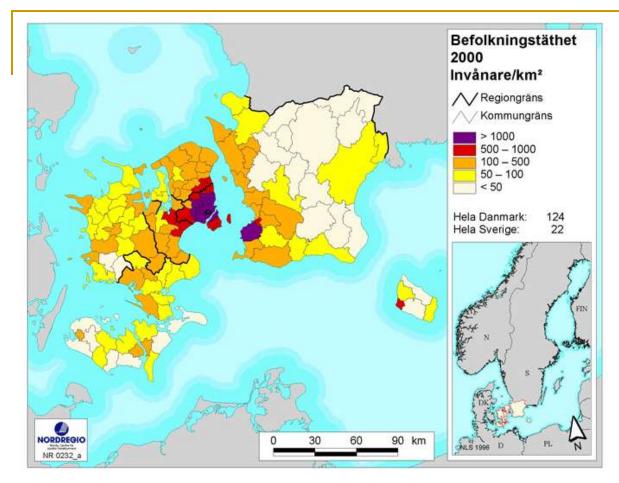
Research tasks

- 1. What are the main processes of land use and land cover changes in region?
- 2. What are the factors influencing changes?









The Øresund Population density in 2000

Befolkningstäthet = population density

Kommun = municipality

Invånare/km² = Population/km²

Hela Sverige/Danmark = Whole of Sweden/Denmark

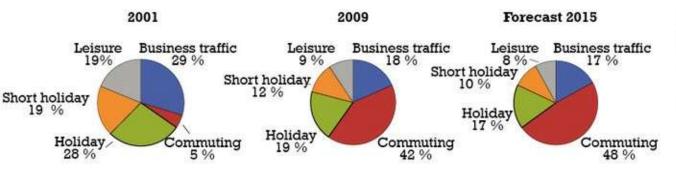
Source : http://www.nordregio.se/

Daily traffic across the Øresund Bridge

Category	2001	2005	2007	2008	2009	Growth 2001 - 2009
Passenger cars	7,290	12,328	16,831	17,767	17,986	147%
Motorcycles	67	82	106	96	93	39%
Vans and caravans	204	300	465	441	449	120%
Lorries	421	737	927	932	817	94%
Coaches	103	155	153	131	117	13%
Total traffic	8,085	13,602	18,482	19,367	19,462	141%

Source: Ten years, the Øresund bridge and its region http://uk.oresundsbron.com/page/34

Purpose of travel with passenger car over the Øresund Bridge



Commuting: Trips between home and work

Business traffic: Business trips

Leisure time: One-day trips by private

persons

Holiday: Trips with at least four

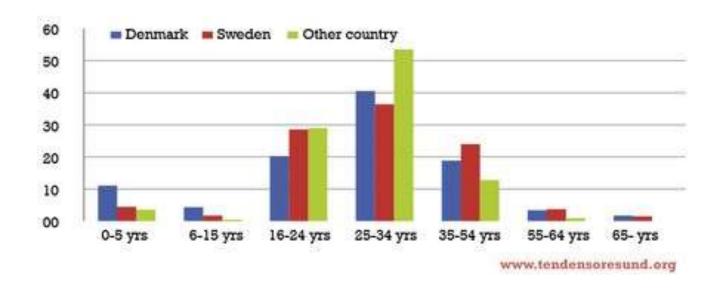
overnight stays

Short holiday: Trips with one to three

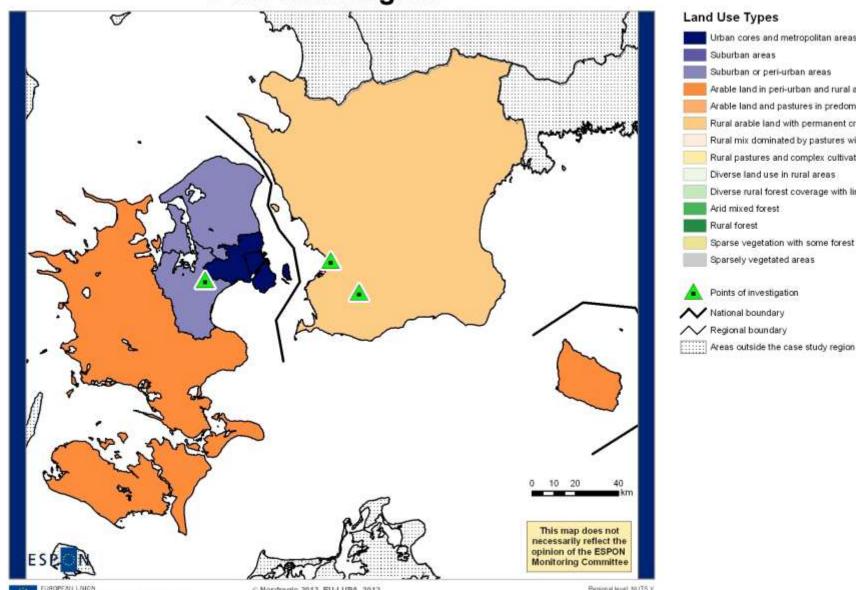
overnight stays

www.tendensoresund.org

Migrants from Öresund DK to Öresund SE by nationality and age (2009, percentage)

