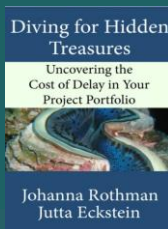
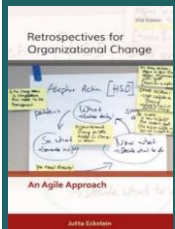
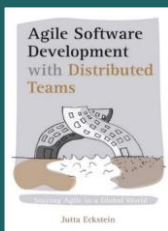
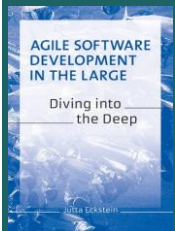
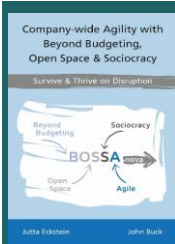


Agile Sustainability

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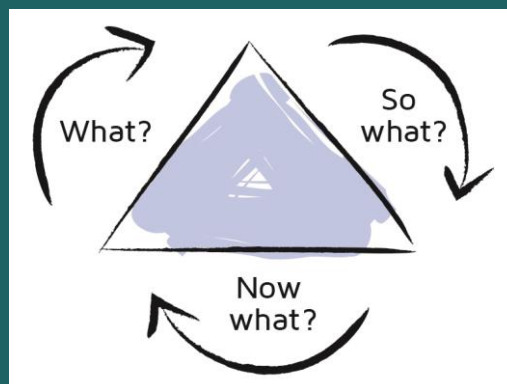
Pollution Control Commissioner on Ecological Environmentalism



Agenda

What? Facts

So what? Insights



Now what? This is what you can do!

Electricity footprint (TWh) of Communication Technology 2020-2030

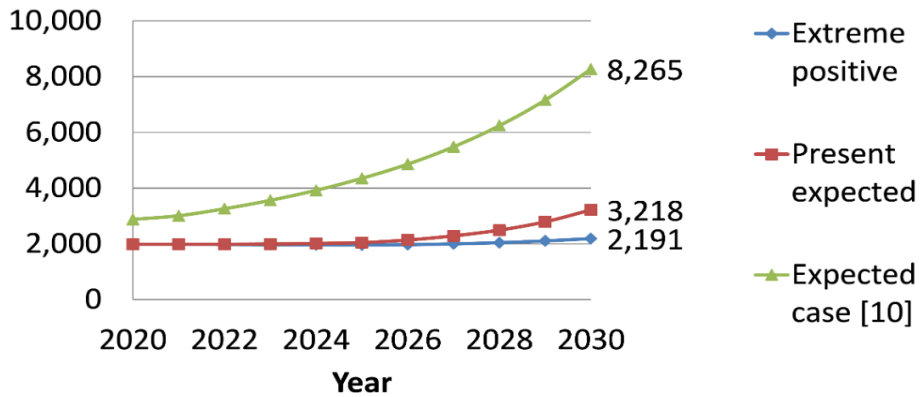


Figure 7. Trends for ICT electric power use 2020 to 2030.

© Anders Andrae: <https://bit.ly/47JIMVr>
New perspectives on internet electricity use in 2030

Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

UN Brundtland commission



Social/People

Aiming for equity, health, liveability

Diversity
Safety, Security & Privacy

Economic/Prosperity

Improving the lives & prospects of everyone, everywhere


Sustainable Economies
Responsible products

Green software
CO2 reduction

Environment/Planet

Protecting the Planet

Sustainability

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Social/People

Patient's first name

Shirley

Patient's last name

Wu

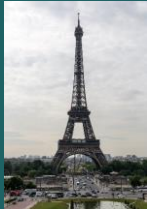
Enter a valid last name.

Economic/Prosperity

After protest, open source software company Chef will let ICE contract expire



Environment/Planet



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.

