

East & North  
**FINLAND**

Itä- & Pohjois-  
**SUOMI**



**Vipuvoimaa**  
**EU:lta**  
2014–2020

# ELMO

## East and North Finland in Industrial Transition



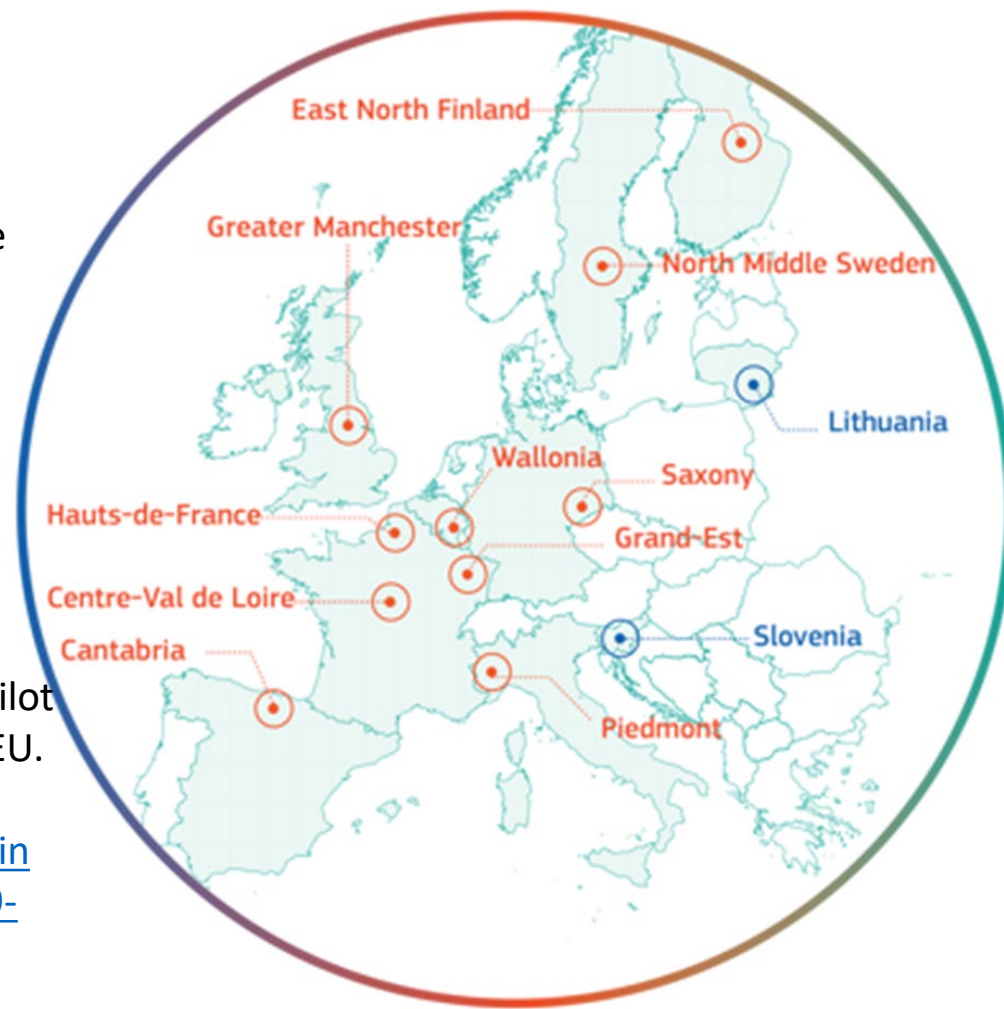
## STRENGTHENING INNOVATION IN EUROPE'S REGIONS

European Commission launched in 2018 "Regions in Industrial Transition" –pilot:

- To find and develop new procedures to answer to the challenges posed by the industrial transition
- To recognise the best solutions based on smart specialisation
- To find new ways of collaborating
  - ✓ renewable ecosystems
  - ✓ modern clusters
  - ✓ advanced value chains

East and North Finland (ENF) was chosen as one of the pilot regions. The pilot includes 10 regions and 2 states from EU.

The first phase of the pilot produced the [East and North in Industrial Transition – Smart Specialisation Strategy 2019-2023](#).



