



You Tube



LAPLAND
Above Ordinary

ARCTIC Bioeconomy

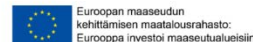
& ARCTIC SMART RURAL
COMMUNITY -cluster

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Vipuvoimaa
EU:lta
2014-2020

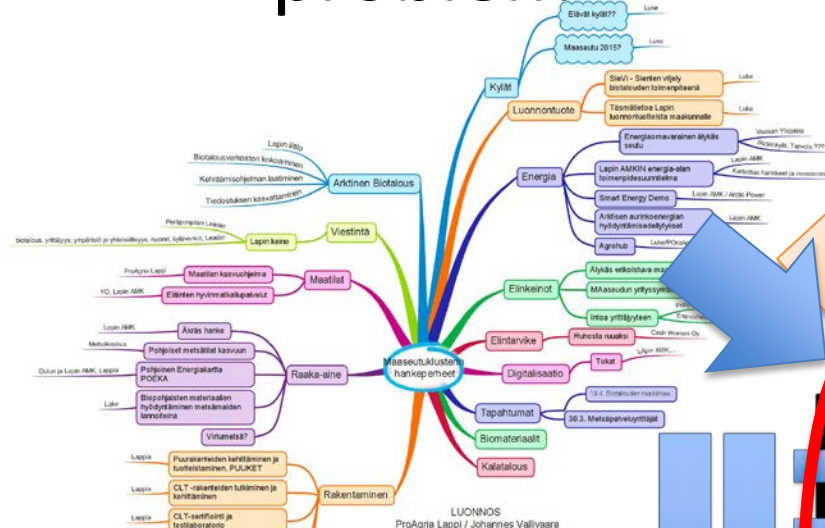


Euroopan maaseudun
kehittämisen maatalousrahoitus:
Eurooppa investoi maaseutualueisiin

Houston, we have a problem

ARCTIC
SMART RURAL
COMMUNITY

CLUSTER



ASE?

Arktinen Biotaloushanke

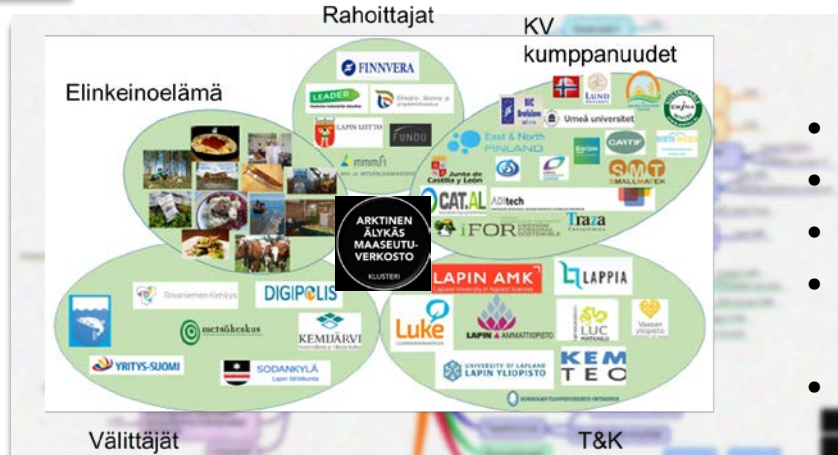
Erillishankkeet (Äly, Intoa Yrittäjyyteen,...)



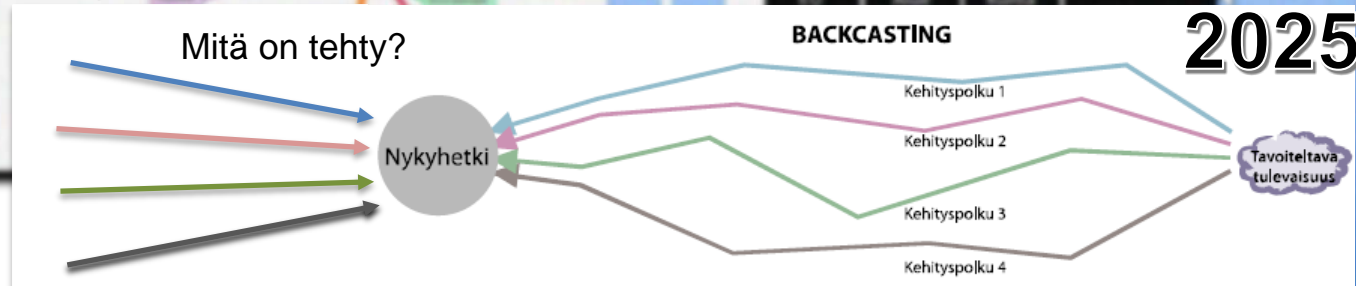
Mitä pitäisi tehdä?

ARCTIC
SMART RURAL
COMMUNITY

CLUSTER



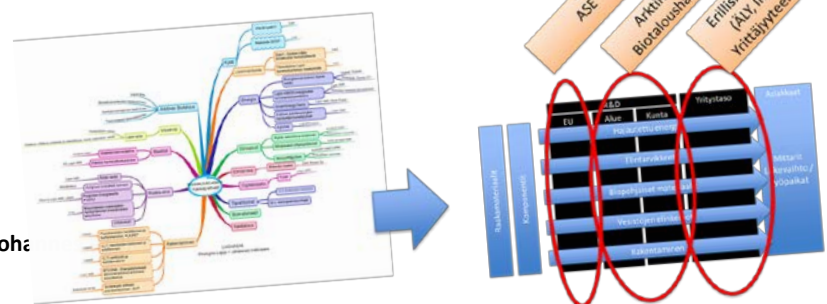
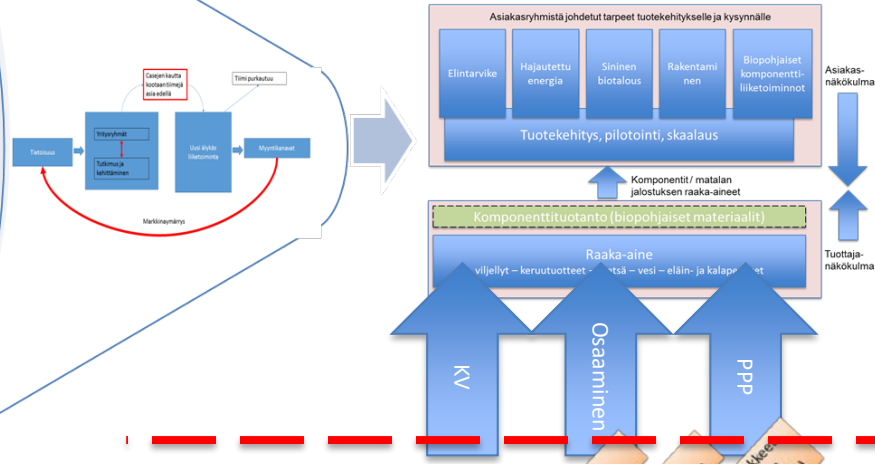
- **Elintarvikkeet** 600 M€
- **Hajautettu energia** 1.000 M€
- **Biopohjaiset materiaalit** 1.000 M€
- **Muut** 400 M€
- **Yhteensä** 3.000 M€



Elinkeinoelämän integroiminen



Biomateriaalit	3
Elintarvikkeiden jalostus	
Elintarvike asiakas	672
Elintarvike jakelu	71
Elintarvike jalostus	109
Elintarvike kone	1
Hajautettu energia	285
Raaka-aine	
Raaka-aine eläin	1555
Raaka-aine metsä	12610
Raaka-aine pelto	427
Sininen biotalous	347
Lappi yhteensä	37426



Arktinen älykäs maaseutuverkosto / Joh: ProAgria

Mitä on Lapin biotalous?



