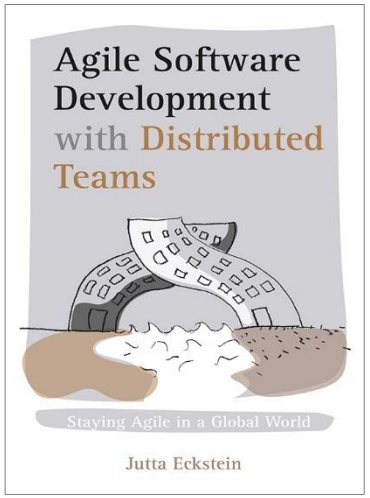
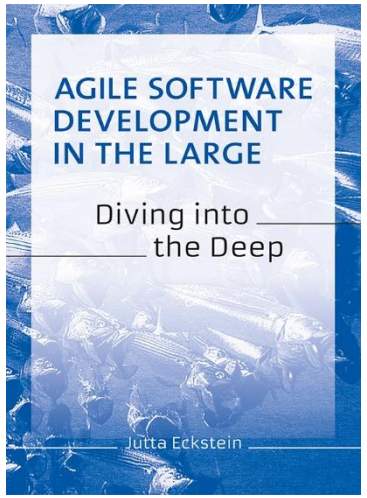
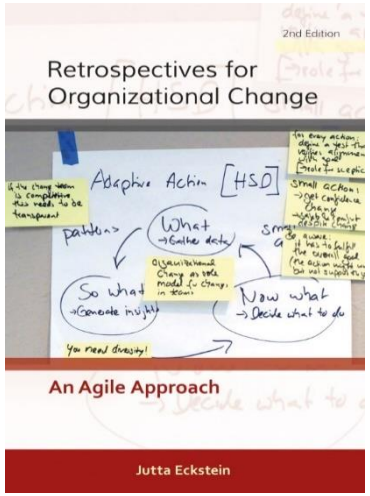
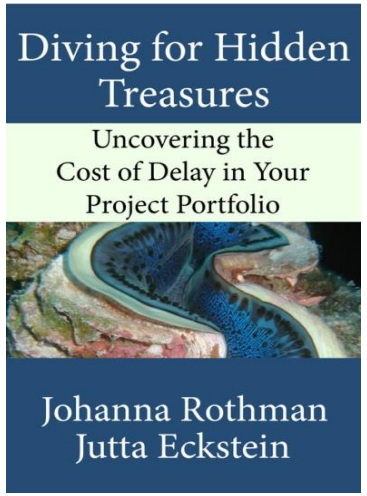
Software for Future:

What's the Impact of the Agile Manifesto on our Carbon footprint?









Jutta Eckstein | @JuttaEckstein

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Agenda

- Welcome & Set the Stage
- Definition of Sustainability
- Sustainability & ICT
- Agile Manifesto & Sustainability
- Debrief
- Wrap-Up & Feedback

