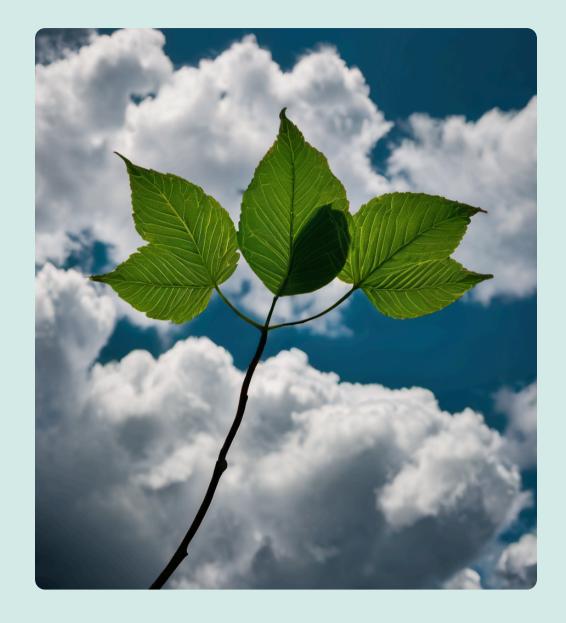


Leafcloud: Truly Green Cloud





Introduction to Leafcloud

Carbon Negative Cloud Provider

Leafcloud is a revolutionary cloud provider that goes beyond carbon neutrality to actively reduce carbon emissions. By rethinking the fundamental idea of IT infrastructure, Leafcloud has achieved a net negative carbon footprint.

Decentralized Server Placement

Unlike traditional datacenters, Leafcloud places its servers where heat is needed the most. By strategically locating servers in urban areas, Leafcloud uses server waste heat directly where it's used to heat tap water, assisting the green transition





Challenges to Digital Sustainability

Greenwashing by Big Tech

- Many big tech companies claim to be green or taking steps towards sustainability, but their actions often fall short of their promises.
- Greenwashing, the practice of making misleading or unsubstantiated claims about the environmental benefits of a product, service, or company, is prevalent in the tech industry.

Energy Consumption

- Al is leading to an increase in carbon emmsions from big tech, when their targets are to become net zero or negative in 10-20 years.
- Their record profits prevent them from taking corrective measures, and the market is not informed enough to see the holes in their arguments.

Dominance in the debate

- The way they present information makes it feel as if they are the cutting edge of what's on the market, while promoting industry standard or incremental improvements.
- The opaque (or lack of)
 reporting by providers means
 purchasers and regulators are
 unaware of the standards
 they should be demanding.



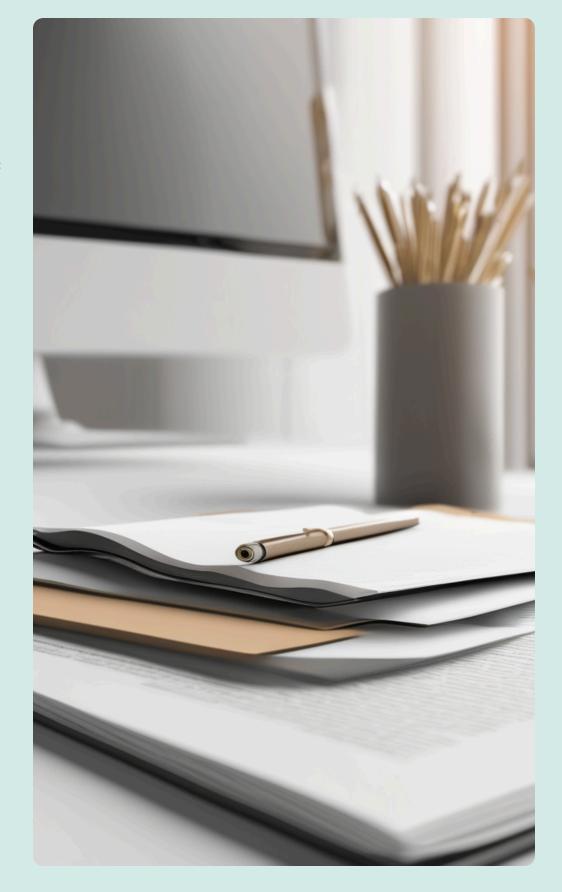
Writing Papers and Coauthoring Whitepapers

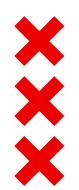
Strategy

To convince governments and large organizations of the non-sustainability of big tech, we need papers and whitepapers:

