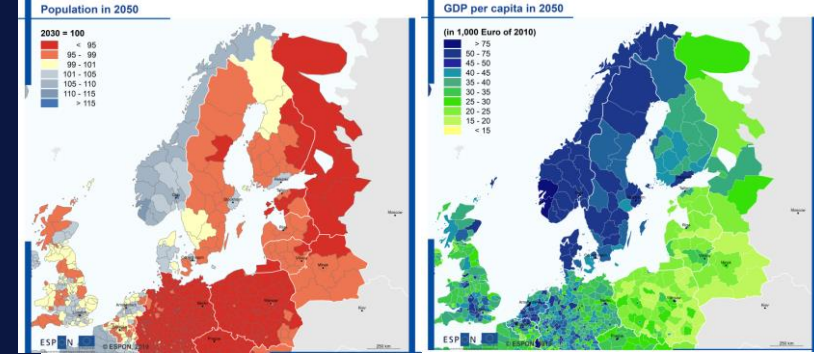


Territorial scenarios for the Baltic Sea Region in 2050 - ESPON BT2050

Luciane Aguiar Borges, Nordregio
Networking session
ESPON SEMINAR, Helsinki, November 2019

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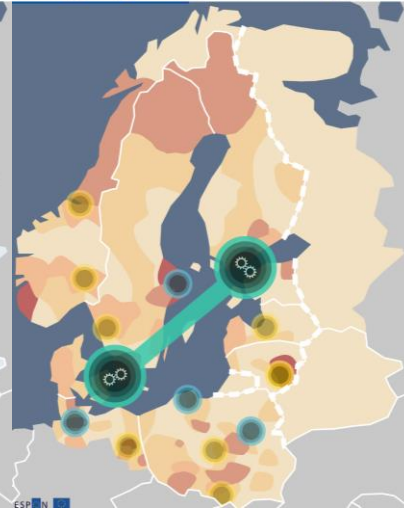
The ESPON BT2050



Circular Economy in the Baltic Sea Region, Scenario 2050



Green-tech giants and global attractiveness in the Baltic Sea Region, Scenario 2050



Transport and urban hierarchy in the Baltic Sea Region, Scenario 2050



Aim & outcomes

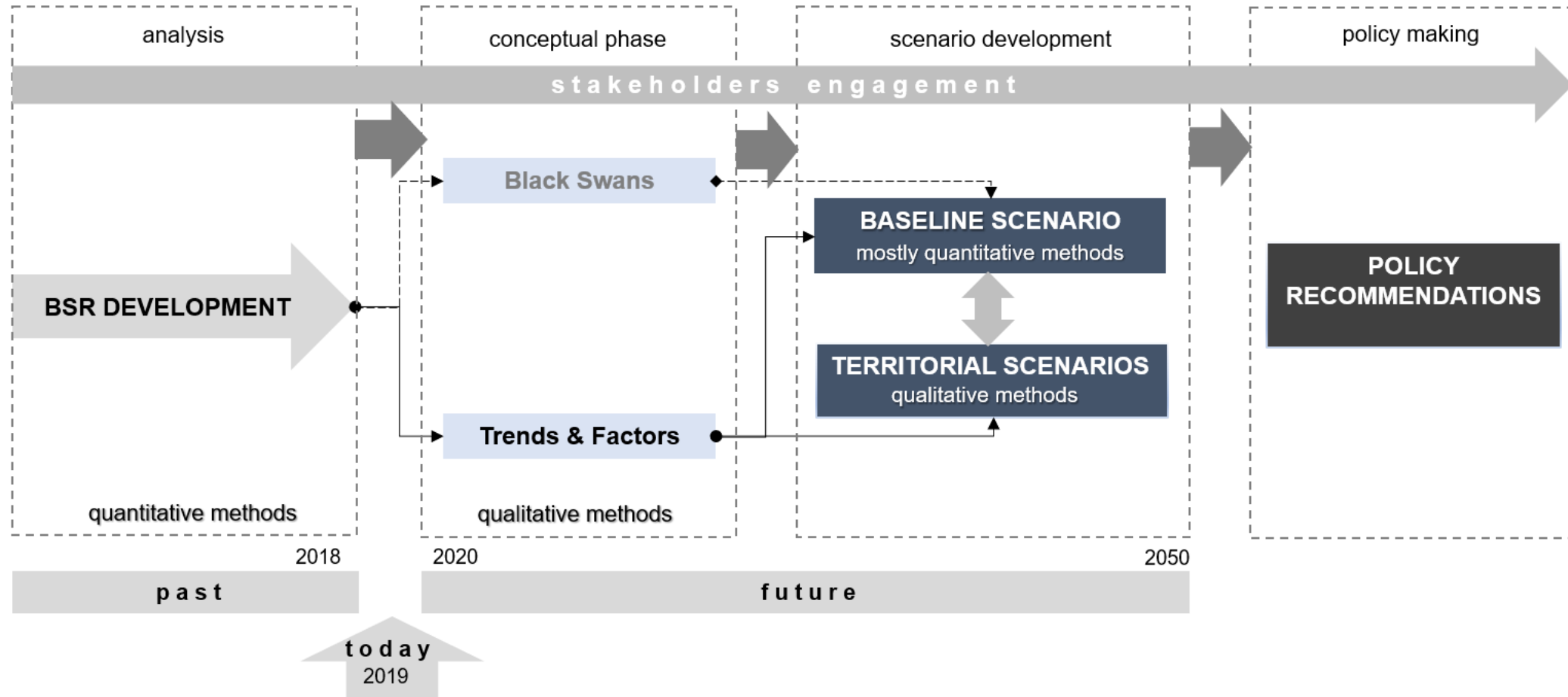
Aim:

- Develop territorial scenarios for the BSR in order to increase evidence based on the territorial dimension
- Support the VASAB members in their work of designing and implementing sound policies for the future of the Baltic Sea Region

Main outcomes:

- An overview of the development of the region based on recent data
- Baseline Scenario for the Baltic Sea Region for the years 2030 and 2050.
- Two alternative territorial scenarios for the BSR 2050.
- Policy recommendations for the future of the Baltic Sea Region

