

ARCTIC Bioeconomy

Strategies & Synergies
- Power of the regional innovation ecosystem -

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The European Agricultural Fund
for Rural Development:
Europe investing in rural areas



REGIONAL COUNCIL
OF LAPLAND

Smart Specilisation

- European Commission initiative
 - <http://s3platform.jrc.ec.europa.eu/>
- Countries and region in EU
- Steering the funding
- Platforms
 - Energy, Agro-food, Industrial Modernisation

Smart Specialisation in Lapland

- Story of S3 in Lapland begun 2012 - Arctic Specialisation Programme
- Europe's gateway to the Arctic
- Vast deposit of natural resources, pristine and fragile Arctic nature
- Economy creates potential for innovation and entrepreneurship
- Lack of critical mass - "too few smart people"



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Smart Specialisation in Lapland

- Strong RDI actors – mobilising to the use of the region
- Sustainable utilisation of natural resources and conditions are the key factors to maintain the sustainable growth
- Smart growth needs cross cutting strategic approach strengthening the knowledge base
- The region's future is driven by innovative SMEs seeking growth

Lapland wants to take lead on its own development

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Strategic step by step approach – **Arctic Smartness**



Our analysis on Lapland S3: where to focus?

S3 Entrepreneurial Discovery Process

- Emerging industries growing out of existing industries
 - cross sectoral
 - interfaces are ground for new entrepreneurial innovations
- Launching of cross cutting priorities enabling entrepreneurial development

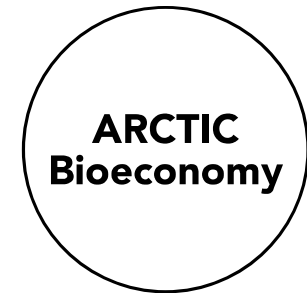
Sustaining the entrepreneurial discovery

- Synergy plan to increase RDI innovation capacity of the business:
 - better use of existing RDI structure
 - cross-sectoral and cross-regional collaboration
- ESI funded projects have to provide added value for the business

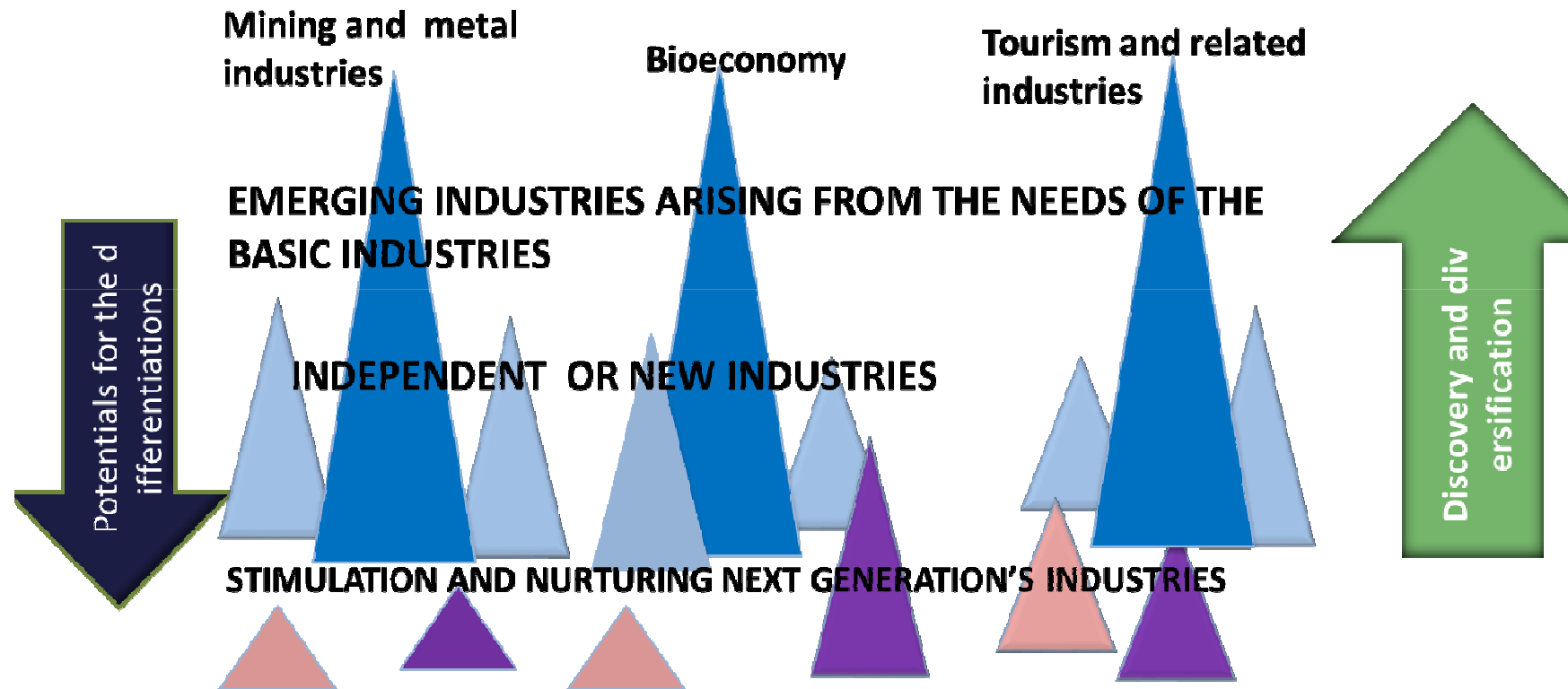
Modern cluster approach

- Recognising the challenges of sparsely populated regions
- Provides the ground to focus on supporting the development of the regional approach – emerging industries

