Will ICT save the world?

Amael Parreaux-Ey – DINACon – 23.11.23



Solutions for a sustainable world.

resilio-solutions.com - contact@resilio-solutions.com







The digital world represents:

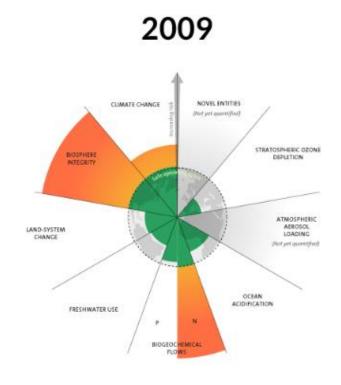
- The "**7th continent**" in terms of energy consumption.
- 4% of global GHG emissions, more than civil aviation!
- 50 to 75 billions kg of **electronic waste** each year.
- An exponential consumption of critical materials, a resource that will be exhausted in 1 to 2 generations.



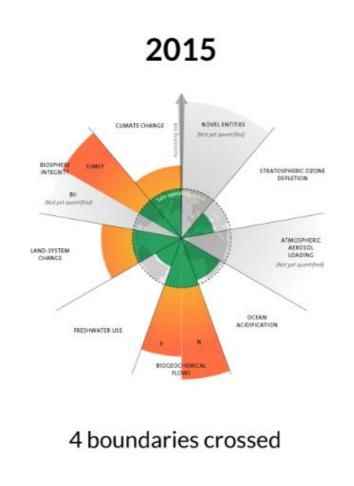


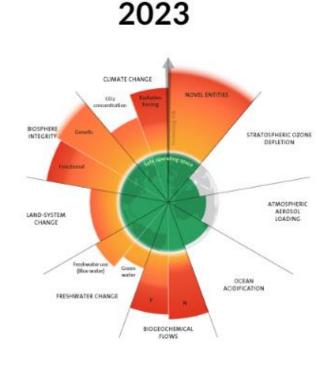






3 boundaries crossed





6 boundaries crossed

Source: Stockholm Resilience Center Licence CC BY-NC-ND 3.0.

Impact assessment, how can we do it?

Carbon footprint (GHG Protocol)

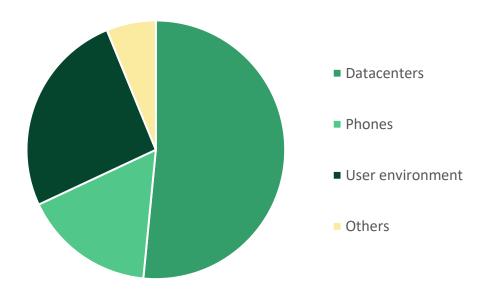
- Scope 1, 2, 3
- Suits for States, Countries
- Single-criteria GreenHouse Gases (GHG) emissions
- Few critic reviews
- Regulatory 'BGES' in FR to compensate for the laxity of the GHG Protocol

Life Cycle Assessment

- Suits the products and services
- Multi-criteria and multistep life cycle analyses
- Regular critic reviews
- Product Environmental Footprint

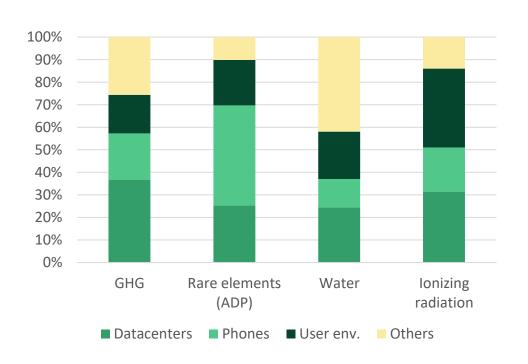
Impact assessment, how can we do it?

Carbon footprint (GHG Protocol)



Oh, my datacenters pollute!

Life Cycle Assessment



Mhhh...

Impact evaluation, how do we do it?

Carbon footprint (GHG Protocol)



Oh, my datacenters pollute! Let's get new devices!

Life Cycle Assessment



Mhhh...
How can we **reduce** our impact (not move it)?



Who am I to tell you about it?



Amael Parreaux-Ey
CEO











Support organizations towards digital sustainability

Our solutions



Resilio Academy

Always up-to-date

- IT / CSR / digital teams training
- Raise awareness (workshops, conferences...)