Sustainability

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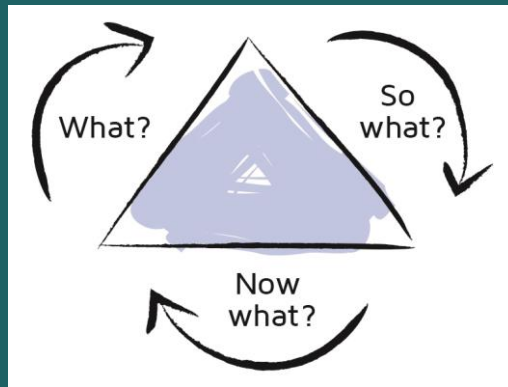
11

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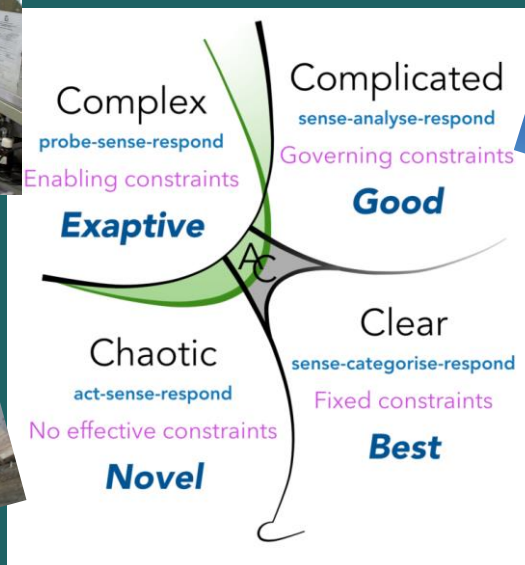
Agenda

