



European Institute of  
Innovation & Technology

# EIT HEI Initiative

Innovation Capacity Building  
for Higher Education



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## Circular economy and Sustainability in Lapland UAS and Lapland Region

Katri Hendriksson, Mirva Juntti / 20.2.2024



European Institute of  
Innovation & Technology



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**Ms. Katri Hendriksson**  
**M.Eng**  
**Project Specialist / RDI and**  
**Responsibility coordinator**  
**New Industry**  
**Lapland University of Applied Sciences**

- I am a project specialist, Team leader and RDI and responsibility coordinator at Lapland UAS in New Industry expertise area. My role is to find out more opportunities to make and innovate new RDI research areas.
- My education includes project management, production economy and sustainability. I have been educated also to professional teacher.
- I have over 6 years experience from circular economy, national impacts, regional opportunities and challenges and public sector.



**Mirva Juntti**  
**Ph.D.**  
**Head of Development; sustainability**  
**Lapland University of Applied Sciences**

- I am a development manager of sustainability at Lapland UAS. My role is to seek opportunities for development, and actively contribute to enhancing processes, policies, and programs.
- My research interests lie in environmental, social and governmental sustainability and power in generating organizational discussion.
- In my dissertation, I studied the process efficiency of the higher education institution and its effects on industry collaboration.
- My 25 years experience in this organization has taught to embrace a growth mindset in any position.

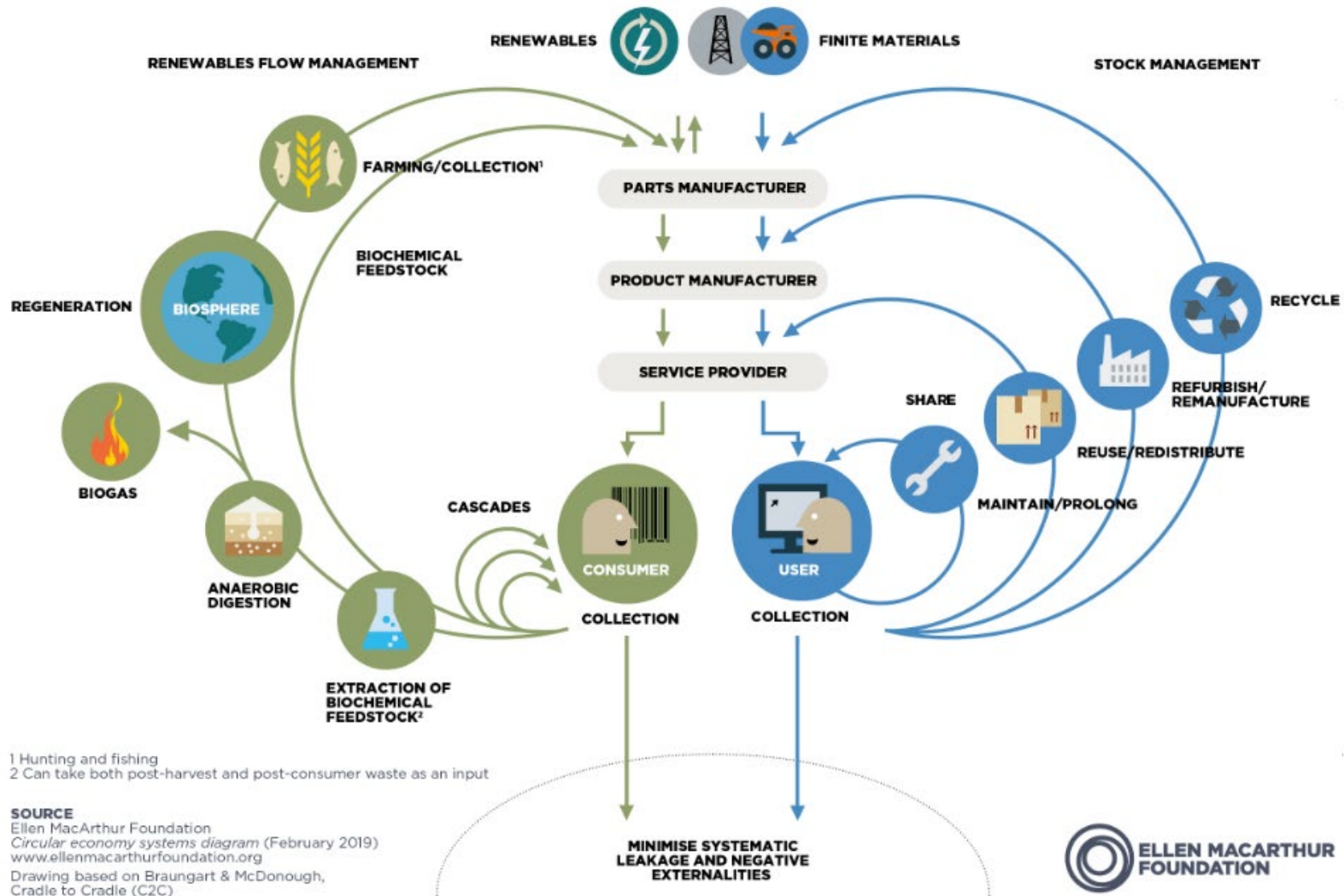
# Circular economy and Sustainability in Lapland UAS and Lapland Region

