

Sandrine Herbert-Razafinjato - METHOD

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Welcome!



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Question 1:

Which has the larger carbon footprint?



a. The Internetb. United Kingdom

Answer:

a. The Internet

If the Internet was a country, it would be the **6th largest polluter**

– source: A. Andrae & T. Edler, via GreenIT and The Shift Project

Question 2:

How many trees would it take to offset the impact of spam emails?



a. Almost 2 millionb. Almost 2 billion

Answer:

b. Almost 2 billion

1.6 billion trees would have to be planted to offset the pollution of spam emails

- source: GerryMcGovern, World Wide Waste

Question 3:

What consumes more energy?



- a. 30 min GMeet call
- b. Charging a typical smartphone

Answer:

They are the same!

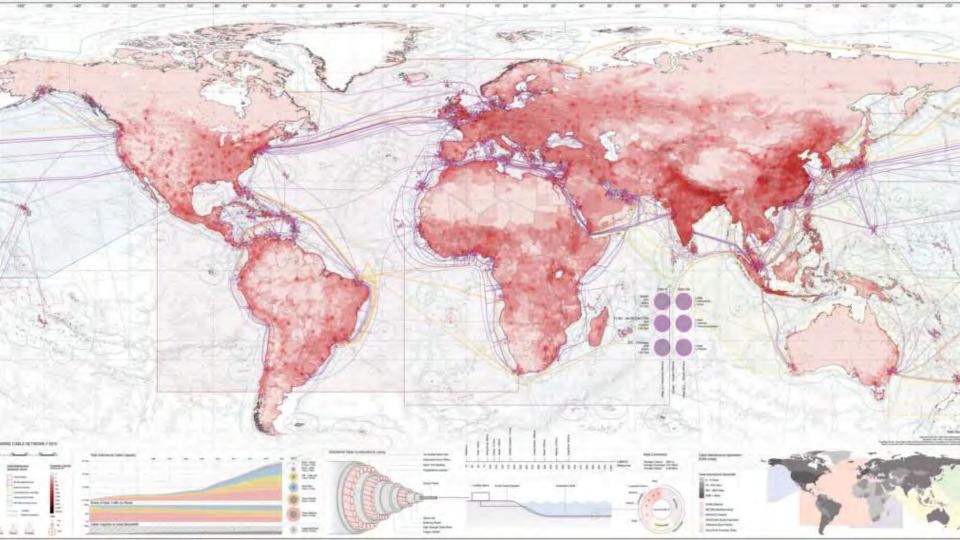
A 30min GMeet call on a MacBookPro = $\frac{1}{2}$ 0.012kWh or $\frac{1}{2}$ 5g CO2e

Which is approx. the same as the charging 1 smartphone

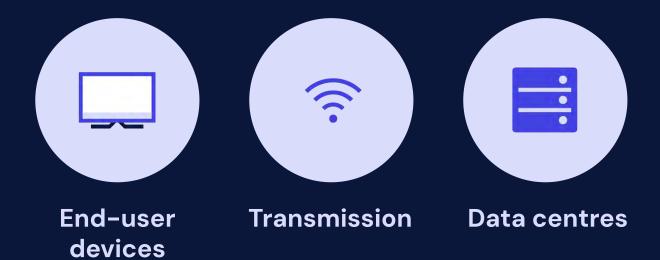
source: Carbonalyser

Digital is physical

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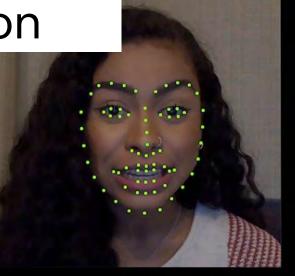






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Technology is part of the problem, but also the solution



h.264 Bandwidth: 97.28 KB/frame



Al Video Compression Bandwidth: 0.1165 KB/frame

Let's design sustainably.

How might we create digital products, services and experiences more responsibly?



Keep doing what we know how to do well. But without wrecking the planet more.

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Digital Sustainability



Global connectivity

How can we resolve the appeal and clear benefits of global connectivity with health of our local and planetary ecosystems?

Digital Sustainability



Gen Al

How do we leverage the potential of GenAl to automate and optimize repeatable tasks whilst balancing carbon intensity of the query and speed of the output?

Digital Sustainability



Ambient Computing

How do we balance ecological sustainability, with the desire for always on, seamless digital experiences?

Digital Sustainability



Cloud based software

Digital Sustainability



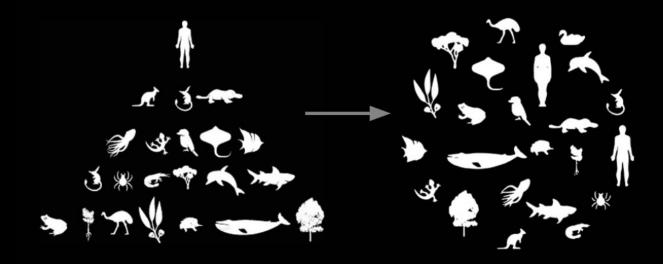
Immediate business goals

How do we respond to immediate business challenges that might conflict with our sustainability ambitions?

Every little step matters

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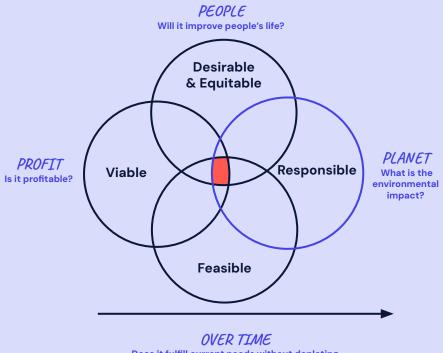
What we design, build, release is part of the planet ecosystem



HUMAN-CENTRED DESIGN

ENVIRONMENT-CENTRED DESIGN

Reframing our approach



Does it fulfill current needs without depleting those of the future generations?