Vesistöt

- esim. kalankasvatus
ja ammattikalastus
merellä



Hajautettu
uusitutava
energia



Puurakentaminen



Biotalouspalvelut



Elintarvikkeet



Luonnontuotteet



Jalostus



Sininen biotalous
(järvikala)



Maatalous

- esim. perustuotanto



Metsätalous

- esim. biojalostamot,
sahat ja sellutehtaat



**Lapin Arktisen
bionalouden
kehittämisohjelma
2018—2025**


**ARKTINEN
Bionalous**



**LAPLANDS ARCTIC
BIOECONOMY
DEVELOPMENT
PROGRAMME
2018 - 2025**

A reindeer with large, velvet-covered antlers stands in a field of tall grass. The scene is set during sunset or sunrise, with a warm, golden glow in the sky. The reindeer is positioned on the right side of the frame, facing left. The text is overlaid in the center of the image.

**UNBEATABLE PURE PRODUCTS
FROM LAPLAND
– PROMOTING SUSTAINABLE BUSINESS!**

A scenic landscape photograph of a lake at sunset. The sky is filled with soft, golden light from the setting sun, which is reflected on the calm water. In the foreground, a small wooden boat with a motor is beached on a rocky shore. The background features a dense line of evergreen trees under a cloudy sky. The overall mood is peaceful and serene.

CARBON NEUTRAL ZERO-WASTE CLEAN

A photograph of a campfire in a natural setting. In the foreground, a dark metal kettle with a handle is on the left, and a light-colored, earthenware-style cup with two circular holes on its side is on the right. The cup is filled with a dark liquid. The campfire is in the center, with bright orange and yellow flames rising from a pile of logs. The background is a blurred natural landscape with trees and a body of water.

ARCTIC RURAL SMART COMMUNITY CLUSTER

ARCTIC SMART RURAL COMMUNITY CLUSTER



Mission

Stop the capital outflow and *clarify business potential*

Show what nature can offer to arctic areas

Dream SME's outcome from energy and food

1 billion € by 2025

- Decentralised renewable energy *biofuels, electricity, heat*
- Local food *processing*

STRUCTURE OF MODERN REGIONAL DEVELOPMENT CLUSTER MODEL



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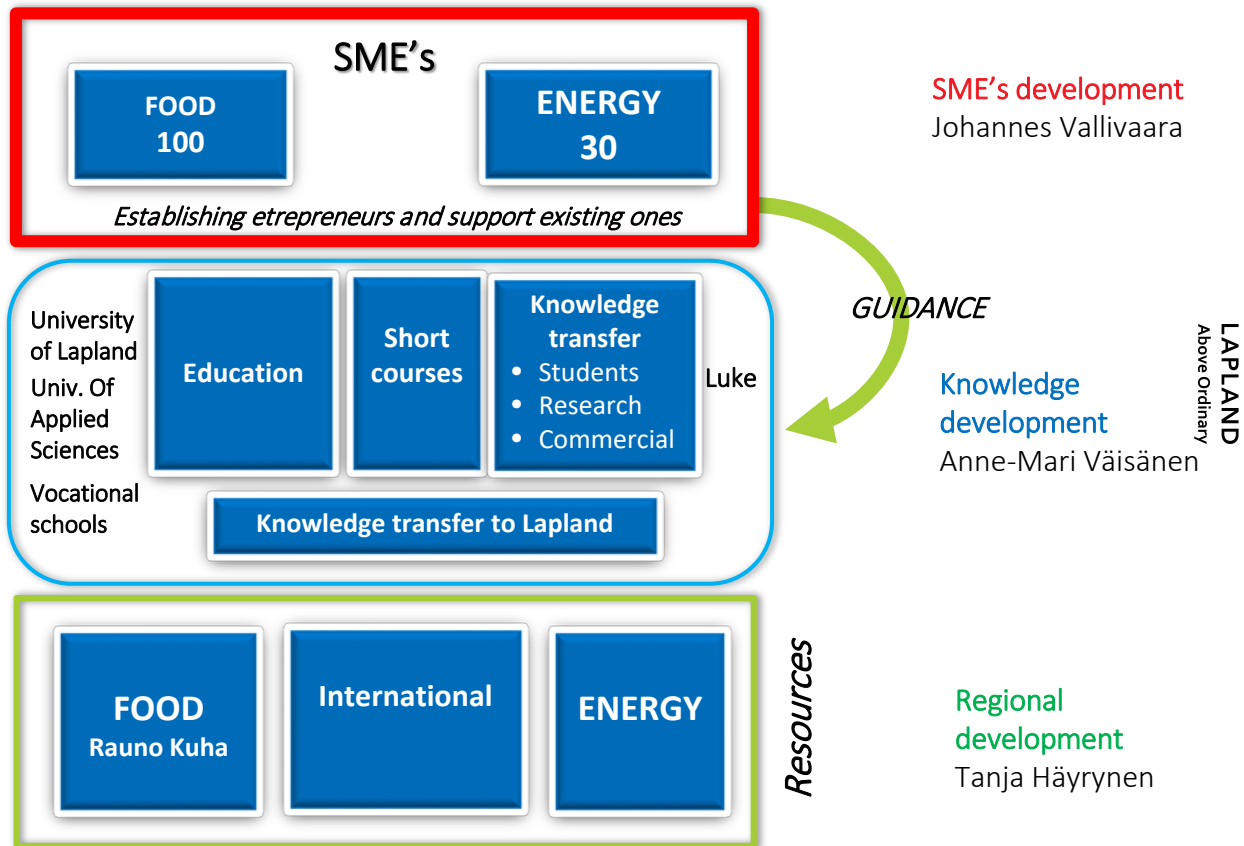
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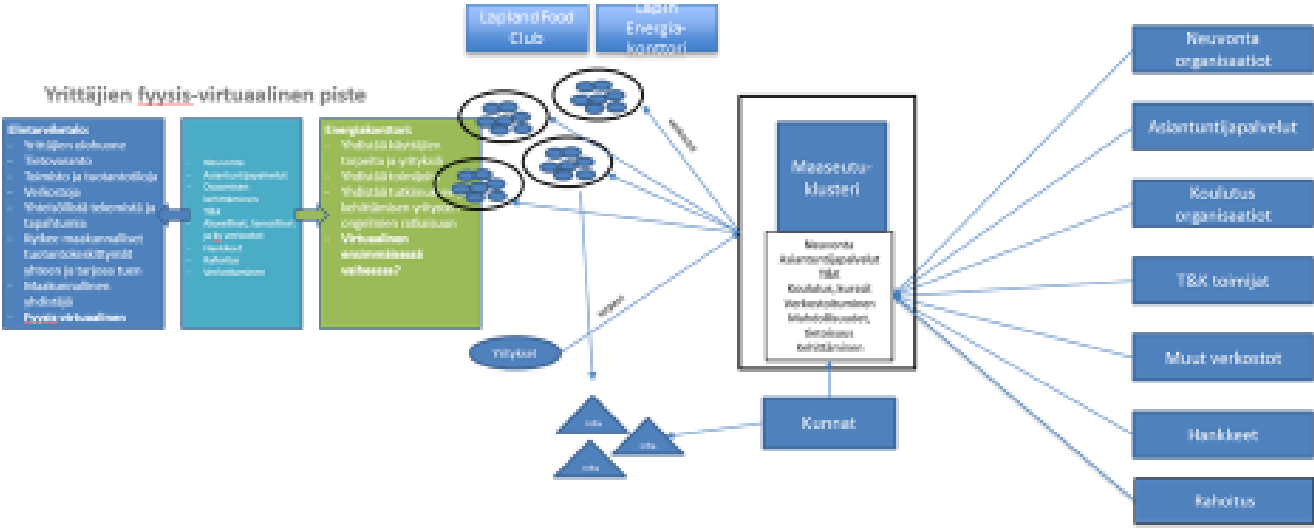
Strategic development



