Lapland’s Arctic Smart Specialisation – Ground to balance contradicting interests

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Lapland - today

- The northernmost region of European Union
- Border with Russian, Norway and Sweden
- Total area is 100 369 km²
- 182 856 inhabitants, density 1,8 people/km²
- Largest residential centres: Rovaniemi (60 944 inhabitants), Tornio (22 399), Kemi (22 172)
- Employment: municipal sector 27.8%, state and state-owned companies 10.8% and private sector 49.2%
- Only chrome mine and largest gold mine of EU
- Largest refining industrial concentration in EU
- Jobs 73.300
- Total amount of companies 10 400
- Total turnover of all companies 10 billion Euro
- Value of industrial export 3.7 billion €
- Value of the tourism 1 billion €
- 5th strongest export region in Finland
- Two universities; University of Lapland and Lapland University of Applied Sciences
- Diverse sectorial research institutes
- Strong vocational education
- 2014-2020 ESI funds 300M€ including co-financing
- 3 Interreg programs and Kolarctic CBC program

Rovaniemi from:
- Helsinki, 706 km
- Brussels 2114 km
- Milan, 2540 km
- North pole 2 623 km
Lapland – today – sectors of economy

- Metal Industry
- Mining and Industrial service companies
- Tourism
- Mining
- Arctic testing
- Biofuels

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<th>Size of industry in Lapland</th>
<th>Growth potential of the sector</th>
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- Forestry Industry
- Green construction industry
- Local food
- Reindeer herding
- Natural products
Smart Specialisation in Lapland

- Story of S3 in Lapland begun 2012 - Arctic Specialisation Programme
- EU’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”
- 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 – **Arctic Smartness**
Lapland’s regional S3 – Process...

**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
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
Story of S3 continues – Looking after the Arctic 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, internationalisation, 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 boundaries, cross-fertilisation… Arctic Smartness Clusters

  - Arctic Industries and Circular Economy, EU model region Case 2014
  - Arctic Smart Rural Communities
  - Arctic Design
  - Arctic Safety and Security
  - Arctic Development Environments
Coexistence of mining and tourism industries

Mining sites
- Iron
- Gold
- Nickel, copper
- Phosphorus, niobium
- Chromium
- Lime

Industrial sites
- Forestry land 48,940 km²

Tourism areas
Coexistence of mining and tourism industries

- The co-occurrence between industries using natural resources has been agreeable... until today
- Both are growing industries
- Mining is a global business - Tourism is a local business
- Both are interested in the same nature areas, particularly in the future
- Land use planning plays important role
- Regulations, acts and legislation are steering the industries
- Development of social licencing practises
- Emphases of ecoefficient technology development
- Circular economy
- Research on cumulative impacts
LAPLAND
Above Ordinary

Lapland is above ordinary - spiritually, geographically and in everything it does.

Rich in Nature
Lapland is rich in nature. People living in the towns or countryside feel close to nature - it feels like a second home for many.

Open and Arctic
Lapland is an international meeting point without borders. This has created a culture of transparency. The very best Arctic region.

Arctic Magic
In Lapland there is a strange kind of magic that cannot be described in words alone. It can only be experienced.

Pure Madness
Positive originality, which is contagious. Everyone is uniquely individual.

Consider it done!
In Lapland brisk bold ideas and expertise go hand in hand, in an international yet local environment.