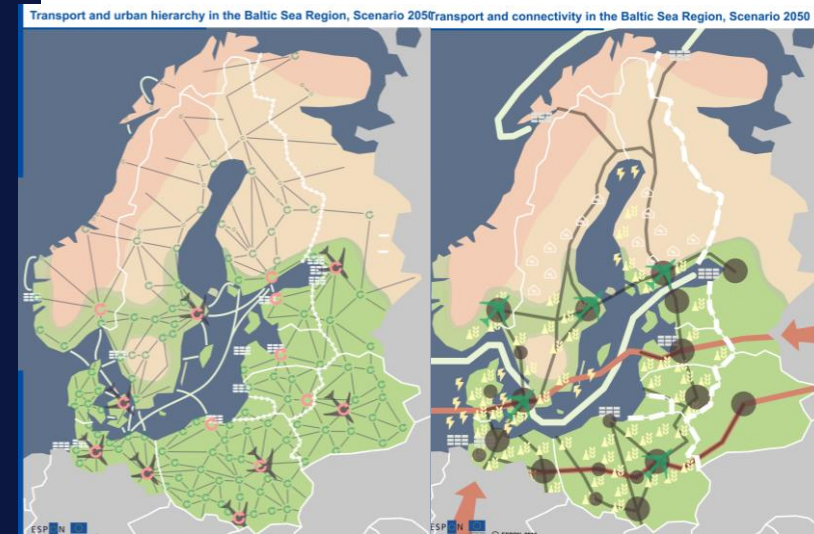
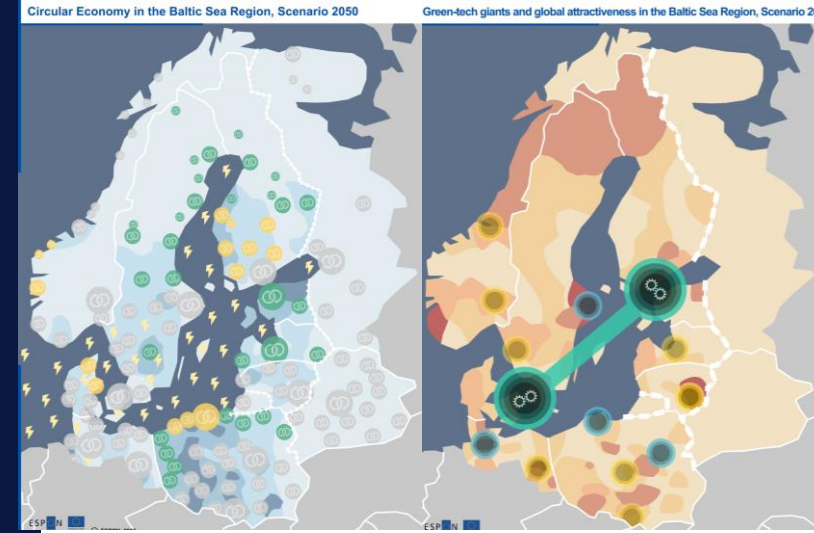
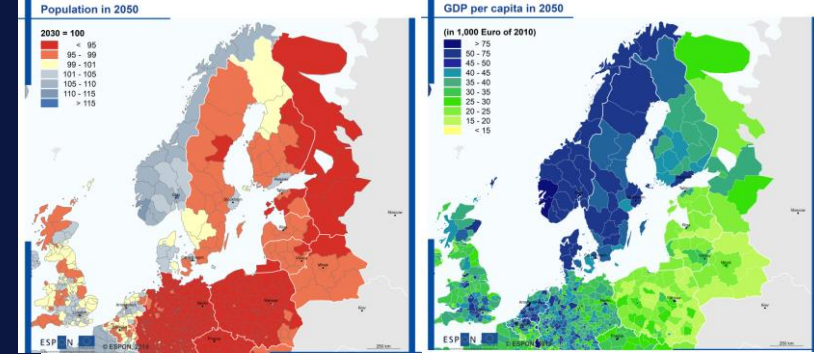
ESPON BT 2050 – research framework



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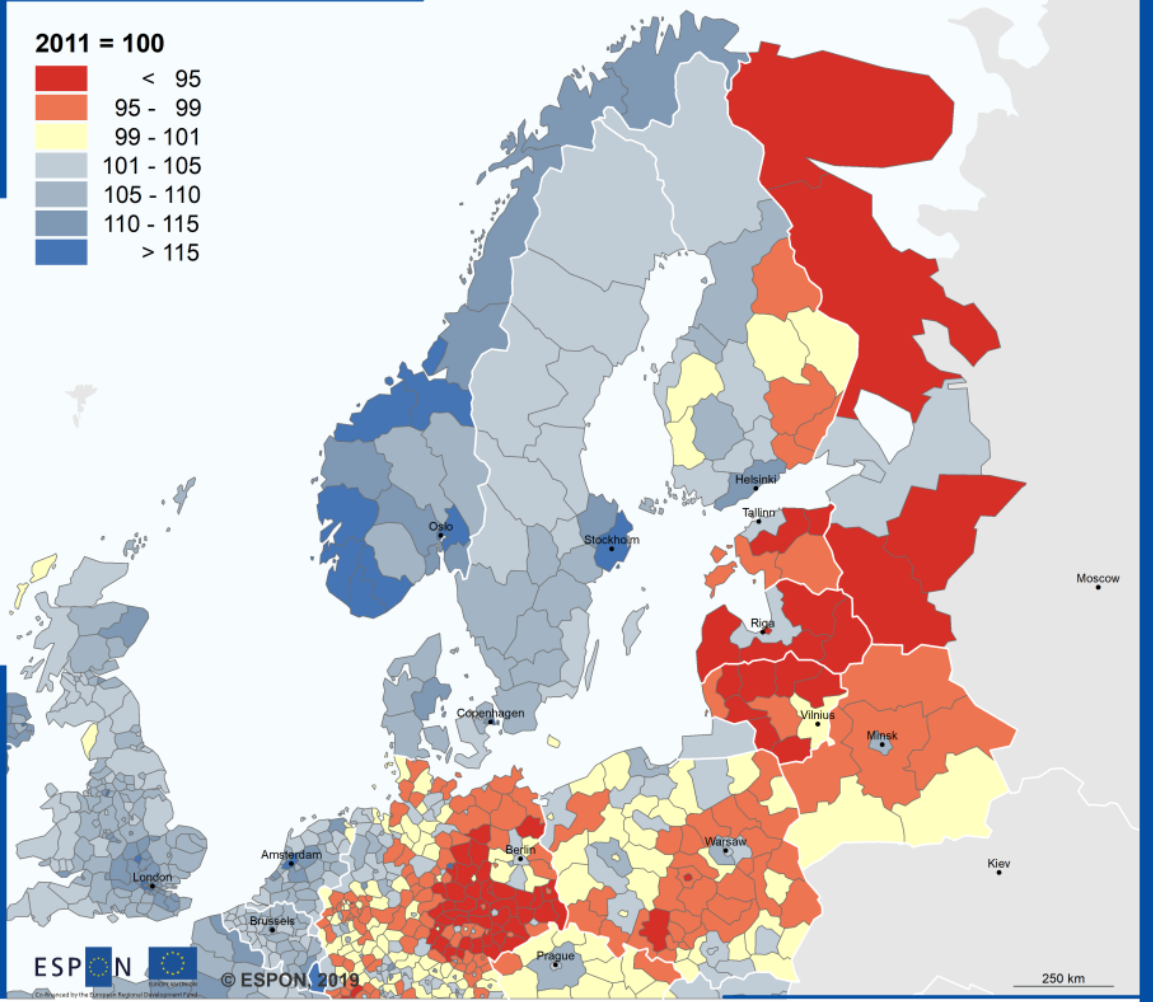
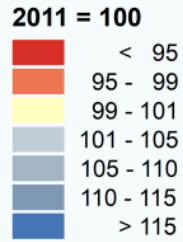
BT2050: territorial perspectives