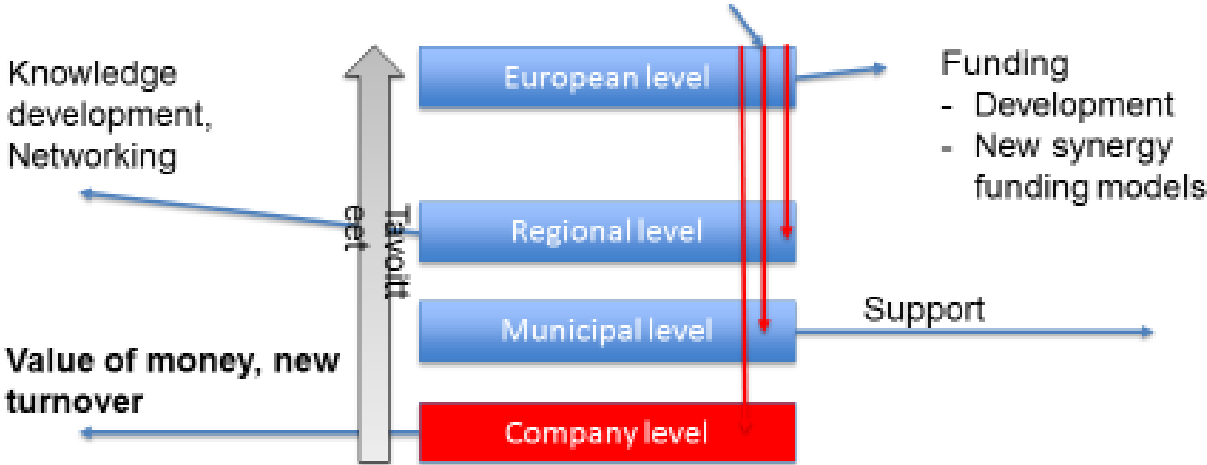
TKK

What is the cluster in the end?

Knowledge management



Success indicators



Vision 2025



15.6.2018

LAPLAND FOOD CLUB
Grüne Woche

Food club

-Under of arctic food system are 250 companies or entrepreneurs joined formally in to the cluster.

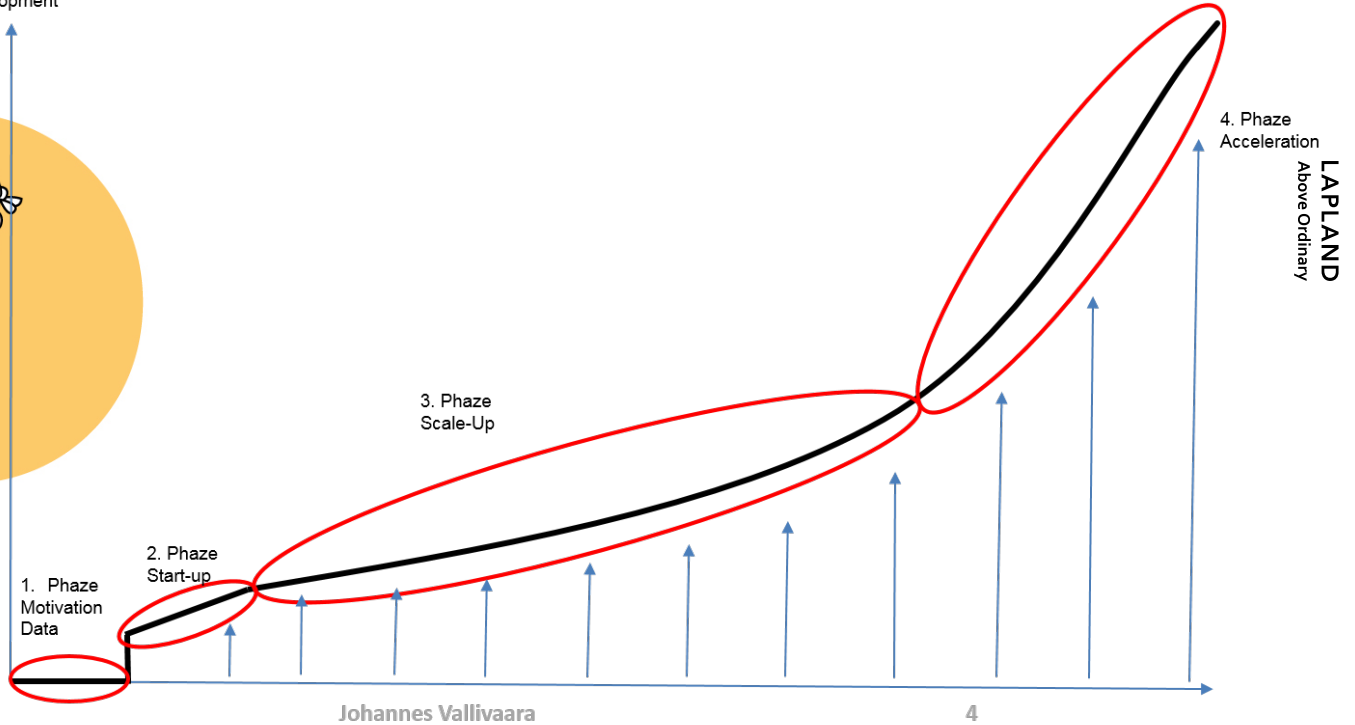
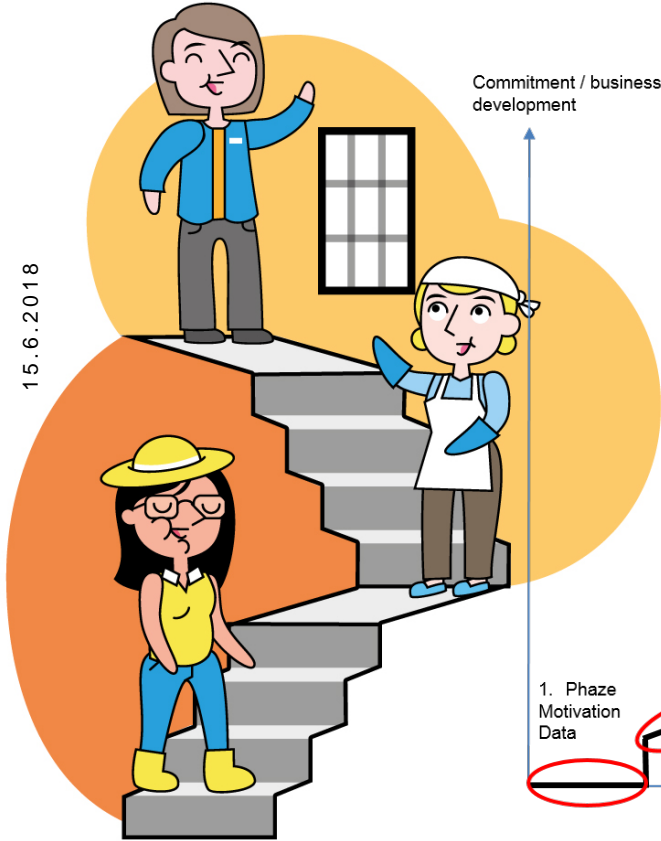
- Beginners 150: product development, entrepreneurial skills
- Junior 70: production, national markets, export skills
- Pro 30: export readiness capacity

