

















Drivers – Arctic Smart Specialisation

- Lapland Smart specialisation journey began in 2013
- Strategic step- by-step implementation/approach Arctic Smartness 2014
- 5 Arctic Smartens clusters launched 2015
- Arctic Smartness ERDF projects to support:
 - Regional capacity building
 - Involvement to H2020, EIT-KIC, Interreg Europe, Erasmus+, other interregional and national projects leveraging impact in total near to 20M€ (60-65% international)
- To support innovation development Arctic Development Environment Cluster
 - Regional RDI joint collaboration and critical mass in RDI and Education
 - TRL implementation as Artic Smartness language combining RDI infra with several legal entities
 - ERDF 2018-2020: Lapland regional research, development and innovation Centre of Excellence https://arcticsmartness.eu/arctic-smartness-rdi/
 - Plug-in-labs and cross-border/interregional collaboration and Lapland to the EU RDI roadmap
- Updated International Smart Specialisation 2018
 - RDI infrastructures lay foundation for the continues EDP, growth and scaling



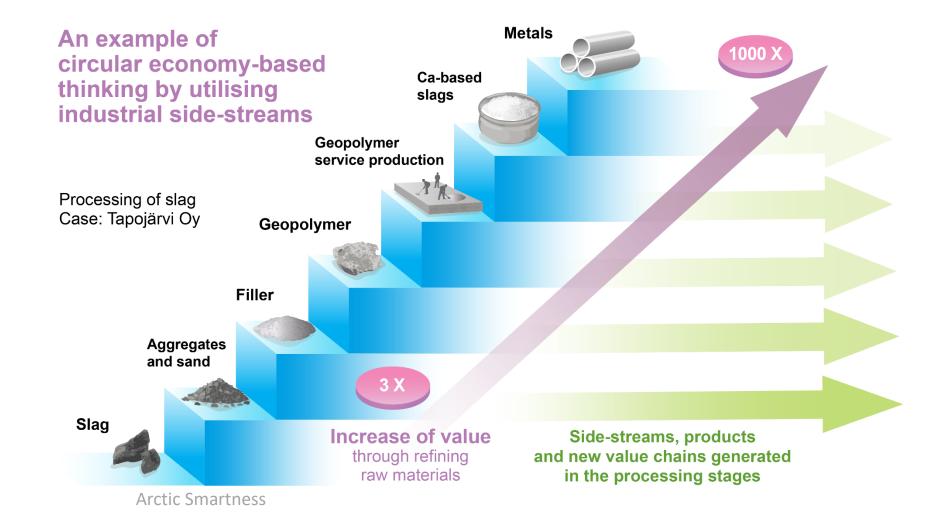


Arctic industries at the centre



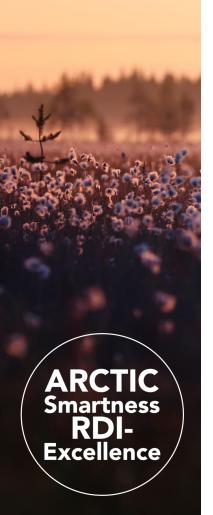


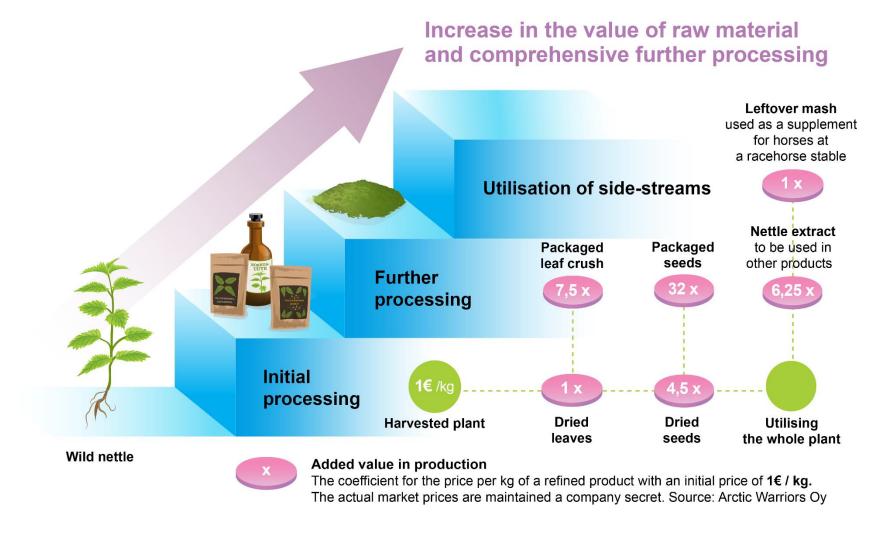
Manging the big processes – circular economy





Increase the value – support SME







New S3 – smart choices

PRIORITY 1:

Advanced Arctic business – foundation for the growth

Arctic circular economy Arctic sustainable tourism Growth in business by increasing **Emerging industries as** the refining of natural resources new platforms for business Sustainable` development **Educational solutions** Renewing regional of Lapland supporting the economical ecosystem supporting growth and internationalisation the economical growth Vision 2030 Clusters strenghtening

Strong Arctic and international actor

Sustainable policies of the new EU industrial strategy

Internationally strong and attractive area

PRIORITY 2:

Arctic expertise, renewal and innovations strengthening the growth and international business activities

Arctic innovation and development environments as drivers for the growth

Interregional collaboration developing the whole region

PRIORITY 3:

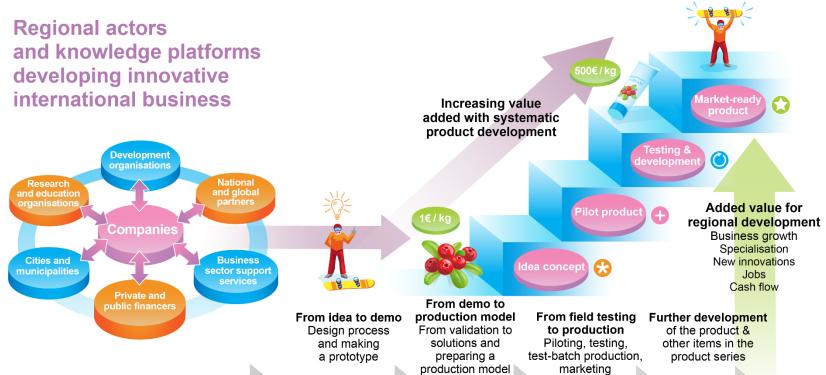
the regional value chains development

Regional ecosystem as the base for internationalisation



RDI provided added value





TRL 1-3

Maturity level of the product and implementation

Bringing ideas to the market with the globally known TRL model

Educational solutions, international networking and regional appeal

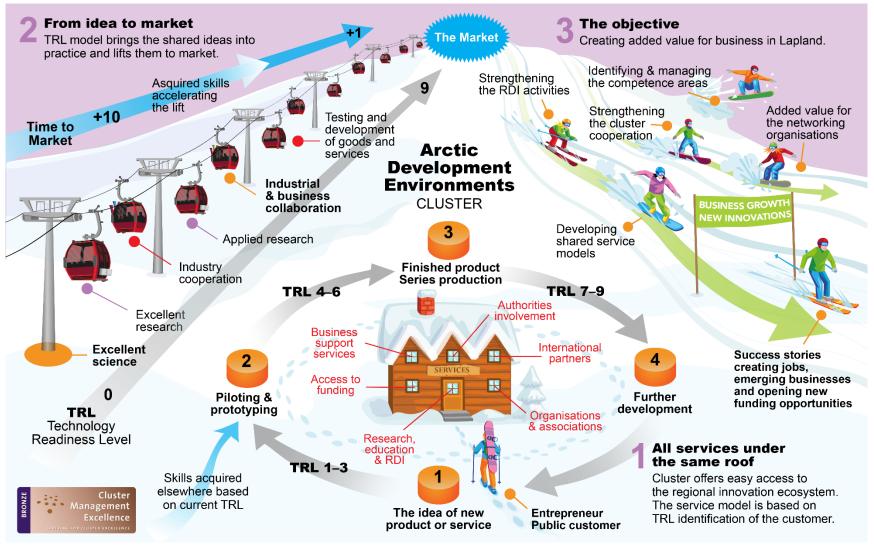
TRL 4-6

A diverse range of educational opportunities and workforce drawn from other regions increase the regional expertise level and promote international business, creating added value for regional development.

