

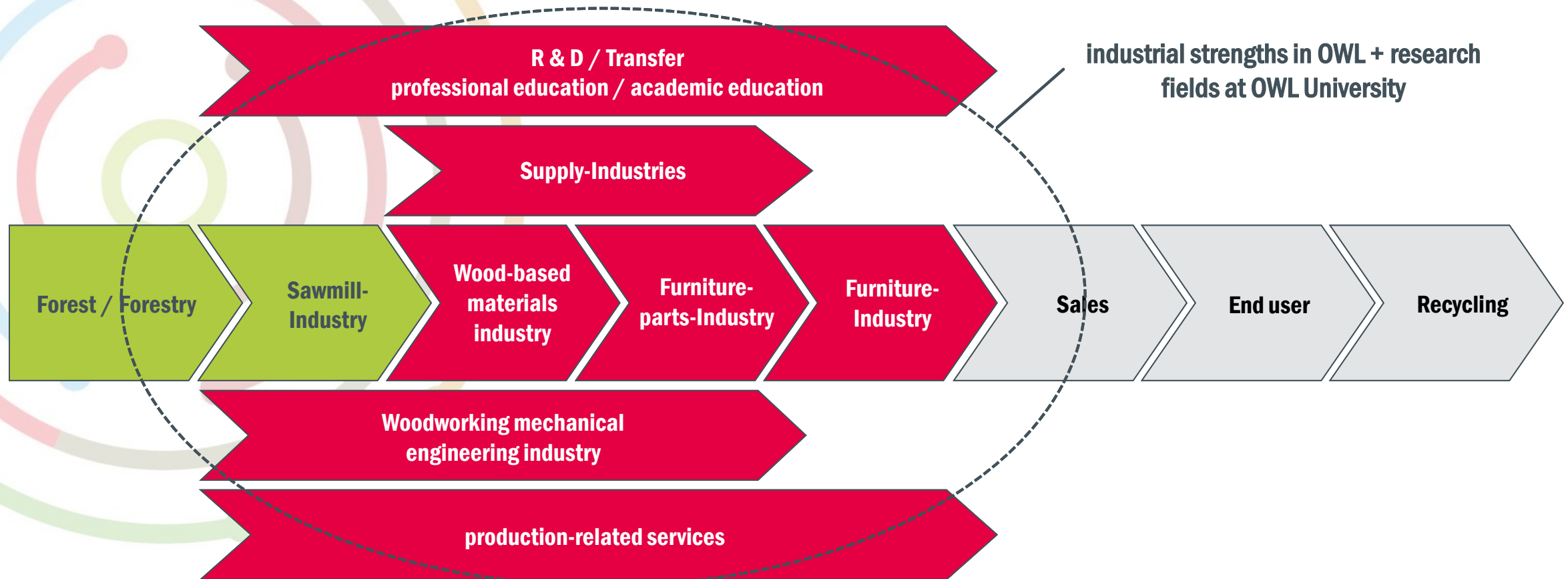


Smart Wood Center OWL