Energy

-We have on the process 10 village size energy production unit which are own users
-We have 100 companies or entrepreneurs joined formally to cluster

System for developing new industries

15.6.2018



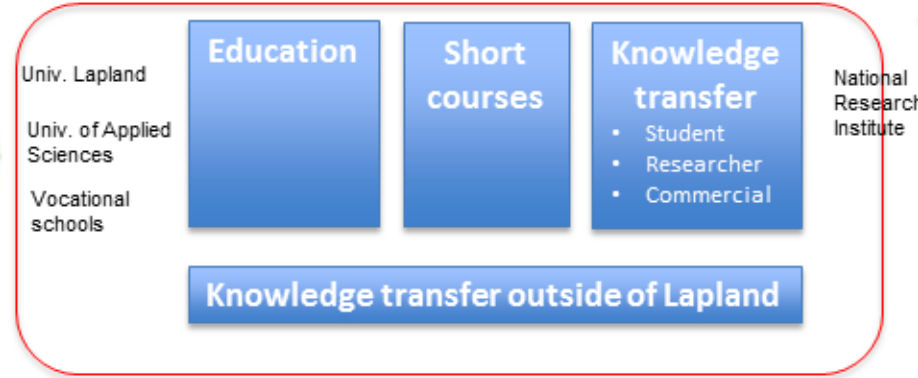
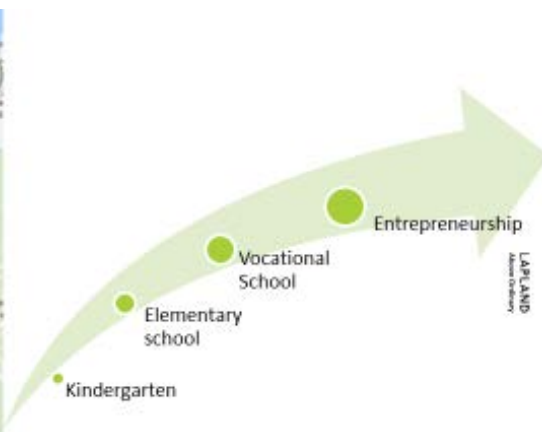
Johannes Vallivaara

4

Knowledge development

Goal 1: Knowledge bank

Goal 2: Develop educational processes so that they enable new kind of entrepreneurship





**LAPLAND'S SELF-SUFFICIENCY
RATE 30 %**

A worker in a white lab coat, blue cap, and blue gloves is handling sausages on a metal rack in a processing plant. The rack is filled with rows of sausages. The worker is looking at the sausages. The background is a stainless steel wall.

THE HIGHER REFINEMENT VALUE



THE NEW CUSTOMER SEGMENTS



SMART SPECIALISATION INTO USE

A group of three people are seated around a wooden table in a rustic, wood-paneled cabin. On the left, a woman wears a traditional red and blue patterned shawl and a matching headscarf. Next to her, a young man in a green jacket is looking down at a laptop. On the right, a woman in a dark jacket is looking towards the others. The table is set with a white tablecloth, a pitcher of orange juice, glasses of wine, and a bottle of wine. In the foreground, a large fire burns brightly in a hearth, with a metal teapot on a stand nearby. The overall atmosphere is warm and cozy.

1300 NEW JOBS



132 MILLION EUROS MORE INCOME

A close-up photograph of salmon skin, showing the characteristic wavy, scale-like texture. The skin is a warm, golden-brown color. A semi-transparent dark overlay is applied to the image, creating a dark background for the white text.

**FISH FROM
LAPPISH LAKES FOR CONSUMERS
THROUGH DIRECT SALE CHANNELS**

A stainless steel buffet line with several trays of food. From left to right, there are trays of yellow potatoes, a tray of a light-colored sauce or dip, and a tray of a darker sauce or dip. Each tray has a serving spoon or spatula. The background is slightly blurred, showing a dining area with tables and chairs.

**BETTER COOPERATION BETWEEN
CENTRAL KITCHENS AND FISHERMEN**



**FISH FROM LAPPISH LAKES TO TOURISM
CENTERS AND RESTAURANTS**

A fisherman wearing a bright green and black winter jacket and a black beanie is kneeling on a snowy surface. He is positioned next to a large, white, mesh fishing net that is partially buried in the snow. In the foreground, two large fish, likely salmon, are lying on the snow. The background shows a clear blue sky and a line of trees in the distance. The overall scene is set in a snowy, outdoor environment, likely a frozen lake or river.

