Sustainable Product and Service Design, Eco-Auditing

Spring 2019 / Teaching Period III

Tuesdays 8.1., 15.1. & 22.1. (13:15-17:00)

Teachers: Tatu Marttila

22.1.
Eco-Auditing with CES Edupack:

Eco-Audit Examples

Project Work & Report

Course Assignment: Project Work & Report

Working with the project ideas so far…

The steps that have been done:

1. Identify prime objective in your design project idea
2. Define system boundaries and review stakeholders; both production system and product components (e.g. META matrix; System maps)
3. Perform research on Materials & Manufacturing; Environment; Society; Economics; Regulation; Design (e.g. CES Edupack “fact-finding” sheet)
4. Refine focus and boundaries…
5. Assess selected material(s) & process(es), with eco autdit tool
6. Reflect and document

Project work: Status reports

Describe your project work so far:

- How has your project work progressed?
- Describe your context for assessment…
- What problems have you encountered? How to solve them?
- What will be the outcome of your work?
- What is its impact on sustainability?

Course Assignment:
Project work progress so far…

1. Identify prime objective in your design project idea
2. Define system boundaries and review stakeholders; both production system and product components (e.g. META matrix; System maps)
3. Perform research on Materials & Manufacturing; Environment; Society; Economics; Regulation; Design (e.g. CES Edupack “fact-finding” sheet)
4. Refine focus and boundaries…
5. Assess selected material(s) & process(es), with eco autdit tool
6. Reflect back on context and progress; Document your work
7. *Compile into a project report…*

Course Assignment:
Project work report

As a final course assignment you will produce a project report of your work with the project idea during and after the workshop days.

The project report should be 5-7 pages long (or more) PDF document with 1) description of the project idea, 2) project context research (inventory, system boundaries, life phases), supported with selected tools (e.g. EcoDesign strategy wheel, META, CES fact-finding sheet), and 3) the eco-auditing process and its 4) results.

Include some desk research, findings from eco-auditing process, and reflection on background research and context. Include some images/screenshots of your assessment.

-> 5-7 pages long PDF document (+ possible appendices)

-> Final report on project work is due 28.2. (not a strict deadline…)

-> Upload to MyCourses (…if late then email to: tatu.marttila@aalto.fi)

Course Assignment:
Project work report

Structure of a project report is rather open, but should include:

1. Description of your objective in your assessment project
2. Description of system boundaries, stakeholders (primary, secondary), product components
3. Reflection on all life phases of the product-service system under study (e.g. Ecodesign strategy wheel; META matrix; CES fact-finding; can be simply text)
4. Description of the actual assessment and eco-auditing process
5. (Short) description on overall process and findings
6. Reflection on the initial problem context and progress of your work

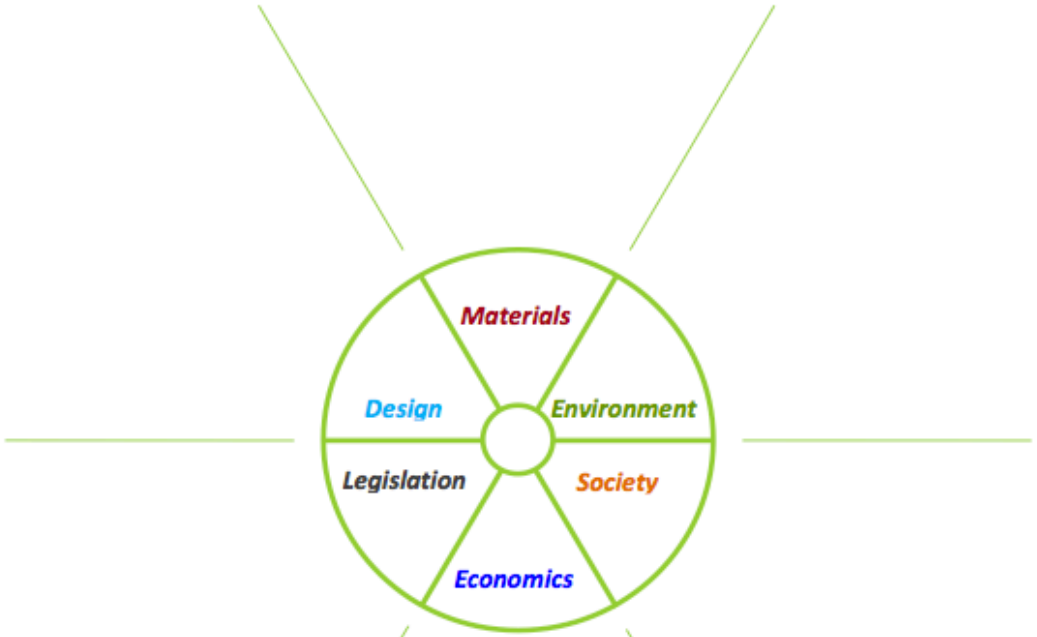
Initial ideation, stakeholder & system analysis and reserch:

