



Aalto University
School of Engineering

Final seminar

WAT-E2140

Meeri Karvinen

Today's agenda

Wrap-up of the Task 5 in mixed groups & together (45 min)

Individual feedback session (45 min, including own break)

Synthesis of the course in groups & together (45 min)

Self- and peer evaluation instructions

Task 5: Corporate responsibility

Discuss and prepare to share key points (30 minutes):

1. Compare your definitions for the criteria of Planetary Wellbeing Index and definition of Planetary Wellbeing? What similarities/differences you find?
2. What differences and similarities you can find in sustainability implementation of your companies? How about similarities/differences in what is lacking?
3. How do you think engineering methods can contribute to implementing sustainability in companies?
4. Discuss also, if time:
 - What were your expectations regarding the companies' sustainability implementation before the task? Were you surprised/disappointed about what you found? Was the task easy / challenging, why?
 - What were the key learnings for you from this task? Feedback for improving it?

Planetary wellbeing?

Planetary health,
equity; social,
environmental and
economic wellbeing

humans, as the ones
with most power, are
responsible to maintain
sustainable systems
where all life forms can
flourish

1.similarities: transparency
of reporting, environmental
aspects, no economical
aspects. differences: narrow
and wide perspectives

Well-being of all people are met
without overexploiting the natural
resources

Index criteria

Transparency, respecting the
planetary boundaries, standard
qualifications, self-regulation

Implementing Sustainability

Expectations

Good image (highlighting the good impacts and actions)

expect to see generic information, impressed by their intentions and dedication in the sustainability effort

SD can never be the first priority because of profit-making

Vague information about sustainability in public pages. Often focus on financial benefits.

Transparency is often lacking (takes resources e.g. to trace supply chains). Easier in smaller companies.

More regulations about this?