Baseline Scenario



Baseline scenario - population development

Population in 2030

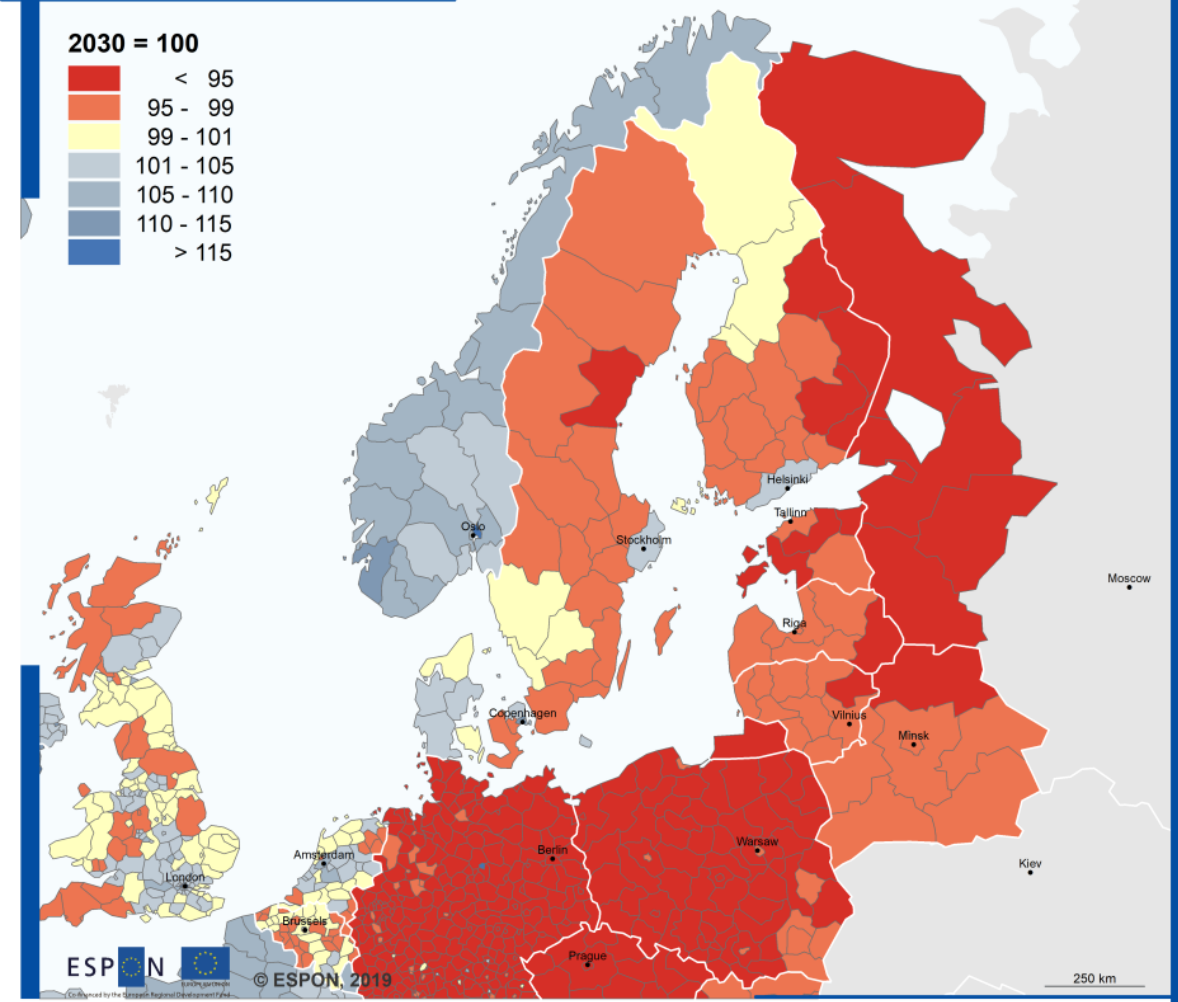
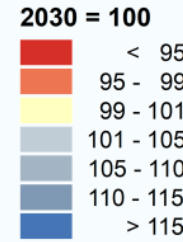


ESPON © ESPON, 2019

Territorial level: NUTS 3 (Vers. 2016), SNUTS 2 (BY, RU)
 Source: ESPON BT2050, 2019
 Origin of data: SASI Model, Spiekermann & Wegener,
 Urban and Regional Research (S&W), 2019
 © EuroGeographics for the administrative boundaries

Map 1: Population in 2030 (2011=100) in the BSR
 Source: S&W, SASI Model, 2019

Population in 2050



ESPON © ESPON, 2019

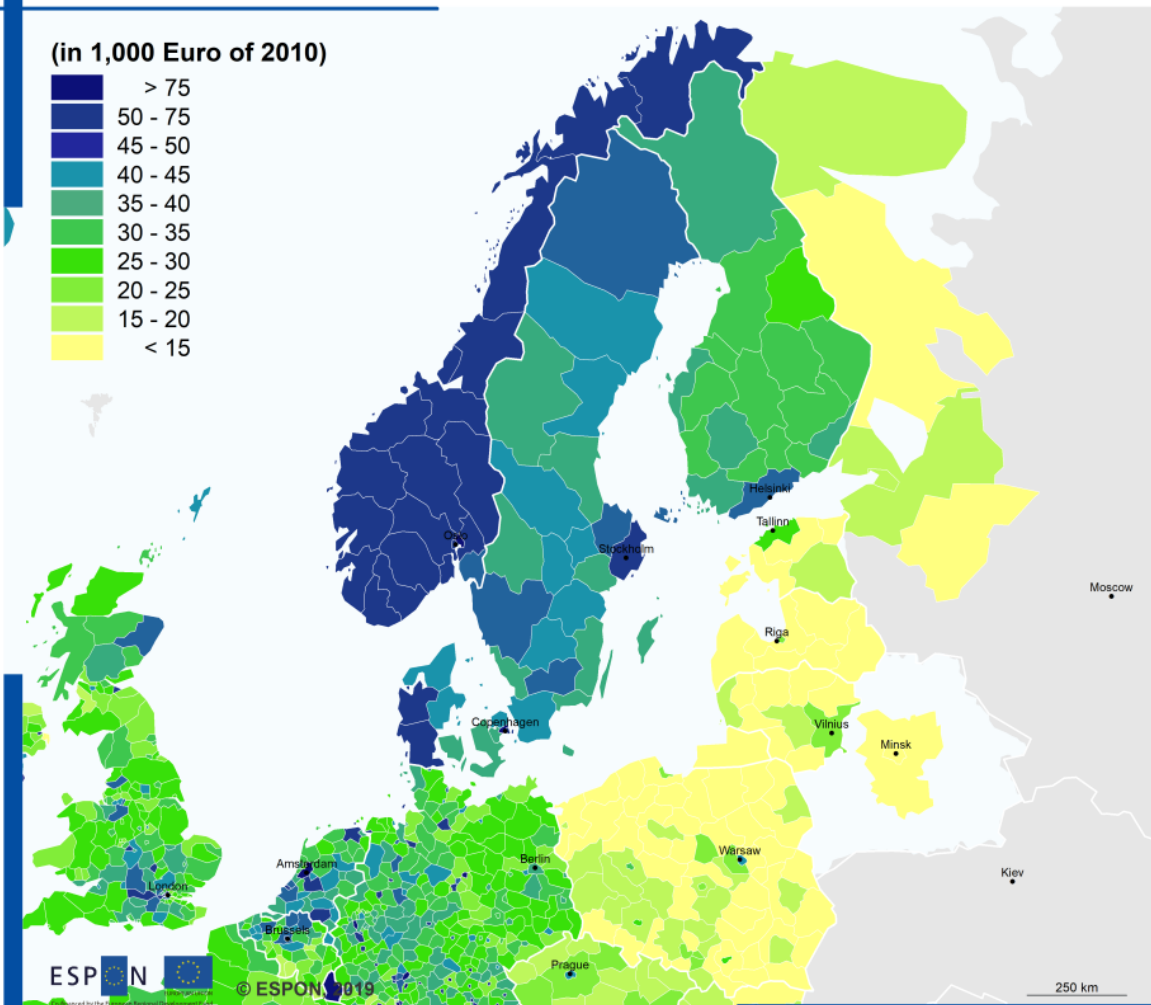
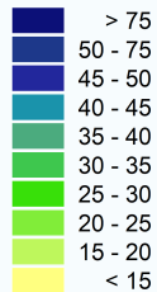
Territorial level: NUTS 3 (Vers. 2016), SNUTS 2 (BY, RU)
 Source: ESPON BT2050, 2019
 Origin of data: SASI Model, Spiekermann & Wegener,
 Urban and Regional Research (S&W), 2019
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Map 2: Population in 2050 (2030=100) in the BSR
 Source: S&W, SASI Model, 2019