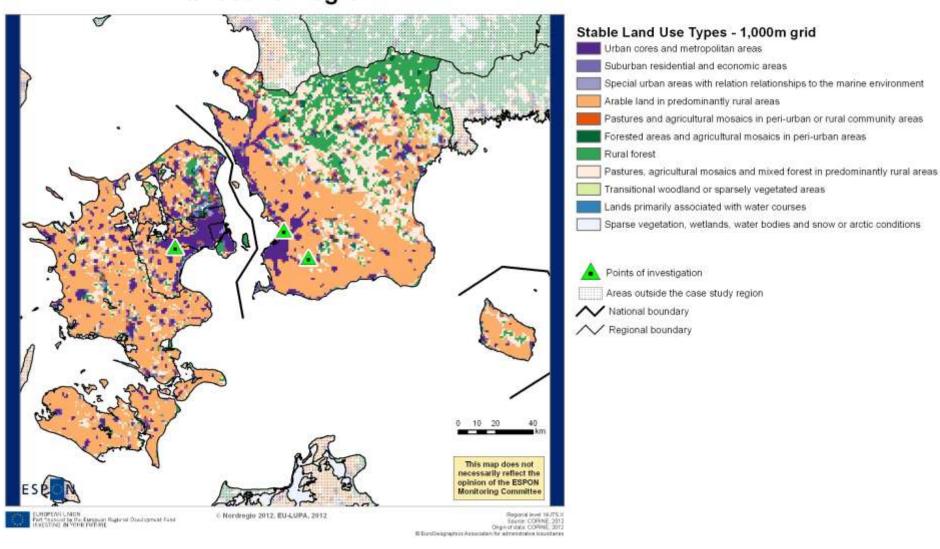


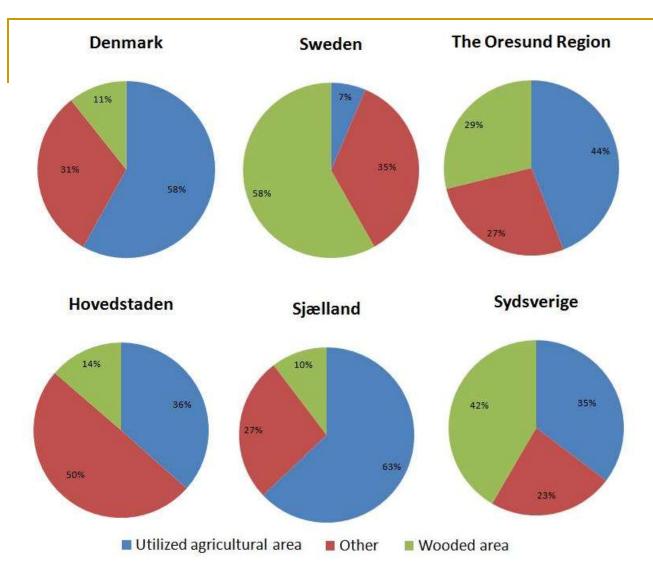
Stable Elements of Land Use 1990-2006 **Øresund Region**