The foundation of the Lapland's S3



PILLAR INDUSTRIES OF THE REGIONAL ECONOMY



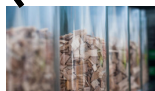
In Lapland we are looking for the functional spearheads supporting the development diversely strengthening and sustaining the basic industries, initiation of the new industries
Education, research and development better integrated in the refining new products and services

Putting S3 in to the practise - Looking after the truffles...

- During last decades support directed towards refining industry, tourism, creative industries, learning and testing environments, rural development, wood processing, resource efficiency, natural product and food, international affairs, natural resources and land use.... analyses over 650 project funded during previous program period in Lapland...finding the best ground for the cross-fertilisation
- Potential for the modern clusters which are regional, looking beyond the branch boundaries, cross-fertilisation... **Smart Arctic Clusters**



Arctic Industries and Circular
Economy - EU model region Case 2014



Sub cluster - Arctic
Forest Network



Arctic Smart Rural
Communities



Arctic
Design



Arctic Safety and Security



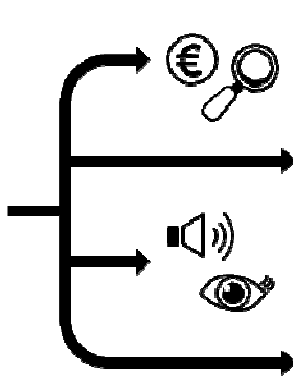
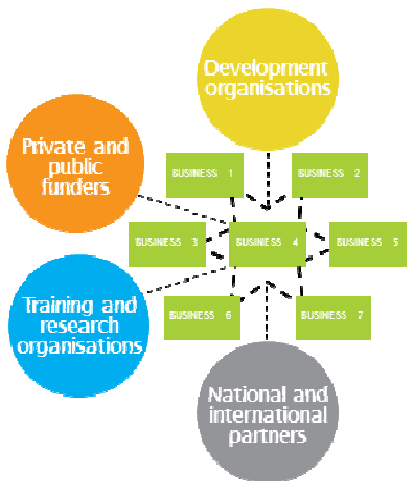
Arctic Development
Environments

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<http://www.clustercollaboration.eu/eu-initiatives>

THE CLUSTER IS WHERE THE SMART SPECIALISATION THRIVES

How does the cluster work?



- 1. THE CLUSTER SUPPORTS** the businesses in the region with utilising business support services, strengthening research and obtaining funding, among other things.
- 2. THE CLUSTER CAN assist** in applying for EU funding or in responding to large calls for tenders together.
- 3. FROM THE REGION,** businesses and others in the region get help with, for example, branding, marketing and the supervision of interests.
- 4. THROUGH THE CLUSTER,** businesses find new ways to co-operate, new international contacts and markets.

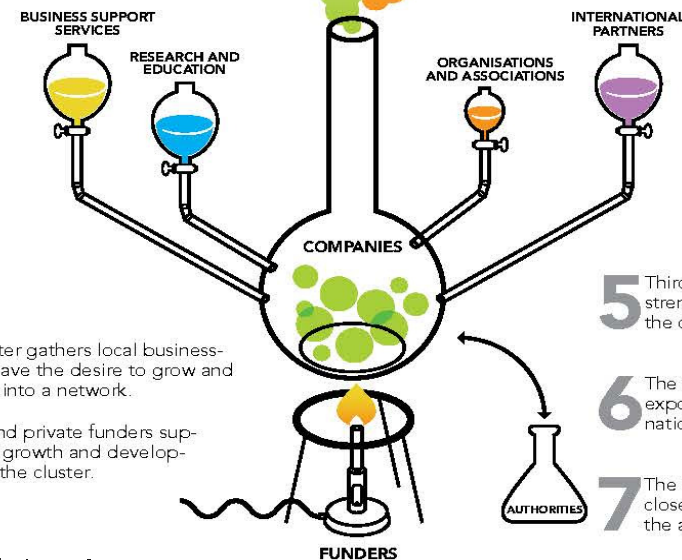
3 Development companies, regional development organisations and other business support services help the cluster businesses through, for example, the supervision of interests and development of business skills.

4 Co-operation with educational and research organisations allows the cluster businesses to develop research and innovation activities in the long-term.



8 Network co-operation leads to new innovations and regional specialisation. Companies find new markets and, as a result, business grows.

Specialisation based on regional expertise supports business life. The new jobs created in the private sector bring more residents to Lapland. There is a rise in employment and prosperity.



