



NORDREGIO
Nordic Centre for Spatial Development

Regional Strategies for Green Growth and Innovation

RIS3 and Green Growth

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norden

Nordic Council of Ministers

Introduction

- Nordic Working Group for Third Generation Regional Policy 2011-2012
- Purpose: A reference on regional challenges and opportunities to achieve green growth
- Three steps:
 - Literature review, quantitative study
 - Two case studies
 - Policy recommendations

Indicators of green growth

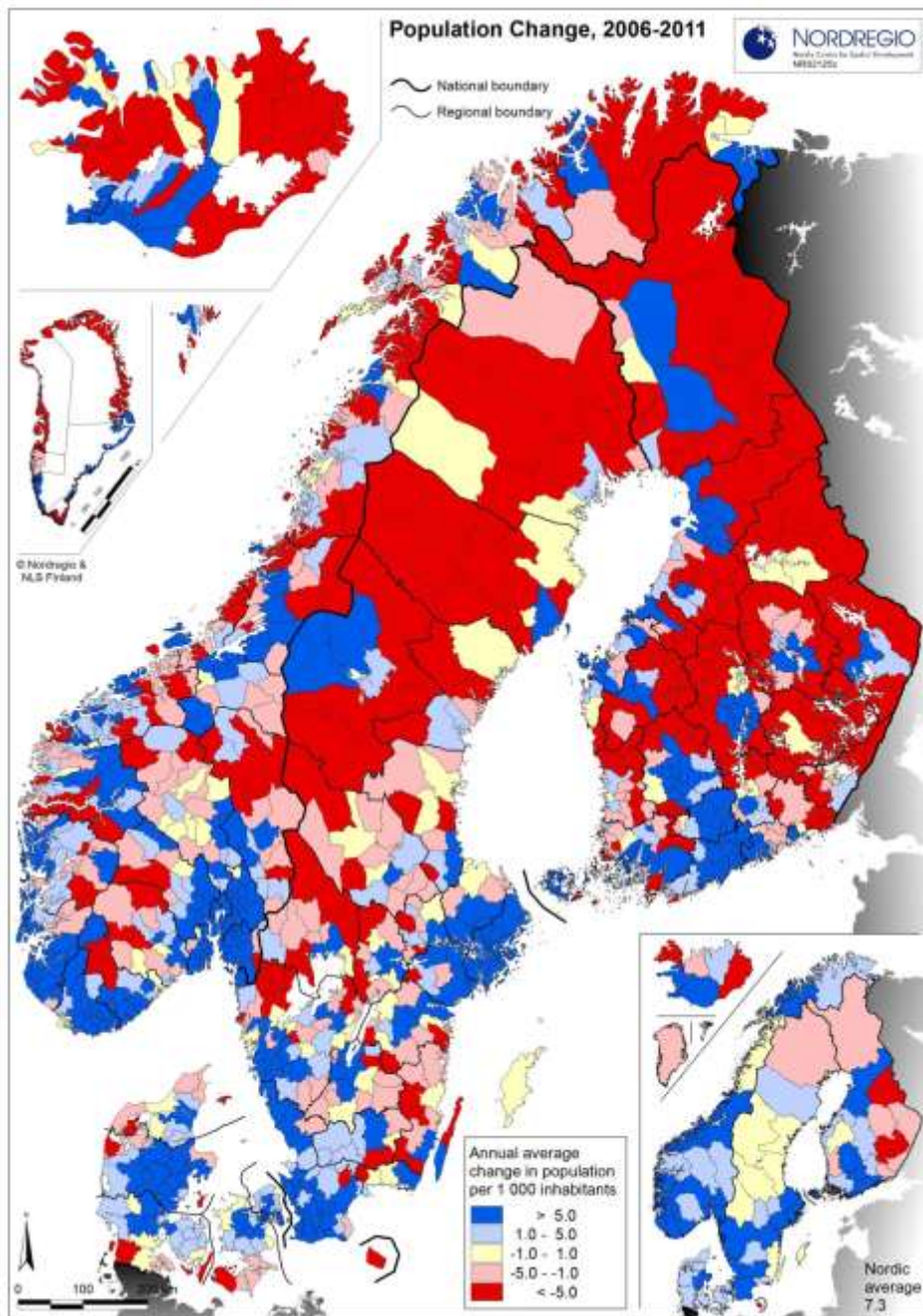
- OECD and EIO indicators
- Difficult to adapt to regional scale, and to use in Nordic context
- 24 indicators, 3 main themes
 - Socio-economic conditions
 - Innovation capacity and performance
 - Natural assets
- The urban-rural / consumption-production contrast

Two case studies

Selection:

- Urban/rural
- Public policy focus on “green growth” at regional level
- Skåne: Cleantech
- South Savo: Bioenergy





Socio-economic conditions

- Positive / negative population development
- Regional GDP above / below the EU-average
- Diversified economy / dependence on primary industries

