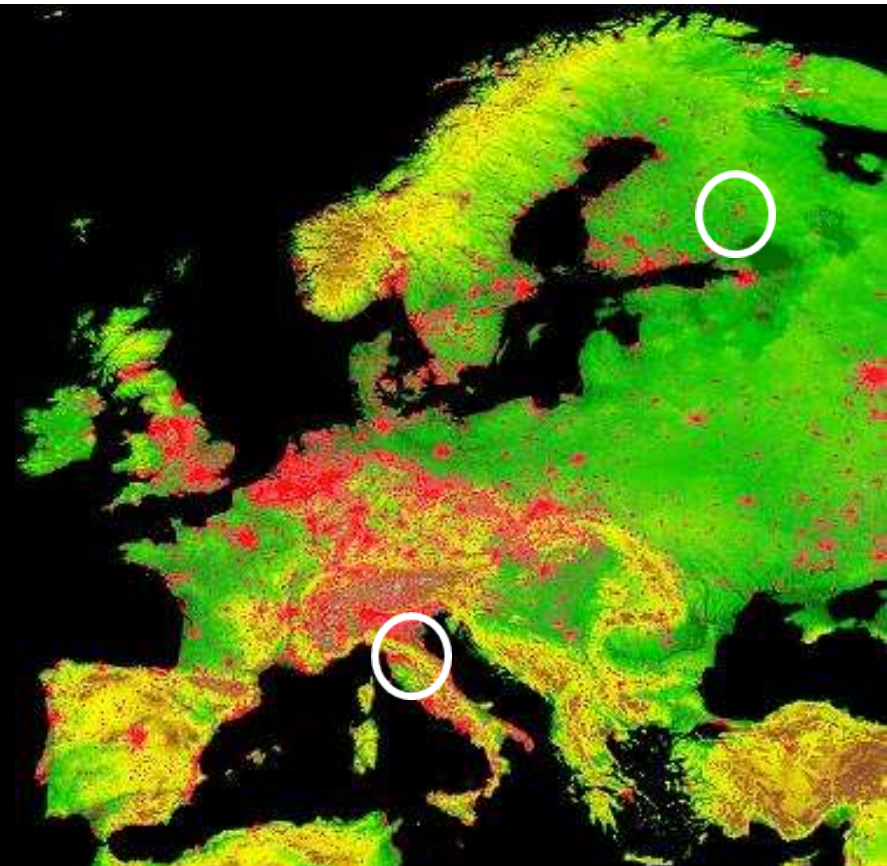


North Karelia: status quo and bioeconomy strategy drafting process

Firenze 28.3.2019

Risto Poutiainen
Region Mayor
Regional Council of North Karelia



Forest resources and world-class expertise

89%

of total land area
covered by forests



Annual growth of forests

9.3 MIL M³



Annual usage of forests

5.9 MIL M³

500 companies,
turnover of
2 BILLION €



6000

employees

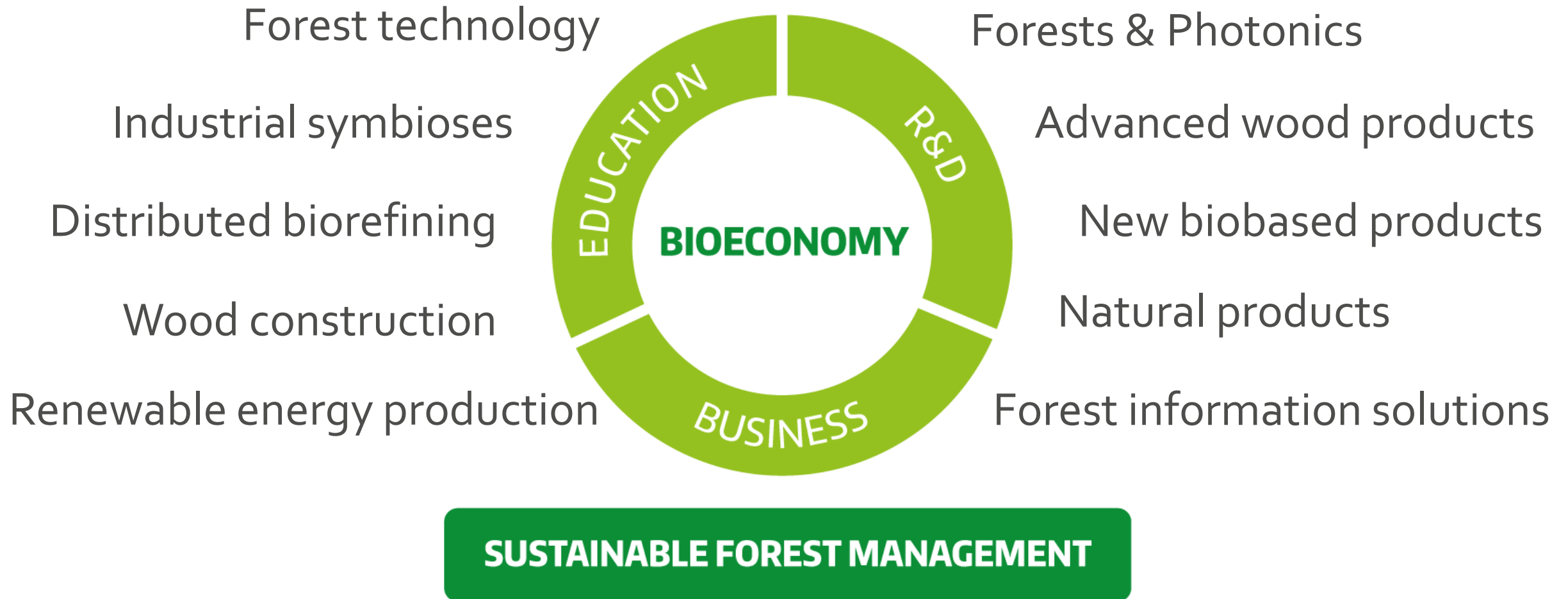
600

experts



NORTH KARELIA

Our circular forest bioeconomy cluster



An aerial photograph of a vast, lush green forest landscape. In the foreground, a dense forest of tall evergreen trees covers a hillside. Beyond the forest, a large, calm lake stretches across the middle ground, reflecting the sky. In the distance, several small, forested islands are scattered across the water. The background shows more forested land and distant hills under a clear sky.

Forest Bioeconomy Smart and strategic goals

NORTH KARELIA

Long-term strategic work



Our strategic work on renewable energy began 25 years ago

- › The follow-up of the region's energy sector has been a part of our strategic programmes
- › A social contract on sustainable development 2015, North Karelia the first region to take part
- › Towards Low Carbon Municipalities -> Roadmap for oil free and low carbon North Karelia 2040

Visionary and ambitious goals

Our forest bioeconomy targets are a vital part of these goals.



