



NIBIO

NORWEGIAN INSTITUTE OF
BIOECONOMY RESEARCH

SirkTRE | CircWOOD

SirkTRE and CircWOOD Circular use of wood in Norway

Lone Ross, Head of Research



Photo: Lone Ross/NIBIO

The Green platform initiative

Green platform - a Norwegian initiative that provides support to accelerate research and innovation-driven green transformation in the business community.

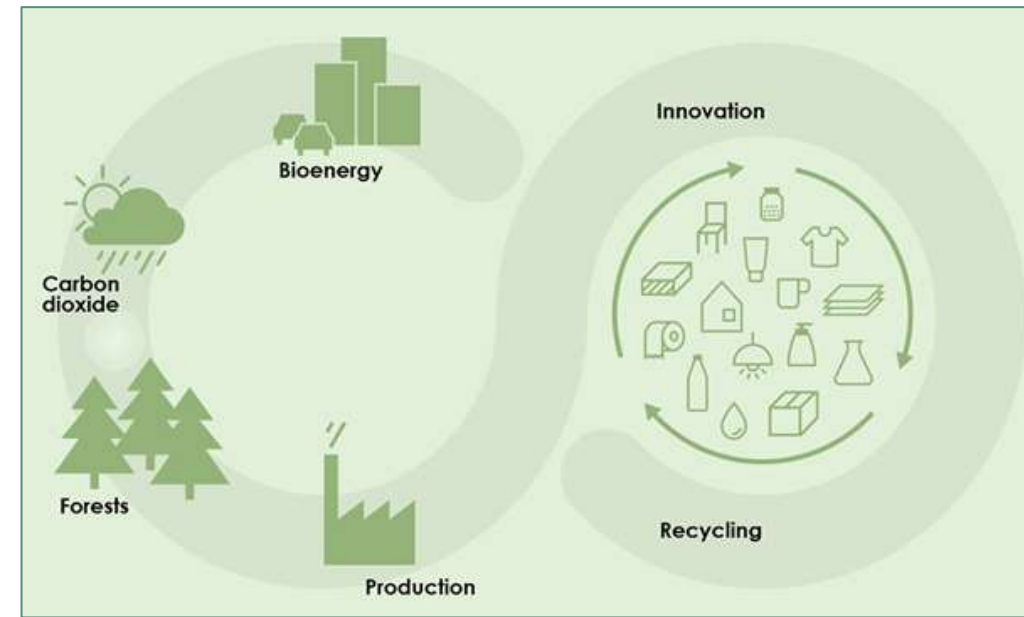
The project consortia shall deliver research and innovation activities that covers all steps from basic and applied research, technology development, - to commercialisation and finished solutions.

Funding bodies: Innovation Norway, Industrial Development Corporation of Norway (SIVA) and The Research Council of Norway.



- Wood cascading – reuse and recycling – an important part of the Circular Economy
- ‘The fight for wood fibre’ – increasing demand for biomass for energy and wood materials
- Awareness of forest ecosystem services – gives motivations for the “cascading principle”

Need to establish value circles or webs that ensure efficient and sustainable use of the resources, both economically and environmentally



GirkTRE

Platform director – Kristine Nore, OMTRE

GirkHELTRE

Ivar Ragnhildstveit
OMTRE

Reuse of solid
wood-based solutions

GirkREAL

Per F. Jørgensen
Vill Energi

Circular wood products,
solutions and designs for reuse

GirkINN

Kristine Nore
OMTRE

Innovation Center

GirkRESSURS

Erik Larnøy
NIBIO

Reduced resource use

GirkTEK

Urda Ljøterud
Høglund OMTRE

Develop new technology and new
digital production

Budget: 1.2-4 mill EURO per project

Innovation/business projects

CircWOOD

Lone Ross NIBIO

Circular use of wood in Norway for improved
sustainability and innovation

Main objective: Explore the potentials and benefits
of improved circular use of wood in Norway.

Research partners: Norwegian University of Life Sciences,
Norwegian Institute of Wood Technology, Norwegian
University of Science and Technology, Inland Norway
University of Applied Sciences

3.8 mill EURO + in-kind

Includes: 4 PhD-students, 3 postdocs, 5-10 master students

Research project

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MANUFACTURING
TECHNOLOGY

NORWEGIAN
CATAPULT
CENTRE



VIKEN
SKOG



Glommen
Mjøsen
Skog



Standard
Norge

FORESTIA

BoligPartner



RAGNÅ SELLS



Høgskolen
i Innlandet



FUTURE
BUILT

G:



Norges
Skogeierforbund

siva



NIBIO



STORE
NORSKE



NTNU

OMTRE



Sirkulær
Ressurssentral



STATSBYGG

Aanesland Treindustri



LY HYTTA



Innovasjon
Norge

Treteknisk



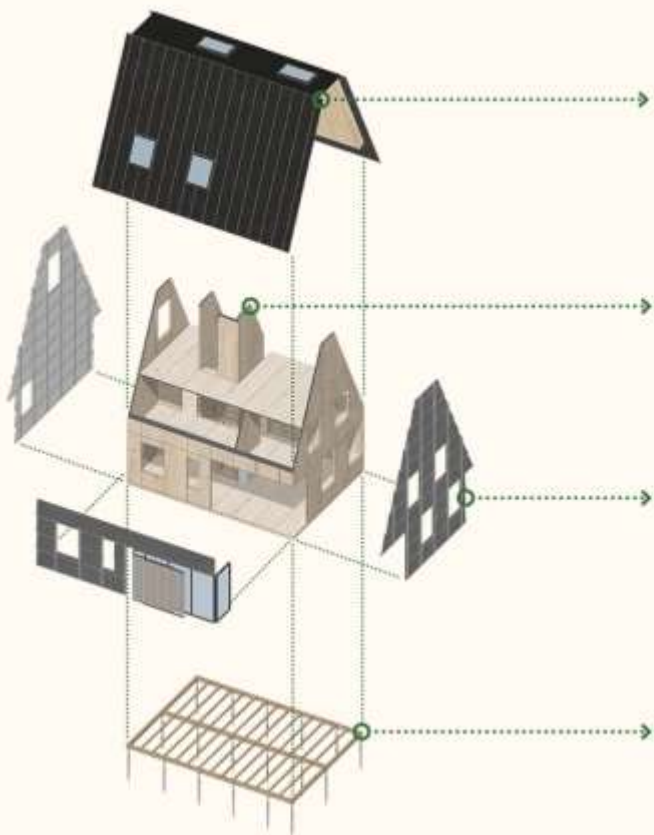
Forskningsrådet
SirkTRE



+



SirkBo



Integrerte solcellepaneler



Massivtre produsert av restkapp



Modulær kledning av resirkulert trevirke



Skruefundament



Main objective of the project is to:

Explore the potentials and benefits of improved circular use of wood in Norway.

Research questions:

- What are the potential future post-consumer wood resources (quantities and qualities) that will enter the circular wood value chain?
- How will higher utilization of reclaimed wood influence the demand for future solid wood products, impact wood availability, economic, environmental and societal factors?
- How can we securely fuse, share and exchange the information from different resources within the wood value chain including reuse and recycling?
- How does the current policy framework shape the current opportunity to use reclaimed wood and what changes need to be made to encourage beneficial behaviour?
- What technologies need to be developed to improve secondary material quality and enhance added value?

CircWOOD

Explore the potentials and benefits of improved circular use of wood in Norway.

WP 1 Availability and quality

WP 2 Digital tracking of the circular wood value chain

WP 3 Wood sector modelling

WP 4 Environmental impact of cascading

WP 5 Framework, scenarios, and roadmaps for the future

WP 6 Project management and communication

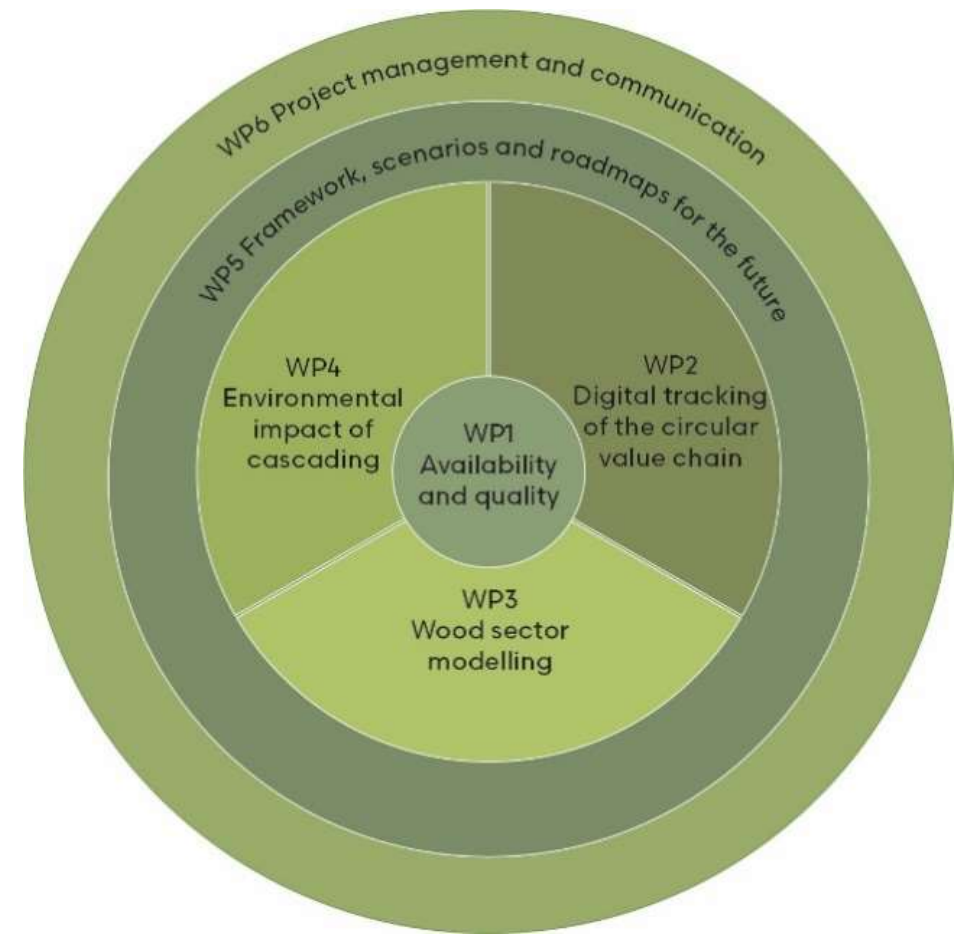




Photo: Erik Larnøy

Wood waste inventories and maps are the foundation for future development of products made of post-consumer wood:

- which producer category produces which qualities
- location where the waste is produced
- seasonal variation

This will enable us to establish more effective and sustainable value chains for products such as:

- Wood elements
- Wood based panels
- Wood insulation
- New products
- Bioenergy, biofuels, biocarbon







Photo: Lone Ross/NIBIO

Thanks for listening!

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