Baseline scenario – GDP 2030 - 2050

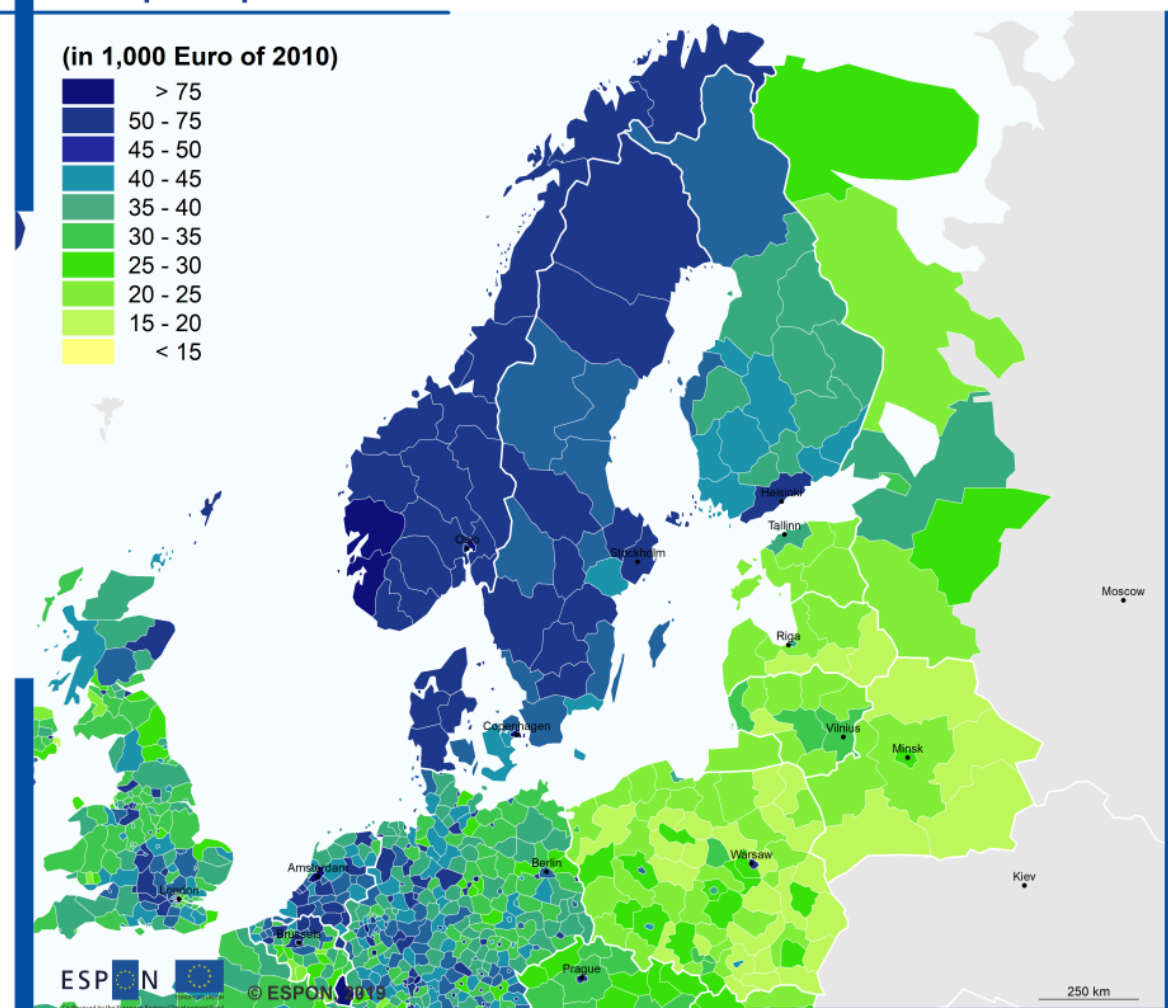
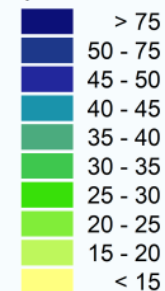
GDP per capita in 2030

(in 1,000 Euro of 2010)



GDP per capita in 2050

(in 1,000 Euro of 2010)



Territorial level: NUTS 3 (Vers. 2016), SNUTS 2 (BY, RU)
 Source: ESPON BT2050, 2019
 Origin of data: SASI Model, Spiekermann & Wegener,
 Urban and Regional Research (S&W), 2019
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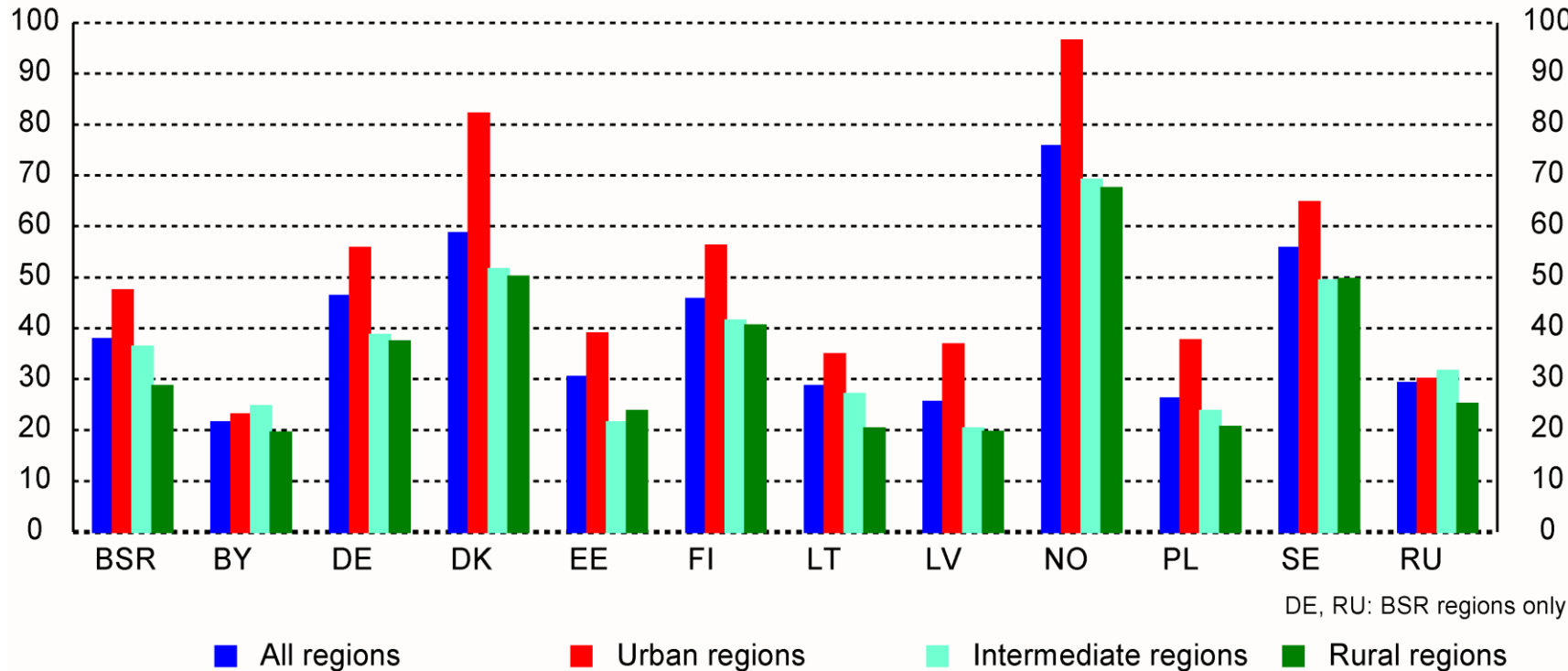
Territorial level: NUTS 3 (Vers. 2016), SNUTS 2 (BY, RU)
 Source: ESPON BT2050, 2019
 Origin of data: SASI Model, Spiekermann & Wegener,
 Urban and Regional Research (S&W), 2019
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Map 3: GDP per capita in 2030 (in 1,000 Euro of 2010) in the BSR
 Source: S&W, SASI Model, 2019