Purpose of this Session

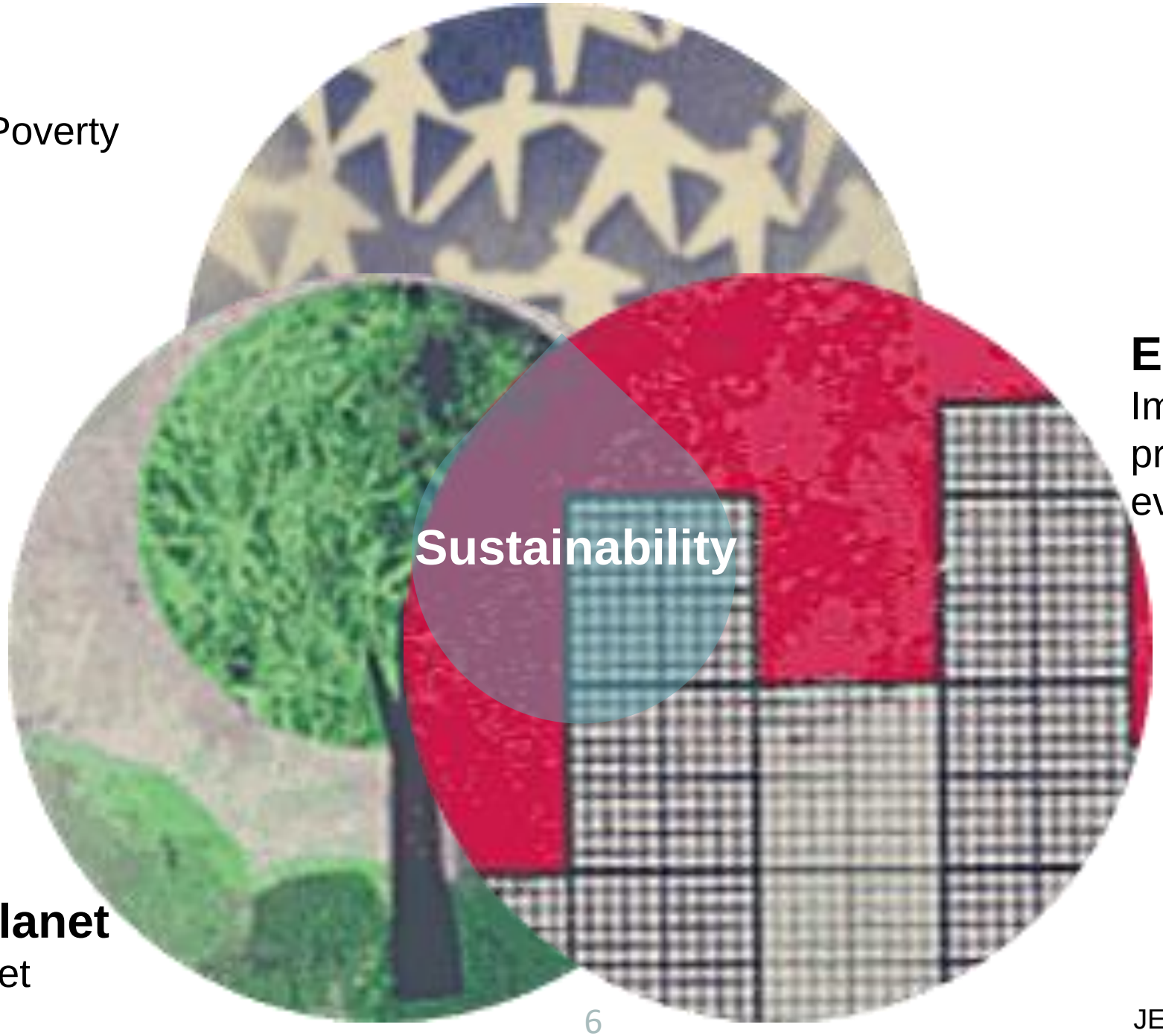
- **Understand:**
  - Agility comes with a responsibility
- **Goal:**
  - Increase the awareness!

Definition of Sustainability

Sustainable development
is development that meets
the needs of the present
without comp
the ability of futur
to meet their c