## Contents

- What is circular economy?
- How circular economy is connected to Lapland region?
- How sustainability and responsibility are connected to everything and especially to Lapland UAS's actions?
- Sustainability and responsibility in Lapland region
- What is Lapland university of applied sciences role as an influencer?
- Conclusion and wrap up



# What is circular economy?





# How circular economy is connected to Lapland region?

## DISTRIBUTION OF LAPLAND'S INDUSTRY IN 2019

INDUSTRIAL SECTOR CREATES ALMOST 68% OF LAPLAND'S TURNOVER & QUARTER OF LAPLAND'S JOBS.

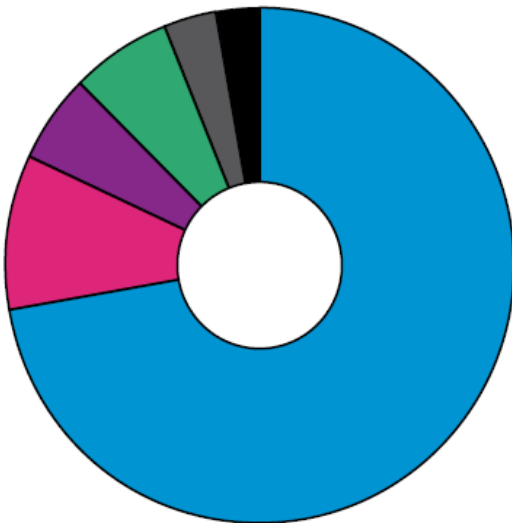
LAPLAND ACCOUNTS FOR 6% OF FINLAND'S TOTAL EXPORT OF GOODS IN 2019.













LAPLAND'S EXPORT VALUE IS 3.8 BILLION, OF WHICH INDUSTRY ACCOUNTS FOR 90%.

### TOTAL TURNOVER FROM INDUSTRIAL SECTOR

**9,5 BN €**

-2% COMPARED TO PREVIOUS YEAR

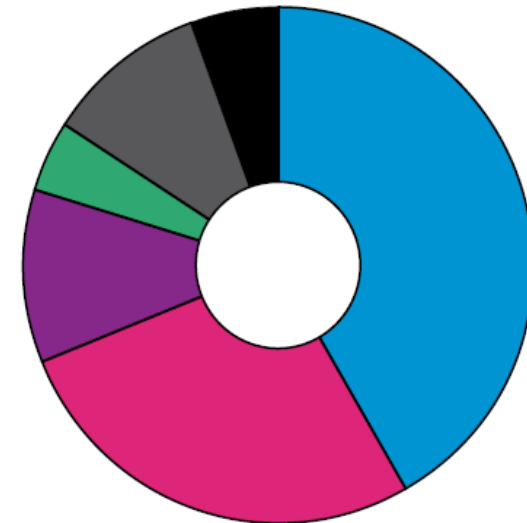


INDUSTRY		
	<b>6,9 BN   7 340</b>	
4,6 BN	Manufacture of basic metals	2 420
1,1 BN	Manufacture of paper and paper products	870
365 MM	Manufacture of motor vehicles, trailers and semi-trailers	410
205 MM	Manufacture of wood, and wood and cork products	560
189 MM	Repair, maintenance and installation services of machinery and equipment	950
CONSTRUCTION		
	<b>913 MM   4 810</b>	
MINING & QUARRYING		
	<b>526 MM   1 910</b>	
ENERGY, WATER & SANITATION		
	<b>612 MM   810</b>	
Electricity, gas, steam and air conditioning supply, water supply, sewerage, waste management and remediation activities		
WAREHOUSING, DESIGNING & TESTING		
	<b>321 MM   1 780</b>	
Warehousing and support activities for transportation, architectural and engineering activities, technical testing and analysis		
FORESTRY & LOGGING		
	<b>258 MM   960</b>	