Map 4: GDP per capita in 2050 (in 1,000 Euro of 2010) in the BSR
 Source: S&W, SASI Model, 2019

Baseline Scenario: territorial implications

GDP per capita, 2050
(in 1,000 Euro of 2010)

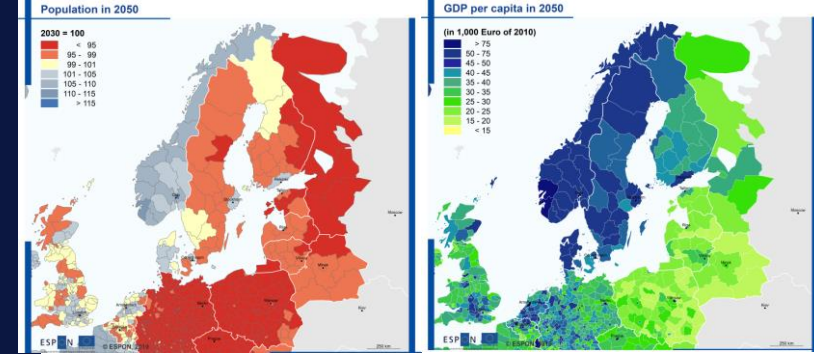


- Urban areas have much higher GDP per capita than intermediate and in particular rural areas.
- Urban areas of the Nordic countries have the highest economic performance by 2050, one of the reasons for the positive population development there.

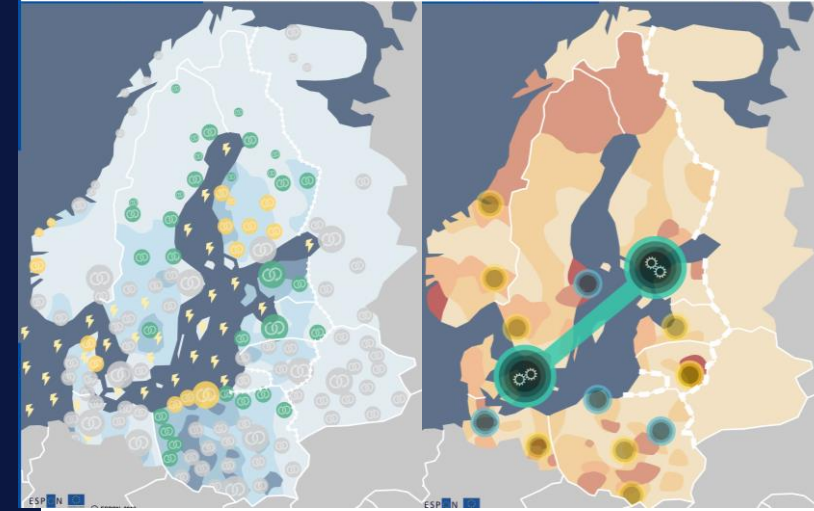
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BT2050: territorial perspectives

