

PILOT DORNBIRN

ADVANCED MANUFACTURING AND GREEN INNOVATION

Main Objectives:

- Analyze open business models and services in advanced manufacturing & green innovation
- Set up Circular Economy Advanced Manufacturing Open Business Model Platform
- Develop a knowledge base and guidelines for implementing CE strategy in AM



- Circular Economy Strategy Workshop I & II (Jan/Jun `20)
- Specific Trainings I & II (Jan/Jun `20)



ADVANCED MANUFACTURING VORARLBERG

CIRCULAR ECONOMY APPLICATION FIELDS

“the use of innovative technologies to create existing products and the creation of new products, including production activities that depend on information, automation, computation, software, sensing, and networking”

Circular Economy Hub Vorarlberg

Thematic Scope:

*Additive Manufacturing
Advanced Materials
Robotics/Automation/Artificial Intelligence
Nanotechnology
Network/IT integration
Digital Innovation*



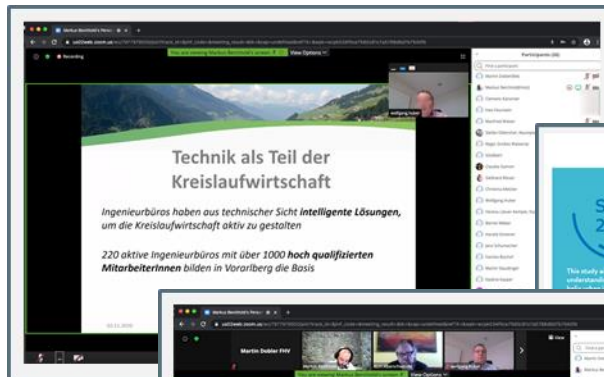
PILOT ACTIVITIES

Vorarlberg Kreislaufwirtschaft Workshop I

A1 - CE, Open Business Models and Advanced Manufacturing: State-of-the-Art; 07/20

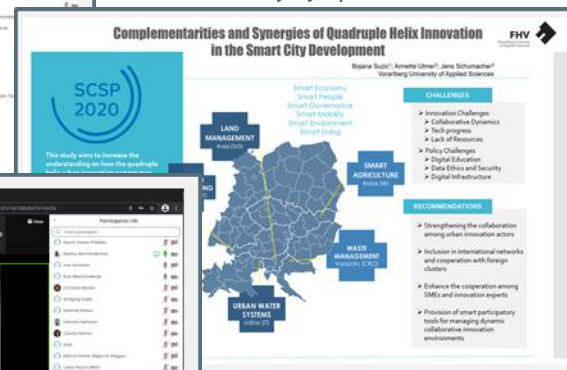
A2 - Best Practice Analysis and Feasibility Study; 11/20

- Vorarlberg Kreislaufwirtschaft Workshop I & II (Jan/Nov 2020)
- Smart City Symposium Prague (06/20)



Vorarlberg Kreislaufwirtschaft Workshop II

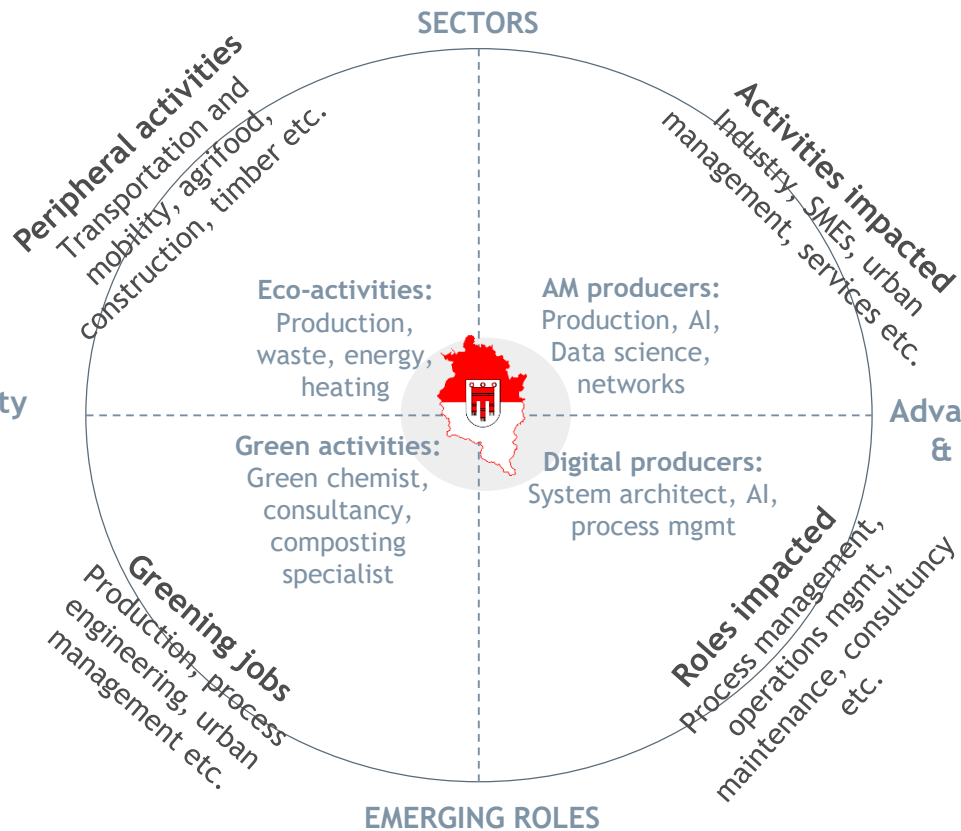
Smart City Symposium



GREEN & DIGITAL INNOVATION SECTORS - VORARLBERG: POTENTIAL IMPACT



Green mobility



DORNBIRN
SMART CITY



TAKING COOPERATION FORWARD



CIRCULAR ECONOMY ADVANCED MANUFACTURING FRAMEWORK

Ongoing..