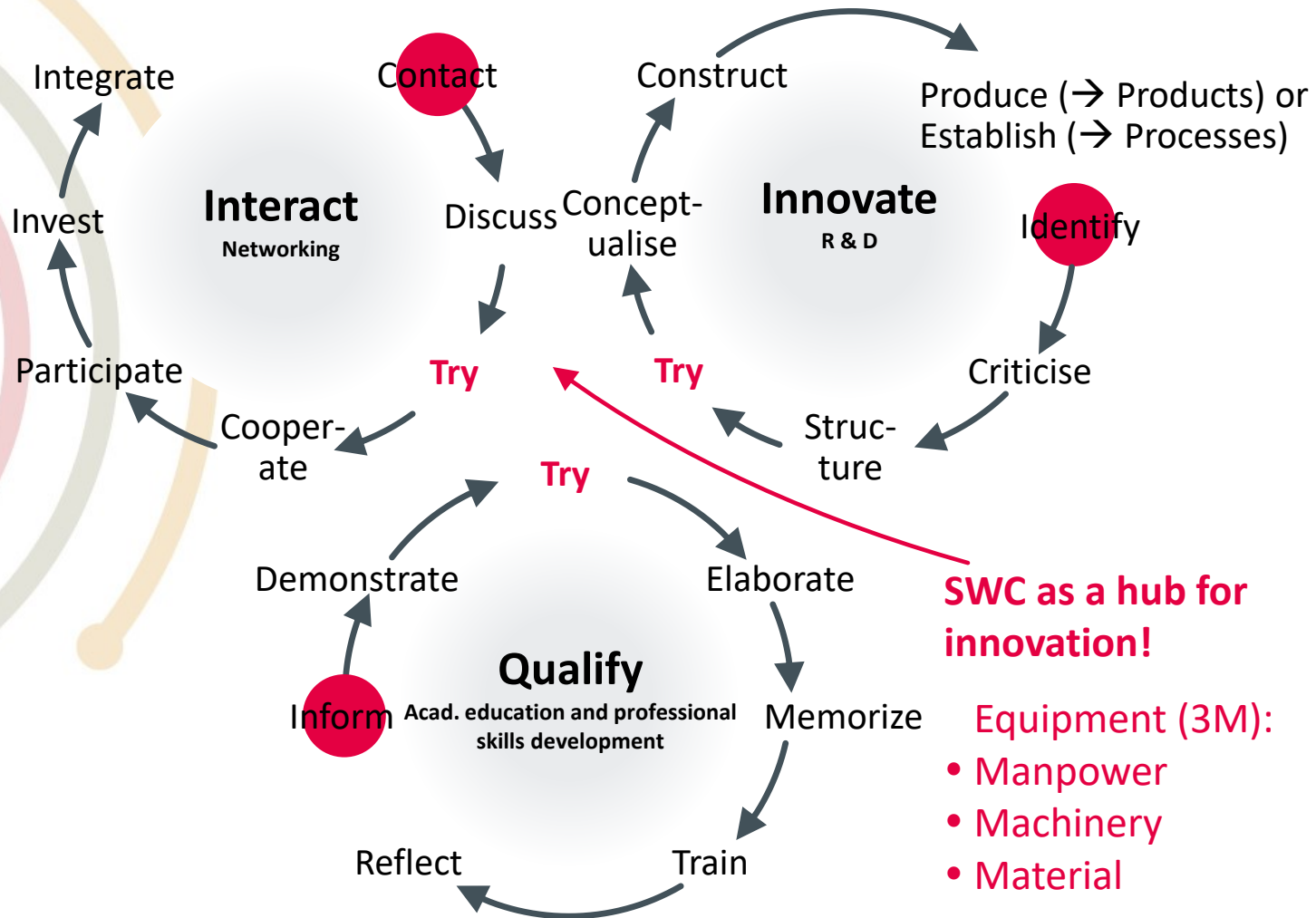
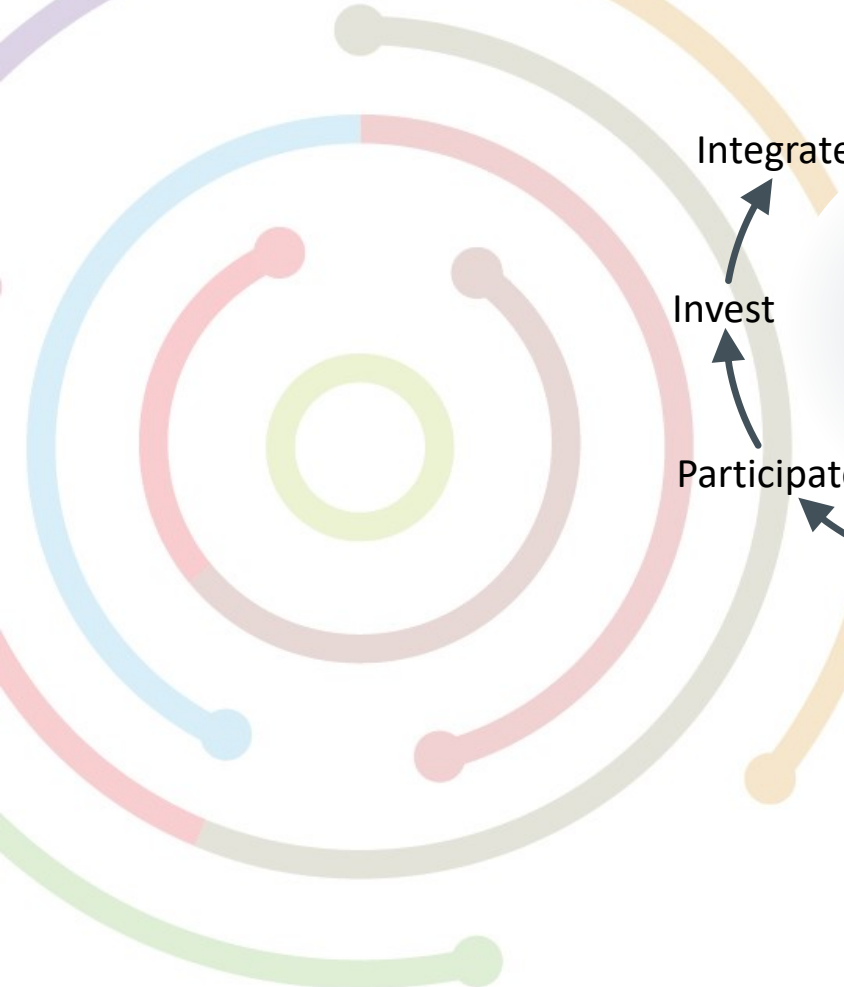
Martin Hackel M. Sc.