**NEW PROFESSIONAL FISHERMEN TO
LAPPISH LAKES**



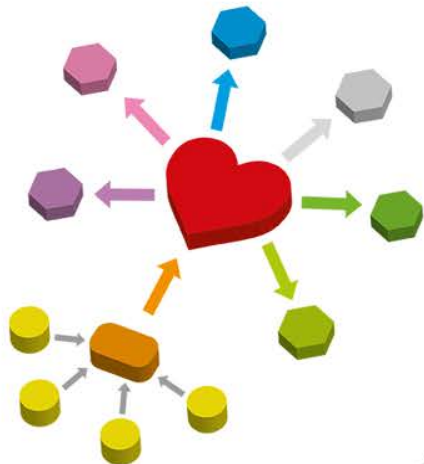
FROM A FISHERMAN TO SUCCESSFUL MULTITALENT



MODELS CREATED IN THE NETWORK

Local Foodhouses

- Sähköinen verkko ja Internet-yhteys talojen välillä
- Verkoston jäsenet viestivät keskenään
- Hyvä logistinen suunnittelu takaa tuotteiden nopean toimituksen tilaajille
- Elintarviketalot hajautettu Lapin alueelle raaka-ainesaatavuuden mukaisesti



Elintarviketalo

- Elintarvikkeen jalostus
- Maataloustuotteet, maito, liha
- Keruutuotteet, marjat, yrtit
- Juurekset
- Kala, liha



Toimijat

- Jalostaja
- Kehittäjä
- Markkinointi
- Myynti
- Vienti
- Matkailu



Vastaanottopiste

- Varastointi

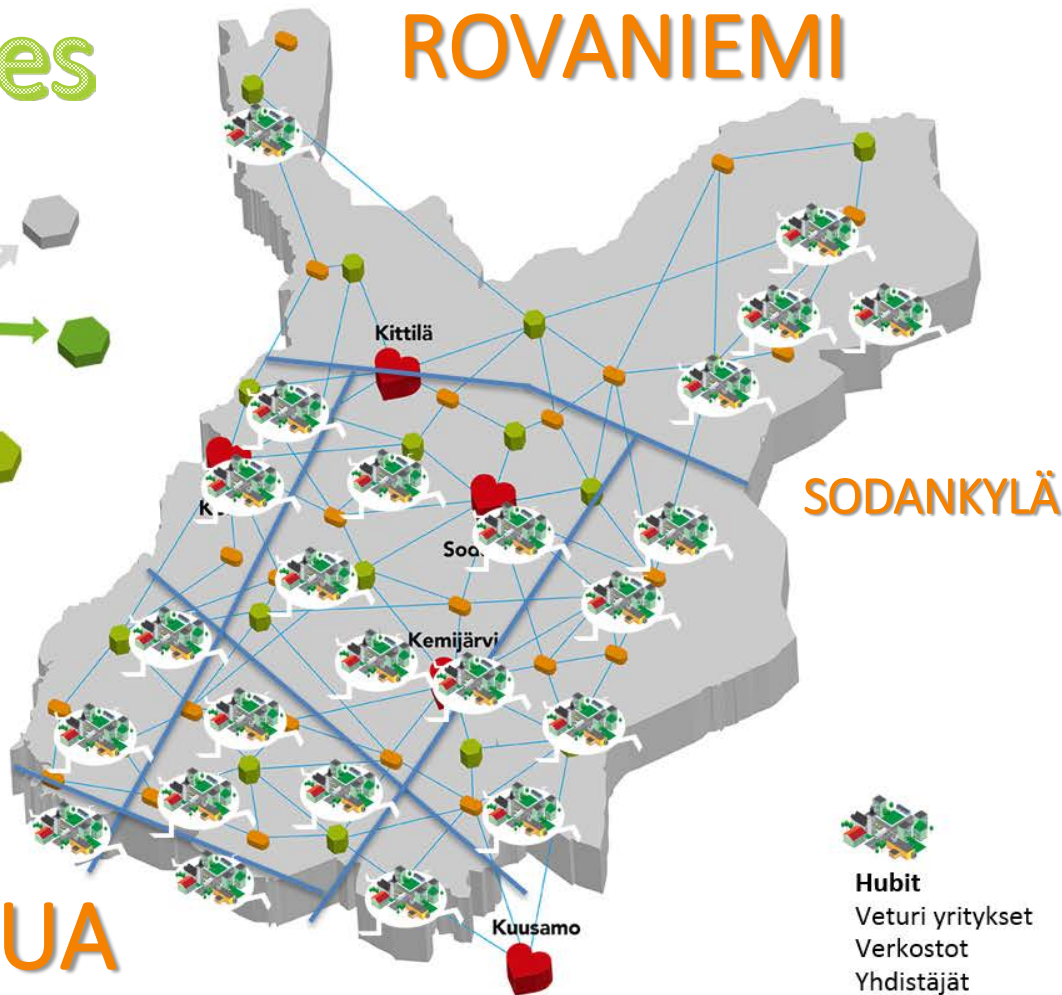


Raaka-aine

- Kerääjä
- Kasvattaja
- Viljelijä
- Toimittaja

RANUA

ROVANIEMI



SODANKYLÄ



Hubit

- Veturi yritykset
- Verkostot
- Yhdistäjät
- Hybridi laitokset

Rovaniemen REKO-ähiruokarengas



- Direct sale channel in Facebook
- Executes Laplands Food program
- Members 3500
- Producers 40 all around Lapland
- Distribution days in Laplands Food House every other week

- **FIRST** distribution day **on friday 7.7. at 16.30 - 17.30 at Laplands Food House**
- Participants **more than 200 persons**
- [Rovaniemen REKO-renkaan toimintaohjeet](#)



THE NEW ERA FOR LAPLAND'S CENTRAL KITCHENS

- *The goal: 30 % self-sufficiency rate in food sector*

• KITTILÄ

- 2016 = 15,4 %

• SODANKYLÄ

- 2016 = 10 %
- 2017 = 30 %

• YLITORNIO

- 2016 = 9,2 %
- 2017 = 13,6 %

• YOUR MUNICIPALITY?

• MUONIO

- 2016 = 1 %
- 2017 = 1 %

• SALLA

- 2016 = 25 %
- 2017 = 25 %

• RANUA

- 2016 = n. 8 %
- 2017 = n. 15 %

• KEMIJÄRVI

- 2016 = 26 %
- 2017 = 25 %



Arctic Warriors

Extraordinary powers are hidden inside the spices of Lapland. They grow around the clock under the midnight sun, consuming the purest air and cleanest water in the world to bring their powers and vitality to you - the consumer.



Leivejoen Liha

Our highland cattle freely graze in a natural, open state throughout the year. The low-fat meat receives its authentic taste and tenderness under the Northern Lights, in temperatures below -30 degrees, making Arctic Meat a uniquely savoury experience.



FLAVOURS LAPPISH NATURE

[Read More](#)

Annelin Yrtit ja Karkit

Aromatic. Arctic berries are rich in vitamins and naturally matured under the midnight sun. In these jellies and syrups, you can taste pure nature and passionate craftsmanship: a Lappish work of art that has existed for generations.