Skåne

Approx. 300 Cleantech firms

- Water and wastewater management, sustainable urban construction, biogas

South Savo

Approx. 75 bioenergy firms

- Wood chips production

Innovation capacity and performance

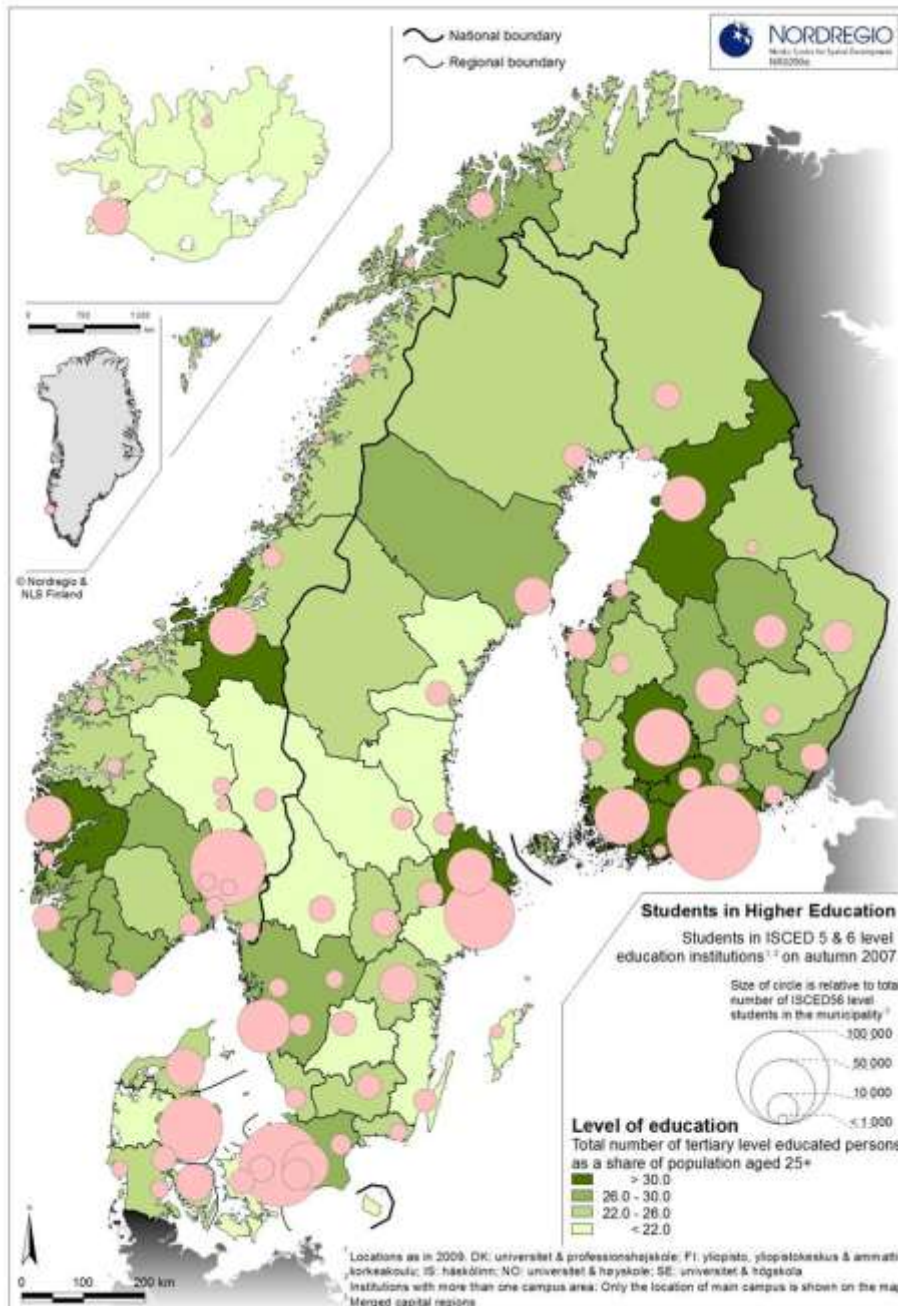
- High / low education level
- Many / limited higher education opportunities

Skåne:

