DEVELOPMENT OF WOOD MODIFICATION – HIGH MELTING POINT WAX AND HOT OIL TREATMENTS
Turunen Hannu\textsuperscript{1}, Peura Juho\textsuperscript{1}, Paajanen Olli\textsuperscript{1}

- New facilities to develop wood modification

- Goals of this project
  - Process parameters
  - High melting point waxes and oils

- Impregnation cylinder
  - Diameter 380mm, length 2200mm,
  - Maximum temperature 200°C
  - Maximum pressure with nitrogen 11bar
    and with air 15,5bar
  - Vacuum 150mbar

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Why?

• Copper impregnated wood
  – E.g. decking
  – Hazardous waste

• Tropical hardwood
  – E.g. outdoor furniture
  – Environmental-, social- and economical problems

• Aluminium
  – E.g. window frames
  – Recycling

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What?

• Finished products
  – Less work phases
  – More cost efficient

• Local raw material
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Hexion Oy, Karelia-Ikkuna Oy, Kurikka-Timber, Lieksan Saha Oy, Mikkeli University of
Applied Sciences, Stora Enso Wood Products Oy Ltd and Tehomet Oy

Thank you for your attention

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