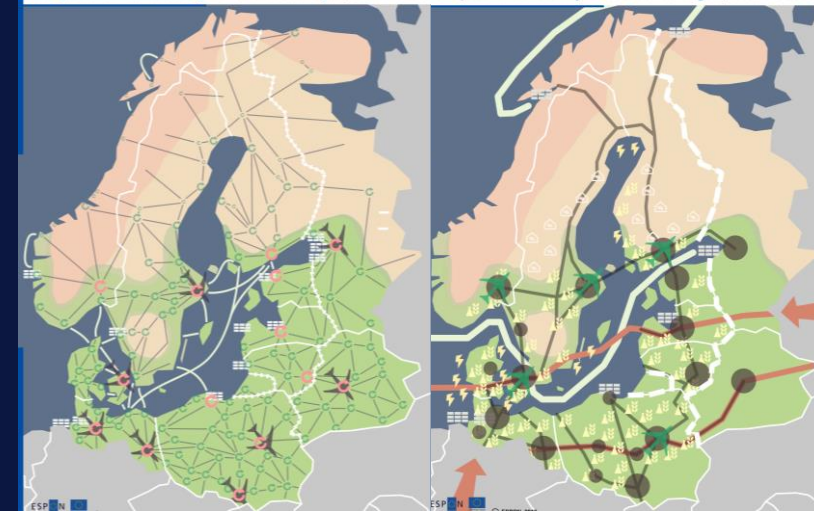
Territorial Scenarios



Circular Economy in the Baltic Sea Region, Scenario 2050



Transport and urban hierarchy in the Baltic Sea Region, Scenario 2050

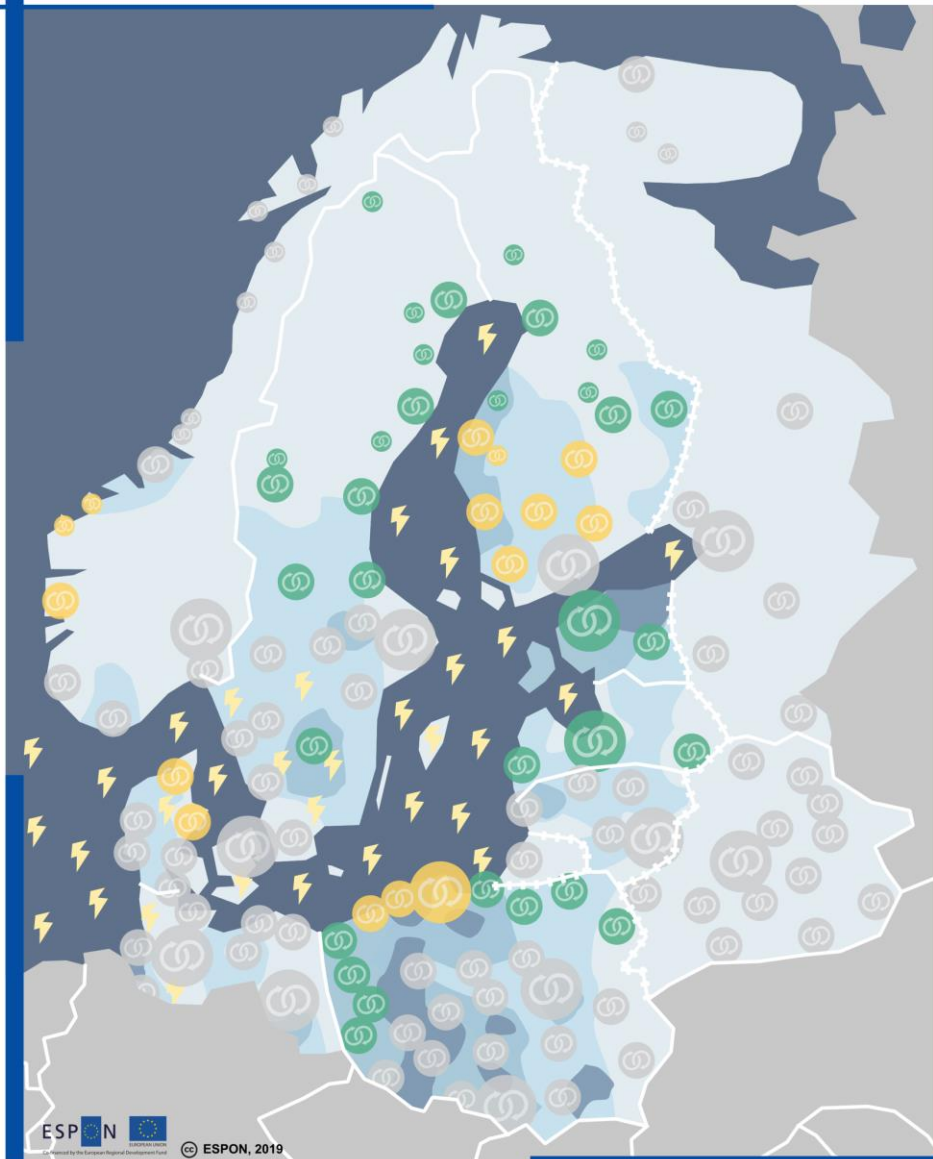


Well-being in a C-E: a RE-mind for a good life

- In 2050 the Baltic Sea Region has developed into a sharing and circular economy region, where citizens have consciously decided to change the existing linear economic model in favour of a better quality of life.
- A repairing and sharing culture, manufacturing and re-industrialisation and technology play a key role in this scenario.
- Bio and organic agricultural production is in focus, while extensive agricultural practices have become less intensive.

Well-being in a C-E: a RE-mind for a good life

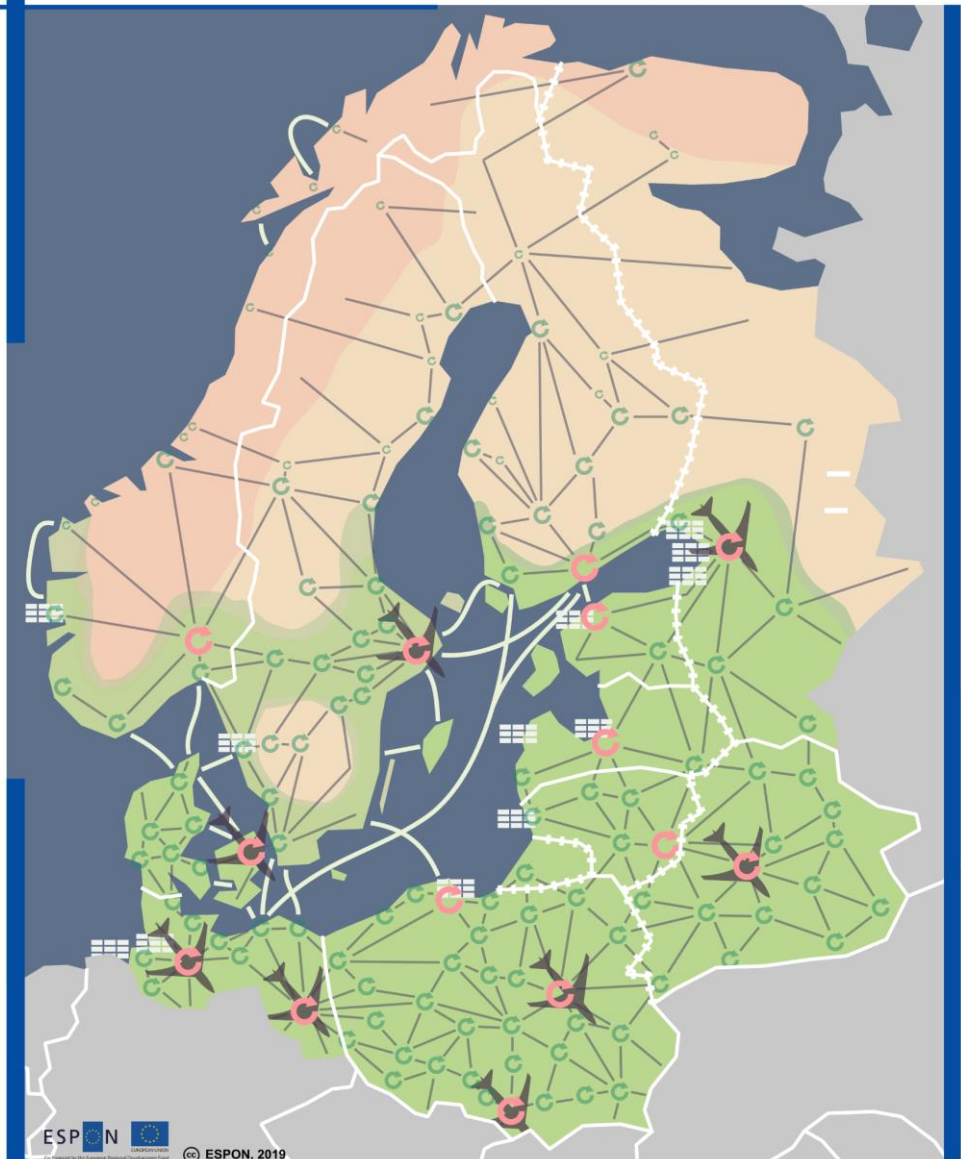
Circular Economy in the Baltic Sea Region, Scenario 2050



- Legend**
- Economy with a focus on technology provision
 - Economy with a focus on providing material
 - Economy without specific focus
 - ⚡ Renewable energy production
 - High potential for regional manufacturing networks
 - Low potential for regional manufacturing networks
 - ++++ Cooperation on external borders

Regional level: NUTS 0
Source: ESPON BT2050 project, Spatial Foresight, 2019
Origin of data: based on different quantitative and qualitative sources, such as Eurostat data, ESPON and VASAB reports, and BSR, national and regional studies
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Transport and urban hierarchy in the Baltic Sea Region, Scenario 2050



- Legend**
- Declining metropolis
 - Gaining regional centre
 - Regionalised transport network
 - Remaining road of the sea
 - ++++ Cooperation on external borders
 - ✈ Declining air hub
 - ⚓ Declining sea hub
 - Food production zone
 - No food production possible