UN Brundtland com

Social/People
Aiming on Ending Poverty



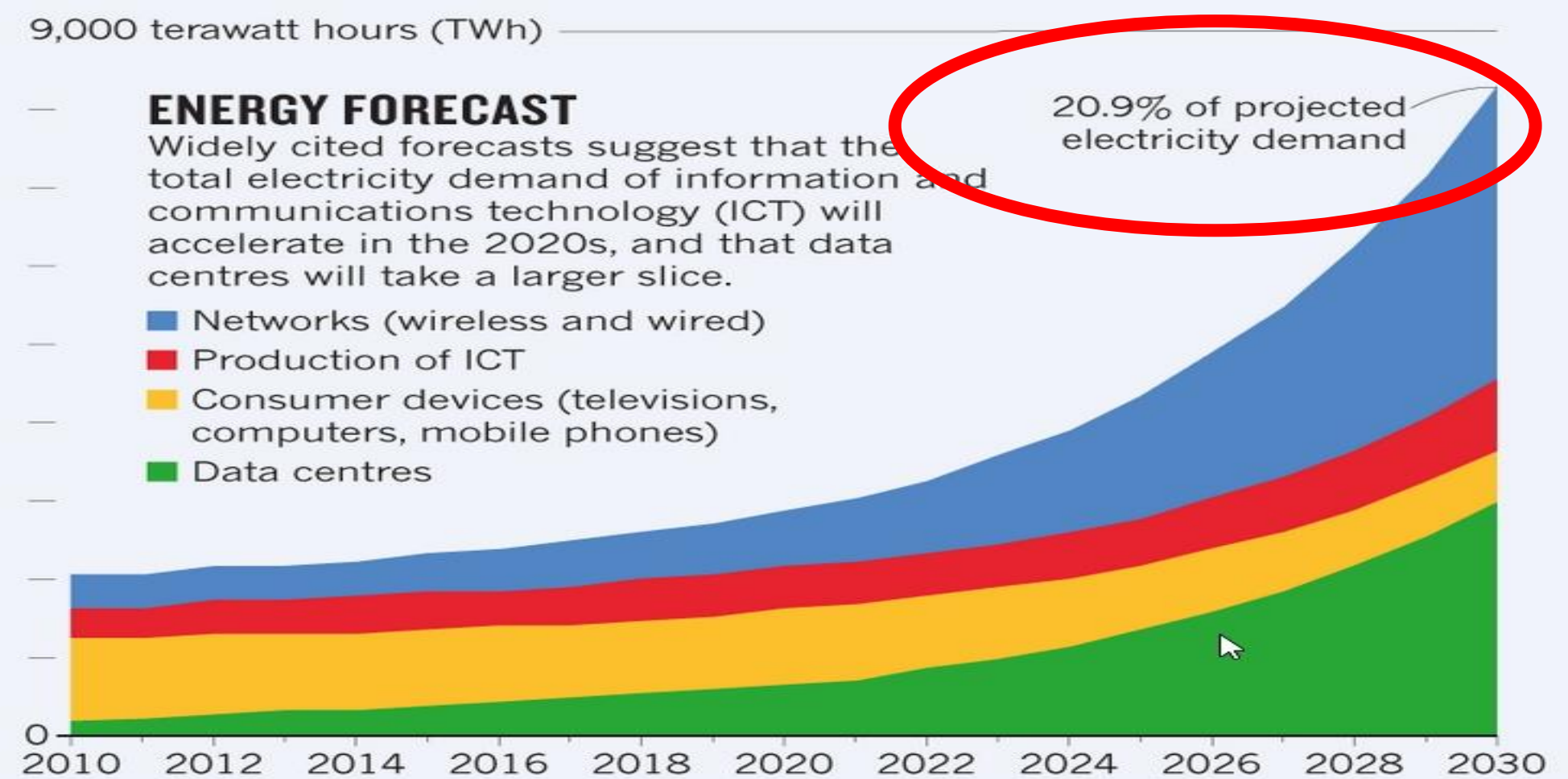
Economic/Profit
Improving the lives & prospects of everyone, everywhere

Environment/Planet
Protecting the Planet

Sustainability & ICT

Impact on Sustainability by ICT

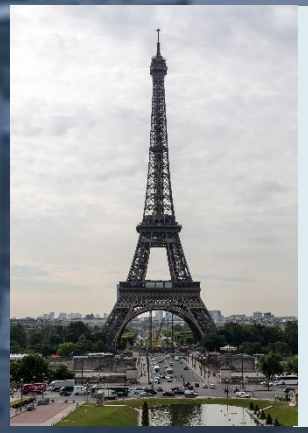
Impact on Sustainability in ICT



The chart above is an 'expected case' projection from Anders Andrae, a specialist in sustainable ICT. In his 'best case' scenario, ICT grows to only 8% of total electricity demand by 2030, rather than to 21%.