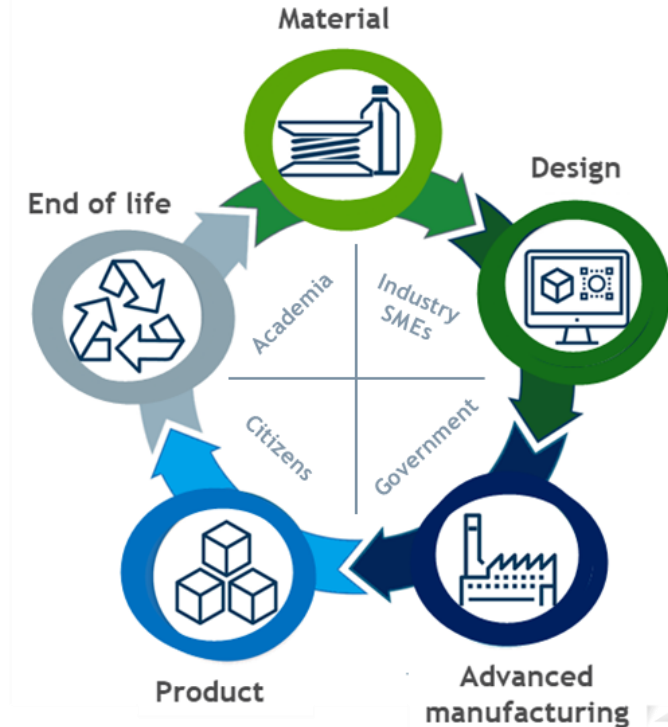
Quadruple Helix Model

- Workshops, Participatory events, Student projects:

*Collaborative business model for
circular economy-based advanced manufacturing*

Fields: Wood and textile industry, Food industry, Mobility & Electric vehicles SMEs, Urban innovation, Smart Factories, Digital Innovation

Scope: Lean production technologies, Supply chain integration, Advanced planning and scheduling



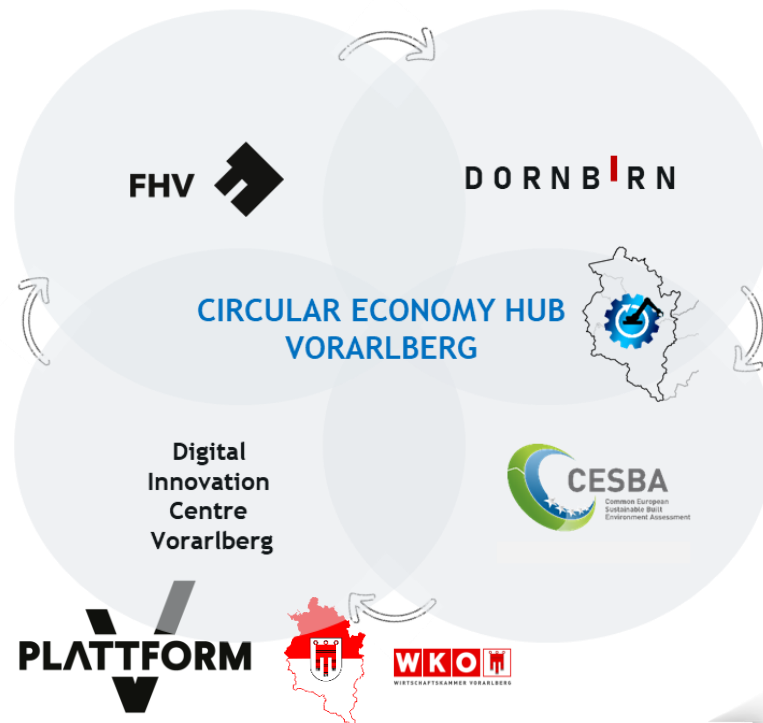
CIRCULAR ECONOMY HUB VORARLBERG UPCOMING PILOT ACTIVITIES

A3 - Circular Economy & Advanced
Manufacturing Framework; 07/21

A4 - **Test scenarios** (10/21)

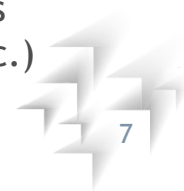
- Lange Nacht der Partizipation (May 2021)
- Projektmarktplatz I & II (June `21/ Feb `22)
- V-Platform collaboration

A5-A8 - Evaluation, Recommendations and
Guidelines (12/21 - 03/22)



LESSONS LEARNED

- Implementing advanced manufacturing as an opportunity to improve decision-making in production processes and material selection (recycled metal, biopolymer or similar renewable biostock).
- Printable materials could serve the purpose of many, also to simplify recapturing and to reduce variety - crucial innovation exposure and knowledge sharing among different actors.
- New design possibilities, simplification of recycling and experience exchange of AM production opportunities in the CE context to external stakeholder network (SMEs, local community, academia, innovation networks, etc.).
- Promotion of circular economy both in manufacturing and non-manufact. sectors crucial.
- Beneficial: Municipal support to businesses with limited internal capacities and resources for launching/testing circular economy products/services (financial, training, courses etc.)





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