**LAPLAND**



**NORTHERN  
OSTROBOTHNIA**



**CENTRAL  
OSTROBOTHNIA**



**KAINUU**



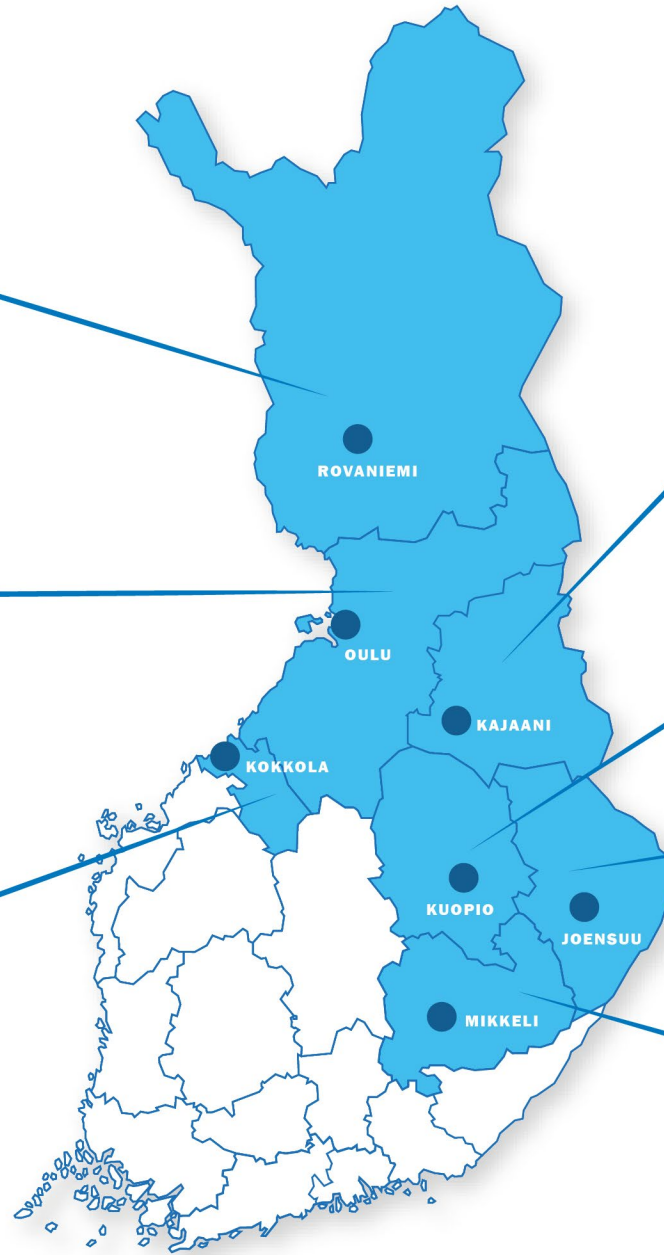
**POHJOIS-  
SAVO**



**NORTH  
KARELIA**



**SOUTH  
SAVO**



## EAST AND NORTH FINLAND IN FACTS AND FIGURES

POPULATION  
1.3 MILLION  
=  
**23.5%**  
of the Finnish population



=  
**6.4**  
INHABITANTS  
/ km<sup>2</sup>



TOTAL SURFACE AREA  
226,449 km<sup>2</sup>  
=  
**69.9%**  
of the total surface  
area of Finland

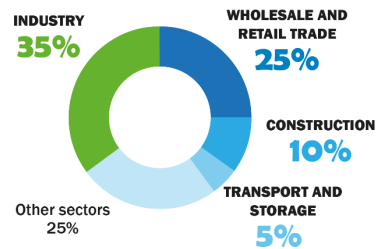


LAND AREA  
203,487 km<sup>2</sup>  
=  
**66.9%**  
of the total  
land area of Finland

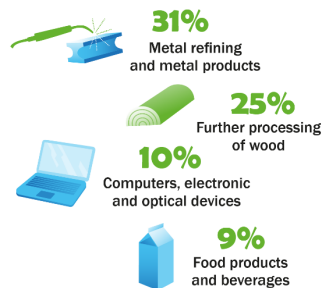
WATER AREA  
32,963 km<sup>2</sup>

## EAST AND NORTH FINLAND IN FACTS AND FIGURES

### 4 LARGEST SECTORS IN THE AREA % OF THE TOTAL TURNOVER



### DISTRIBUTION OF THE INDUSTRY % OF TURNOVER



### EDUCATION AND RESEARCH



**3** UNIVERSITIES  
**3** UNIVERSITY CONSORTIA  
**7** UNIVERSITIES OF APPLIED SCIENCES  
**OVER 20** VOCATIONAL INSTITUTES  
**OVER 10** SEPARATE UNITS OF NATIONAL RESEARCH INSTITUTIONS