- 1. Identify the key issues: Analyze the current practices of big tech companies and identify the areas where their approach to sustainability is lacking.
- 2. Conduct research: Gather data where possible and conduct research to support these claims and provide evidence for the negative impact of big tech's approach to sustainability.
- 3. Write papers: Write papers that highlight the issues and propose alternative solutions for a more sustainable approach.
- 4. Co-author whitepapers: Collaborate with other experts and organizations to co-author whitepapers that carry more weight and influence in the industry.
- 5. Disseminate the papers: Publish the papers and whitepapers in reputable journals, conferences, and industry events to reach a wider audience and create awareness about the issues.

By following this strategy, we aim to raise awareness among purchasers, regulators, and executives, drive conversations, and push for change in the industry.





City of Amsterdam

The drama of (not) deleting data in the public domain

How to get rid of the "better safe than sorry" strategy



Who	What	How
Leonieke Mevius Sustainability Advisor IT Municipality of Amsterdam	Archive Law and the open Government Act are the main barriers why any public servant is hesitant to remove data, using the better safe then sorry principle. To be able to remove data a data removal strategy is needed. The strategy should at least contain a removal guideline, which should follow the law, for all types of data that exists within the municipality.	 Map the law restrictions to a data model Figure out the psychology behind the data removal anxiety Use AI to create data removal strategy Create a data classification model, with clear removal rules

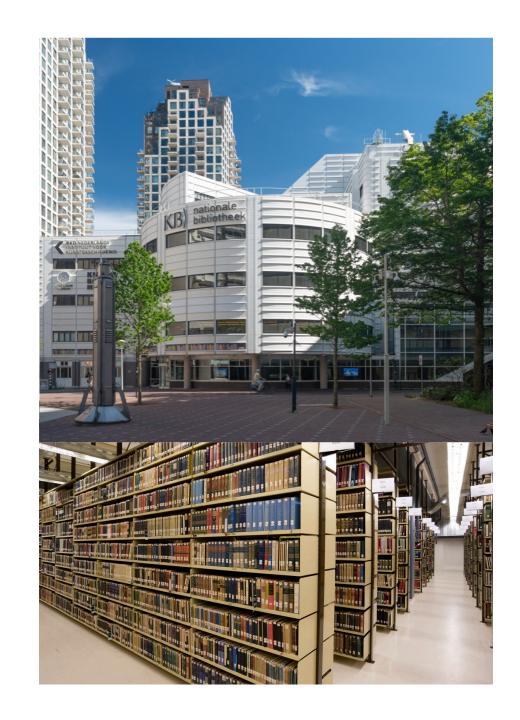
KB, National Library of the Netherlands

The library of the future ???

KB \ national library of the netherlands

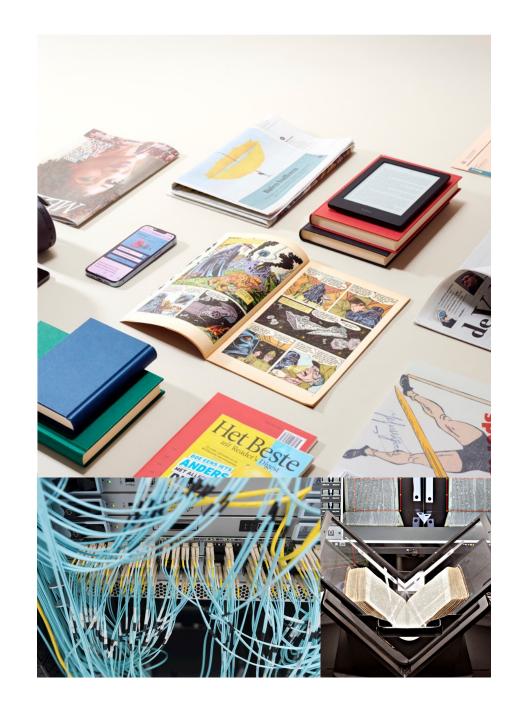
About the KB

- > 120 km of physical items
 - Newspapers
 - Books
 - Magazines
 - Others (posters, postcards, maps, ...)
- > 2 PB of data in the cloud
 - Digitised collections
 - Digital-only collections
- > 3 million Dutch users per year, online and visiting



