

Looking for a consortium to join in: Lahti University of Applied Sciences, FINLAND

- The only university in Finland to study and graduate Bachelor Engineer of Wood Technology
- The Bachelor's Degree Programme in Wood Technology combines theory, manual craftsmanship and practice-oriented research appropriately in cooperation with leading companies in the sector
- The local companies with whom LUAS has partnership agreement cover wide range of wood industry e.g. plywood factory, saw mill and furniture factory: UPM, Stora Enso, Koskisen, Verso Wood, Isku
- <http://www.puutekniikka.info/opiskelu/videot/>

From the Forest to the Décor – Forestry 4.0

Challenge

- Digital manufacturing solutions play an increasing role in dealing with competitive pressures and incorporating new technologies, applications and services. Advances are needed in digital manufacturing solutions that integrate different technologies, make data from the shop floor and the supply network more transparent. The challenge is to apply new concepts and technologies that allow manufacturing companies especially SMEs to fulfil the demands of market place.

The project

- Project will build capacity, mind-set and ecosystem to develop and establish **digital solutions** for the connected smart production facilities
- Project addresses the wood value chain covering the forestry, mechanical industry e.g plywood, saw mills and the end production like furniture and decor.
- Special interest is between silos: to enhance the communication- and material flow.

Objectives for the practice – oriented research

- Operational Excellence and transparency at the whole value chain
 - Ob1: To shorten the lead time
 - Ob2: To decrease the inventory level
 - Ob3: To provide better data for decision making
 - Ob4: To promote Continuous Improvement Culture
- Circular Economy
 - Ob5: To enhance the life cycle of assets by improving maintenance, re-use and modernization
- Energy usage
 - Ob6: To decrease usage of energy via more reliable data

