



Visibility of **V**alue networks for **C**ircularity and **E**co-efficiency

Workshop

WP3 Supply chain level

2024-04-17

COORDINATOR:



Teknikföretagen

FOUNDERS:



SWEDISH
PRODUCTION
ACADEMY

RI
SE



CHALMERS

WITH SUPPORT FROM:



FORMAS

Strategic
innovation
programmes



Work content



Product life cycle management and certification for circularity (business models and services for product durability, repairability, etc.)



Supply chain visibility for environmental performance monitoring, traceability and transparency between stakeholders



Advanced data models to improve **factory** environmental performance through resource efficiency and waste management practices



Process monitoring methods to measure and characterize sawn wood surfaces and to define functional surface quality of wood products

Expected outcomes



VIVACE framework for production and supply network visibility to support decision making towards increased resource efficiency and circularity



Practical toolkit with scalable, data-supported tools and methods for holistic environmental performance management and product life cycle management



Data models for automated identification of environmental improvement (resource efficiency, waste reduction, product quality and durability)



Actionable KPIs in line with EU sustainability objectives (supply chain-oriented, product-oriented and process-oriented KPIs)



Visibility of **VA**alue networks for **C**ircularity and **E**co-efficiency

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Project aim: create a toolkit to capitalise on industrial digitalization with scalable data-supported solutions for circular and eco-efficient production at **four different levels:**

WP2 Product

RISE

CAKE 0 emission

iiiee
THE INTERNATIONAL INSTITUTE FOR INDUSTRIAL ENVIRONMENTAL ECONOMICS

Husqvarna

IKEA

Nudie Jeans co

Tarkett

Voyado

WP3 Supply chain

KTH
VETENSKAP OCH KONST

CHALMERS
UNIVERSITY OF TECHNOLOGY

ODETTE
SWEDEN

ASSA ABLOY

SCANIA

WP4 Factory

CHALMERS
UNIVERSITY OF TECHNOLOGY

VOLVO

SANDVIK

WP5 Process

Rema **Sawco**

HALMSTAD UNIVERSITY

LULEÅ TEKNISKA UNIVERSITETET

norra skog

HAL

STENVALLS

Expected outcomes:

VIVACE
framework

Practical
toolkit

Data
models

Actionable
KPIs

Work packages

WP2

Product life cycle management and certification for circularity (business models and services for product durability, repairability, etc.)

WP3

Supply chain visibility for environmental performance monitoring, traceability and transparency between stakeholders

WP4

Advanced data models to improve factory environmental performance through resource efficiency and waste management practices

WP5

Process monitoring methods to measure and characterize sawn wood surfaces and to define functional surface quality of wood products

Task 3.1 Scania
use cases and
scenarios



Task 3.2 Assa
Abloy use cases
and scenarios



Task 3.3 Framework
development for supply
network visibility

Agenda