NORTH KARELIA

Sustainable targets for 2030

100%
fossil oil free



 Share of renewable energy
in total consumption
100%

Net reduction of
greenhouse gases

80%

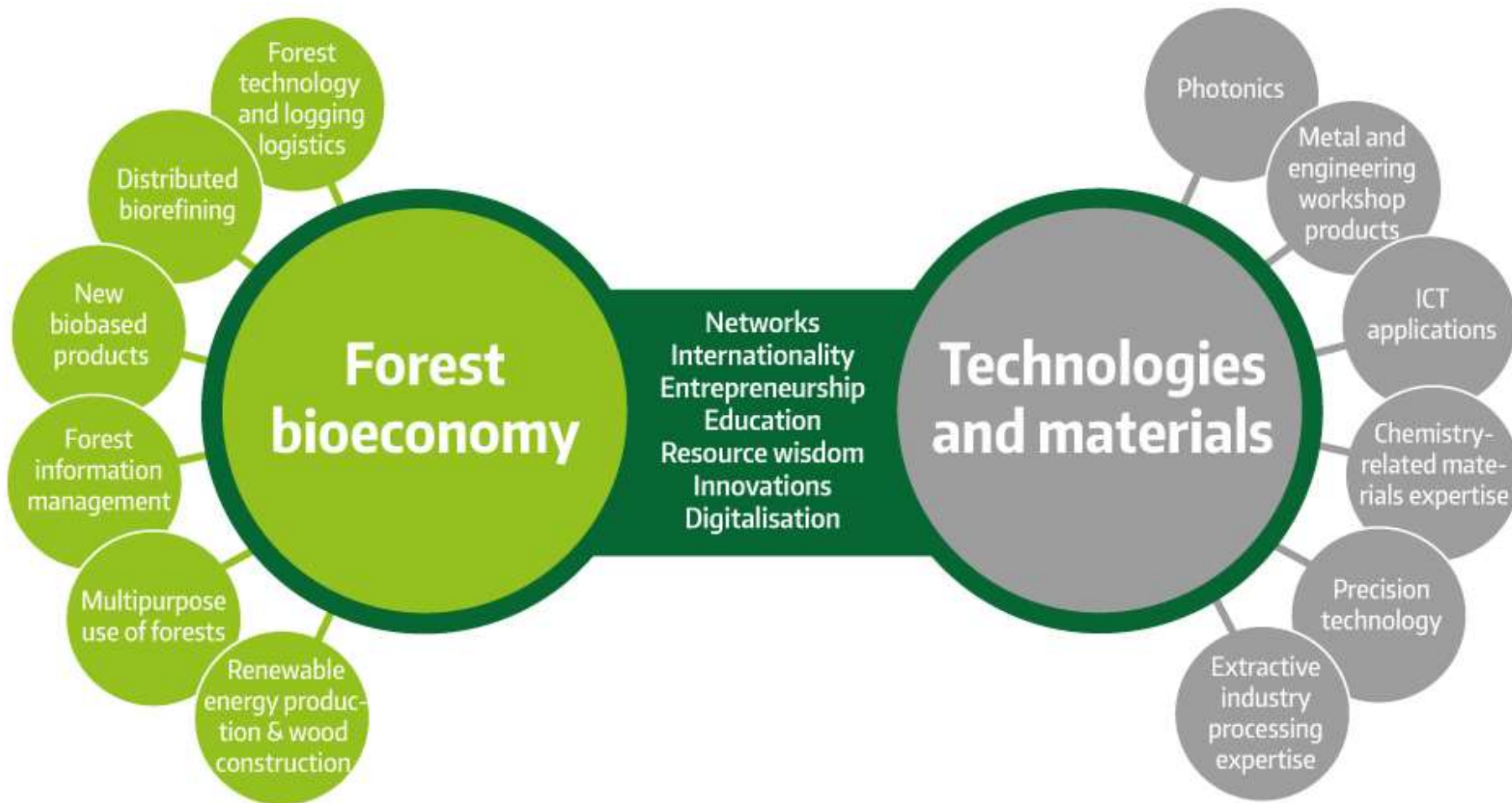
Bioeconomy
investments
turnover

2.7 BILLION €



NORTH KARELIA

Smart specialisation in North Karelia



Within bioeconomy, our aims are:

- › Oil-free, low-carbon and resource-efficient region
- › Fossil fuels and materials replaced with renewable ones
- › Forerunner in **wood construction**
- › Wide range of **value-added** bioproducts and natural products
- › **Service sector** with a key role
- › **Creating jobs** for the entire bioeconomy value chain
- › Ensuring **ecosystem** services
- › Efficient use of **by-products** of the forest industry, reduction of negative environmental impacts
- › Open and secure environment for **industrial piloting**
- › **Smart silviculture**, maintaining healthy and diverse forests
- › Knowledge and **research applied** for the needs of business life
- › Innovative use of **digital forest data**
- › **Education** of forestry experts at all levels



An aerial photograph of a vast, snow-covered forest. The trees are densely packed and heavily laden with snow, creating a white and light blue landscape. In the center of the image, there is a cleared area that appears to be a ski slope, with a few small figures of people visible. The overall scene is serene and wintry.