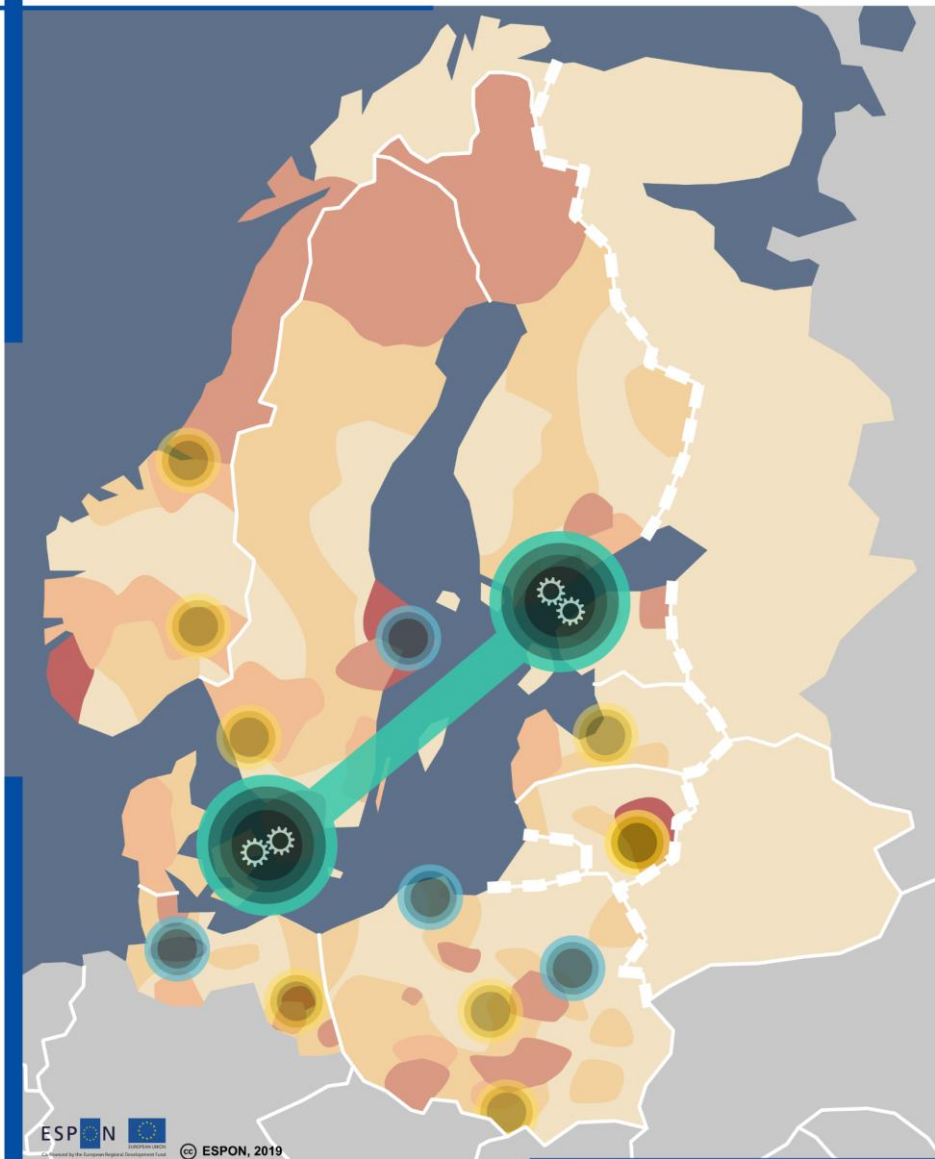
Regional level: NUTS 0
Source: ESPON BT2050 project, Spatial Foresight, 2019
Origin of data: based on different quantitative and qualitative sources, such as Eurostat data, ESPON and VASAB reports, and BSR, national and regional studies
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Growing into green-tech giants: the ecological footprint clear-up

- In 2050 the Baltic Sea Region is a giant in green technology. The achievements of the 4th industrial evolution are in the epicentre of everyday life. This mix of innovation and green technology have led to a reduction of the ecological footprint of the region.
- High-end innovation and the race for more growth have led to an increased 'guilt-free' consumerism.

Growing into green-tech giants: the ecological footprint clear-up

Green-tech giants and global attractiveness in the Baltic Sea Region, Scenario 2050

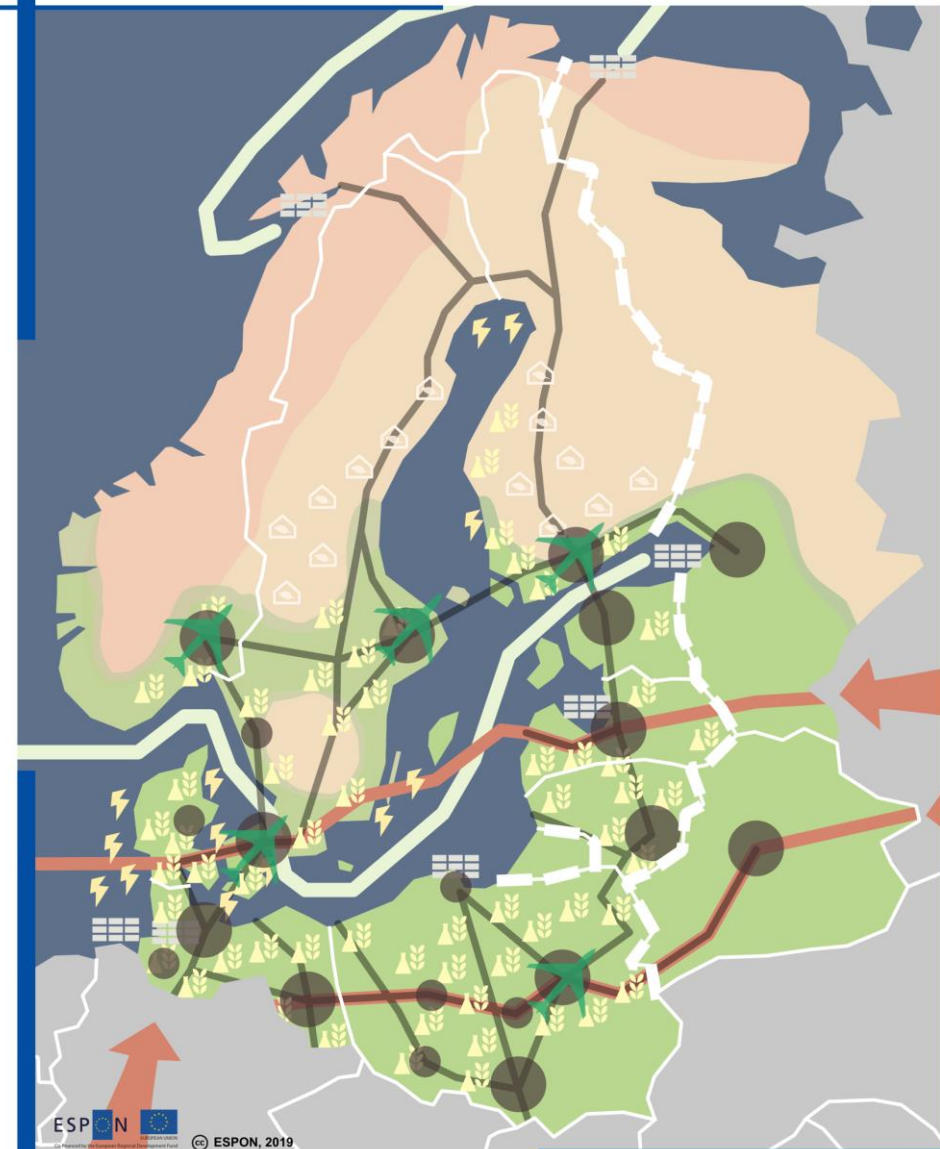


Legend

- Geen-tech global giants
- Greentech innovator
- Green innovation diversification area
- Competition, cooperation on energy
- High number of extra-EU FDI
- Low number of extra-EU FDI