Santa Water Group

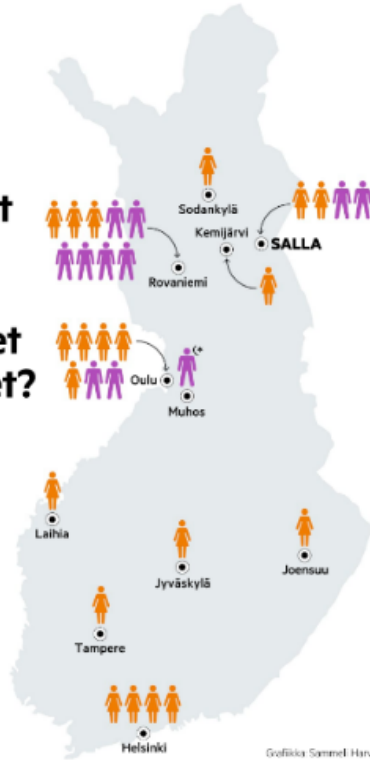
Lapland is not only covered by dense forests. Across the expansive wilderness, the cleanest water in the world flows in thousands of streams and bubbles in centuries-old springs. We only offer the finest water for the most demanding of consumers.



KNOWLEDGE DEVELOPMENT - YOUNG PEOPLE STAY IN LAPLAND

Master thesis on wood construction and bioenergy in Lapland coming from 4 students!

Minne päätyivät vuonna 1990 syntyneet sallalaiset?



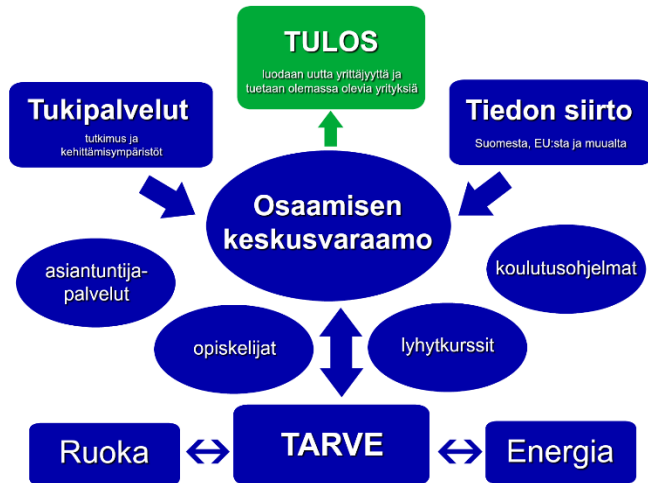
LECTURES AND ALUMNI MEETINGS for bioeconomy students

SOCIAL MEDIA SUPPORT to University of Applied Sciences Bioteam

TWO STUDENTS spending a day with us and getting know to rural cluster

INTERVIEWS for the bioeconomynews – blog from the students

LAPLAND
Above Ordinary



A scenic view of a village in Lapland, featuring several red and yellow buildings, a green hillside, and a body of water in the foreground. The image is framed by dark, vertical bars on the left and right sides, suggesting a video player or a presentation slide. The text is overlaid in the center of the image.

10 ENERGY SELF-SUFFICIENT VILLAGES IN LAPLAND

A landscape photograph featuring a dense forest of trees with autumn foliage in shades of green, yellow, and orange. In the foreground, there is a grassy field with four large, white, rounded hay bales. A calm pond or lake is visible behind the hay bales, reflecting the sky. The overall scene is serene and natural.

THE RAW MATERIALS INTO USE THROUGH CIRCULAR ECONOMY

A close-up, low-angle shot of a person's legs from the knees down, wearing dark blue denim jeans and tall, olive-green rubber boots. The boots have a textured, slightly worn appearance. The person is standing on a light-colored, sandy or gravelly ground. The background is out of focus, showing more of the ground and some sparse vegetation.

**THE INHABITANTS TAKE THE
DECENTRALISED RENEWABLE ENERGY IN
THEIR OWN HANDS**

A close-up photograph of a silver metal key with a blue braided cord attached to its ring. The key is positioned vertically, with the ring at the top and the bit at the bottom. The background is a light-colored, textured surface, possibly a door or wall, with a vertical crease or seam on the right side. The lighting is soft and even.

**THE NEW ERA OF THE ENERGY
ENTREPRENEURSHIP**

THE CHALLENGE OF PLACE-BASED PROCUREMENT

Example from municipality:
The impacts for the place-based economy

- offer **request for energy wood** - > a vendor from Russia was chosen
- the “**saving**” was **9000 €/ year**
- **the losses:** 6-9 employed people, taxes 312 000 €, the harvest support 210 000 €... = **the losses are at least 648 000 €/ year!**

15.6.2018



Hankintojen vaikutukset aluetalouteen



Tarjouspyyntö energiapuusta

Venäläinen toimittaja

Paikallinen toimittaja



= "Säästää"
9 000 € /vuosi

Miten voimme kääntää tämän mahdollisuudeksemme?

Menetykset:



6-9
työpaikkaa

210 000 €
korjuutukia



312 000 €
veroja



= Menetykset alueataloudelle
648 000 €
/vuosi

*What can we do?
How can we change this and
turn it to be an opportunity?*

What has happened in energy sector?

- We have published Lapland decentralized energy program
- We are starting to interview energy sector companies

September 2017

- Report from the interviews on April 2018

LAPLAND'S ENERGY OFFICE



LAPLAND

15.6.2018

A close-up photograph of a wooden beam, showing a dovetail joint. The wood has a warm, light brown tone and a visible grain. The beam is positioned diagonally, creating a sense of depth and perspective. The background is softly blurred, focusing attention on the wood's texture and the precision of the joint.

WOOD FOR GENERAL BUILDING MATERIAL

ALL TOURISM CONSTRUCTION OF WOOD


S3 SUSTAINABLE BUILDINGS - PLATFORM

A rural scene featuring a two-story yellow house with a white door and a red barn in the background under a blue sky with clouds. The house has a small porch with a white door and a window with a wreath. A red barn is visible in the distance, and a flower bed with red flowers is in the foreground.

COMMUNICATION ACTIVITIES AND INTERNATIONAL CO OPERATION







THE BEST OF BIOECONOMY IN VIDEO FORMAT!

[Link to the playlist](#) - take a look!



ARKTINEN Biotalous

Biotalousen parhaimmista!
Arktinen Biotalous - 7 / 7

- 2  Verkostoyhteistyöllä tuloksiin Lapissa!
Arktinen Biotalous 1:45
- 3  Kunnat lähiruuan edistäjinä
Arktinen Biotalous 1:01
- 4  Kuntien välinen yhteistyö vahvistaa aluetaloutta
Arktinen Biotalous 1:00
- 5  Lähienergian uusi aikakausi!
Arktinen Biotalous 1:17
- 6  Kestäviä ratkaisuja rakentamiseen Lapissa
Arktinen Biotalous 2:10
-  Maaseutuklusteri sinun tukenasi!
Arktinen Biotalous 1:41

Maaseutuklusteri sinun tukenasi!

 Kestäviä ratkaisuja

COMMUNICATION CHANNELS - come to follow us!

