Circular business models and the business ecosystem *Valorization of food waste*

Wiebke Reim

Entreprenörskap och Innovation

Luleå Tekniska Universitet











About the project

Technology Innovations and
Business Models
for Valorisation of Industrial
Waste Biomass in Sparsely
Located Enterprises

Objective

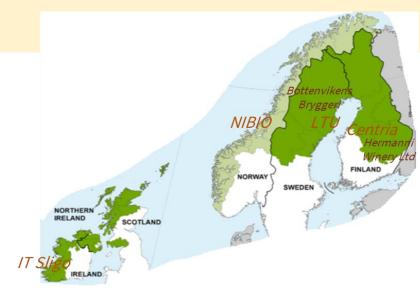
To establish a Circular Economy related Technology Innovation Platform (TIP) in NPA region to boost eco-innovations in SMEs by:

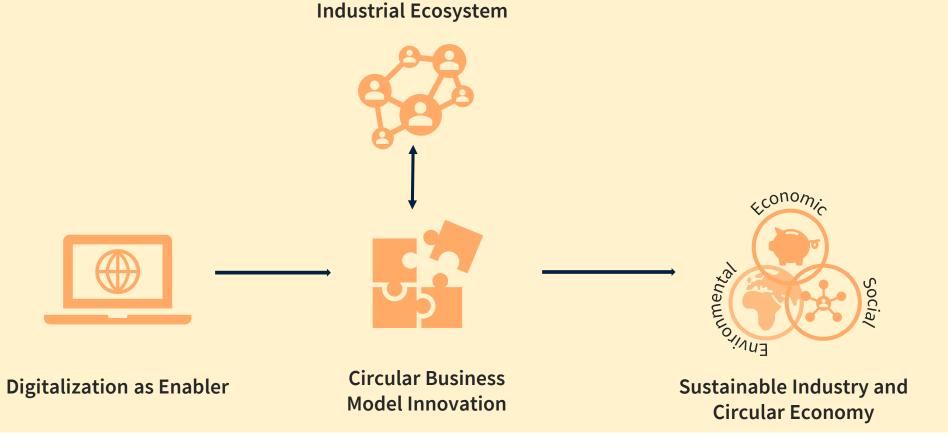
- improved capacities to successfully identify new products or intermediates from process waste or side streams,
- to adopt new business models
- to cooperate to form new resource efficient value chains.











Project Logic - Circular business model innovation



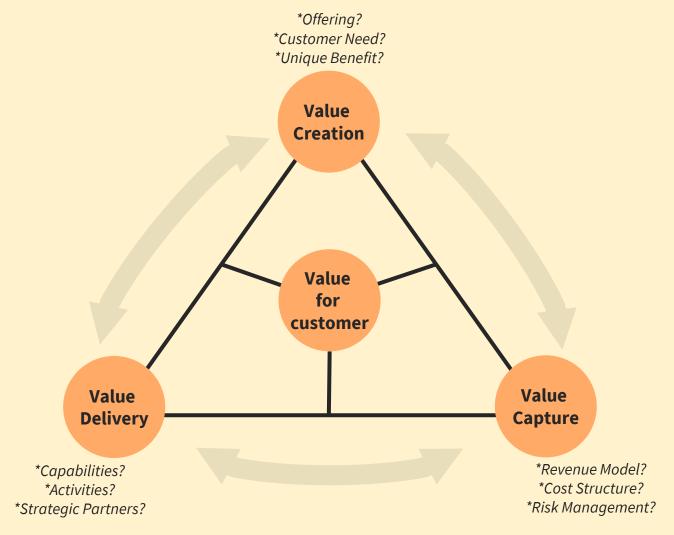




What is a Business Model?

"A business model defines the ways an organization creates, delivers and captures value"

Osterwalder and Pigneur (2010)



A powerful business model ensures that all elements work together













Sustainable and circular fishing

- Use of side streams
- Biodiversity







- Growing worms for chicken farm
- Less need of land, no/less water, no fertilizers
- Use of low temperature waste energy if needed
- Manure does not smell, is dry and ready to pack

Spent grain for cultivation of worms experiment











CIRCULAR BUSINESS MODEL INNOVATION ROAD MAP

PHASE 1:

CIRCULAR BUSINESS MODEL AWARENESS

PHASE 2:

ANALYSIS OF CURRENT BUSINESS MODEL AND RESOURCE STREAMS

PHASE 3:

PARTNERSHIP DEVELOPMENT

PHASE 4:

TECHNOLOGY INTEGRATION

PHASE 5:

FULL SCALE IMPLEMENTATION

Understand the need for transformation and existing opportunities

Understand your potential

Get in contact with the right partners

Get access to the right technology

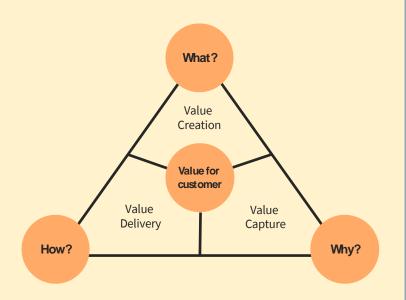
Validate and implement new circular business model



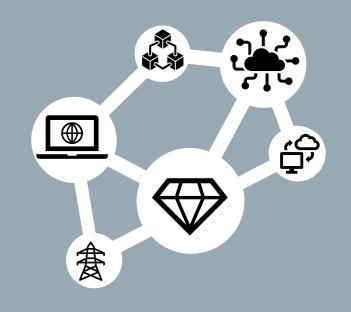








Business model is important



Build collaborations with ecosystem actors



Circularity can look very different and everyone can contribute

Three key insights...



Thank you!

Follow us on LinkedIn **Symbioma**

Contact: wiebke.reim@ltu.se

https://symbioma.eu/



Panel questions

how does the collaboration between the countries look like and what can we learn from other countries

what is special about the arctic region?

https://cireko.zoom.us/j/8350718572 9?pwd=aS9NMTlOb2Y2RWxselBhNU9 DNDd0QT09