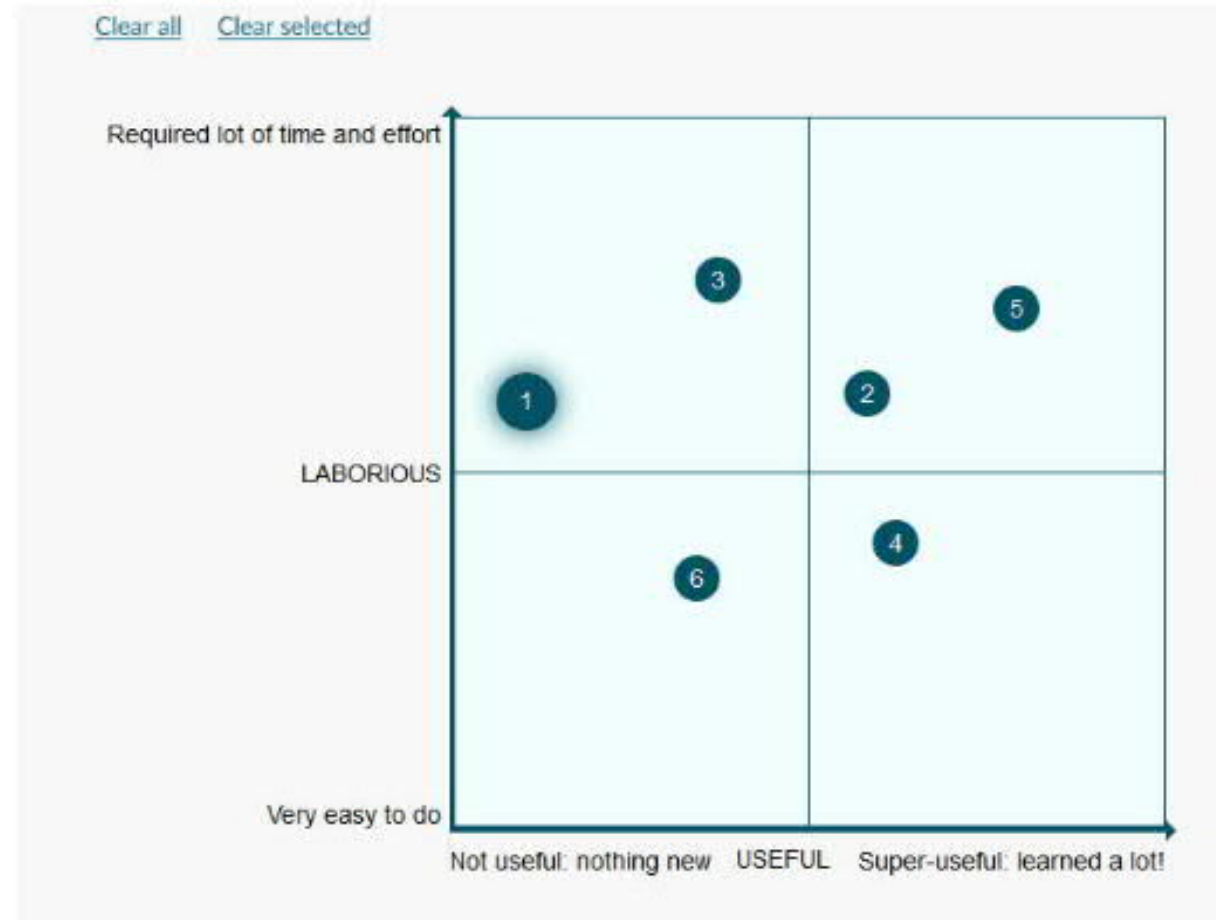
Feedback

1. Detailed feedback now

- Link in your inbox (from Webropol today at 9.45)
- Matrix for Tasks
- Open questions

2. Aalto feedback = 2 extra points

- Link sent last night
- Closes 24th Dec



Synthesis

Outline of the course:

Week 1: Sustainability science and policies: Frameworks and implementation schemes

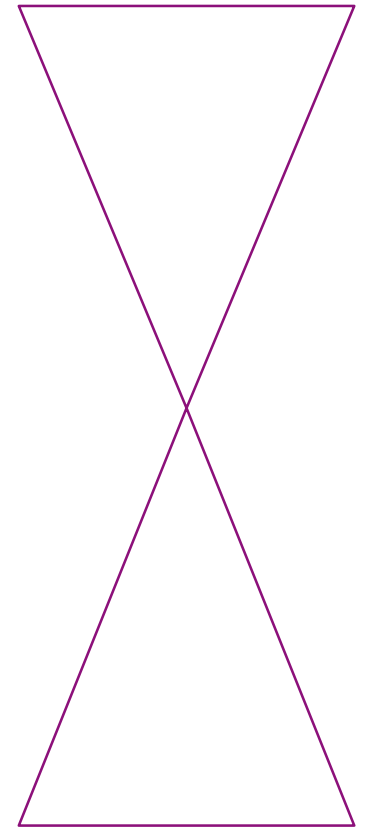
Week 2: Engineering methods for sustainability appraisal + regulative vs. voluntary measures in Week 2

Week 3: Application of methods I: LCA & rebound effect

Weeks 4-5: Application of methods II: EIA & sustainability

Weeks 5-6: Societal impact through corporate responsibility

(Week 7: organising the knowledge & skills gained in the form of a concept map)



Key learning points & feedback

Group 1 = week 1, g2 = w2, G3 = w3, G4 = w4

30 min

Prepare to present to others in 3 minutes, max 1 slide:

1. Sum up: What we discussed during the week?
2. Your group's key learning points from the week?
3. Feedback: how did the week & related task work? Suggestions for improvements?

Week 1: Sustainability science and policies

Listen and participate in team discussion

Nexus-thinking

How to define sustainability (what is related to it as a concept)



Planetary boundaries

Doughnut model



Learnt to **summarise** a big concept and teach others so that it is easily understandable

Learnt about the **history of environmental awareness and sustainability**

Why the **SDGs exist** (monitor the targets)

Week 2: Regulative frameworks & sustainability appraisal methods

- Topics of the week
 - Life-cycle thinking based sustainability management, regulative frameworks, footprints, handprints, indicators, etc.
 - Engineering methods: MFA, MIPS, CBA, MCDA
- Key learning points
 - Learning from our own presentation topic (MIPS)
 - the concept of handprints (though it might be still a bit unclear for some of us)
 - How appraisal methods can be used to create data which then can be used for linked to sustainability goals and regulative requirements
 - Many levels related to sustainability and regulations
- Feedback
 - More examples etc. about handprints and compensation
 - Independent video session was not that good for learning
 - Learning focused more on the group's own topic than the other groups' topics

Week 3: Rebound effect and life cycle thinking

Guest lecturer Juudit Ottelin introduced the rebound effect, consumption/production based assessments

Task 3: The rebound effect brochure

Life cycle thinking & value chain: real-life cases. Guest lecturer Outi Ugas / Positive Impact

Learning points:

- Learnt a lot about rebound effect
- How to communicate complex issue in a simple way
- LCA: need to set boundaries for analysis, what you value and what your analysis do not tell?

Feedback

(How did the week & related tasks work? Suggestions for improvement?)