## EAST AND NORTH FINLAND IN FACTS AND FIGURES



**19.5%**  
OF THE  
GROSS DOMESTIC  
PRODUCT OF  
FINLAND



**19.6%**  
OF THE  
FINNISH EXPORT

### MINES



**6** METALLIC MINERAL MINES  
**13** INDUSTRIAL MINERAL MINES

### FOREST AREA



=  
**77%**  
of the land area/  
**1251 million**  
cubic metres

ANNUAL  
GROWTH  
=  
**60.5**  
million  
cubic metres/year

TOTAL  
DRAIN  
=  
**44**  
million  
cubic metres/year

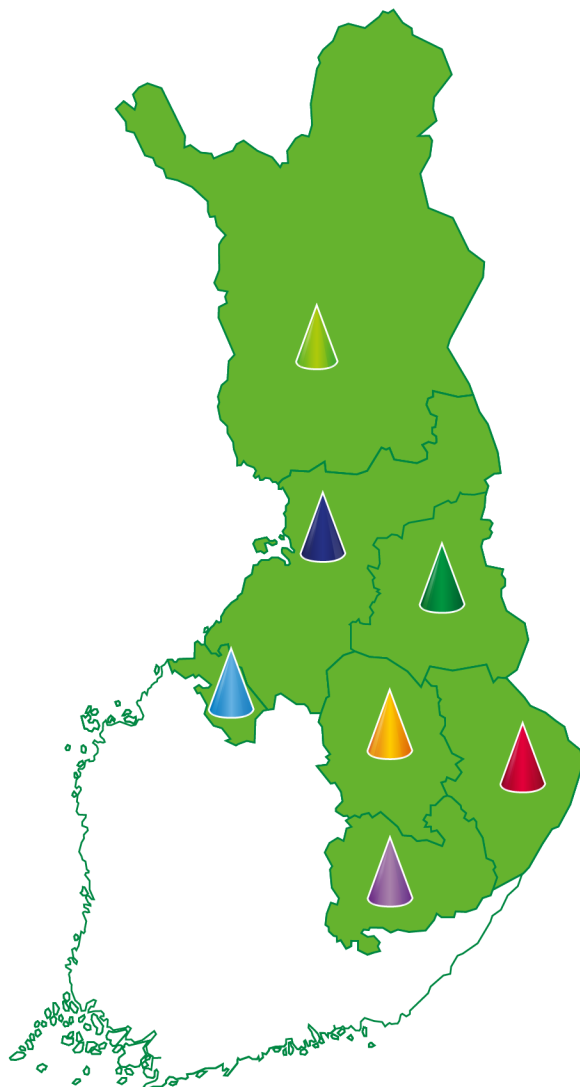
### TOURISM



=  
**40%**  
of the national share,  
annual turnover  
**€ 1.76 billion**



# SMART SPECIALISATION PRIORITIES IN EAST AND NORTH FINLAND



## LAPLAND

1. Advanced Arctic business
2. Arctic expertise, renewal and innovations
3. Regional ecosystem as the base for internationalisation
4. Innovative activities, digital technology, low-carbon solutions, energy-efficiency

## NORTHERN OSTROBOTHNIA

1. ICT and software production
2. Metal industry and refining wood materials
3. Clean technologies, also energy
4. Health and welfare sector

## KAINUU

1. Measurement technology, games and simulators and metal industry innovations
2. Process and environmental monitoring in the bioeconomy and mining industries, and forest, food and blue bioeconomy innovations
3. Active tourism and health, exercise and sports innovations
4. Cross-cutting entities

## CENTRAL OSTROBOTHNIA

1. Chemical industry
2. Biomass refining and bioeconomy
3. Renewable energy
4. Circular economy
5. ICT

## POHJOIS-SAVO

1. Machine and energy technology
2. Wood processing
3. Food products
4. Welfare technology
5. Tourism
6. Cross-cut: Water and biorefining