Regional level: NUTS 0
 Source: ESPON BT2050 project, Spatial Foresight, 2019
 Origin of data: based on different quantitative and qualitative sources, such as Eurostat data, ESPON and VASAB reports, and BSR, national and regional studies
 © Spatial Foresight for administrative boundaries

Transport and connectivity in the Baltic Sea Region, Scenario 2050



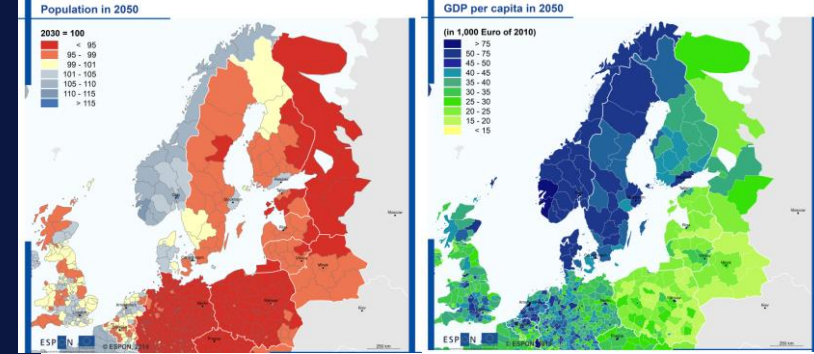
Legend

- Metropole
- Baltic metropole
- Cargo highway
- Highway of the sea
- Transit cargo highway
- Developing global hub
- Developing cargo hub
- Greenhouse farming
- Genetically modified crops
- Renewable energy production
- Competition, cooperation on energy
- Food production zone
- No food production possible

Regional level: NUTS 0
 Source: ESPON BT2050 project, Spatial Foresight, 2019
 Origin of data: based on different quantitative and qualitative sources, such as Eurostat data, ESPON and VASAB reports, and BSR, national and regional studies
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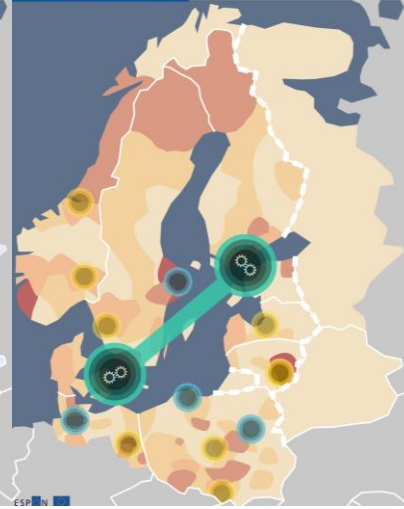
Policy recommendations



Circular Economy in the Baltic Sea Region, Scenario 2050



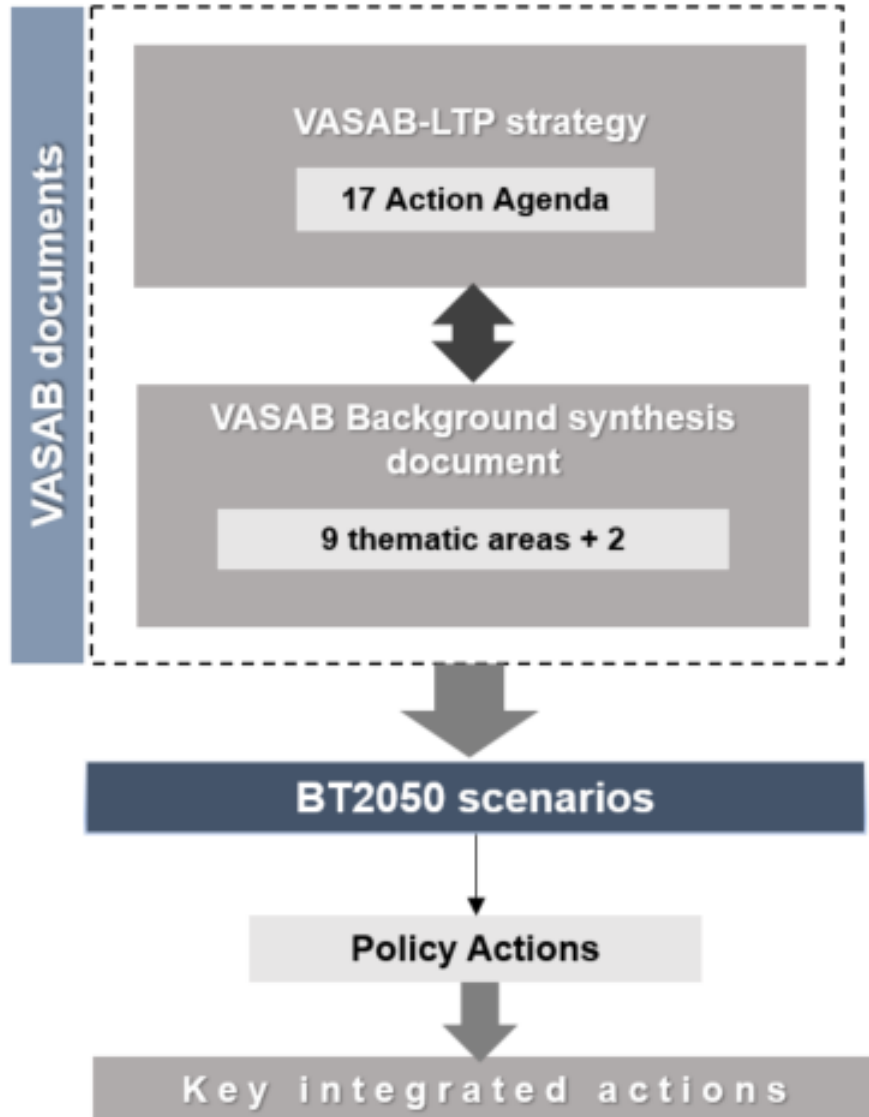
Green-tech giants and global attractiveness in the Baltic Sea Region, Scenario 2050



Transport and urban hierarchy in the Baltic Sea Region, Scenario 2050



Framework for policy recommendations



1. Strengthening of the network of Baltic medium-size cities.
2. Supporting regional and local cross-border service networks based on new technologies.
3. Connecting the Baltic infrastructure on the regional level.
4. Supporting cross-border metropolises.
5. Using the Baltic Sea assets wisely
6. Adapting to climate change (water and green cross-border corridors).
7. Attracting migrants to the BSR
8. Improving BSR integration through data integration, monitoring, research and spatial planning.



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Thank you

BT 2050 research consortium