Situation on May 23 2018



INSTAGRAM - 161 followers

- VISUALISATION

- **BIOTALOUSUUISET** - reading times 17 000, published stories 88
 - OUR BLOG - MOST IMPORTANT CHANNEL
 - STORIES ALSO IN ENGLISH!
- **FACEBOOK** - 546 likes - followers 567
 - ADVERSEMENTS
 - ADMIN OF ROVANIEMI'S REKO-CIRCLE
- **TWITTER** - 515 followers
 - NEWS, EVENTS...
 - RETWEETS
- **YOUTUBE** - 7 subscribes, 18 videos
 - IN THE FUTURE ALSO INTERVIEWS
- **HOMEPAGE**
 - MORE INFORMATION ABOUT THE EVENTS
 - LAPLAND'S BIOECONOMY CALENDER AND INTERNATIONAL EVENTS
 - NEWSLETTER

ARCTIC
SMART RURAL
COMMUNITY

CLUSTER

Big visions of rural Lapland
– still down to Earth

The current state of rural areas might seem depressing when viewed from Lapland, but in Europe Lapland is considered a treasure trove. The preconditions of rural life are dependent on the developing business activities. We live in the midst of nature's own treasure trove.

If we combine the expertise of those operating in different sectors in Lapland, we will have the knowledge and skills to develop the products and services that are already high in quality into world-class success stories. We just need to do so on the notions of a living countryside and trace a new smartly specialised, living rural Lapland of opportunities.

Arctic Smart Rural Community Cluster, i.e. Rural Cluster, aims to demonstrate to people by its actions the business potential of the rural area and to prevent the outflow of rural capital. One concrete example of the impacts of fleeing capital on the regional economy can be seen in Figure 1. Even if rural Lapland has enormous natural resources, we are not utilising them efficiently and sustainably enough at the moment. Rural Lapland is by no means a remote corner of the world, but is situated amidst incredible sources of raw material, which guarantee almost

Infinite uses by utilising the principles of circular economy. At the moment, however, villages in Lapland purchase energy and food from outside Lapland with millions of euros annually. According to our studies, nearly 50% of the villages' purchasing power is spent on energy and food. All these euros are fleeing the area, Lapland and even Finland, even though a major portion of energy and food could be produced locally in a sustainable and profitable manner. Luckily, we can have an impact on this by adjusting our way of thinking and operating. This way, we can keep the euros in the area to bring benefit to all residents of the area in the form of picking up regional economy.

The objective of the Rural Cluster is to cut off the outflow of capital of rural Lapland by creating completely new business operations in the fields of food products and decentralised energy production alongside the traditional

entrepreneurship activities. The operations of the Rural Cluster aim to improve the local growth of the value added of the rural raw materials in order to maintain an increasing amount of capital with the owners of raw materials.

“When we manage to put an end to the fleeing of capital and turning the trend to the opposite direction, the benefits will multiply within the area.”

All operations of the cluster are focused on the development of the selected business sectors. An operating method has been created for the cluster wherein the aim is to find solutions for the existing problems of entrepreneurs and to introduce new entrepreneurs to the sector. The tool for this is the knowledge development, which covers training, research and the counselling needed by entrepreneurs.

We constantly need new research data and new able hands in order to make entrepreneurship profitable in Lapland. The regional development tools serve as resources for the development of business operations and knowledge. With the help of different projects, for example, we can tackle the challenges faced by the development of entrepreneurs and knowledge, distribute information efficiently and influence our decision-makers. The operations of the different sub-areas of the Rural Cluster result in a business-driven cluster that is able to identify the bottlenecks in the business life development and resolve them with the help of an extensive cooperation network and, finally, stop the outflow of capital plaguing the rural areas as a joint effort.

When we manage to put an end to the fleeing of capital and turning the trend to the opposite direction, the benefits will multiply within the area. The new entrepreneurship generated in the region will help in generating economic growth and capital will remain in the area. As capital remains in the region, new jobs are created, which in turn generates well-being for the people. Due to the employment opportunities and rich nature, rural Lapland is seen as an attractive place to live in, which, for one, attracts especially young returning migrants and new residents to Lapland. We need young, innovative entrepreneurs to vitalise the local business life, among other things, in the form of new kinds of businesses. This will generate a positive cycle with a huge impact on the future of all of rural Lapland.

Join us in generating a positive cycle by doing things together! The Arctic Smart Rural Community Cluster, i.e. Rural Cluster, is constantly working with might and main for the vitality of rural Lapland. We all carry responsibility for the future Lapland, so all hands are needed on deck in the activities of the Rural Cluster – let's do it together!

FURTHER INFORMATION
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Procurement impacts on regional economy

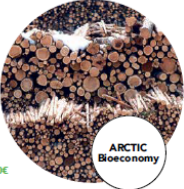
Example: procurement impact on regional economy in one region

In a tender for energy wood a Russian vendor was chosen

“Savings” were estimated 9 000€ per year
Losses: 6-9 jobs, 312 000€ in taxes and 210 000€ in harvest subsidies.

= Overall losses to the regional economy approximately 648 000€ per year

Figure 1. Regional economic impacts of procurement.

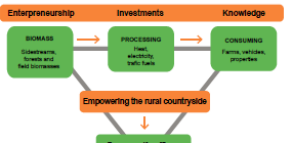


Food and energy

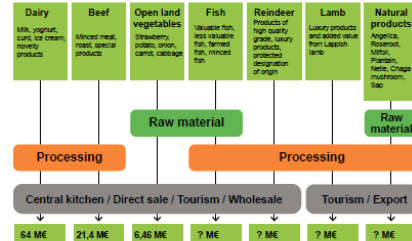
One focus area in the activities of the Rural Cluster has been to close the ranks of developers around the themes of the programme. For this reason, three programmes have been prepared: extensive cooperation in the cluster: Bioeconomy development programme, Lapland' food programme and Lapland's decentralised renewable energy programme. The programme contents have been assembled from hundreds of different workshops, meetings and events in Lapland. The work has involved

hundreds of people from dozens of different organisations, businesses and educational institutes, so expertise has been guaranteed and viewpoints in the preparation of the programme contents wide. The programmes describe briefly the current status of the different themes of bioeconomy (food and natural products, decentralised renewable energy, blue bioeconomy and wood construction) in Lapland, vision for 2025 as well as the

VISION 2025 – 10 energy self-sufficient villages



SELF-SUFFICIENCY RATIO 30% PRODUCED IN LAPLAND

100 +
MILLION € 2025

measures needed to obtain the vision. The vision of Lapland's food programme is to reach a 30% degree of self-sufficiency in terms of provisions manufactured from raw materials growing in Lapland by 2025. The measures emphasised by the programme include processing, marketing, communications and knowledge development. In addition, the programme presents Food House -concept, which assembles entrepreneurs under one roof

to utilise joint machinery and to jointly offer their products to central kitchens, tourism and other customers. In the Energy programme, the vision is to establish 10 energy self-sufficient villages in Lapland by 2025 via decentralised energy production in the villages utilising local raw materials. The programme presents among other things different new financing models as well as packaging the demanding permit processes into services.

The programmes will not be left to gather dust on a shelf, but will be put into active use in future development work. The programmes can also be utilised by entrepreneurs by picking development possibilities suited for their own operations and representatives of educational institutes that see, for example, topical education possibilities in the programmes when cultivating future actors.