Resilio Tech

Measure your footprint

- Web app & API
- Life Cycle
 Assessments
- Research & development



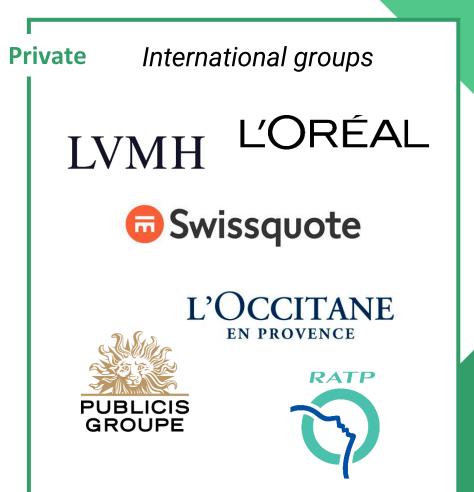
Resilio Consulting

Keep the rigth way

- Empower your team
- Eco-design
- Change management
- Follow-up

Who is on the road?





2015: The Paris Agreement

Objective of the Paris Agreement : 2 t CO2e / inhabitant

To stay below +2°, we must divide our footprint by 2050:

- By 2 on a global scale
- By about 7 or 8 on the scale of Switzerland





"Dematerialization is the first essential step in any sustainable development strategy".

Eric Boustouller, President, Microsoft France, October 2009

~ Birth of bullshit: 1kg CO2e in IT = 10kg CO2e saved elsewhere





Credit: Dillon Marsh

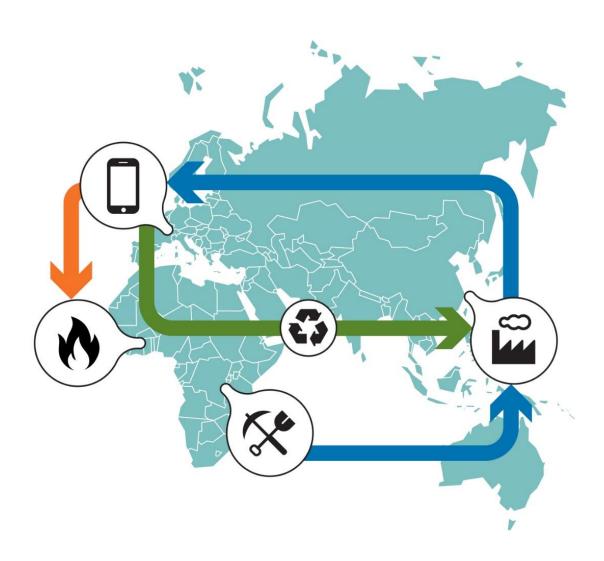
The digital universe:

World - 2019

- 34 billions devices
- 4.1 billions users
- 8 devices per person



Impacts occur throughout the life cycle





3 mains sources of impacts



DIGITAL FOOTPRINT

= Sum of the environmental impacts over the full life cycle









80%

15%

5%

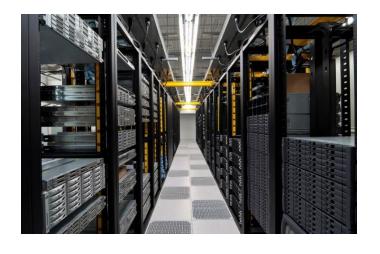
MANUFACTURING

USE

END OF LIFE









15%

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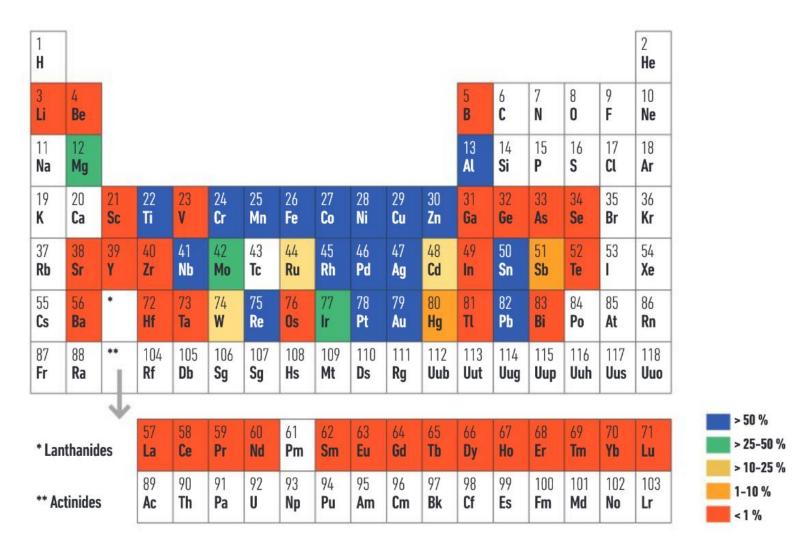
MANUFACTURING

USE

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Recycling: A solution?





Go virtual: Move to the **Cloud**

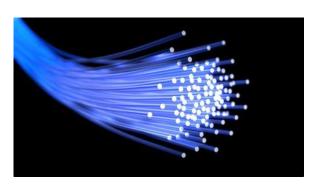
When your IT colleague thinks about the Cloud...





When you think about the Cloud...









When I think about the Cloud...



Can ecological & digital transformations converge?



1. Reduce my equipment ratio



SERIES 9

Smarter. Brighter. Mightier.

Learn more > Buy >



Equipment

2. Extend the life of my existing equipment



Energy sobriety

3. Switching off my boxes... and other devices



4. Limit cloud usage as much as possible, especially with 4G.





End-of-life

5. Bring back your old phones & devices

WEEE:

Waste of

Electrical and

Electronics

Equipments



High efficiency, low effort



- Keep your smartphone 2 years longer
- · Switch off and disconnect when not in use.

Low efficiency, high effort

- Delete my emails
- Change browser to use less electricity
- Reduce VoD and video usage while wired

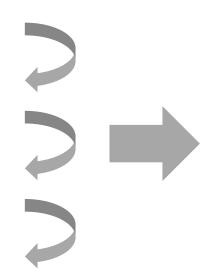




Eco-design of digital services

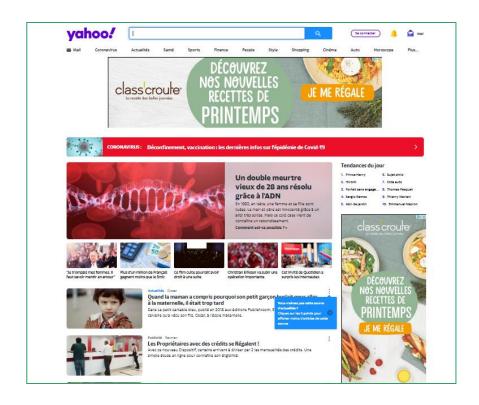
Review the **business needs**, because they:

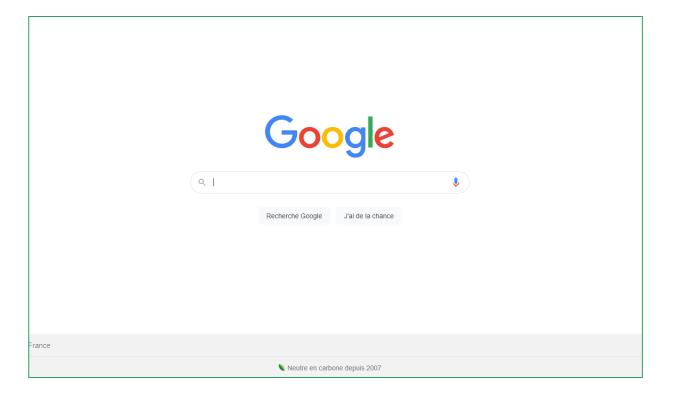
- size software and data
 - which size the devices
 - which dimensions the direct environmental impacts

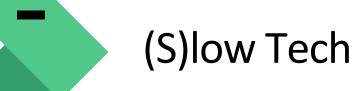


Reduce the amount of IT resources needed to run the services









The concept of frugal innovation:

Meeting specific needs with the least sophisticated & least expensive technological solutions possible, without compromising service levels.



What next?

If we want digital to be sustainable, we need to keep impacts under control...

And you can start, right now.



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