

Learning about resource efficiency

- The Role of the Higher Education in Finland

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- **RE in higher education**
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In Finland the Resource Efficiency is under:

“CARBON NEUTRAL CIRCULAR ECONOMY”

2035 CARBON NEUTRAL FINLAND

- Climate law under preparation

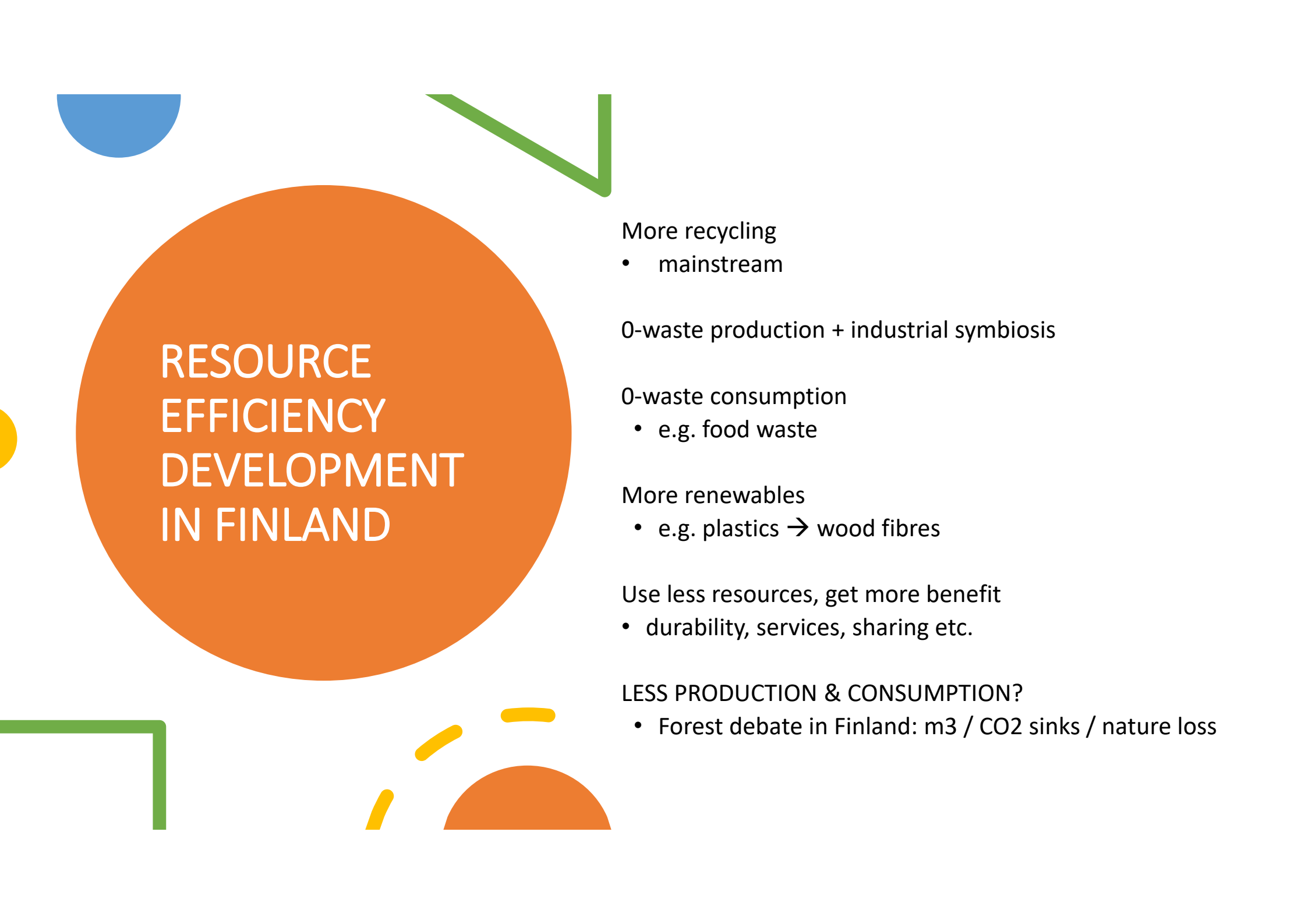


CARBON-NEUTRAL
LAHTI 2025

Lahti: Cut down greenhouse gas emissions
by 70% compared to the level of 1990.



