



Our Network





170 members



16 R&D partners



> 20.550 employees





55% manufacturing companies



So much bioeconomy is in one tree

Austropapier-Grafik

WOOD AS A KEY RESOURCE IN THE BIOECONOMY

Renewable & biogenic resources – circular bioeconomy wood

- Wood as a sustainable building and construction material
- Digitalization and processes for a sustainable use of resources
- Innovative, value-adding products
- Services along the wood value chain





Current situation regarding circular economy wood

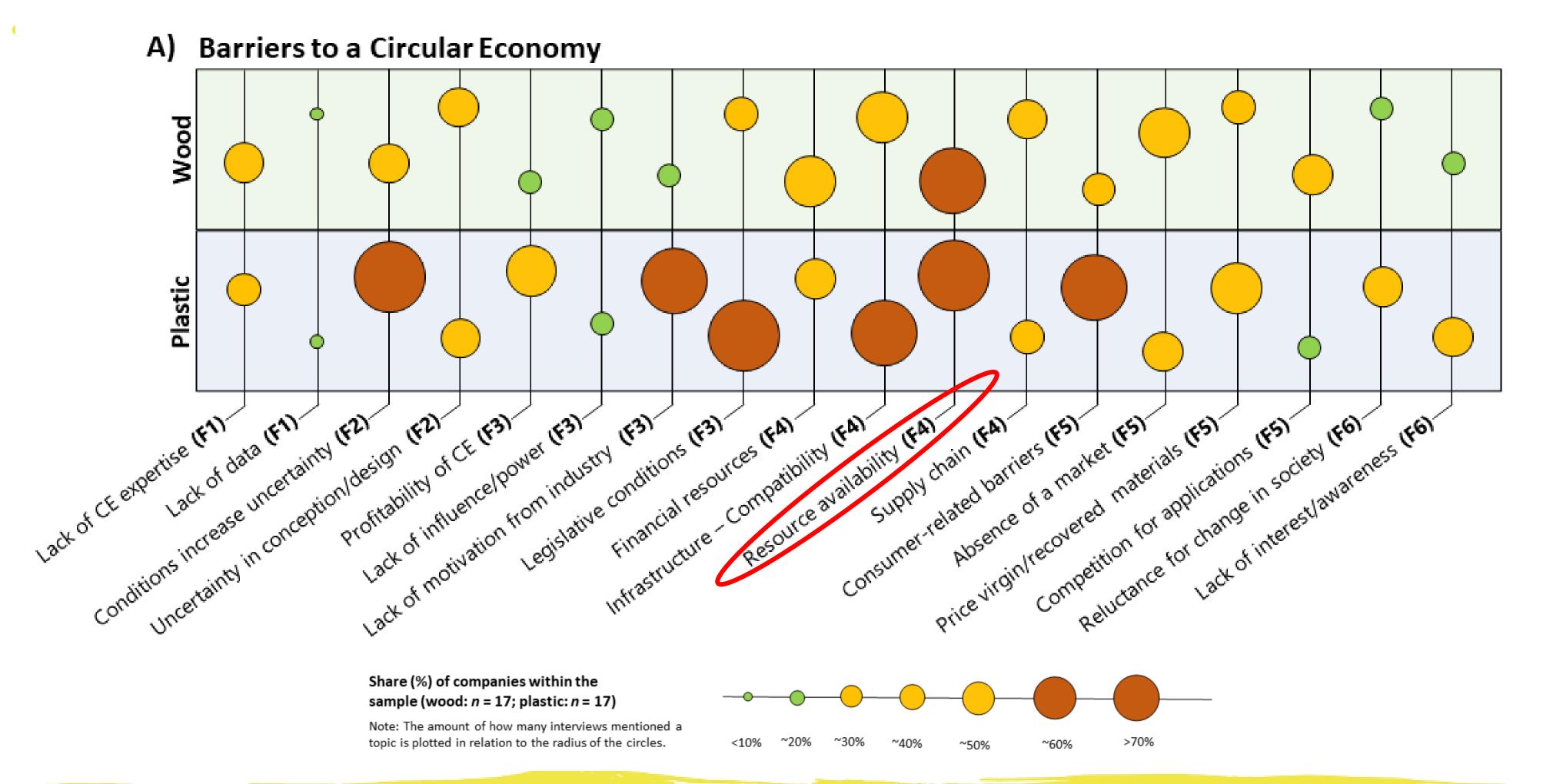
- 520.000t/a total waste wood from the construction sector
- Only one cascading stage
- Cascade factor = 1.6 => wood is used 1.6 times.
 - *Calculated according to Prof. Dr. Udo Mantau



Focus on innovation within a circular bioeconomy: efficiency, sufficiency, consistency