## NORTH KARELIA

1. Forest bioeconomy
2. Technologies and materials
3. Cross-cutting entities

## SOUTH SAVO

1. New forest biomass products and production processes
2. Clean water technologies and concepts
3. Cleanliness and safety of the food chain



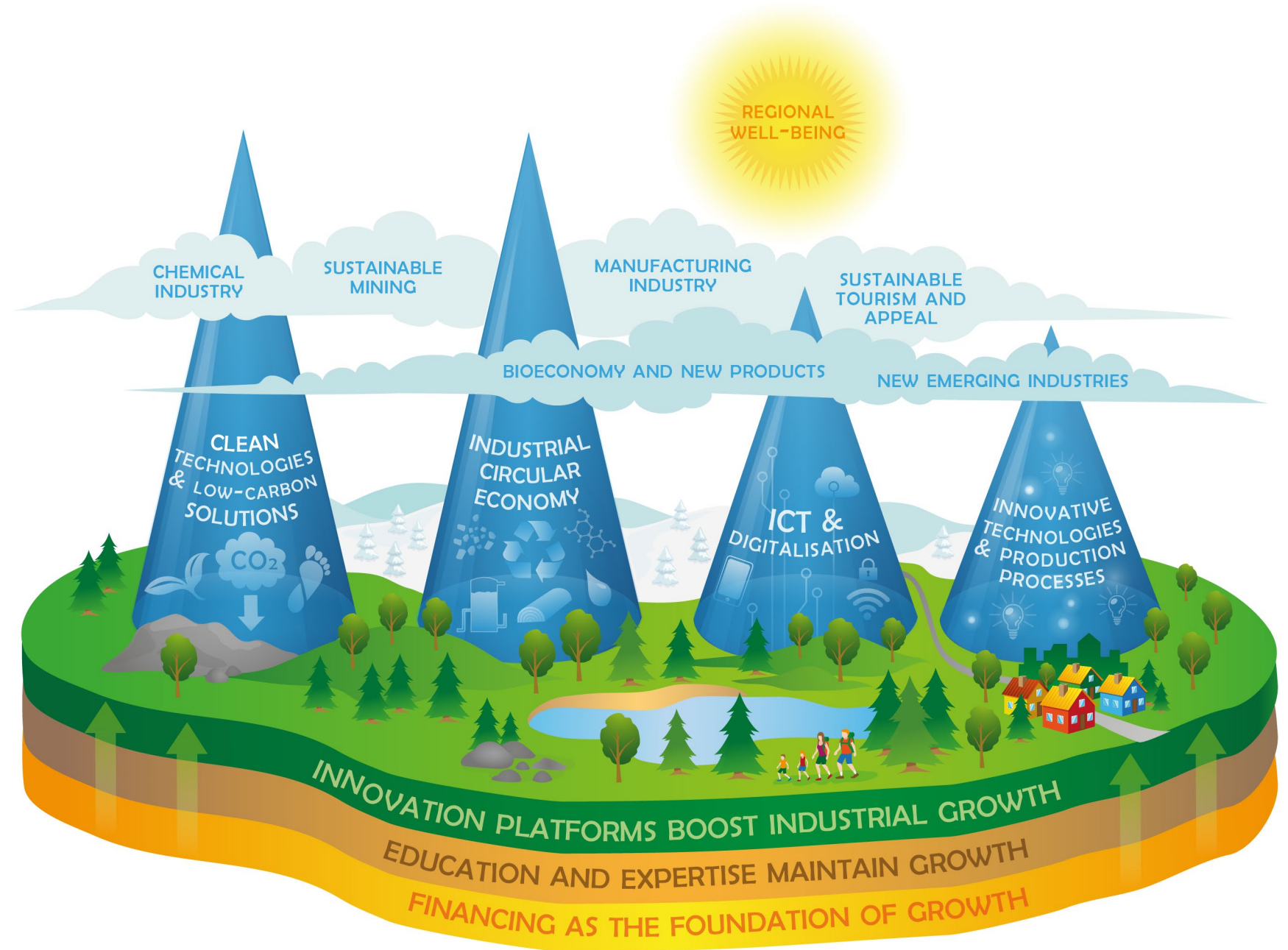
## COMMON COMPETENCES

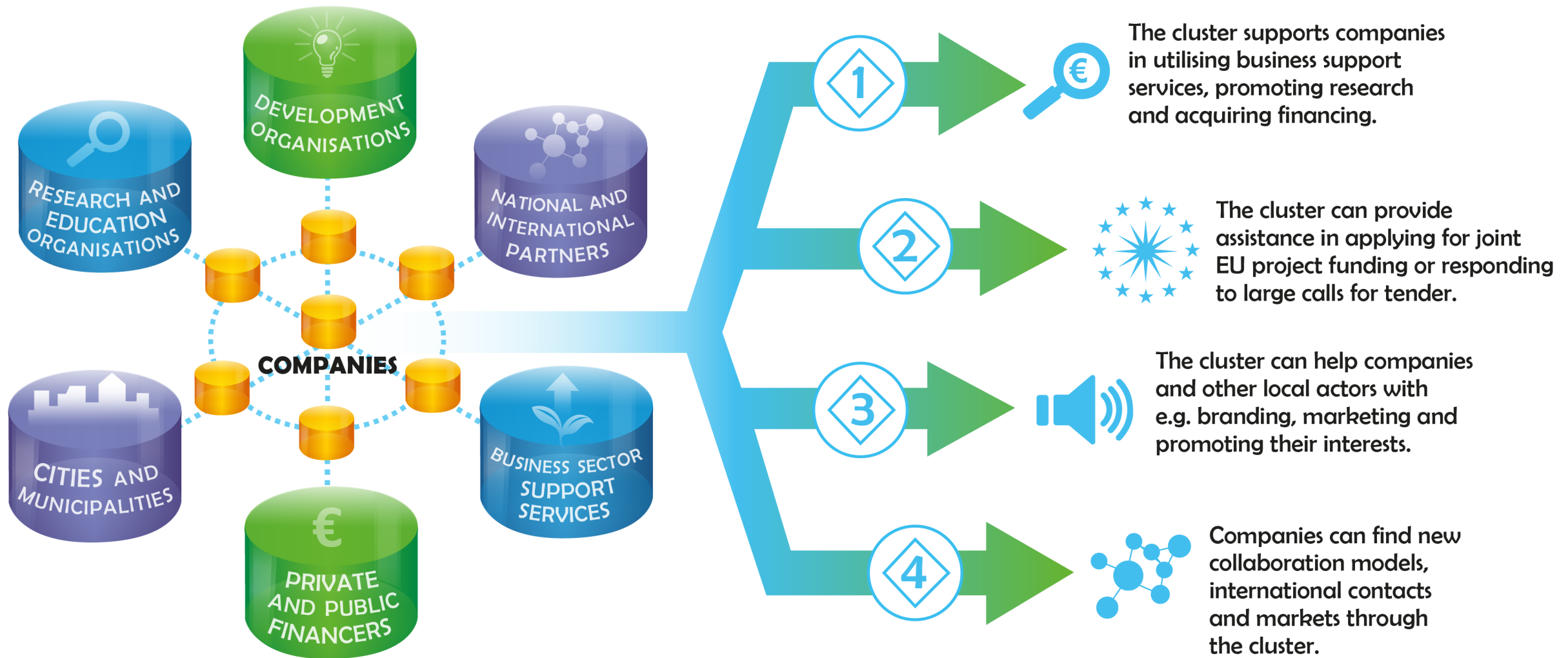
Supporting sustainable  
development and increasing  
the degree of processing



