

Response paper for Thematic seminar 1 (Lectures 1-10)

This Response paper covers Lectures 1-10 and the accompanying literature for these lectures (see course memo for details).

Instructions

How to write your answers

- **Name:** Add your name at the top of your document!
- **Length:** 600 – max 700 words (excluding reference list)
- **Language:** Write in English.
- **References:** Always include references (in-text and at the end as a reference list) to the sources (literature, lectures, web sites..) that you use to complete the assignment. Use any format for referencing that you like (IIIE, Oxford, Harvard...) but be consistent.

Submission and seminar

- Submit your response paper in Canvas (Assignments/Thematic seminars).
- **Deadline is the day before the seminar!**
- You must submit before the deadline in order to attend the seminar.
- If you fail to submit and attend the seminar, you need to attend the compensation seminar at the end of the course (see Assignments/Attendance thematic seminars).
- **NOTE:** Make sure that you can share your response paper with others (by email or other solution) during the seminar.

Questions

1. Revisit Lecture 2 (Sustainable development) and Lecture 3 (Planetary boundaries) and the accompanying literature.
 - a. Mention at least two things that were new and interesting to you (a piece of fact, way of reasoning, ideas, or other). **Describe** (include facts to describe what you chose, include references). **Motivate** why you chose it (your personal reason for selecting this aspect).
 - b. If nothing was new to you in these lectures, mention at least two other things that you think would be important to learn more about, concerning sustainable development? **Describe** (include facts to describe what you chose, include references). **Motivate** why you chose it (your personal reason for selecting this aspect).
2. ICT solutions are characterized by the "five aspects of digitalization" presented in the report "Digitalize for the environment"¹ (page 6). You may have realized that society (in particular politicians and industry) has high expectations on ICT to provide solutions to solve sustainability problems and to enable more sustainable practices. But ICT also creates sustainability problems. This may lead to **goal conflicts**, where one problem is solved at the expense of creating another. Find information about **one existing ICT solution** that has an explicit aim to contribute to solving/reducing a sustainability problem (social or environmental) in any part of industry or society.
 - a. **Describe** the problem that is being addressed by this ICT solution (include facts with references).
 - b. **Describe** this ICT solution briefly (include source/web link); what it does, and in what way it is supposed to contribute to sustainability?
 - c. **Discuss** briefly if there might be any sustainability goal conflicts? (Support by references if stating facts to support your discussion.)

¹ <https://www.cesc.kth.se/digit-for-environ/valkommen-till-guiden-digitalisera-for-miljon-1.773070>