TOWARDS WASTE-
FREE CIRCULAR
ECONOMY



RESOURCE EFFICIENCY DEVELOPMENT IN FINLAND

More recycling

- mainstream

0-waste production + industrial symbiosis

0-waste consumption

- e.g. food waste

More renewables

- e.g. plastics → wood fibres

Use less resources, get more benefit

- durability, services, sharing etc.

LESS PRODUCTION & CONSUMPTION?

- Forest debate in Finland: m3 / CO2 sinks / nature loss



Ministry of Education and Culture

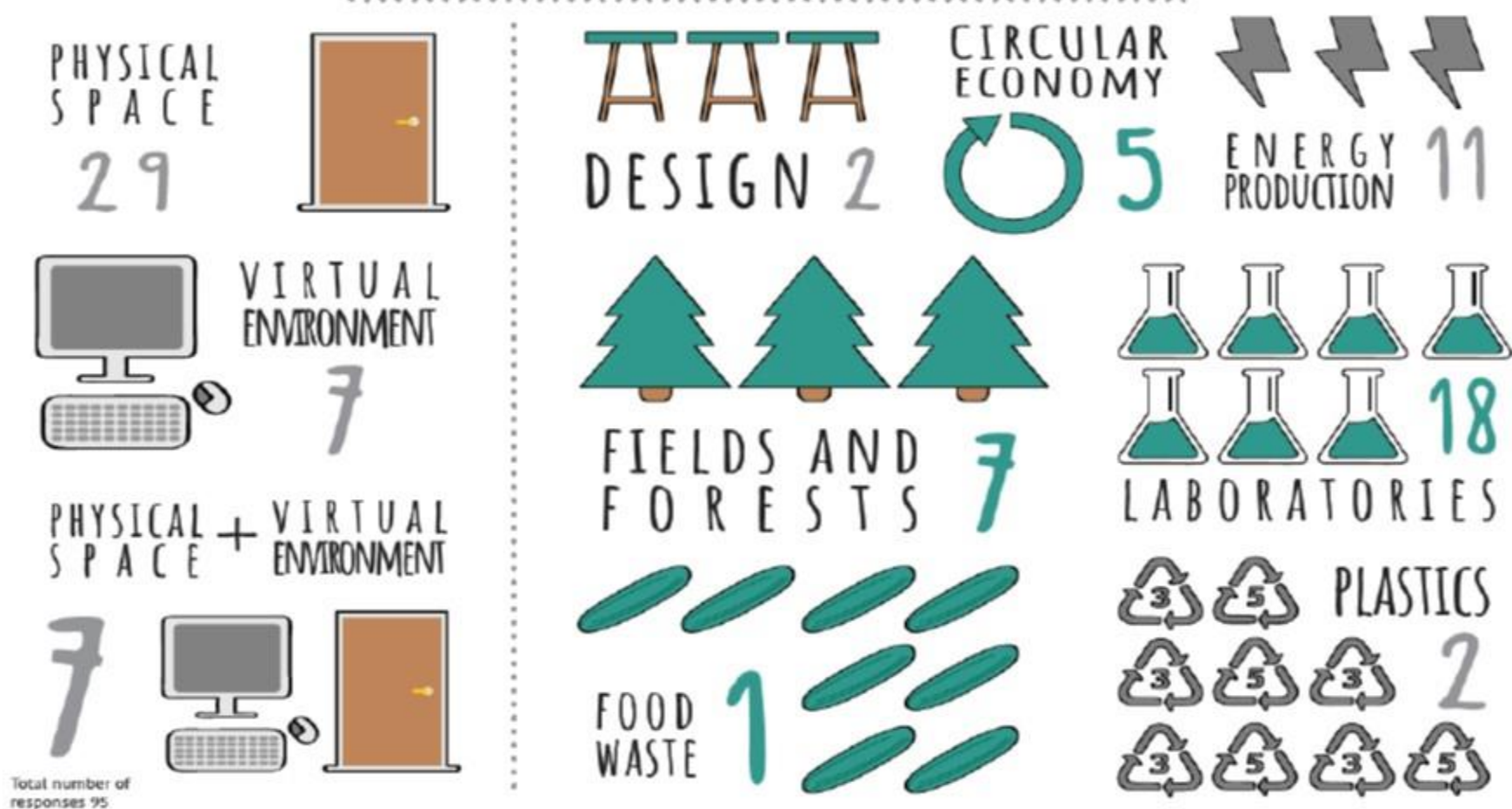
Higher education in Finland

- 15 universities
- 24 universities of Applied Sciences

“Circular Economy Capacity Building”

