Introduction LCA to wood material practitioners - feedback

Tarmo Räty
Vantaa, Finland

• **Trainees** (in the order of appearance)
  – Tarmo Räty (Luke, FI)
  – Christelle Ganne-Chédeville (Bern UAS, CH)
  – Lauri Linkosalmi (Stora-Enso, FI)
  – Ana Dias (U Aveiro, PT)
  – Taija Sinkko (Luke, FI)
  – Lars Gunnar Tellnes (Treteknisk, NO)

• **Mentors** (all Luke)
  – Kirsi Usva
  – Merja Saarinen
  – Helena Häyrynen
FP1407 Training school - students

• Open call, 30 applicants 15 admitted.
• Selection according to:
  - Cost prioritization rules
  - Motivation letter
  - Experience (field of science, LCA)
  - Suggested use of LCA
• Software
  – 4 weeks training licence for SimaPro as a courtesy of PRé

ANDREA Laschi    GORAN Milic    PAOLA Cetera    PEDRO LUIS de Hoyos Martinez
ASHRAFUL Alam     Vjekoslav Zivkovic    ANETE Meija-feldmane
EMILIA Markstrom  ROMAN Shchupakivskyy  BENEDIKT Neyses
SÜLEYMAN Kuştaş    SELCUK akbas    CAROLINA Griebeler
KATJA Vahtikari    YAGMUR Bütün
FP1407 Training school - programme

• Opening & Introduction to LCA (Tarmo, Christelle, Lauri)
  – 7 hours: Structure of a LCA study
• Applied LCA (Tarmo, Taija, Ana, Lars, Christelle)
  – 5 hours: software structure, tutorial, real world cases
• Student projects
  – About 6 +2 hours
  – 7 teams, 2-3 student worked for the pre selected project
## FP1407 Training school – Student projects

<table>
<thead>
<tr>
<th>Team</th>
<th>Topic</th>
<th>Trainee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Environmental performance of wood densification – any gains over the alternatives</td>
<td>Benedikt and Katja</td>
</tr>
<tr>
<td>2</td>
<td>Modelling cascade uses of thermally treated wood</td>
<td>Yagmur and Roman</td>
</tr>
<tr>
<td>3</td>
<td>Emissions and side streams of thermal treatment</td>
<td>Paola and Goran</td>
</tr>
<tr>
<td>4</td>
<td>LCA of thermal treatment - forest to factory gate</td>
<td>Carolina, Anete and Vjekoslav</td>
</tr>
<tr>
<td>5</td>
<td>LCA of chemically modified wood</td>
<td>Pedro Luis and Süleyman</td>
</tr>
<tr>
<td>6</td>
<td>Environmental performance of Wood-Plastic Composites</td>
<td>Selcuk and Emilia</td>
</tr>
<tr>
<td>7</td>
<td>A model for environmental impacts of forest management</td>
<td>Ashraful, Andrea</td>
</tr>
</tbody>
</table>
FP1407 Training school - Feedback

10 trainees, 6 trainers +1 filed the feedback form.

• How useful, scale 1-4? Averages
  – Theoretical parts : 3.6 points
  – Student projects : 3.5 points

• Most useful?
  – Real world cases: EPD of wooden claddings, LCA of ultralight particle board.

• Key learnings?
  – Getting through the whole LCA process
  – Also trainers learned from each others and trainees!
FP1407 Training school – Next step (Feedback)

• Demand for both introductory and advanced training school
  – If training licence for software is available, preparatory projects, or

• One more day
  – Students well motivated and picked the idea in a couple of hours
  – Serious working for student projects.

• More time needed to student projects and discuss the results, to see the multitude of problems.

• Training School 20XX?
  – EPDs
  – Conquentality (this is actually why wood is modified)
Thank you!

8. Will you recommend this course to your friends?

Number of respondents: 17

- Yes
- No
- Maybe