Bioeconomy strategies - in action

NORTH KARELIA

Bioeconomy investments in North Karelia 2013-

Bio-Coal plant
(project), Nurmes

GROW GREEN
NURMES

GREEN FUEL
Nordic Oy

Bio-Oil plant , Lieksa

**Stora Enso Ltd – (Enocel
pulp mill new investments)**

Eno Energy Co-operative

Fortum Ltd (CHP
and bio-oil plant,
Green Parc),
Joensuu

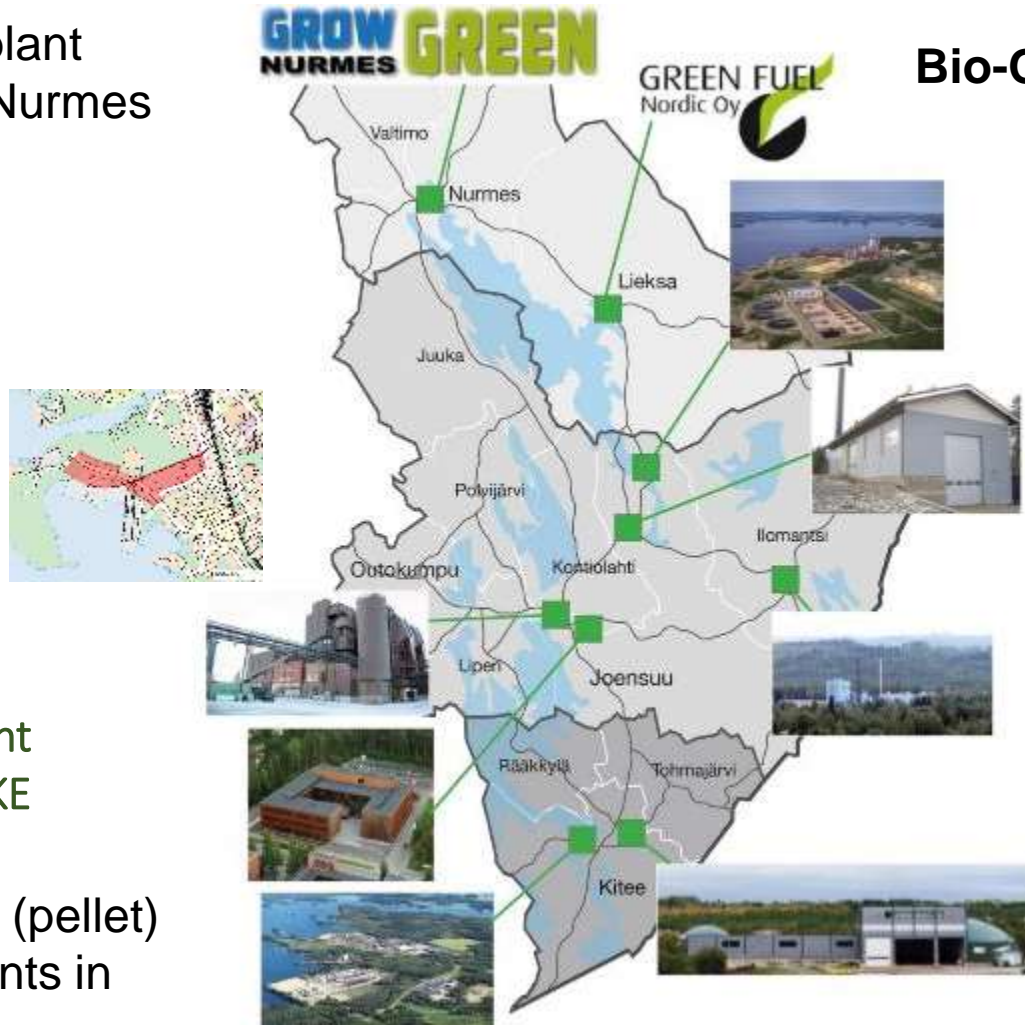
R&D&I environment
LUKE, UEF, EFI, SYKE

Stora Enso Ltd – (pellet)
+ other investments in
Puhos, Kitee

**Vapo Ltd (pellet,
active coal -
plant), Iiomantsi**

Biokymppi Ltd
(biogas), Kitee

NORTH KARELIA



Wood construction - examples



Metla-house



Joensuun Arena



NORTH KARELIA

ENO Environment network

- A global network of schools and communities for sustainable development in over 150 countries
- Campaigns – planting trees
- Climate change agreement- schools at age 14-17 years



Climate Smart Forestry



An aerial photograph of a winter landscape. The foreground and background are filled with dense evergreen trees heavily covered in snow. In the center, a ski slope descends from a ridge. A small, dark cabin is visible on the right side of the slope. The text "Strategies - drafting process" is overlaid in red on a semi-transparent white rectangular background.

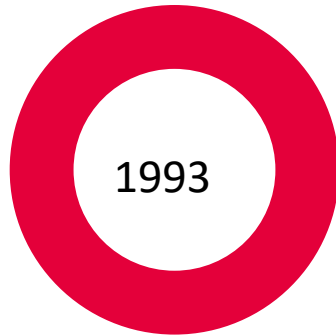
Strategies - drafting process

NORTH KARELIA

Timeline of our strategic work



Wood Energy
Programme for East
Finland 2000

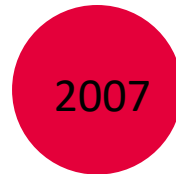


1993

Bioenergy
Programme of North
Karelia 2015



1998



2007

Climate and
Energy
Programme of
North Karelia
2020



2011

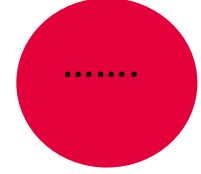
Roadmap of Oil-free
and Low Carbon
North Karelia 2040



2011



2017



.....

