CLICKdesign - delivering fingertip knowledge to enable service life performance specification of wood

Dr Ed Suttie, BRE
- Struggle to answer questions about durability and performance of wood products
- Disadvantage for timber compared to steel, aluminium, plastic and concrete
- Technical specifications in Building Information Modelling (BIM) and life cycle analysis (LCA) include service life data
- Wrong product, wrong place

How long will this wood product last?

A reasonable working life

The product literature says….

It's in EN350, EN460, EN335, EN1995, EN599 BS8417 ISO15686-10 guidance
– A software tool for architects and specifiers to embed service life performance specification for wood.

– From the complex, fragmented and general to the easy-to-use, consolidated and specific in an accessible digital tool.

– The CLICKdesign tool will combine within it the decades of research, the complexity of the standards specification and the variation of approach due to tradition, materials and culture across Europe.

– March 2019 to February 2022
With European consumer expectations and construction professional direct input the project will develop a tool to enable appropriate digital specification of wood in construction based on a performance requirement that integrates material integrity (decay and termites) and aesthetic qualities.
Who? Research Team
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<th>Partner</th>
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– Exposure model
– Decay model
– Resistance model
– Insect model
– Aesthetics model
– Strength model
Expected results

Decay, insect and aesthetics

Construction

Validation
ForestValue Research Programme Kick-Off Seminar 23 - 24 May 2019 (Helsinki)

**Research Organisations**

**Industry Group**

**Construction professionals**

**Forest based industries**

**Standards and Authorities**

**Citizens**

**Exploitation**

- Transnational communication
- Training and education
- Workshops
- Validation pilots and case studies
- Input to standards committees ISO/TC59/SC14 CEN/TC38

- Social media conversations
- Campaign support
- How long will it last?
– **Increase market confidence** with users for selecting wood as a **reliable product** and enhance an optimised performance of timber in the built environment

– A **resilient future** - adaptable for features not integrated into specification now such as significant variations due to climate change

– **Inspiring new wood and wood-based products** using performance based specification

– Improved **technical specifications** for BIM and LCA

– In the right language so more can meet ambitions to **deliver low carbon construction**, through performance based specification with wood

– Supports “**fit for purpose**” product specification public awareness and understanding

– Reaching **beyond timber savvy** construction professionals
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