Wood for Sustainable and Resilient Repair and Construction - Integrating Expertise from Ukraine and Sweden. (WoodReconstruct) 2026-2028

Workshop: Wood in Ukraine's Reconstruction & Preparedness in Sweden's Wood Construction Sector. 22 October 2026

Anders Roos anders.roos@slu.se

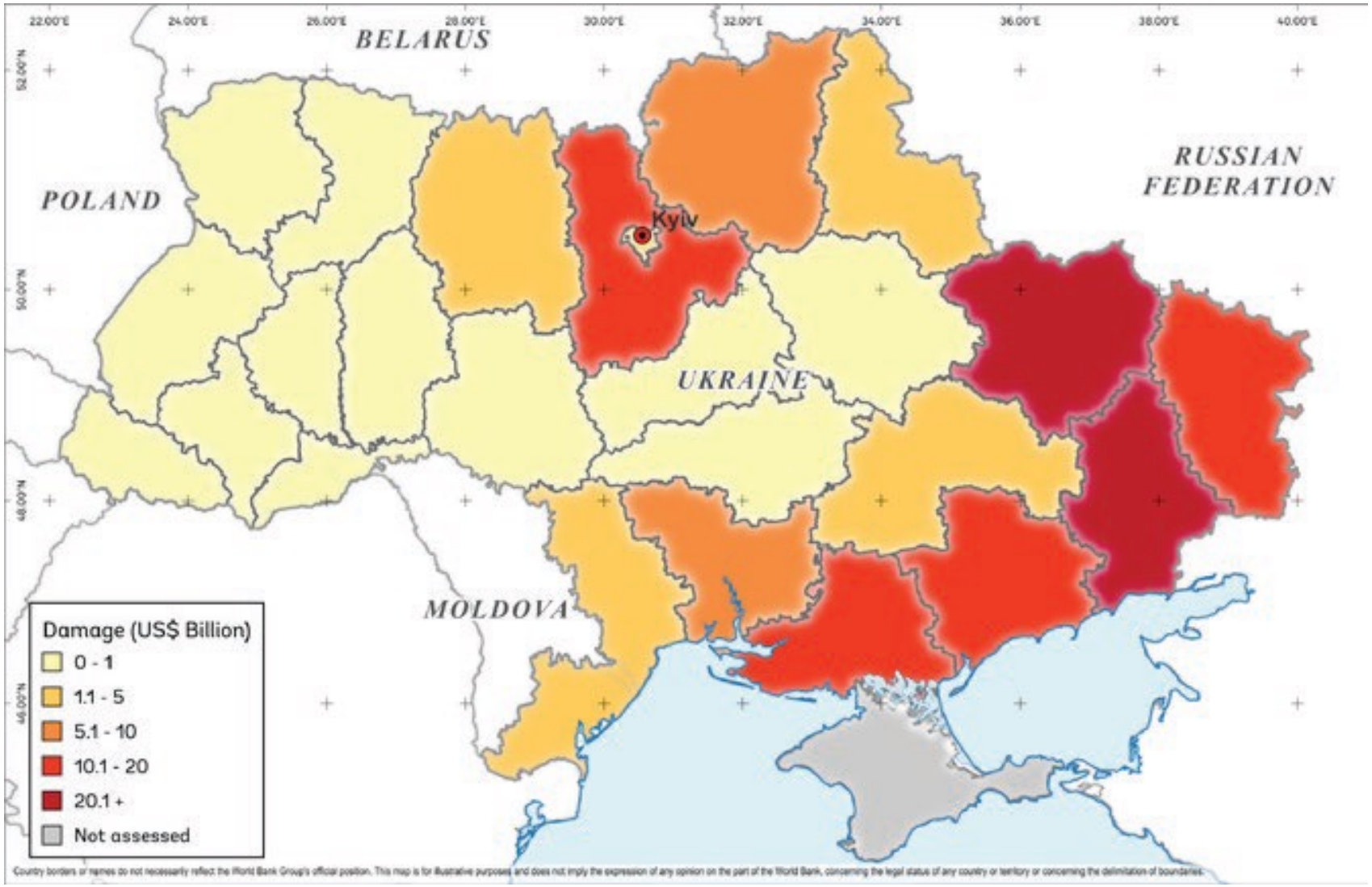
Background and Objectives

Impact of the fullscale invasion

- **14% of housing stock** destroyed or damaged
- **11 million** people displaced
- **5 million** people displaced inside the country
- Total damage: $195 billion; **Housing damage: $61 billion**
- $588 billion **recovery & reconstruction** needs (10-year); **Housing: $90 billion**