Bioenergy Strategy
of North Karelia

Bioenergy
Programme of East
Finland 2020

Unique collaboration and expertise

- › European Forest Institute – EFI HQ
- › Natural Resources Institute Finland (Luke)
- › Finnish Forest Centre
- › University of Eastern Finland – UEF
- › Karelia University of Applied Sciences
- › Riveria Vocational Education & Training
- › Finnish Environment Institute (SYKE)
- › Business development: Joensuu Science Park, regional business development organisations

= the GreenHUB Team



Photo: Luke, Jussi Tiainen

NORTH KARELIA

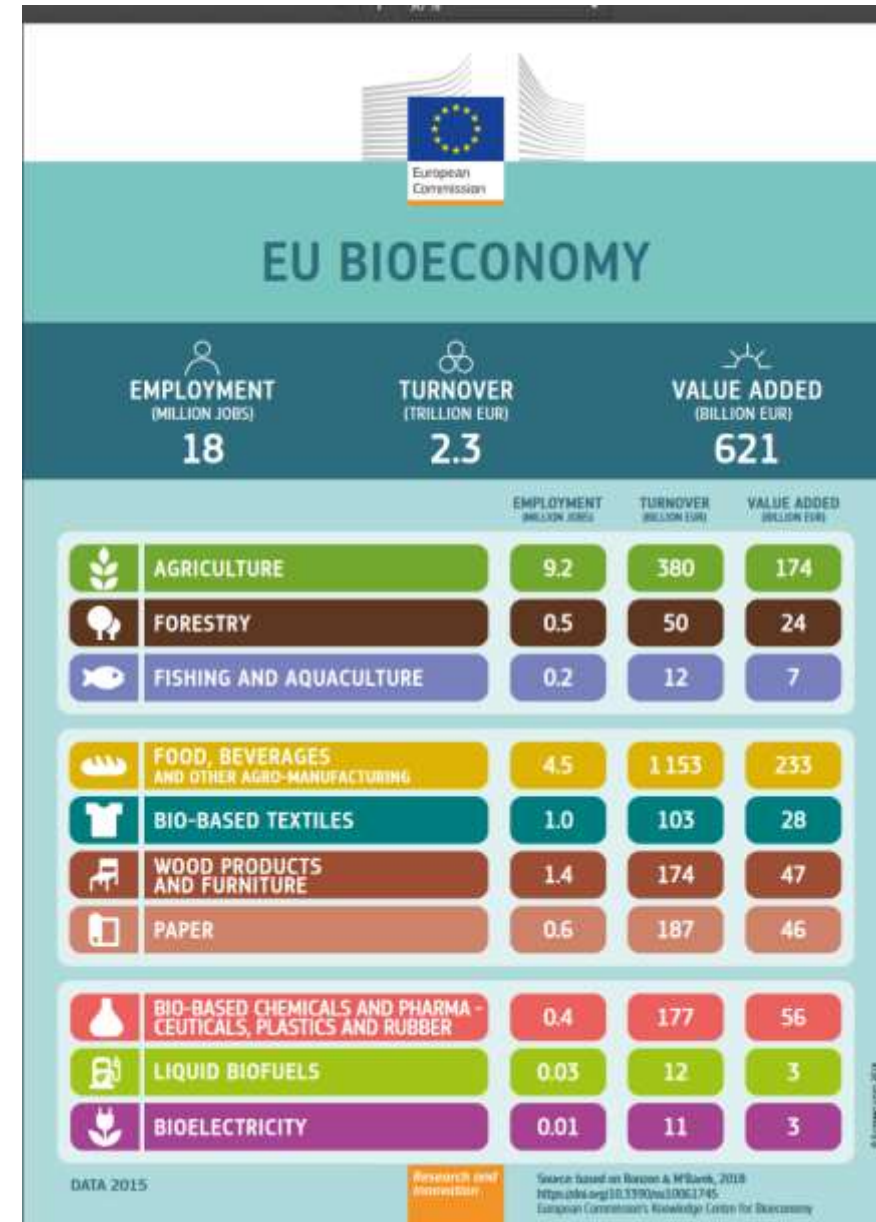
Drafting Process

- Role: Strategy, Programme, Action plan, Road Map...
- Responsible: Regional Council – political level
- Strategic Working Groups: quadrupole helix-based cluster groups
- Participatory process
- Implementation – follow up



CASE North Karelia

- POKAT 2021 – Regional Development Plan - includes all bioeconomy elements
- Bioeconomy strategy/action plan – updating process starting
- Green, Yellow, Blue bioeconomy – different roles
- Structural Fund/ CAP 2021 - 2027 – programmes - timing



NORTH KARELIA



Welcome to the Forest Capital of Europe!



Pielisjoen linna, Siltakatu 2



www.pohjois-karjala.fi



facebook.com/pohjoiskarjala



[@pkliitto](https://twitter.com/pkliitto)



youtube.com/pkmaakuntaliitto



instagram.com/pkmaakuntaliitto