

DF 57: 57th LCA Discussion Forum

**Life cycle assessment in the building sector: analytical tools,
environmental information and labels**

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Life Cycle Assessment, wood products and building materials – on-going activities in COST Actions FP1303 and FP1407

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Performance of bio-based building materials

Improve the knowledge on the performance of BBM with the aim of
increasing their service life

WG1: Material capability and enhancement

Understanding of the interaction between decay organisms and the bio-based substrate with respect to aesthetical and decay aspects related to rot, staining and mould fungi



WG2: Functionality and performance

Performance of BBM through the issues affecting their service life



WG3: Adaptation and application



gather knowledge about preferences within industry stake-holders and end-users, and tools used in assessing environmental performances

Specific Objectives:

- Life cycle methodologies,
- Guidance in creation of EPDs and CE markings,
- Review environmental effects from material and volatile release,
- Preparation of documentation as information tools,
- Increase opportunities for bio-based building materials.

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COST Action FP1407

Understanding wood modification through an integrated scientific and environmental impact approach (ModWoodLife)

Characterize the relationship between modification processing, product properties, and the associated environmental impacts
maximize sustainability and minimize environmental impacts



COST Action FP1407 – **WHY?**

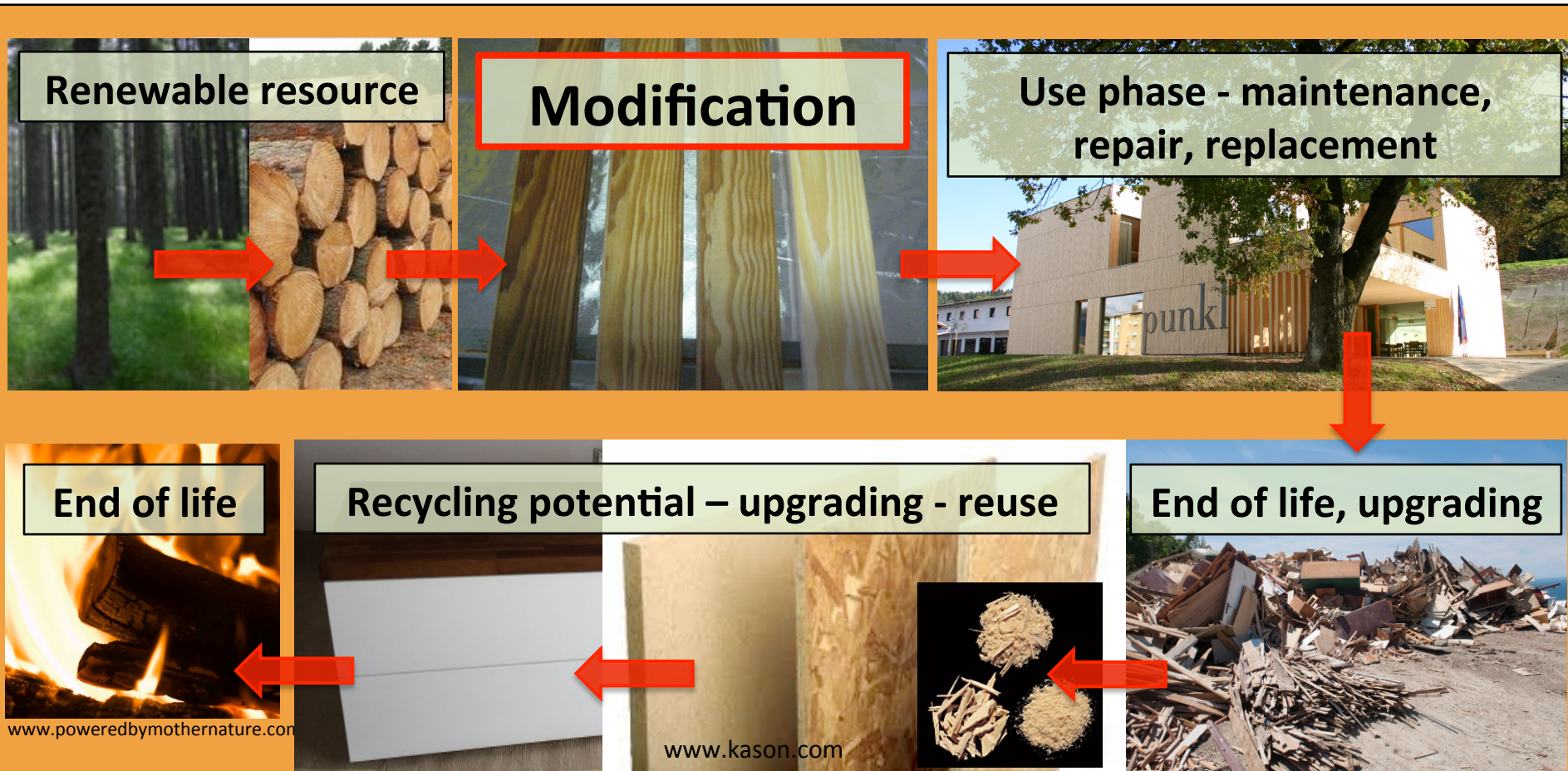
1. **Holistic understanding** of environ. impacts in full life cycle
2. Use phase - role of maintenance, repair, refurbishment, replacement
3. End of life – deconstruction, demolition, waste processing
4. Benefits and loads - **reuse, recovery, recycling potential**
5. Modified wood in **cascade use** of wood

6. Country specific and geographic **factors**
7. **Harmonization** of PCRs and EPDs
8. Internationally agreed accounting procedures
9. EPDs of modified wood
10. **Up-grading concepts** and end of life options of modified wood
11. Standardization – whole life cycle

COST Action FP1407 ModWoodLife

Modification – product - environmental impacts in the whole life cycle

integrating results * developing EPDs * low carbon bio-economy



Cascading, carbon storage, LCA, Environmental Products Declarations

COST Action FP1407 ModWoodLife

WG1: Product Category Rules

based on **detail understanding of modification processes**.
Evaluation of current PCRs and adoption where appropriate.

WG2: Life Cycle Assessments

commercial modification processes and **incorporating them into product development**.

WG3: Environmental Products Declarations

environmental product declarations and **harmonization** between various national EPDs in the field of wood modification.

WG4: Integration, Dissemination and Exploitation

+ strong network with the relevant industrial stakeholders.

You are most welcome in FP1303 and FP1407!!!



Thank you!

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