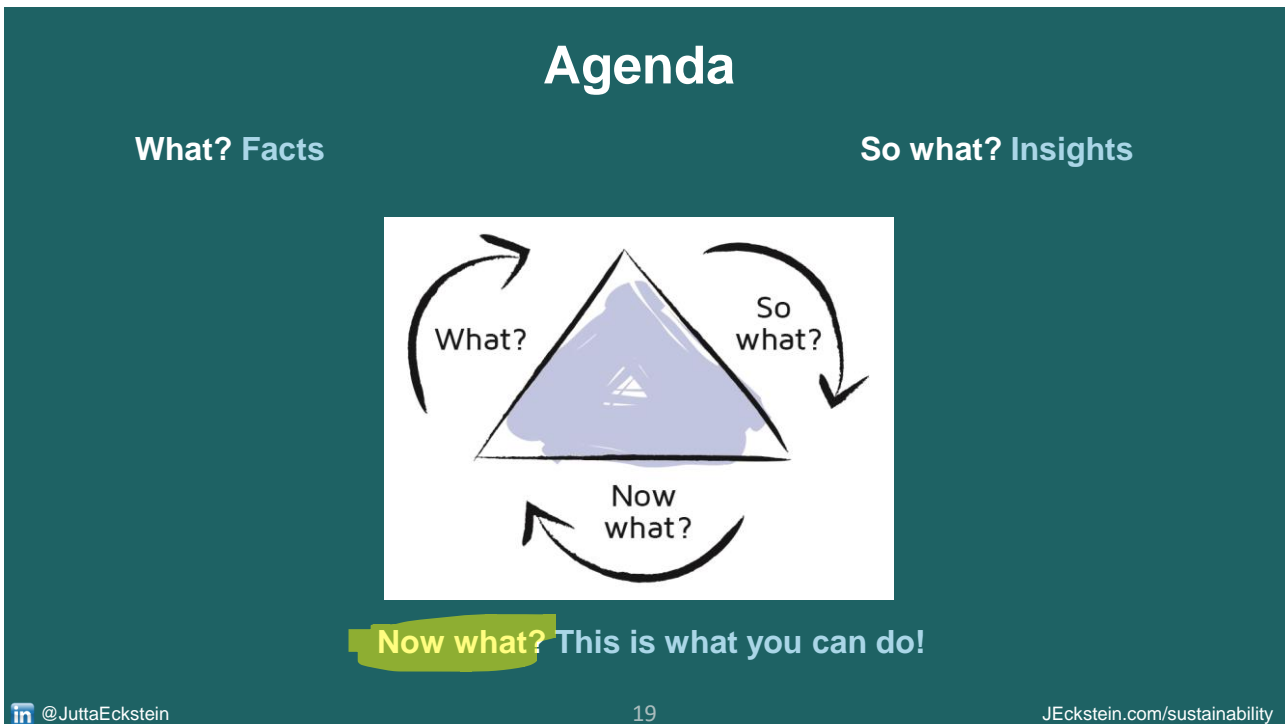
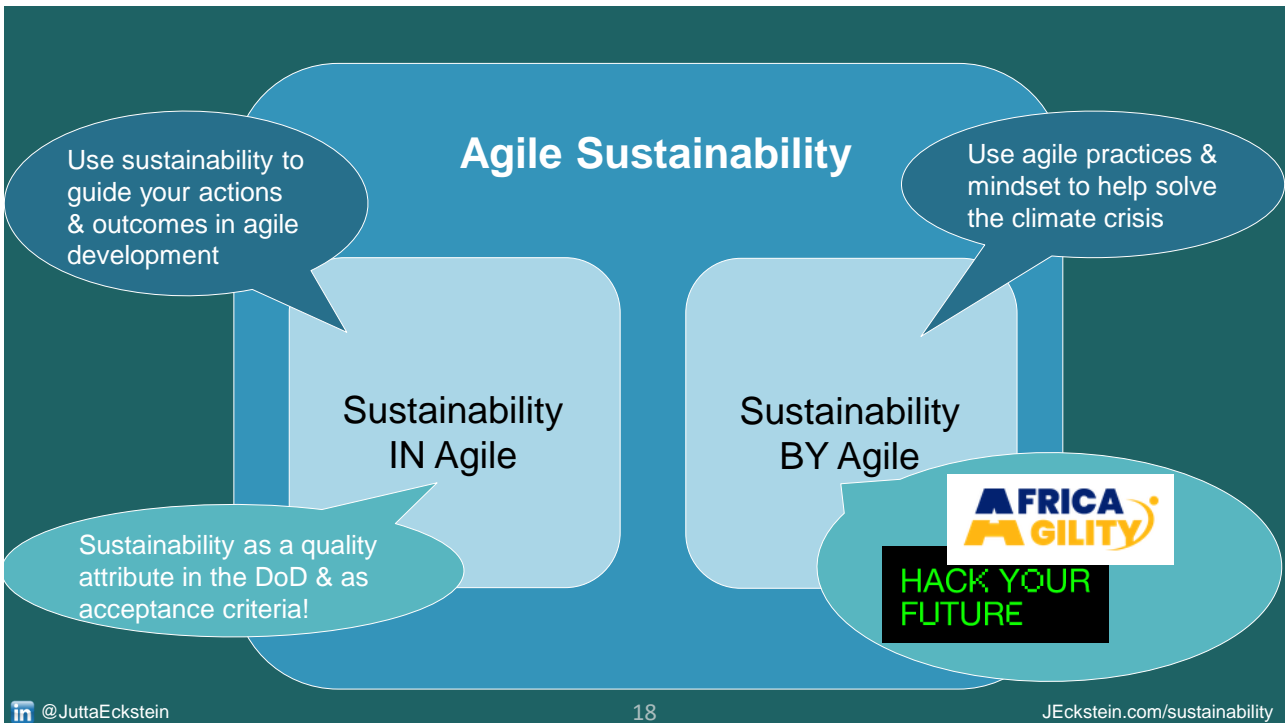
What? Facts

So what? Insights















Now what? This is what you can do!





Persona Spectrum

- Make your system accessible to everyone!

	Permanent	Temporary	Situational
Touch	 One arm	 Arm injury	 New parent
See	 Blind	 Cataract	 Distracted driver
Hear	 Deaf	 Ear infection	 Bartender
Speak	 Non-verbal	 Laryngitis	 Heavy accent

Source: ©David Dame, Microsoft. <https://bit.ly/3EYNdXk>

Stories

Note: It's not about the form, it's about the content!

As a {insert user},
I want to {insert users' want},
So I can {insert value to the user}

With the impact of {insert impact on environment, social, etc.}

As a designer,
I want to reduce the amount of font types,
So the page performance will increase for users and pages will be more digestible,

With the impact of reduced CO2 emissions because of less data transfer.