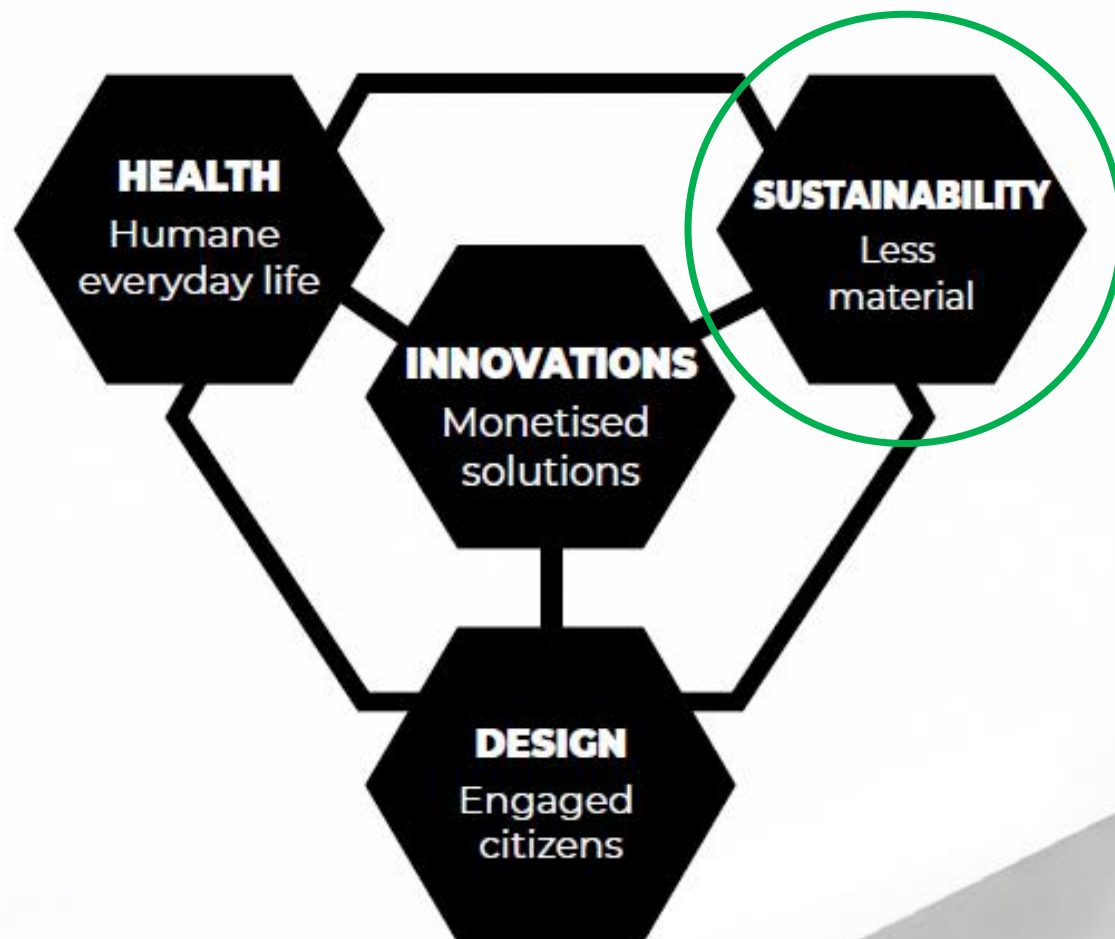
- Finnish Ministry of Education and Culture: Sustainable Development Policy 2020
- 19 Finnish Universities of Applied Sciences got funding (app. 2.5 M€) to develop circular economy education and collaboration in the Finnish UAS's

THE VARIETY OF CIRCULAR ECONOMY LEARNING ENVIRONMENTS IN FINNISH UAS



Circular economy learning environments in Universities of Applied Sciences (Virta, 2018).