Objectives of *WoodReconstruct*

1. Analyze functional, circular, and robust uses of **timber in repair, and reconstruction** in Ukraine
2. Evaluate timber's **climate and social performance**
3. Identify **feasible practices for timber construction** with a focus on **acceptance and societal relevance**



Extent of damage by region as of December 31, 2024

Source: World Bank. 2025. 4th Rapid Damage and Needs Assessment

Partners in WoodReconstruct



From project meeting
Lumi rebuilt building, Uppsala 21 October 2025

Anders Roos	Swedish University of Agricultural Sciences (SLU)
Cecilia Mark Herbert	SLU
Stergios Adamopopolus	SLU
Olena Maksymets	Ukrainian National Forestry University, Lviv (UNFU)
Orest Kyjko	UNFU
Magnus Falk	Research Institute of Sweden (RISE), Wood science
Nilay Elginoz Kanat	Swedish Environmental Research Institute (IVL)
Olga Lysenko	IVL

Advisory Board

- Ukraine:
  - Mykola Matveyev, Commercial Director, Ferozit LLC.
  - Malyy Andriy, CEO, Servus.

- Sweden:
  - Mathias Fridholm, Swedish Wood
  - Susanne Rudenstam, Sw. Wood Building Council,
  - Niklas Schmidt, Norwegian climate and environmental research institute

Work Packages

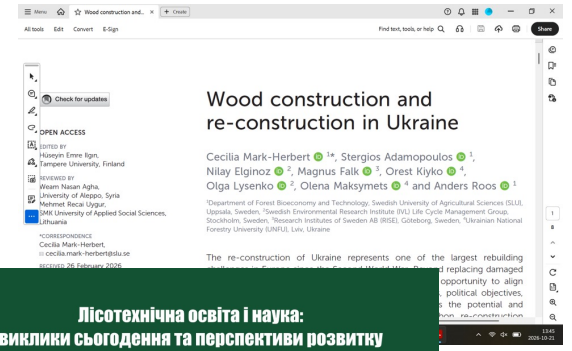
- **WP1. Pre-study**
  - Housing needs; Regulations; Literature review on research; Key informant interviews
- **WP2. Wood products and operations**
  - Wood materials; Applications; Supply Chains; Requirements; Circularity
- **WP3. Social and Environmental LCA**
  - Environmental/Climate LCA; Social LCA
- **WP 4 Synthesis and applicability**
  - Comparing scenarios; Assessing acceptability; User/community aspects

Communication and information activities

- Advisory Board: Members from, respectively, Ukraine and Sweden
- Network with business/stakeholders in Ukraine and Sweden
- Five MSc Thesis students from Ukraine visit Sweden
- Stakeholder study-visit from Ukraine to Sweden
- Workshops – in Ukraine, Sweden, and online
- Non-scientific report ”Wood Construction in Conflict – Lessons Learnt”
- Social media

Ongoing activities 2026

- Mark-Herbert et al. 2026. Wood construction and reconstruction in Ukraine. *Frontiers in Built Environment*, 12, 1818590.
- Conference: *Business, sustainable development, and wood innovation*. 7-8 May, Lviv
- *International forest-based industry forum*, Lviv
- Guest student from Lviv (LCA; October 26)
- Research









Objectives with the workshop

Ukrainian wood construction sector

Wood's best contribution to the reconstruction.

Wood's role in sustainable construction.

Swedish wood construction sector

How to support Ukraine's reconstruction.

How to Improve Sweden's preparedness.

***WoodReconstruct* Project**

Feedback and information that improve our research.

Communicating results.

Thank you!

ANDERS.ROOS@SLU.SE

slu.se → WoodReconstruct
FB: #WoodReconstruct
https://www.linkedin.com/groups/15774048/