Source: Michael Fearer: <https://bit.ly/impactStories>

Fonts Excursion

Source: <https://siteefy.com/how-many-websites-are-there>

1,106,671,903

Currently, there are around **1.11 billion** websites in the World. **18%** of these websites are active, **82%** are inactive.

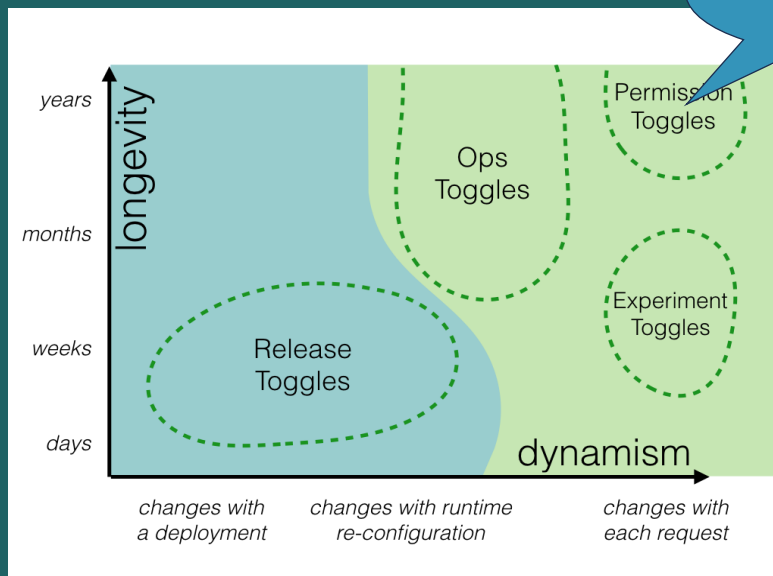
Font	CO2 emission per month (g)	CO2 emission per year (g)
Google fonts	388,06	4656,72
Self-hosted fonts	218,73	2624,76
System fonts	42,89	514,68

Source: Lukasz Jedrasiak: <https://bit.ly/fontsImpactOnCarbonFootprint>

Supporting Older Hardware

- **Sustainability Toggles**
 - Deactivate non-supported features
- **Responsive Design**
 - Recognize supported functionality on actual client

Feature Toggles



Source: Pete Hodgson
<https://martinfowler.com/articles/feature-toggles.html>

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Energy Aware Operations

- **Understand when**
 - Low-carbon electricity is available
 - Energy mix is renewable
- **Execute operations asynchronously at environmentally friendly times, like**
 - Tests
 - Non critical jobs

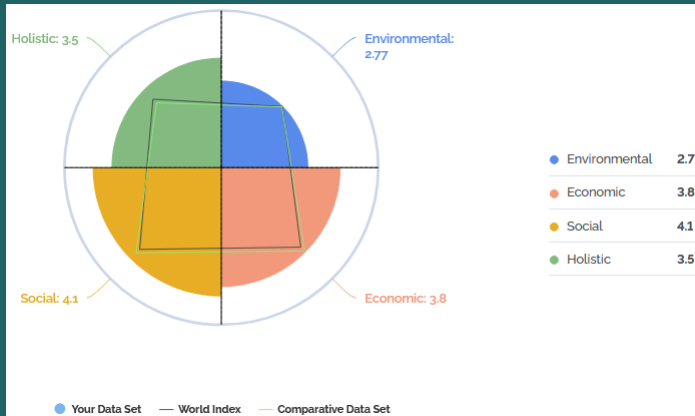


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Where do we stand?



■ Comparative Data Set:

– LeSS Conference 2023, Berlin

■ Highest value (good): 5

■ Full assessment available under (cc):

– <https://bit.ly/agile-sustainability>

Change your Conversations for Increasing Sustainability!

Many Thanks!



Support & sign: The **Agile Sustainability Manifesto**
agilesustainabilitymanifesto.org



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 @juttaeckstein.bsky.social

 <https://www.linkedin.com/in/juttaeckstein>

→ <https://bit.ly/agile-sustainability>
<https://jeckstein.com/sustainability>
<https://bit.ly/AA-sustainability-initiative>

