ArcticHubs - Global drivers, local consequences: Tools for global change adaptation and sustainable development of industrial and cultural Arctic "hubs"

Call: H2020-LC-CLA-2018-2019-2020 (Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement) Topic: LC-CLA-07-2019 (The changing cryosphere: uncertainties, risks and opportunities), Type of action: RIA

> Pasi Rautio & Seija Tuulentie Luke, Rovaniemi 28 April 2021





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 869580.



ArcticHubs consortium

22 members in 11 countries, 6 M€ (+ 200 000€ Russia)



Studied industries:

- Forestry
- Tourism
- Mining
 - Fish farming

Also impacts on culture and livelihoods of indigenous peoples are studied



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ArcticHubs and climate change adaptation

 The project develops tools to increase the resilience of Arctic communities and livelihoods in context of climate change and other global pressures by enhancing regional planning for the sustainable use of natural resources

Three core tools are being developed:

- Public participatory geographical information systems (PPGIS),
- Guidelines for 'social license to operate',
- **Building of future scenarios** to be applied in the Arctic in order to e.g. predict effects of climate change on local livelihoods



ArcticHubs - Forestry

- Largest bioproduct mill in northern hemisphere will be build in Kemi → increase in wood use →
 Challenges for multiple land uses in Lapland:
- Nature based tourism boomed in past years,
- Reindeer herding and indigenous culture,



ArcticHubs - Forestry







ARCTICHUBS

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ArcticHubs - Tourism

Time Horizons for Adaptation



UNWTO 2008: Climate Change and Tourism – Responding to Global Challenges



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- In the short term:
 - Recovery of Covid-19; domestic and proximity tourism
 - Emphasis on nature
 - Snow reliability in the north as a competitive advantage
- In the long term:
 - Climate change mitigation
 becomes more important
 - New products, proximity tourism, muscular activities
 - Land-based travelling

ArcticHubs and climate change adaptation

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Thank You!





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www.luke.fi/arctichubs

ArcticHubs