© Nature. Jones, N.: How to stop data centres from gobbling up the world's electricity

Impact on Sustainability in ICT



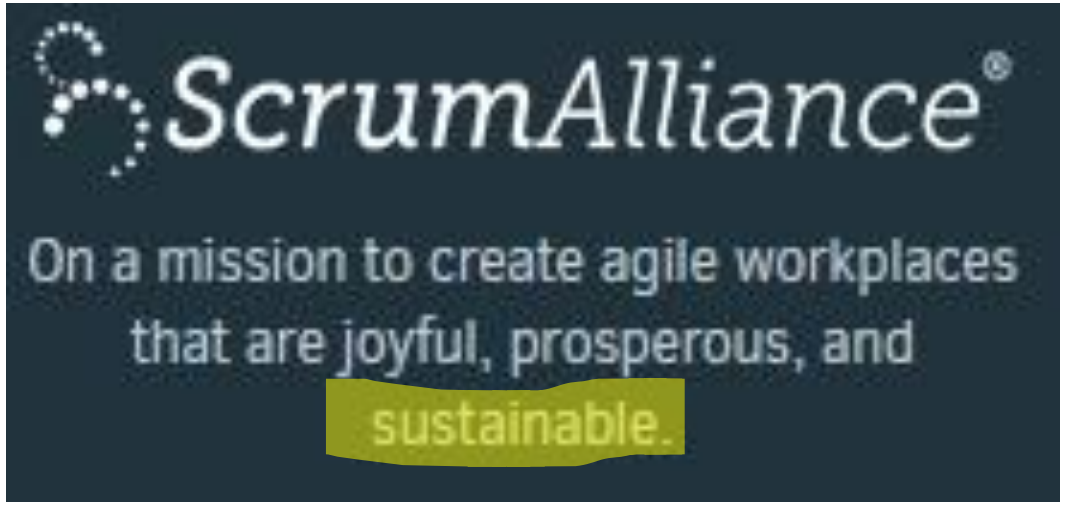
In 2019, 53.6 million metric tonnes of electronic waste was generated worldwide (that's plus 21% in 5 years.)

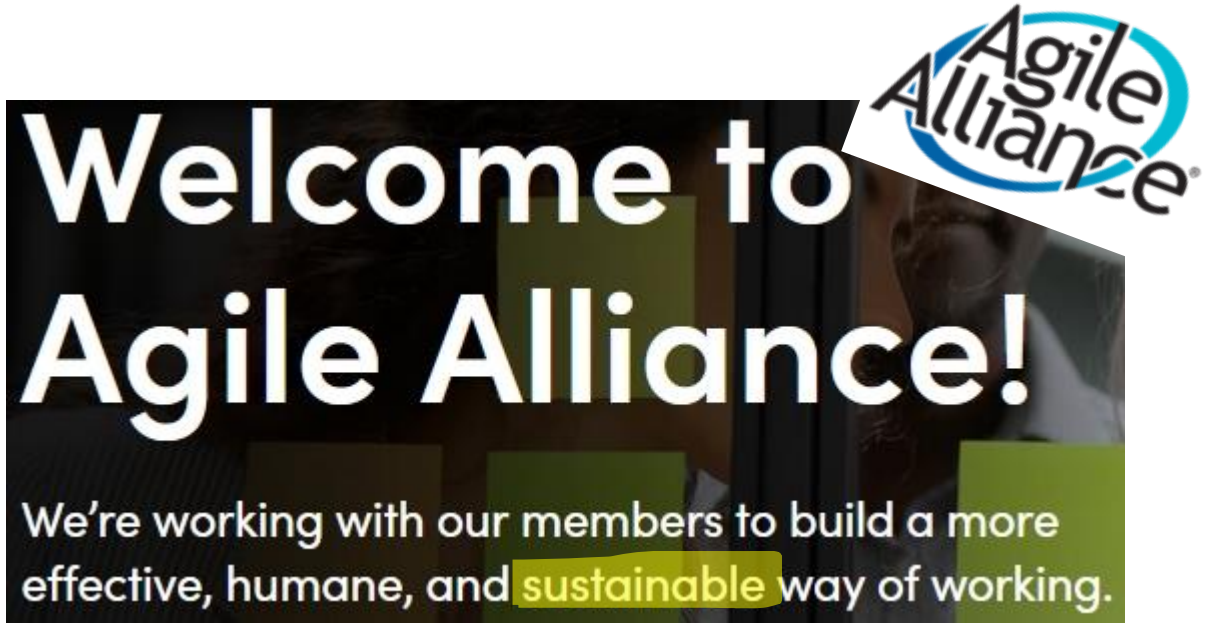
This is an equivalent of almost 5,400 Eiffel towers.