Lapland's food programme
and Silver Label in the cluster analysis

Steps have been rolled up (action taken in Rovaniemi) in the implementation of Lapland's food programme. In May, the REKO local food circle of Rovaniemi was launched with the aim of providing a new direct sales channel for the producers of local food and natural products where the products exchange owners based on electronic advance orders without any middlemen. At the moment, the REKO circle operates as a Facebook group that had approximately 2,800 consumer members and approximately 40 producers in October 2017. Orders are placed in the event of the

distribution day held on Fridays roughly every two weeks or via the re-order order platform after tea, it is not necessary to join the Facebook group to be a part of the operations. There is a total of five REKO circles in Lapland: Rovaniemi, Ranua, Enontekiö, Sea Lapland and Kittilä as the most recent one.

The operations of the Rural Cluster have received much international attention over the last year. On 11 October 2017, the cluster received the Silver Label in the cluster analysis as a recognition of successful development of

cluster operations. The cluster has taken the required steps towards genuine entrepreneur-orientation and put in motion important measures for the development of rural Lapland. These have not gone unnoticed in Finland or abroad. Key persons of the Rural Cluster are regularly asked to speak in different seminars and events about the operations. The Rural Cluster shone on the stage, for example, in a public discussion event of a seminar organised in Estonia where it was suggested to turn the operations of the Rural Cluster into an exports asset to be spread globally.

REKO
FOOD CIRCLES
in Lapland

Learn more
about REKO
food circles
online:



- 7 REKO circles
- Encourages the Lapland food program
- Approximately 6000 consumers and 100 producers
- REKO is a simplified electronic sales channel directly from the producer to the end user
- A good way to test new products and receive feedback from the customers

CLUSTER IN A NUTSHELL

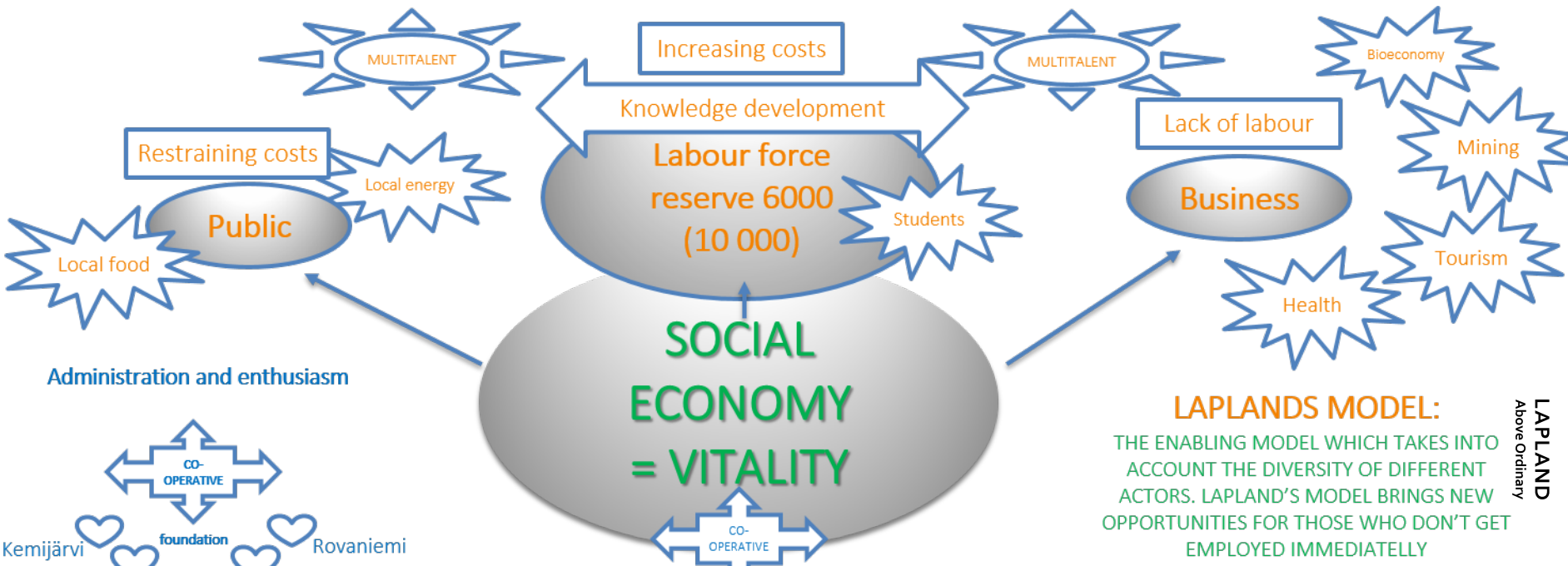
ARCTIC SMART RURAL COMMUNITY CLUSTER,
I.E. RURAL CLUSTER

- The objective is to prevent capital from fleeing rural areas and to demonstrate to other people that rural areas offer good possibilities for profitable business operations.
- The focus is on further processing of food and the development of decentralised renewable energy.
- Consists of mutually supportive sub-entities: the entrepreneurship, knowledge and regional development entities.
- A network of 100 entrepreneurs and 200 developers: municipalities, financials, politicians, projects, research and educational institutes and business advisors.
- Centralised and industry specific wisdom on food processing and multipolar energy production.
- Coordinates international development and project activities.



SOCIAL ECONOMY – Lapland model





SOCIAL ECONOMY = VITALITY

Labour force reserve 6000 (10 000)

Business

Restraining costs

Increasing costs

Knowledge development

Lack of labour

Students

Local energy

Local food

Bioeconomy

Mining

Tourism

Health

Administration and enthusiasm

CO-OPERATIVE

CO-OPERATIVE

foundation

Kemijärvi
Sodankylä
Kemi
Rovaniemi
Tornio

ADVANTAGE IN COMPETITION: local economy and social

LAPLANDS MODEL:

THE ENABLING MODEL WHICH TAKES INTO ACCOUNT THE DIVERSITY OF DIFFERENT ACTORS. LAPLAND'S MODEL BRINGS NEW OPPORTUNITIES FOR THOSE WHO DON'T GET EMPLOYED IMMEDIATELY

THE GOAL IS TO START A POSITIVE CIRCLE!

LAPLAND
Above Ordinary

The effects of employment on local economy.
How many people are employed locally?

The effects of employment on local economy
How much money will be left in the local economy from 1 €?

30.5.18

18.6.18

ARKTINEN BIOTALOUS

ARCTIC DEVELOPMENT ENVIRONMENTS CLUSTER

ARCTIC SAFETY CLUSTER

ARCTIC INDUSTRY AND CIRCULAR ECONOMY CLUSTER

ARCTIC DESIGN CLUSTER

ARCTIC SMART RURAL COMMUNITY CLUSTER

Bilbao 1.-3.18

23.10.18



Euroopan maaseudun
kehittämisen maatalousrahasto:
Eurooppa investoi maaseutualueisiin

Vipuvoimaa
EU:lta
2014–2020



Thank you!

ARCTIC Bioeconomy

& ARCTIC SMART RURAL
COMMUNITY -cluster

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