OWL University of Applied Sciences and Arts

Value chain wood in OWL



Idea and structure of the SWC



Pillars of the Smart Wood Center

FORESTRY INNOVATION

Future-proof, climate-appropriate silviculture

Hardwood use in construction

15.12.2023

PRODUCT INNOVATION

Material efficiency,
circular economy,
Lightweight construction

Substitution by the renewable
raw material wood

SMART WOOD CENTER OWL

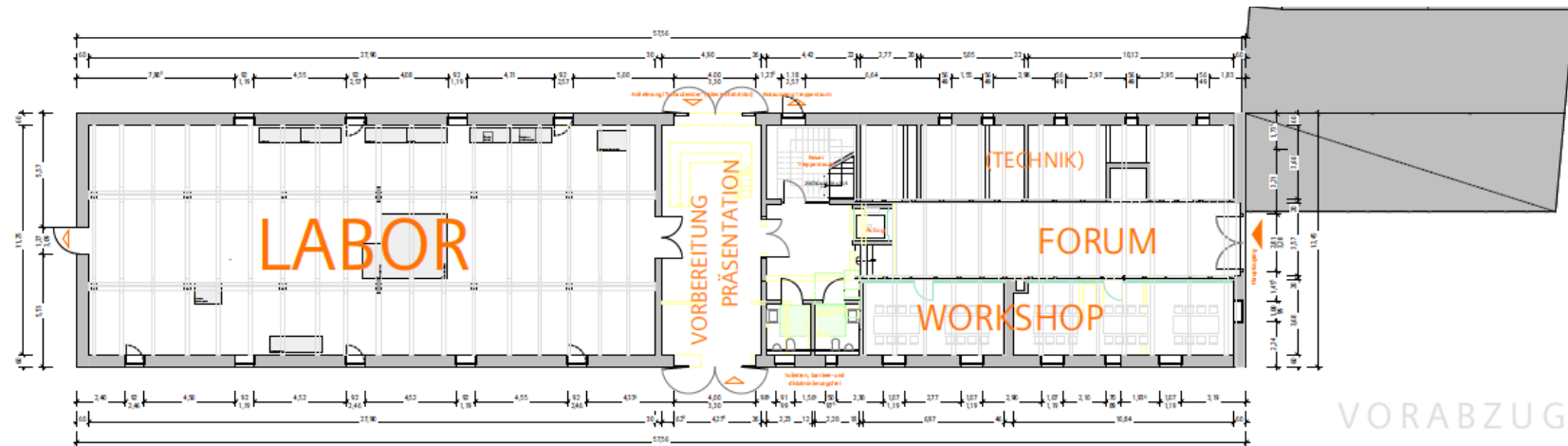
PROCESS INNOVATION

customised mass production

Production Excellence, 100%
product quality, Assembly
Assistance Systems

4

The facility





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CircuLignum e.V.

Akademischer Verein zur Förderung der
Kreislaufwirtschaft in der Holzverarbeitung



Panel offcuts

Given to CircuLignum

Redistribution

Platform for exchange

CO2 footprint



Peeling
residues

Alternative
petro
chemistry

Circular
economy
capable

Wood
funghi
mixture

Directed
growth

Circularity Wood Construction – Why?



Circularity Wood Construction - Challenges



Circularity Wood Construction – How?



Revise standards

Standardised construction

Circular planning

Professional education

Inventory

WANDSTÄRKE 30 CM

TRIQBRIQ WS30

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SMART WOOD CENTER OWL:
SUSTAINABLY SHAPING THE FUTURE OF WOOD ECONOMY IN OWL