Here are small actionable steps to get you started effortlessly

- 1 Design for low impact (UI)
- 2 Keep doing good UX
- 3 Advocate to business
- 4 Think holistically
- 5 Adopt shared values

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1 Design for low impact

Fonts

- Use lighter fonts, system fonts
- Limit the use of custom fonts
- Use fewer variations

Media

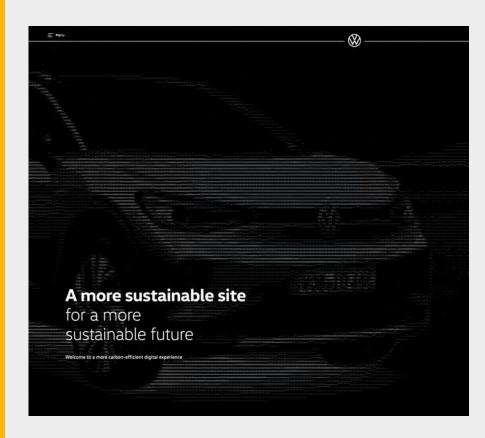
- Use less images or compressed images
- Don't load images until actively requested by users
- Optimize video files
- No auto-play / preview videos

Ul Components

- Avoid UI carousels, pop-ups and components that load content automatically
- No embedded maps
- No Ads
- Sharing buttons only if necessary

Colour choices

- Limit the amount of light emitted by the screen
- Consider Dark mode first



2 Keep doing good UX

Efficiency + Usability = saves energy and eliminates waste

Economy of means often equals economy of waste

- Land Identify time spent on the product and data exchanged Where is the value, is it worth it?
- Think Minimum Impact
 Product (not just MVP)
 Limited means/low budgets

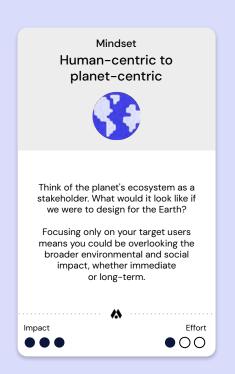
Limited means/low budgets bring creative solutions that are often more than enough

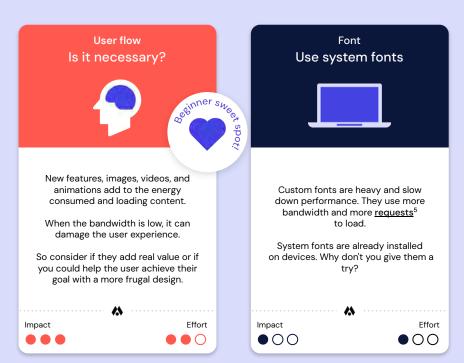
- Keep serving the interests of your users
 Think accessibility, inclusivity, privacy, safety AS A
 DEFAULT
- •• Inform the user of the impact of their browsing behaviour
- Reduce, re-use, recycle:
 Most IxD patterns exist,
 streamline the process



Start here!

We're creating tools and guides for our team mates: the Responsible Design Cards







3

Advocate to business

- → Check regulations, macro issues and competition
- → Learn how much your customers / end users care about environmental issues
- → Environmental gain often translates into economic gain: showcase industry case studies and collect examples
- → Empower your main stakeholders to carry that message across within the business

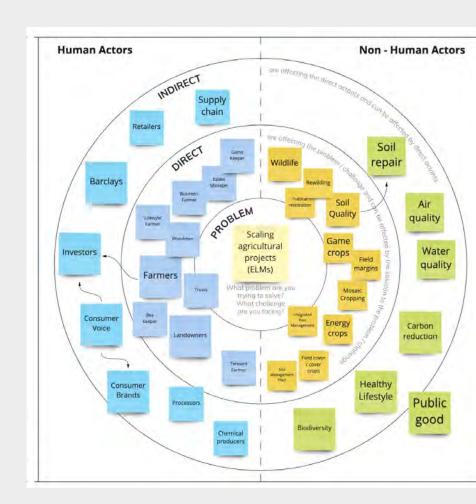
"Facebook has halved the number of servers needed to run its site by compiling its PHP code in C++, thus cutting by half its GHG emissions and avoiding building a new data center, which would have cost about 100 million dollars."

- Eco-conception web, Green IT

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4 Think holistically

- → Think not only in terms of impact reduction but also value creation
- → Adopt a systemic approach and add an environmental and social impact layer to your practice. Use planet-centric design toolkits: 1 technique at a time – you can use a part, a blend, or your own version
- → Share your challenges, learnings, outcomes with your collaborators, partners and sphere of influence



5 Adopt shared values

- → Bring together the whole team
- → Set a shared vision
- → Define principles that are actionable and help make decisions
- → Think of your personal conduct
- → Think of the output, end-result of your work



Resources to help you on your journey

Impact of digital on the planet

- → the Shift Project
- → World Wide Waste, Gerry McGovern

Planet-centric toolkits and green software guides

- **→** Method's Responsible Design Cards
- → Stop Designing For Yesterday
- → Sustainable Web Design toolkit
- → Systemic Approach by Design Council
- **→** Green Software Foundation

Measuring your impact

- → <u>Carbonalyser</u> web browser extension
- → <u>Ecograder website impact calculator</u> and <u>www.websitecarbon.com</u>

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This is just the start.

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Thank you!



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