- Given (time limit for presentations or) page numbers were not in line with the given task.
- Juudit Ottelin's introductory lecture to rebound effect was very good and served the purpose well
- There was a bit too much reading material for the task 3 (three papers) when combined to group work.
- Faster feedback from the task.

Week 4: EIA

What we discussed during the week?

- Pre-reading EU's guidance for EIA + individual quiz
- Guest lecture Karoliina Jaatinen from AFRY discussed about EIA process and legal basis
- EIA report review and evaluation, presentation

Key learning points:

- Understand how an EIA works and its legislative framework (EU)
- Difference of EIA report between different regions
- Understand how an EIA is conducted in a real life case study
- Group work

Feedback:

- Too broad assignment (presentation) relation to the timeframe (15min)
- The evaluation guidelines for presentation was not flexible based on given report quality
- Giving that the subject was new for everybody in the group, it would have been nice to read quality EIA report.
- The lecture was demonstrative and informative!

Workload and Grading of the course: Weighing of the Tasks & Teaching sessions

Workload in 7 weeks in total = ~135 hours (19-20 hrs/week):

Working hours per week: 5-7hrs contact sessions + 3-5hrs concept map work (= reflection & deep learning)
+ 5-10hrs other independent or group work.

The grading of the course: the total amount of points from all the learning assignments + contact session attendance. Submission overdue = -25% points / submission. To pass the course, you need to submit all the tasks and assignments by Monday 14h Dec 2020 at 23.55.

Grading: 0-49 points = Fail; 50-60 = 1; 61-70 = 2; 71-80 = 3; 81-90 = 4; 91-100 = 5.

- ❖ **Concept map assignment**, Individual = max 20p. (~25 hrs)
- ❖ **Task 1:** SD Science & Policies, Learning diary, Individual = max 8p. (~7 hrs)
- ❖ **Task 2:** Measuring sustainability, Presentation and reflection, Group = max 8p. (~7 hrs)
- ❖ **Task 3:** LCA/Rebound, Calculations & brochure, Group = max 10p. (~10 hrs)
- ❖ **Task 4:** EIA, Quiz (individual) & Presentation, Group = max 14 p.(~15 hrs)
- ❖ **Task 5:** Corporate responsibility, Sustainability evaluations, Group = max 10 p.(~10 hrs)
- ❖ **Contact sessions (10):** 2 points / attendance (**Aalto feedback extra 2p.**) = max 20p. (+2)(~25 hrs)
- ❖ **Peer and self assessment** = max 10p.

Self and peer assessment

The self and peer assessment covers 10% of the course grade. The scale for the assessment is 0-5. In addition, you need to give a verbal explanation for the given grade.

(Final points is the average of self and peer grades given to you *2, max = 10p.)

When grading, take into account the following issues, and write main points in the verbal assessment:

- **Interaction in the group:** How actively the member takes part in the conversations and keeps the discussion on track, does the member have constructive ideas on how to proceed in the task, how independently the member works and how much s/he helps others, how well the member listens to others' suggestions and point of views and takes them into account.
- **Quality of the contribution:** How well the member's own part of the tasks was done, how did the member use his/her previous knowledge that was needed in the tasks, was the own part done in agreed schedule?
- **Main strengths and weaknesses in teamwork**

Evaluate yourself and your team members by next Friday, 11th Dec

Attendance

If you want to do a compensating task, or find error(s) in the table, contact Meeri by Mon 7.12.

Student number	28.10.	30.10.	4.11.	6.11.	11.11.	13.11.	18.11.	27.11.	2.12.	4.12.	Total (2p./ session)
919968	2	2	2	2	2	2	2	2	2	2	20
654634	2	2	2	2	2	2	2	2	2	2	20
919900	2	2	2	2	2	2	2	1	2	2	19
874980	2	2	2	2	2	2	2	2	2	2	20
914031	2	2	2	2	2	2	2	2	2	1	19
650104	1	2	2	2	2	2	2	2	2	2	19
429322	1	2	1	2	1	2	2	2	1	2	16
633778	2	2	2	2	2	2	2	2	2	2	20
655976	2	2	2	2	2	2	2	2	2	2	20
919984	2	2	2	2	2	2	2	2	2	2	20
920148	2	2	2	2	2	2	2	0	0	2	16
884585	2	2	2	2	2	2	2	2	2	2	20
569965	2	2	2	2	2	2	2	2	0	0	16
502252	2	2	2	2	2	2	2	2	2	2	20
914060	2	2	2	2	2	0	2	2	0	2	16
800297	2	2	2	2	2	2	2	2	2	2	20
595366	2	2	2	2	2	2	2	2	2	2	20

Thank you for the course !❤️



1.12.2020

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