TRL 7-9



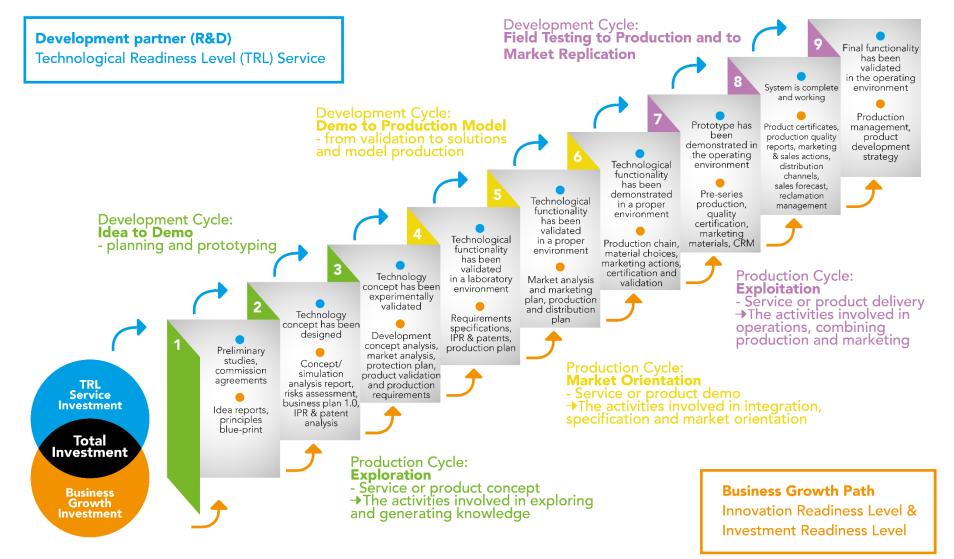
Towards Lapland RDI based ecosystem







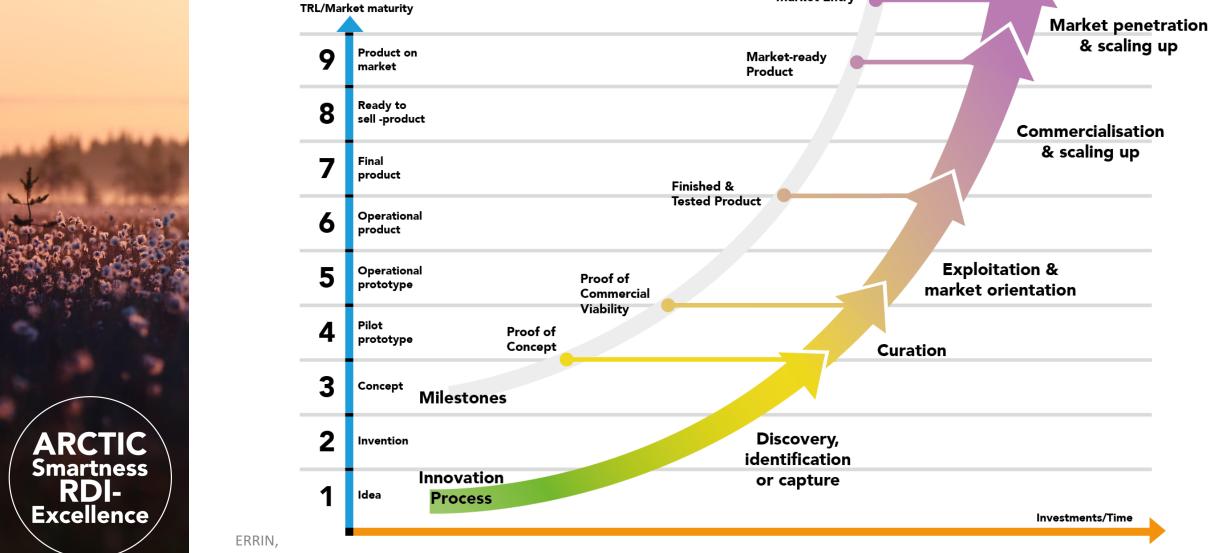
Supporting entrepreneurial growth through RDI







Innovation and TRL INNOVATION TRAJECTORY



Successful Market Entry





Piloting Regional RDI services

- During the ASR —project we are going to test our service model and service path to real customers and companies
- Try to find suitable companies (4-6 pieces with co-operation ASG-project and regional delopment offices) who have production or service development needs in different kind of TRL —levels
- Defining the customers needs and design to imploment plan with timetable, prices and financing possibilities
- Define the best possible case based expert teams with co-operation ASR-members (Lapland University, Lapland University of Applied Sciences, Geological Survey of Finland and Natural Resources Institute Finland etc.)
- Testing and piloting multidisciplinary RDI- and financier organizations -co-operation in real business service cases
- Get the feedbacks and reports from pilot cases and with the help of them develop and improve the service processes and but them to the practice.

Examples of pilot companies (negotiations): sales company (natural products), design and construction company, brewery, machine shop





Pilot process









Pilot case

- Finnish Sales Company (natural product) who wanted to sell bottled Lapish water in Amazon online shopping
- Demand: Product and design needs to be as Lappish as possible with as low carbon foot print as possible
- First they wanted to know which material has the lowest carbon foot print as possible
- After negotitions they hired to, Lapland University of Applied Sciences and Natural Resources Institute Finland to find it out
- The research is funding out by Business Finland (innovation voucher)
- This first ASR-Project pilot case will be ready by 10th June.



Arctic Smartness Research

Arctic Development Environments

"Welfare and business opportunities for Lapland by offering modern and effective development environments for companies' and organisations' RDI activities."

Thank you!

More info at: https://arcticsmartness.eu/

Contact: raimo.pyyny@lapinamk.fi or harri.malinen@ulapland.fi