Impact category	Material production	Manufac-turing	Use-phase	End-life	Transport
M-Materials					
E-Energy					
T-Toxicity					
A-Socio-cultural					

Initial ideation, stakeholder & system analysis and reserch:

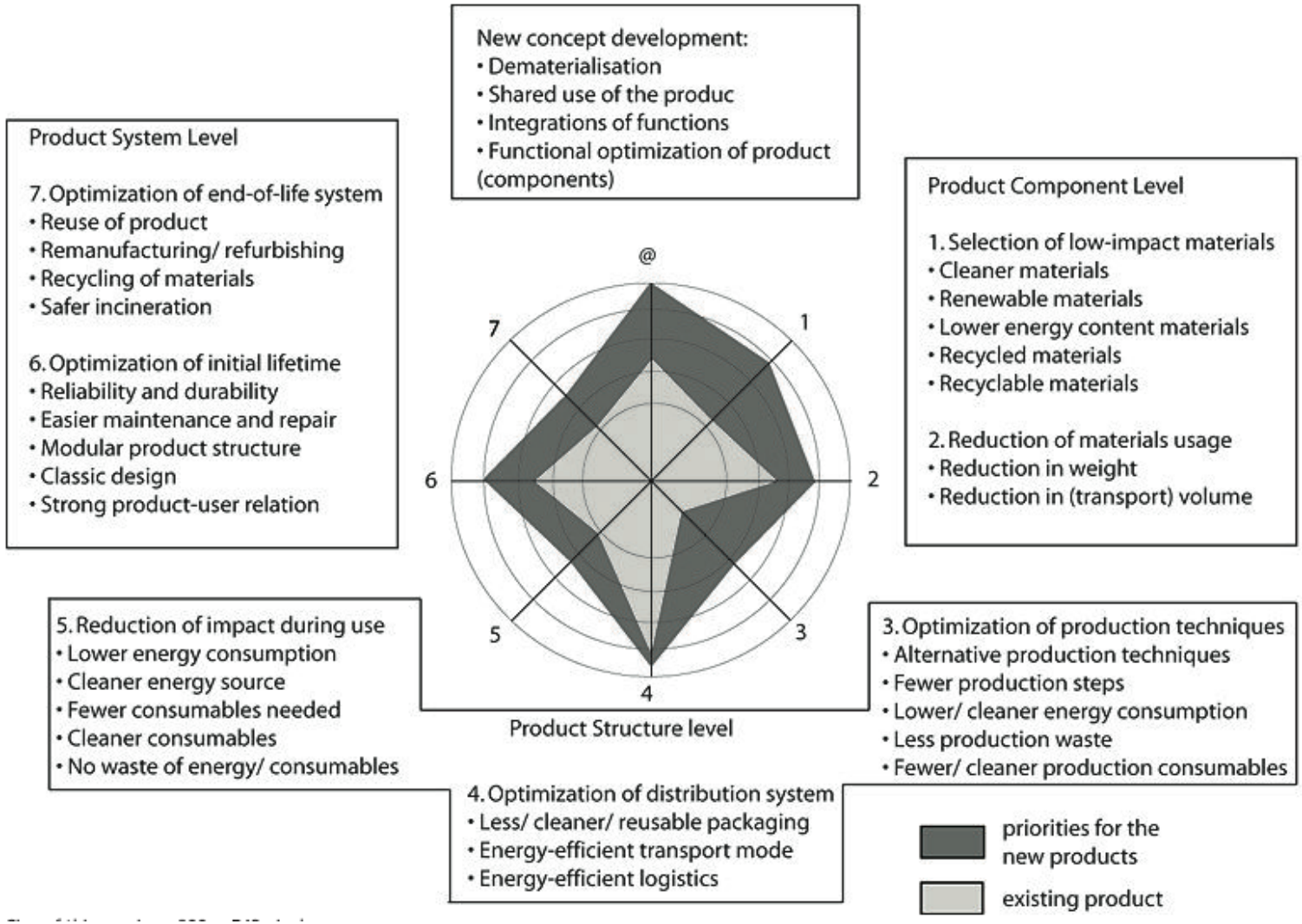
1. Prime Objective and Scale:

3. Fact - finding

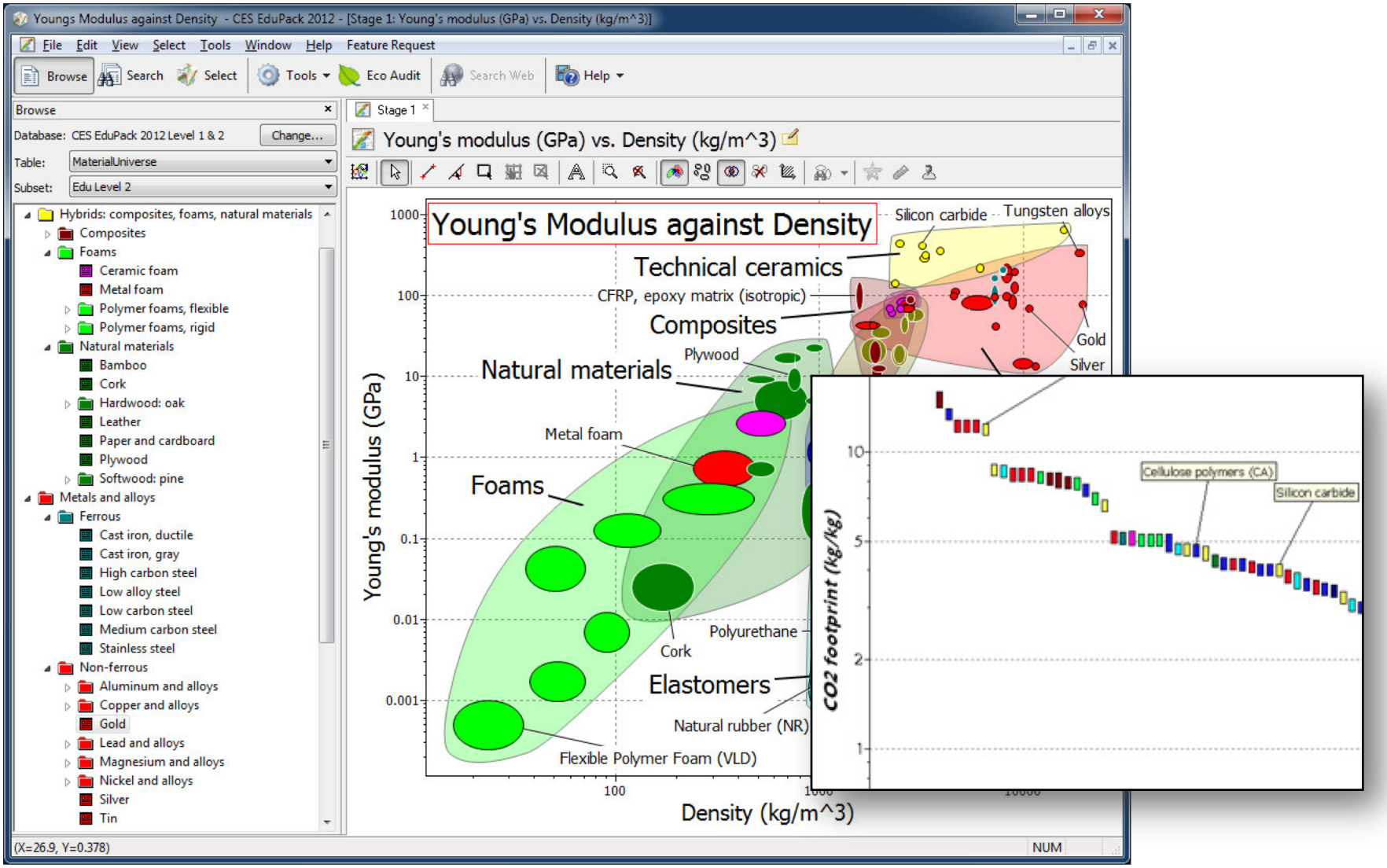


2. Stakeholders

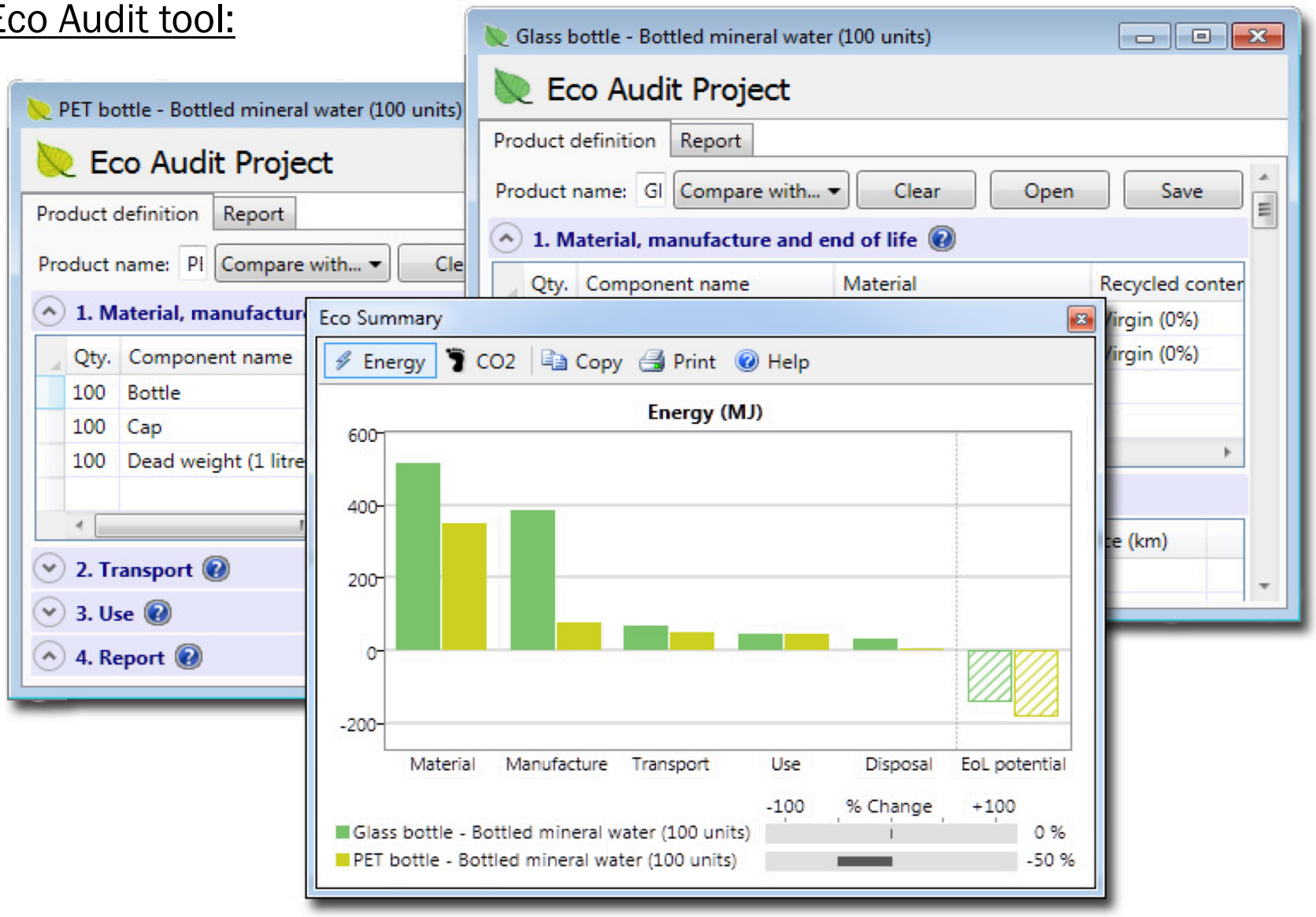
Initial ideation, stakeholder & system analysis and reserch:



Comparing material & systemic qualities with CES Edupack:



Assessing impacts with Eco Audit tool:



THANKS!

Project reports by 28.2.
Upload to MyCourses…

(if you're late that's okay but then email your report to me directly!)