Stable Elements of Land Use Cover 1990 - 2006 Øresund Region





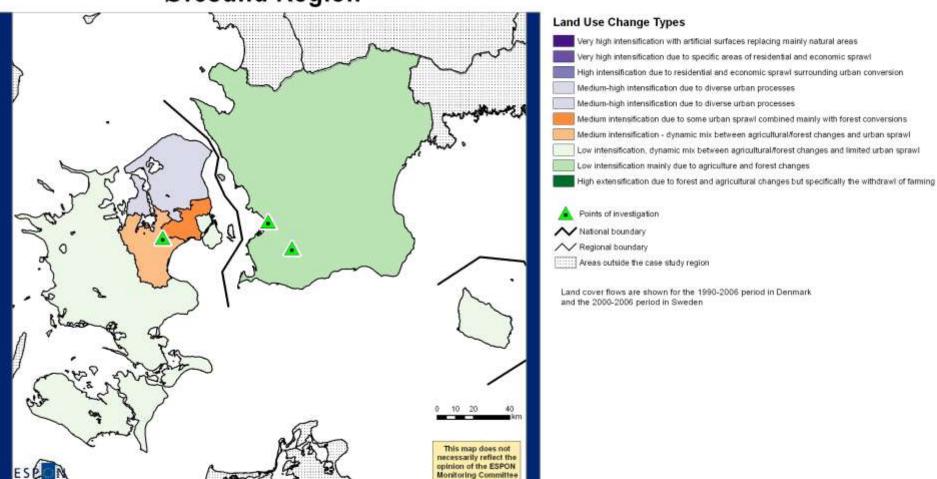
Structure of land use in 2009

Source: Eurostat

Land Use Change Typology 1990 – 2006 Øresund Region

C Nordregio 2012, EU-LUPA, 2012

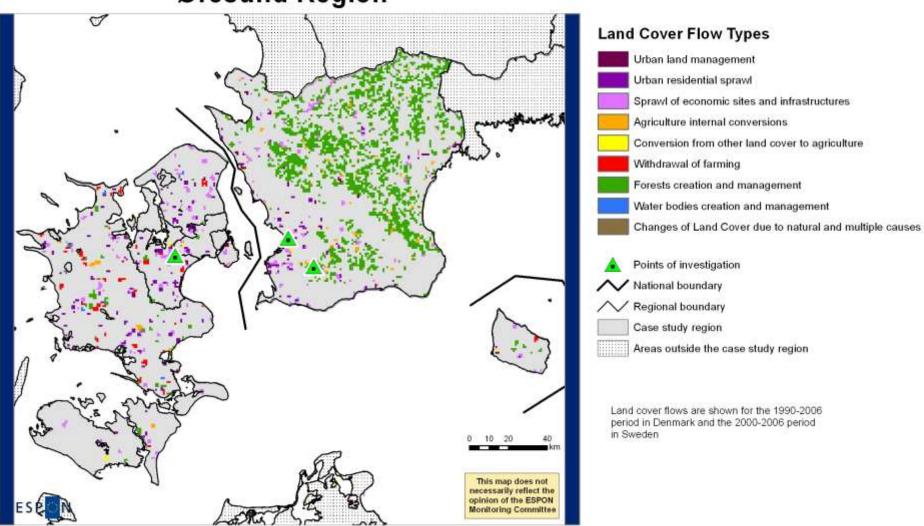
(ROPEAN UNION of "inched by the European Ruge of Development Fund of ST line on Fire R. RWT line.



Snorte: CORRE: 2012 Origin at data: CORRE: 2012

© EuroCongraphics Association for selected strative boundaries

Land Cover Flows 1990-2006 Øresund Region



EUROPEAN LINEN
Part Textices by the European Regional Resolutionant Fund
in Ventions and Vention Full Office.

© Nordregio 2012, EU-LUPA, 2012

Regional level NUTS N Source CORINE, 2012 Original data: CORPAE, 2017 Si EuroDeographica Association for administrative boundaries.

- Changes in urban core and urban and economic sprawl are strictly connected to the economy transformation from traditional spatially concentrated urban activities to more dispersed activities of high-tech and R&D sectors. Urban and economic sprawl is quite controlled according to "finger plan", which indicates major development axis of Capital Region along sea coast and main routes.
- A parallel processes occurred on Swedish side, which accelerated after constructing Oresund Bridge. On peri-urban and rural areas increase of different forms of leisure activities function instead of intensive agriculture is significant. Intensive agriculture is gradually shifted to Jutland Penninsula and, finally, to new member states. However this process is much elder than since beginning of 1990s.

Conclusions

- increasing importance of multifunctionality
- intensive, trademark agricultural transfered to more organic, focus on producing good quality food
- recreation and the production of bioenergy
- strong pressure of new investments of agglomeration development, especially new settlements. Knowledge industry and research activities are moving to rural or coastal areas, because people would work in nice landscape and clean conditions
- One of the most important results is that the functional changes of land use in rural areas are far stronger than changes in land cover structure. Also we should say, that changes in semiurban areas are more stronger than in cities and in rural areas.

32nd International Geographical Congress in Cologne

Thank you for attention

Mariola Ferenc

Institute of Geography and Spatial Organization Polish Academy of Sciences mferenc@twarda.pan.pl

Session on Land Use and Land Cover Change Urbanisation and demographic change