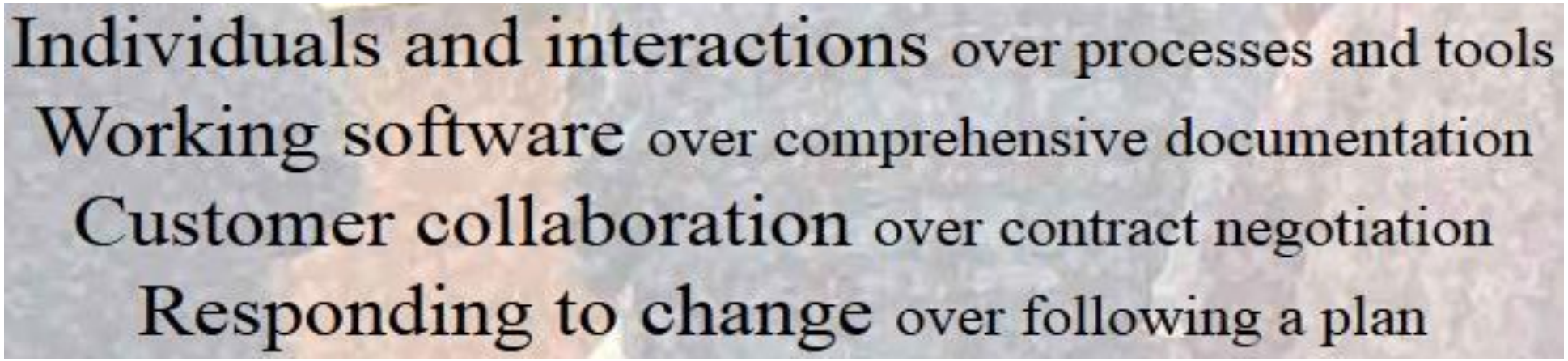
© United Nations University: The Global E-waste Monitor 2020

Agile Manifesto & Sustainability

Agile made a Promise!







Self-organization

Transparency

Constant Customer Focus

Continuous Learning

Transparency

Make the company's actions transparent both internally and externally.

Self-organization

Regard the company as one node of a global network that creates the environment it lives in together with other companies and societal institutions.

Continuous Learning

Learn continuously from and with society to make the whole world a better place.

Constant Customer Focus

Understand the economic, ecologic, societal, and social environment as a customer that needs permanent attention.

© agilebossanova.com

Agile Principle 8:

Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.

Take sustainability holistically into account. E.g., developing the product or service should not lead to burnout of the developers (social), to the reduction of resources (environment), or to overspending financially (economic).

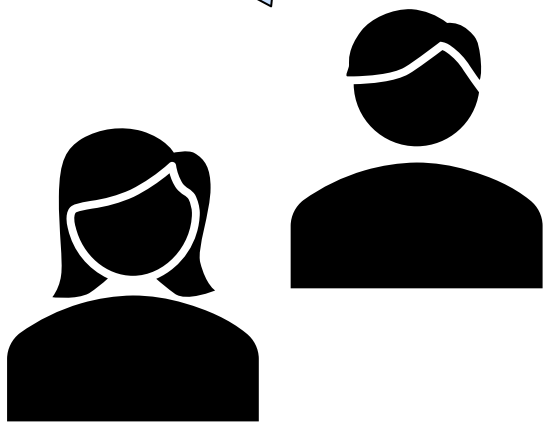
- Does the documentation inform about its resource-efficient use and is the information easy to understand?