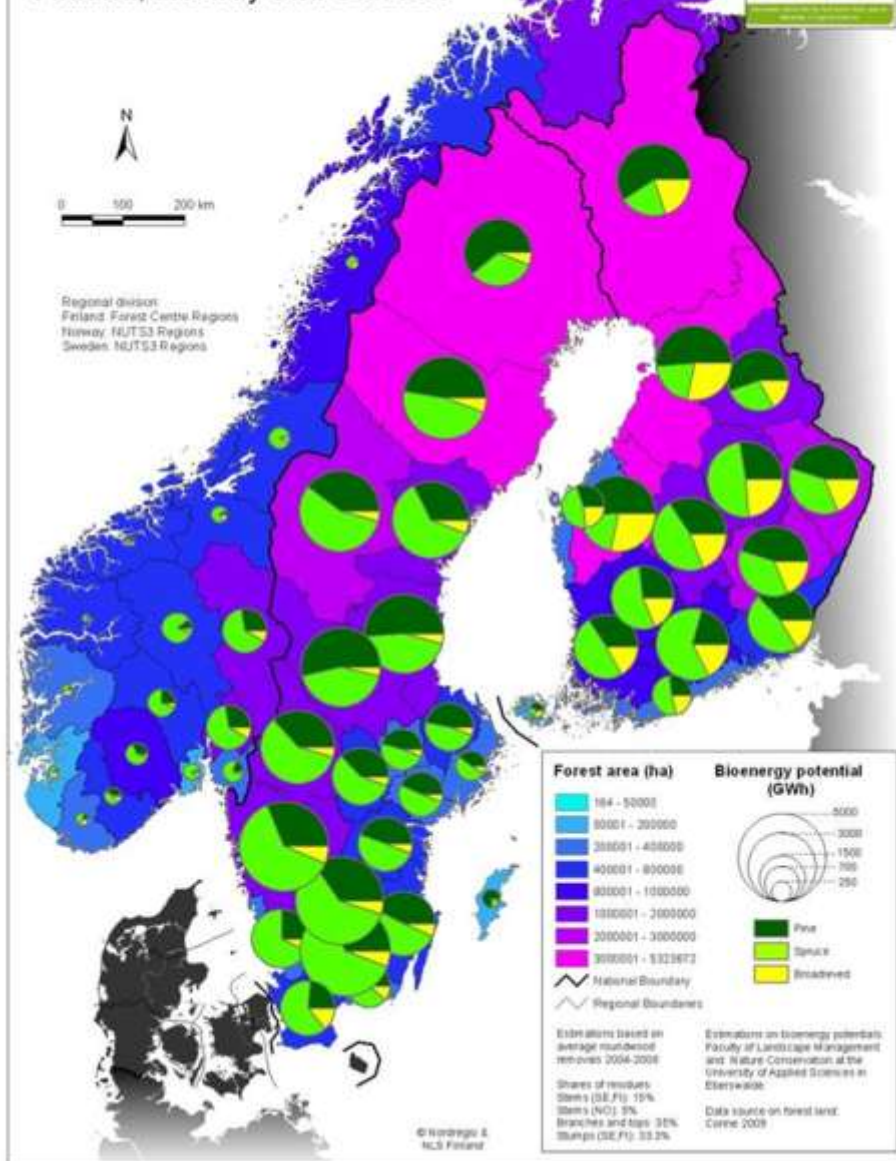
- Four higher education institutions – engineering, industrial environmental economics, sustainable urban planning, biotech and biochemistry, water management

South Savo:

- University of Applied Sciences – engineering
- Vocational college
- Two university campuses
- Research centre, e.g. Bioenergy



Bioenergy potentials from forest residues (Scenario 2) and forest area in Finland, Norway and Sweden



Natural assets (energy)

- Medium / high potential from forest residues (ha)

Skåne

- Bioenergy from agriculture
- Energy efficiency

South Savo

- 88% of land area is forest
- 40% of wood energy produced from wood chips, potential to quadruple production – wood pellets and biocoal

Cleantech in Skåne

Main drivers for development:

- Cooperation environmental and business development divisions at Region Skåne, 2001, network organisation
- Analysis to focus environmental business development, 2005
- Regional Council commitment since 2006
- Malmö City focus on sustainable urban construction
 - Dealing with industrial decline during the 1990s

Sustainable Business Hub

– a cluster initiative

- Part of Skåne's Innovation Strategy – Open innovation arena “smart, sustainable regions/cities”
- Business development and export, sub-networks
- The test bed approach
 - Municipalities to support innovations in cleantech
- Export of sustainable solutions, sales missions, collaboration with Business Sweden (Export Council)

Bioenergy in South Savo

Main drivers for development:

- Vast natural resources
- National carbon dioxide tax incentive, 1990
- Two municipally-owned energy companies, bioenergy in the 1990s
- Energy foundation – profits from energy company to support development projects
- Logistical position – potentials in export of biofuels and -coal

Biosaimaa cluster organisation 2011–

- Centre of Expertise Programme since 2002, Miktech technology and innovation centre
- Bioenergy professorship: Position to support firms in R&D activities
- Preparation for post-2013, Innovative Cities (urban focus)
- Bioenergy, logistics and wood processing
- Biologistics centre in 2013, biocoal plant 2015, 100+ new jobs?

Policy implications: What is new?

- Increased focus on natural resources
- Not a new strategy - integration of green growth
- Cross-sectoral collaboration
 - Business development, environment, etc.
 - Inclusion of civil society, e.g. NGOs
- Identify potentials for eco-innovation
 - Life-cycle perspective

Green Growth Analysis

- The 3 themes: Socio-economic, innovation, natural assets
- Potential in existing business structure for eco-innovation, including industries with high environmental impacts
- Compare with other places, potentials for international/interregional collaboration
 - Ex. Malmö City and City of Copenhagen common Green Growth Strategy, Malmö City and Ministry of the Environment in Hong Kong
 - Ex. Eastern Finland Bioenergy Programme

Green Public Procurement

- An opportunity to act as demanding costumer and driver of green growth, environmental and economic goals
- Demonstration and test installations
 - Ex. Malmö Cleantech Centre and the test bed approach
- Reference projects
 - Potential demand in other public institutions and private market

Thank you for your attention

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