BETTER WORLD OF WORK



LAB STRATEGY FOR
8500 STUDENTS &
360 STAFF



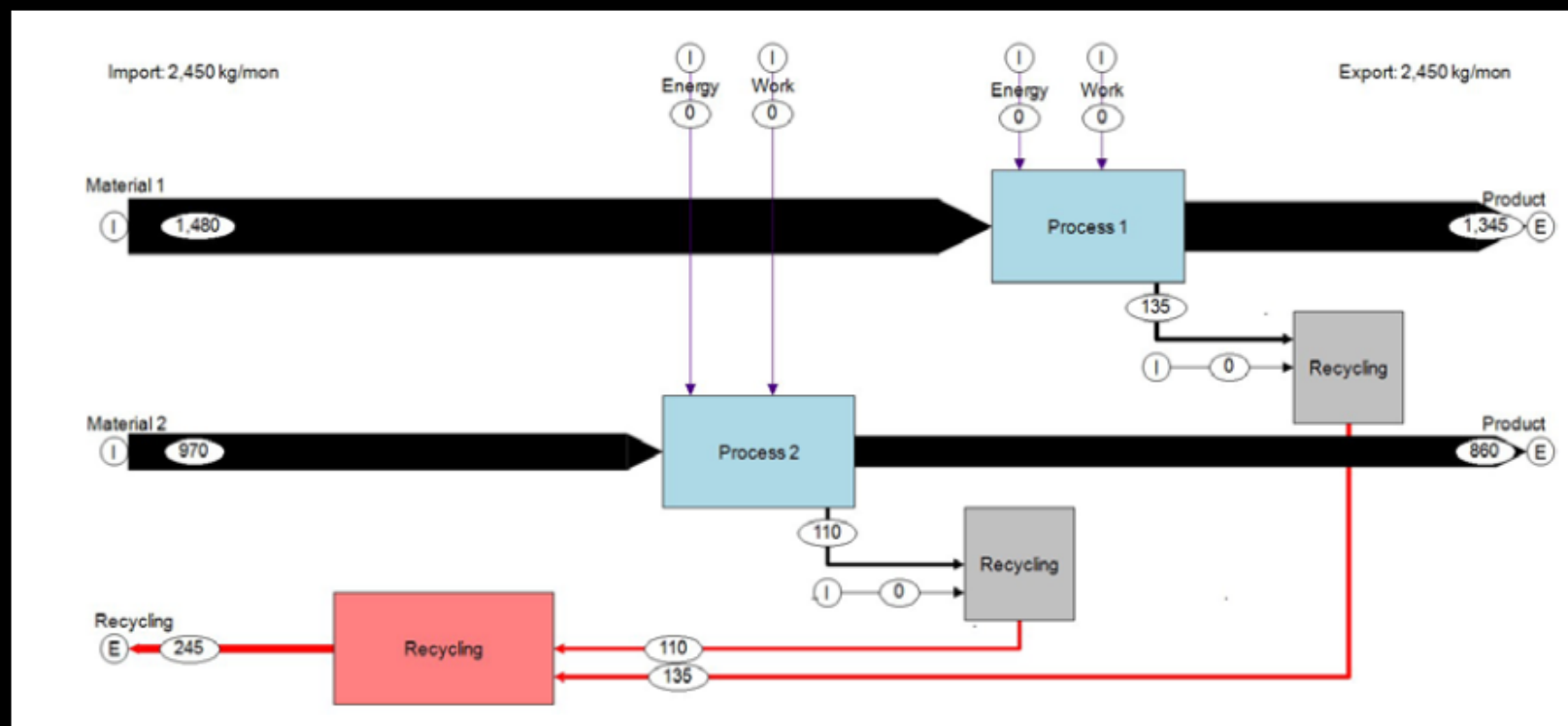


LAB with Companies in Smartta – project (MFCA)

“Search for 0-waste Production and Industrial Symbiosis”



SMARTTA



Vipuvoimaa
EU:lta
2014–2020



RE AND GLOBAL VALUE CHAINS?

Mining waste, South Africa

Photo: Autio

RE AND GLOBAL VALUE CHAINS?
Clearcutting, Finland

Photo: Pajukallio

More understanding about global value chains: **Master in Urban Climate and Sustainability**



Role of the education

- **Driver** promoting resource efficiency
 - **Education** → Future oriented employees for working life
 - **RDI** → Cooperation with companies and public organizations
 - **Global cooperation** → Understanding about the Global Value Chains
- **Leaning:** students, company people, university staff, stakeholders



Sources and additional information

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Thank you!

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