Barriers to circular economy wood

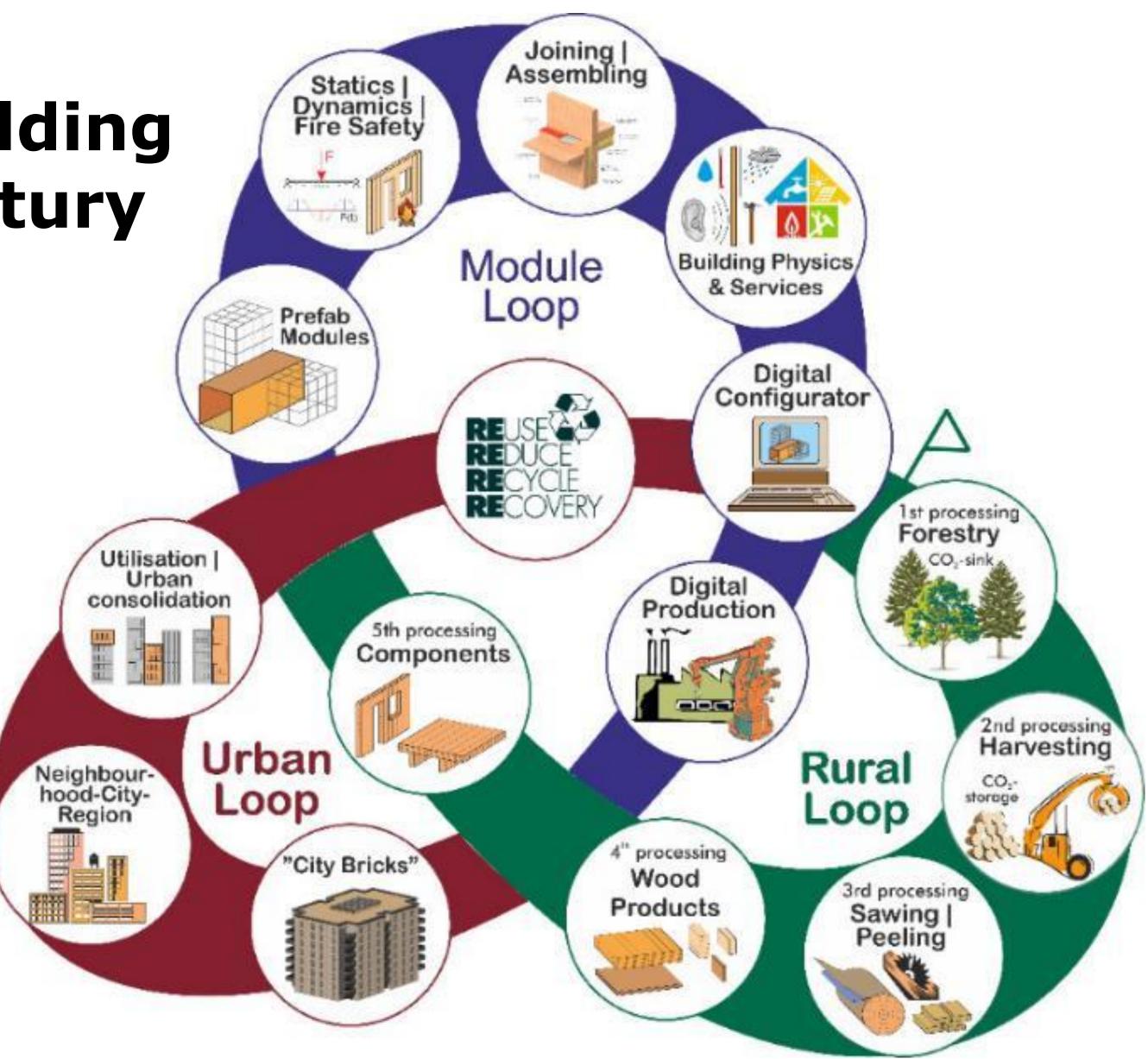




Wood as the central building material in the 21st century

FUTURE TRENDS AND RESEARCH ISSUES IN TIMBER CONSTRUCTION

- Standardisation → Development of system elements / modular system
- Optimisation of construction processes from planning and production to assembly with integration of all trades
- Digital solutions towards open building configurators for timber constructors and planners
- Holistic life cycle assessment of buildings in the future → Approach: cradle to cradle
- Industry project submitted: SeRenowood (Q4 2024)





Our national Initiative: Bioeconomy Austria

- Bundesministerium Klimaschutz, Umwelt Energie, Mobilität, Innovation und Technologie
- Bundesministerium Land- und Forstwirtschaft. Regionen und Wasserwirtschaft



- Setting regional priorities with wood as a material
- **Knowledge processing and transfer into practice**
- Wood in "new" or alternative applications
- Circular construction with wood
- Structural lightweight construction with wood



































Renowave Impact Days 2023

Workshop: Wood recycling management (in refurbishment)

- Wood products in building finishing
 - Need for a standardized representation of wood products
 - Transport & urban mining as a hotspot
 - Increasing calls for standards to be adapted in order to at least achieve greater flexibility in the direction of a circular economy.
- Wood products in building structure
 - Definition of waste wood from construction as a major obstacle
 - Performance requirements (standard, EAD) do not allow reuse in the construction sector
 - Depending on the requirements, it is now technically possible to reprocess wood, which in turn argues in favour of renewing the relevant standards.









Priority areas and projects









Forstliche Innovationsräume (Link)

Digital tools for simulating the effects of climate change on forestry and the timber value chain

Future Wood Trans

Autonomous driving in forestry

FOREE-Digital Forest Education (Link)

Promoting digital skills in forest education

WoodLogistics (Link)

Software-Lösungen

Forest EcoValue (Link)

Developing & promoting new forerst ecosystem services

WoodWork (Link)

Digital tools for sawmills

SysWood (Link)

System optimisation and planning methods in timber construction

Spitzen!Leistung Holz (Link)

Innovation management for companies in the field of digitalisation and sustainability

Holz & Design (Link)

Bringing designers and companies together

CARpenTiER (Link)

Use of wood in highly stressed components for the mobility sector

UniStrand (Link)

Rethinking cross laminated timber

TraceWood (Link)

Traceability of wood within the value chain

Bioeconomy Austria Network (Link)

Use of wood for new applications (e.g. mobility and mechanical and plant engineering)

BIG-Bio (Link)

Transfer of knowledge and tools for the application of the bioeconomy in companies

Start Up and Restart Up (Link)

Support for start-up companies in the wood value chain



SERENOWOOD KONSORTIUM