## GROWTH SECTORS

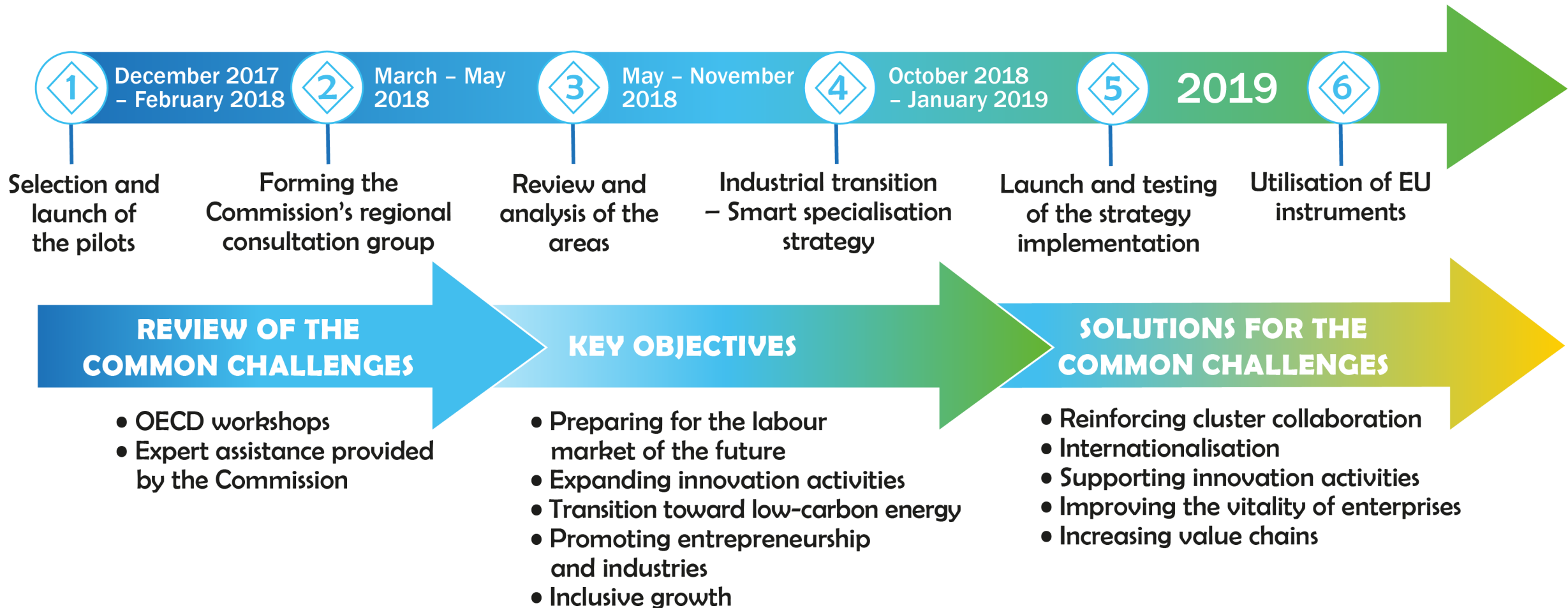
East and North Finland's  
thematic strengths in  
smart specialisation





# MILESTONES OF THE INDUSTRIAL TRANSITION PILOT

## 2017 – 2019







# Implementing the smart specialisation strategy in ENF regions

## 1. Regional councils in the ENF area lead the implementation of the strategy

- Interregional coordinating project 2019-2021
- Regional projects

## 2. Regional financiers direct structural funding to the implementation of the strategy

- Thematic call prioritizing clean tech and low-carbon solutions and ICT and digitalisation in Autumn 2019

## 3. ELMO – High Impact Action Call

- 300 000 € financing from the European Commission for collaborative projects involving SME's who aim to co-develop together with RDI organisations product innovations in the tree, wood and timber value chain.
- [www.elmoenf.eu/hia](http://www.elmoenf.eu/hia)

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SUOMI



## East and North Finland Industrial Transition – From Strategy to Practise

- Coordinating project to support and advance the implementation of the smart specialisation strategy in ENF regions.
- The aim of the project is to create a cluster development model based on the existing network of innovation platforms in the ENF area.
- The cluster model is based on a network of centres for excellence, in which regional RDI expertise is harnessed to promote SME growth and internationalisation.
- 7.5.2019-8.5.2021
- Budget 499 620 €
- [www.elmoenf.eu](http://www.elmoenf.eu)



## **ELMO Task Force**

### **Lapland**

**Kaarina Mäcklin/Kristiina Jokelainen**

### **Oulu Region**

**Gitte Meriläinen/Päivi Keisanen**

### **Kainuu**

**Minna Komulainen/Katja Sukuvaara**

### **Pohjois-Savo**

**Soile Juuti/Päivi Vestala**

### **South Savo**

**Tomi Heimonen/Riikka Tanskanen**

### **North Karelia**

**Kirsi Taskinen/Jarkko Kauppinen**

### **Central Ostrobothnia**

**Teemu Räihä/Anne Sormunen**

**ELMO Project manager: Ilari Havukainen, Regional Council of Lapland**

**ELMO Project coordinator: Paula Heikkilä, Regional Council of Lapland**