



# EIP-AGRI Workshop 'Opportunities for Agriculture and Forestry in the Circular Economy'

28-29 October 2015  
Naantali, Finland

All information of the workshop available on [www.eip-agri.eu](http://www.eip-agri.eu) at the event webpage

<https://ec.europa.eu/eip/agriculture/en/content/eip-agri-workshop-opportunities-agriculture-and-forestry-circular-economy>



# AGROHUB

New paradigm for rural region – distributed generation



LAPIN LIITTO

Arctic Smart Rural Communities - Cluster



# Lapland - today



Rovaniemi from:

- Helsinki, 706 km
- Brussels 2114 km
- Milan, 2540 km
- North pole 2 623 km

- The northernmost region of Finland and European Union
- Border with Russian, Norway and Sweden
- Total area 100 370 km<sup>2</sup>: land area 92 664 km<sup>2</sup>, internal waters 6 321 km<sup>2</sup> and sea 1 385 km<sup>2</sup>
- 182 856 inhabitants, density 1,8 people/km<sup>2</sup>
- 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%
- Total amount of companies 10 400,
- Total turnover of all companies 10 billion Euro
- Total forestry volume 358 milj. m<sup>3</sup>, yearly growth 13 milj. m<sup>3</sup> and logging 5,6 milj. m<sup>3</sup>

Arctic Smart Rural Communities - Cluster

## Arctic Smart Rural Communities Cluster

- Migration from rural areas to cities is increasing
- Rich nature offers a great potential to wide-range smart resource based business
  - > Food & healthy
  - > Fuel & energy
  - > Materials & chemicals
- With regional, national and international level partners
- Core is adding value to sme's and farmers at rural area

## Case study:

# VILLAGE KIERINKI

In Sodankylä municipality  
Lapland



Households

65



Population

116



Farms

2



Holiday camp

1



Vehicles

258

## What we did at Kierinki?

1. We interviewed all inhabitants and companies at Kierinki to find out how much they are using energy
2. For a result we calculated energy balance to Kierinki

Local inflow  
1 820 000 €  
- 765 600 €  
- 300 000 €  
Local purchase

Food  
300 000 €

Energy  
765 600 €

## The findings

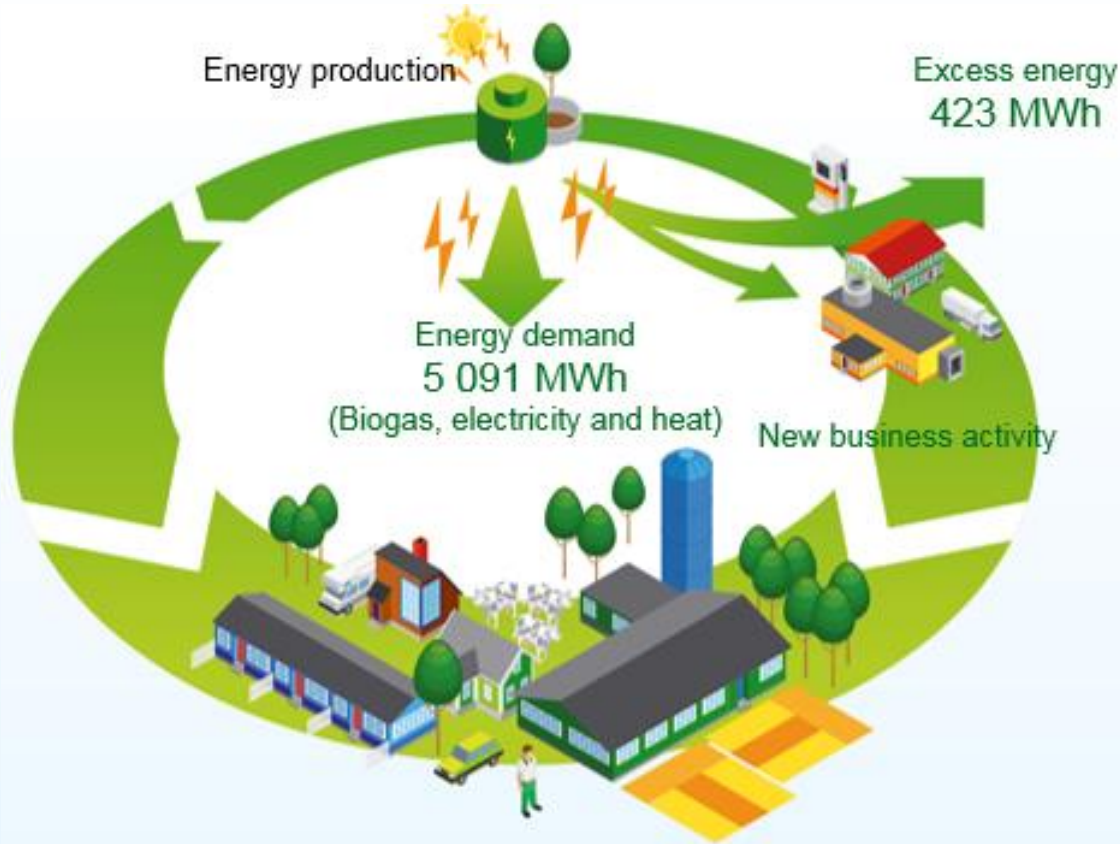
- Capital outflow
- Potential of bioeconomy unknown
- Native people and farmers own mainly all resources what needed

-> Positive enthusiasm and suspicion at the same time



## Solution – Idea of agrocenter

- Balanced energy, food and business activity system where the ownership is local people, farms and firms.



- Fair earnings for each member
- Strong sense of communality
- Digitization
- Market's ownership
- > Capital to local economy

# From the Agrocenter to AGROHUB



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## What we are doing now?

- We are investigating usage of energy from 4 villages
- We are looking funding for piloting Agrocenter energy unit
- We are looking partners whom are having interest to develop biobased multipolar energy systems
- And partners whom interest are food & healthy or biomaterials in arctic rural context

Thank You

Please contact:

Keijo Siitonen, Senior Rural Advisor

[keijo.siitonen@proagria.fi](mailto:keijo.siitonen@proagria.fi), +358 400180257