- What might extreme use or unhealthy engagement look like with our product?

- Can we guarantee that the current release can be executed on a reference system that is n years old?

Read & discuss the background & questions, note what comes to your mind:

- Comments or questions & examples
- Actions you can tackle in your workplace



Many Thanks!

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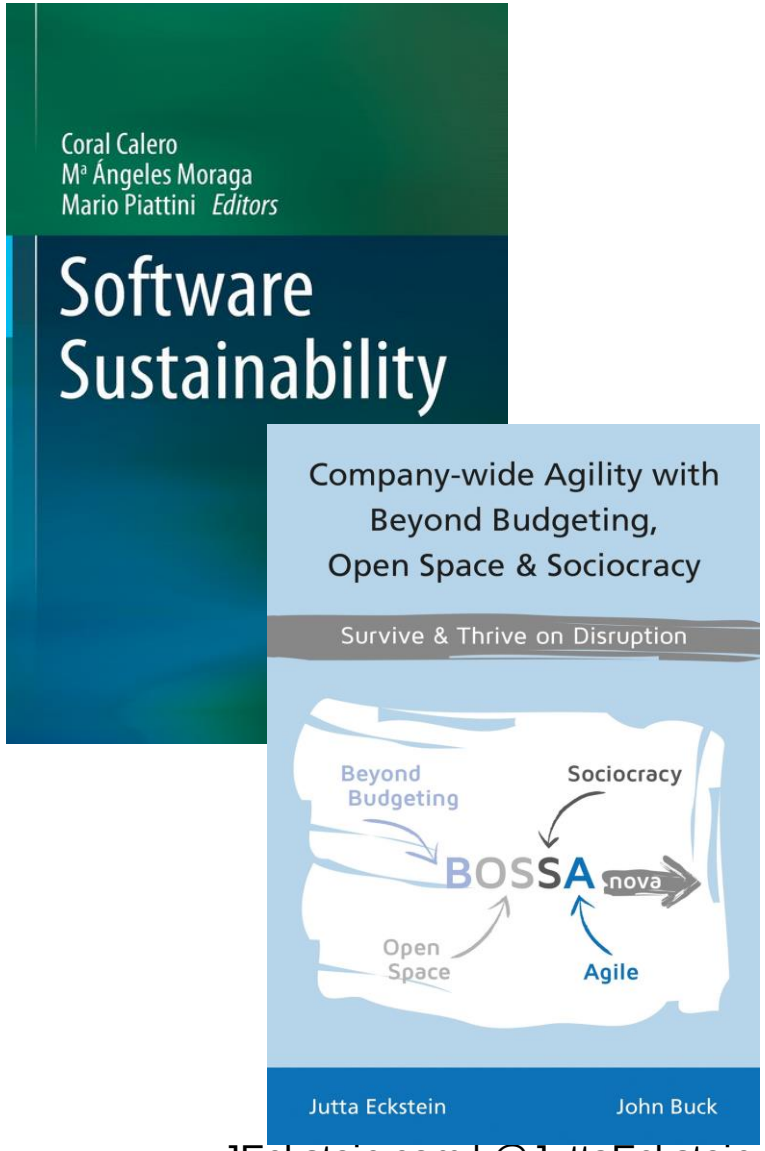
- https://jeckstein.com/sustainability
- https://agilebossanova.com

- **Resources for the questions:**
  - Tim Frick: Designing for Sustainability: A Guide to Building Greener Digital Products and Services
  - Daniel Wahl: Designing Regenerative Cultures
  - Blue Angel (https://bit.ly/3Irzom6)
  - Ethical Explorer (https://ethicalexplorer.org/)