### TOTAL NUMBER OF INDUSTRIAL SECTOR PERSONNEL

**17 600**

+3% COMPARED TO PREVIOUS YEAR



# How circular economy is connected to Lapland region?

## COMPANIES



## NATIONAL PARTNERS



## NETWORK OF ECO INDUSTRIAL PARKS



## ARCTIC INDUSTRY AND CIRCULAR ECONOMY CLUSTER

## EDUCATIONAL AND R&D SECTOR



## INTERNATIONAL PARTNERS



## PUBLIC SECTOR



# How circular economy is connected to National region?

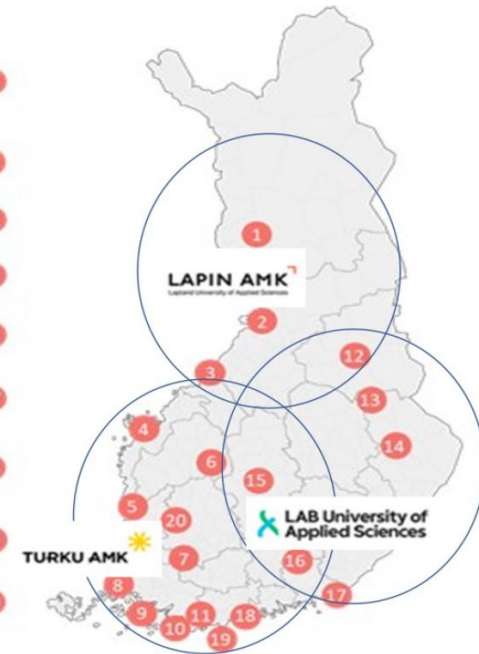
- Aim is to develop systematically circular economy services for companies in Finland
  - Network of 20 higher education institutes in collaboration
- Support from Finnish Innovation Fund Sitra (2022-2023)



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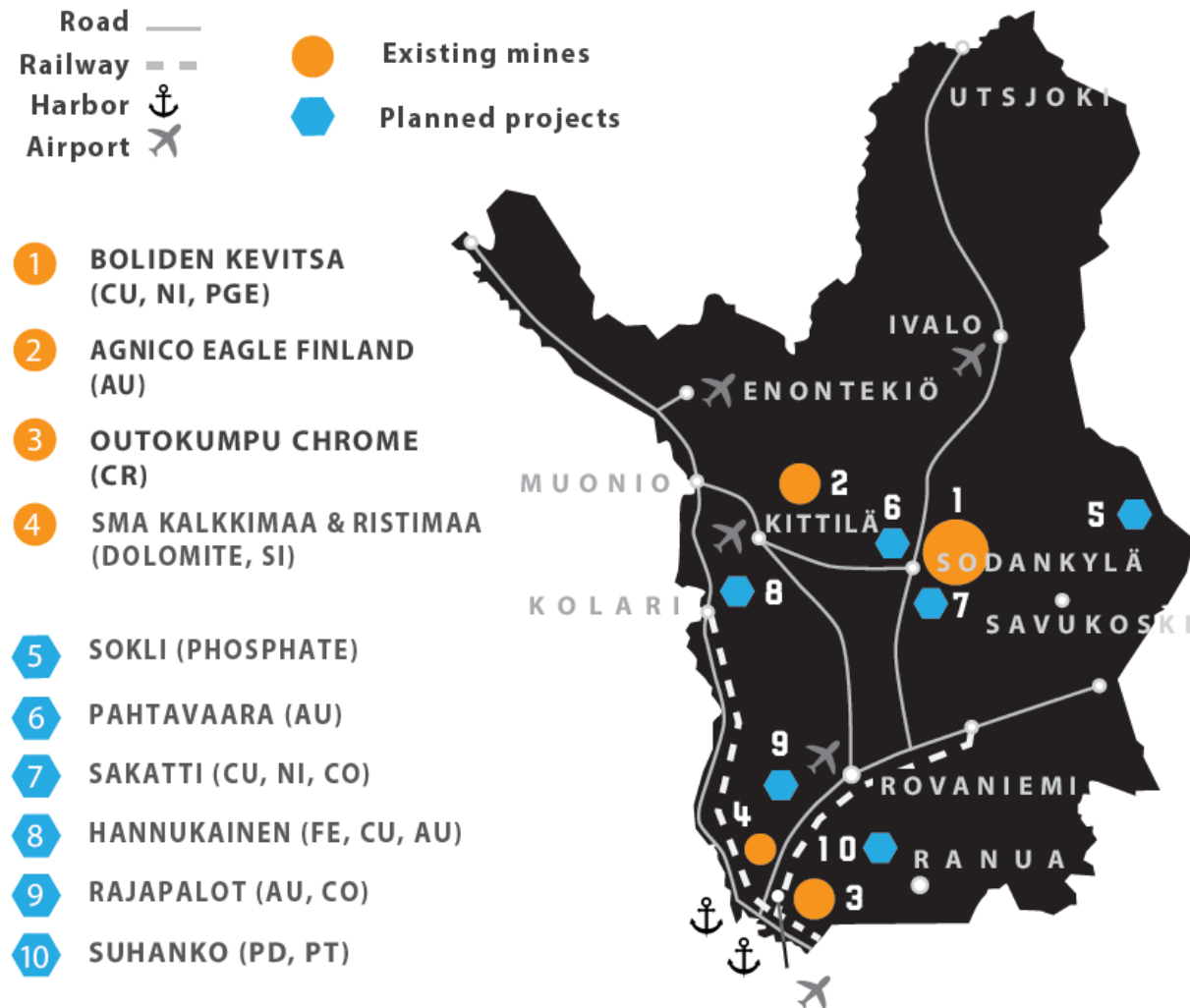


