#### **Software for Future:** What's the Impact of the Agile Manifesto on our **Carbon footprint?** Agile Software Company-wide Agility with AGILE SOFTWARE Development DEVELOPMENT Beyond Budgeting, with Distributed IN THE LARGE Teams **Open Space & Sociocracy** Diving into Jutta Eckstein | @JuttaEckstein<sup>></sup> the Deep Survive & Thrive on Disruption https://JEckstein.com Jutta Eckstein Bevond Sociocracy Budgeting Diving for Hidden Retrospectives for Treasures BOSSA nova **Organizational Change** Uncovering the Cost of Delay in Your Adaphie Achim [HSD] **Project Portfolio** Open Agile Space Jow what An Agile Approach Johanna Rothman Jutta Eckstein John Buck **Jutta Eckstein**

Jutta Eckstein

# 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**



JECKStein.com | @JuttaEckStein

#### **Social/People** Aiming on Ending Poverty

#### Sustainability

### Environment/Planet

Protecting the Planet



#### **Economic/Profit**

Improving the lives & prospects of everyone, everywhere

### **Sustainability & ICT**

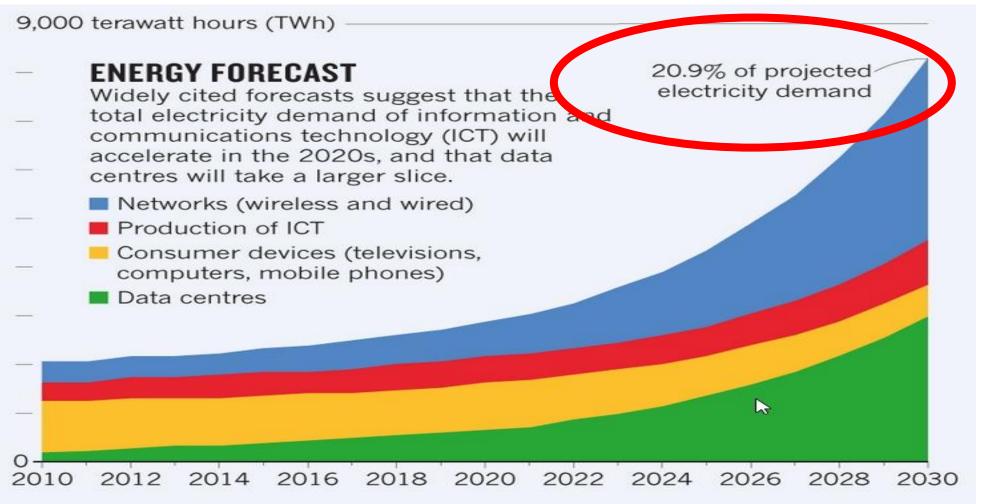
### Impact on Sustainability by ICT







# 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%.

# Impact on Sustainability in ICT

The Global E-waste Monitor 2020

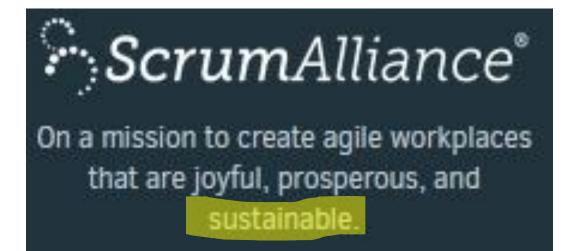
niversity

**United Natio** 

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.

### **Agile Manifesto & Sustainability**

## **Agile made a Promise!**



# Welcome to Agile Alliance!

We're working with our members to build a more effective, humane, and sustainable way of working.

Individuals and interactions over processes and tools Working software over comprehensive documentation Customer collaboration over contract negotiation Responding to change over following a plan

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.

#### **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?



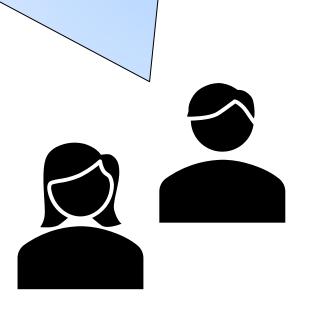
 What might extreme use or unhealthy engagement look like with our product?



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://www.linkedin.com/in/juttaeckstein<sup>in</sup>
- 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/3lrzom6)
- Ethical Explorer (https://ethicalexplorer.org/)

Coral Calero Mª Ángeles Moraga Mario Piattini *Editors* 

### Software Sustainability

Company-wide Agility with Beyond Budgeting, Open Space & Sociocracy