1 The cluster gathers local businesses that have the desire to grow and develop into a network.

2 Public and private funders support the growth and development of the cluster.

5 Third-sector actors strengthen the goals of the cluster.

6 The cluster imports and exports the latest international information.

7 The cluster operates in close co-operation with the authorities.

AIMING FOR CONCRETE RESULTS AND LONG-TERM IMPACT

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Coordination in Lapland



Content

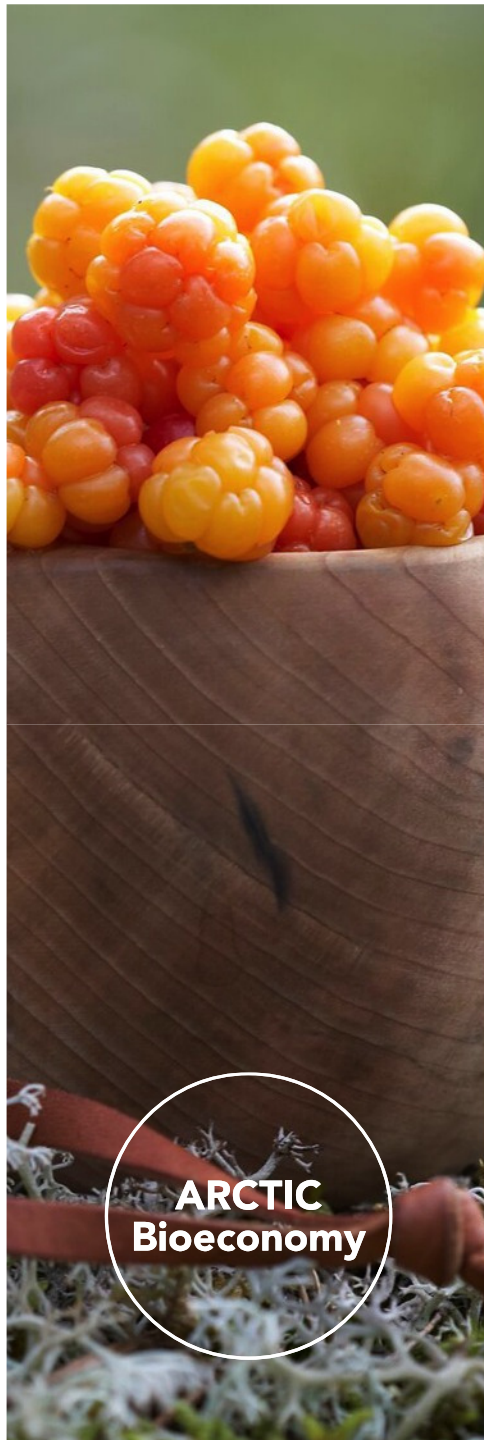
- Background
- Objectives
- The main themes
- Communication



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Background

- The Arctic region of Lapland
 - Abundant and clean natural resources
 - substantial unexploited opportunities
 - Finland's number one region for the development of the bioeconomy
- Regional Council of Lapland
 - responsible for regional development and a trustee of Lapland municipalities
 - Development programmes
 - Development of Bioeconomy
 - Potential



Objectives

- Strengthen Lapland Bioeconomy through Smart Specialisation
 - Cooperation and communication
 - Clusters
- Arctic Bioeconomy Development Programme
 - Jointly defined goals
 - Implementing Finnish Bioeconomy strategy

Themes

1. Natural products and Biocomponents
2. Wood construction and CLT
3. Blue Bioeconomy: fisheries
4. Decentralised renewable energy
 - Forestry in 3/4



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1. Natural products and Biocomponents

- Organic food, berries, herbs, nutrients, cosmetics
- Processing of natural resources
- Logistics, mobile slaughtering unit and processing centre surveys
 - Food House concept
 - Existing value chain for local food, Sodankylä
 - Direct sales from the farms
 - Reko – Rejäl konsumtion, Ranua & Rovaniemi



2. Wood construction and CLT

- Success stories
 - Pilke as leading example of public premises
 - Kemi pilot house and football stand, CLT
 - Kolari log schools (coming)
 - (Pudasjärvi log school campus)
- The creation of a positive envy
 - Rovaniemi case
 - Policy making



3. Blue Bioeconomy: fisheries

- Fishing, management of fishing
- The processing station, high-quality care
- What happens in other projects?
- Sodankylä, Lokka fishing cooperative

4. Decentralised renewable energy

- Promote the use of renewable energy
- Model examples, ProAgria
- Communities as energy producers
 - Kierinki, Saija, Karjalaisenniemi, Tanhua
- Small scale investments
 - CHP, wood chip, pellets, PV and hydro



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Bioeconomy network

- Local, national and international
- National networks
 - Coordination activities
 - Ministry contacts and programmes
- International
 - Brussels networks
 - Smart Specialisation platforms
 - Bioenergy
 - Agro-food
 - Events with stakeholders and clusters



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Outcome

1. Development programme
2. The network
 - Communication network between Laplands bioeconomy actors
 - Supports bioeconomy innovation and rural investments

Communication

- Stakeholder meetings and activation
- Collecting data for funding framework
- Infographics
- Newsletter
- Twitter – Arktinen biotalous



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Thank you!

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