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# How circular economy, raw materials and mining is connected to Lapland region?





# FOCUS ON A SUSTAINABLE FUTURE

The Sustainability Program of Lapland University of Applied Sciences

Mirva Juntti



# Sustainability at the core of higher education

**Finnish educational policy: Knowledge and learning are free for everyone**

**Mission related to sustainability:**

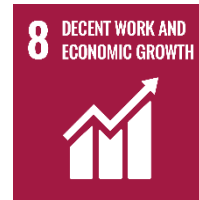
1. Objective is to educate professionals capable of **changing the world**.
2. Sustainability issues are **linked to all fields of education** as generic academic skills. In practice, higher education institutions offer sustainable development perspectives as part of degree programmes, courses, study modules and staff training.
3. To support of this work, national and areal **guidelines for development** have been drawn up, boosting sustainable expertise in various RDI projects.



# Sustainability and responsibility in Lapland

**Lapland is to create new knowledge and expertise for the well-being and capacity of the Arctic region.**

- The role of Lapland UAS is to strengthen the accountability of actors and communities.
- Our expertise focuses on global Arctic sustainability, Sustainable tourism, and Future services and reachability.
- In 2021, we identified six Sustainable Development Goals (SDGs) from the UN 2030 Agenda that are strongly linked to our strategic choices and core competencies.





# Lapland UAS Sustainability Program

## Focus on a sustainable future

### The Sustainability Program of Lapland UAS



#### Solutions to sustainability challenges

We provide solutions to sustainability challenges in Lapland, Finland and globally through education and RDI.



#### Impact, regional development and cooperation

We are active in regional development, participate in effective networks, and develop sustainable partnerships.



#### Knowledgeable, prosperous and diverse higher education community

We support the well-being of our community members and actively develop the skills of our experts.



#### Sustainable campuses and travel

Lapland UAS will be a carbon neutral university of applied sciences by 2030. Our campuses are diverse and sustainable.



#### Good governance and sustainable economy

The operations and finances of Lapland University of Applied Sciences are managed following the principles of responsibility and sustainable development.



## Conclusion and wrap up

### Mirva Juntti- What is relevant in any HEI:

- **E- Concrete Actions:** It is crucial to set specific, reachable targets and initiatives to improve energy efficiency, reduce carbon footprint, and promote responsible procurement. And to actively oversee the conduct.
- **S- Engagement:** One must actively involve students in promoting sustainability through curriculum integration and daily activities, fostering a culture of responsibility and awareness.
- **G- Comprehensive Approach:** The organization must implement a holistic-enough strategy across education, research, campus operations, and partnerships to advance sustainability.

### Katri Hendriksson - What is relevant in any HEI:

- **Make it happen together:** To do innovative and useable co-operate as in our own education but also in other organizations
- **Practice your knowledge:** In every topic and theme, you can practice your own and other partners knowledge.
- **Good practices:** Learn from each other!

Thank you for listening us, hopefully we can practices our co-operate partnership somehow in the future!

## Contact information



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*I'm fire. I'm ice.  
I'm a storm. I'm calm.  
I'm strong and sensitive.  
I have the Northern Factor*

**LAPIN AMK<sup>1</sup>**  
Lapland University of Applied Sciences



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