Challenges

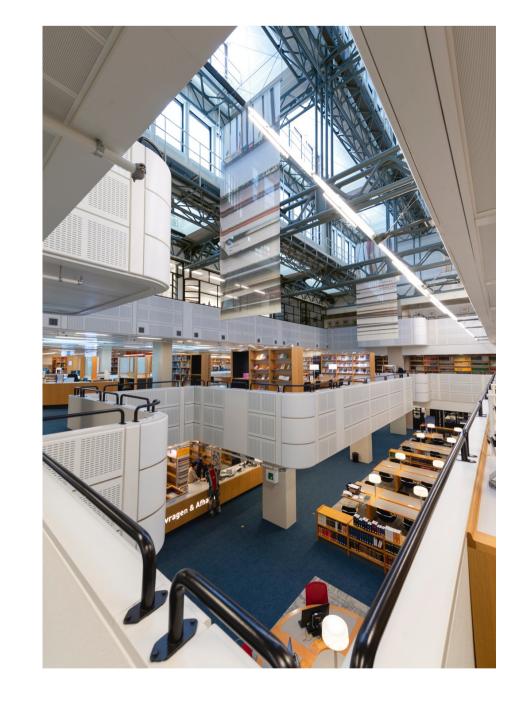
- Sustainability
 - Reducing energy usage (SDG 13)
 - Reducing waste from data centres (SDG 11 & 12)
- Accessibility (SDG 4, 10 & 16)
 - Digital and physical
 - Multi-modal (text & speech)
 - Special needs (impairments)



Help

- Optimisation
 - File size & storage
 - Processing power when digitising / OCR
 - Layered approach
 - Metadata creation
- Future proof
 - More accessibility
 - More sustainability
 - More services

GOAL: Optimal mix digital and physical collections



KB \ national library of the netherlands

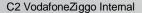


Industry Pitch IT & Sustainability

DISC - July 3, 2024

Prepared by:

Jannie Minnema



vodafone O ZIGGO

WHO ARE WE?

01 JULY 2024



Our brands





hollands nieuwe.







3.52 mln fixed services households



5.64 mln mobile Services customers



1.54 mln

households are customers with both Vodafone and Ziggo



6,791 employees with a permanent contract



6,054 mobile Transmitter masts



offices



100 stores

Our parent companies

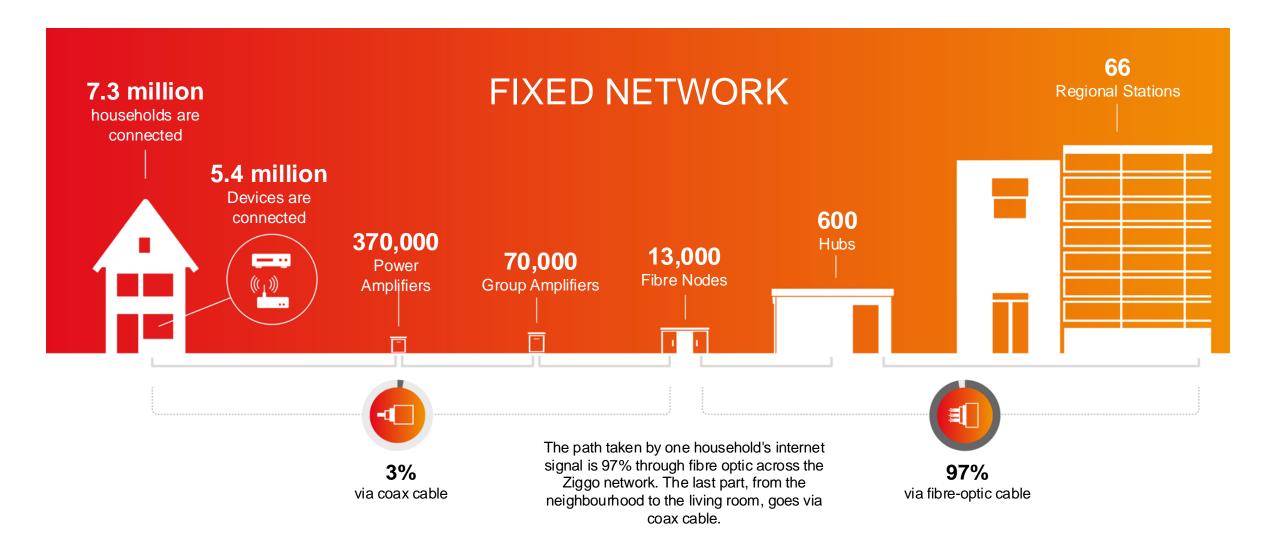


Liberty Global

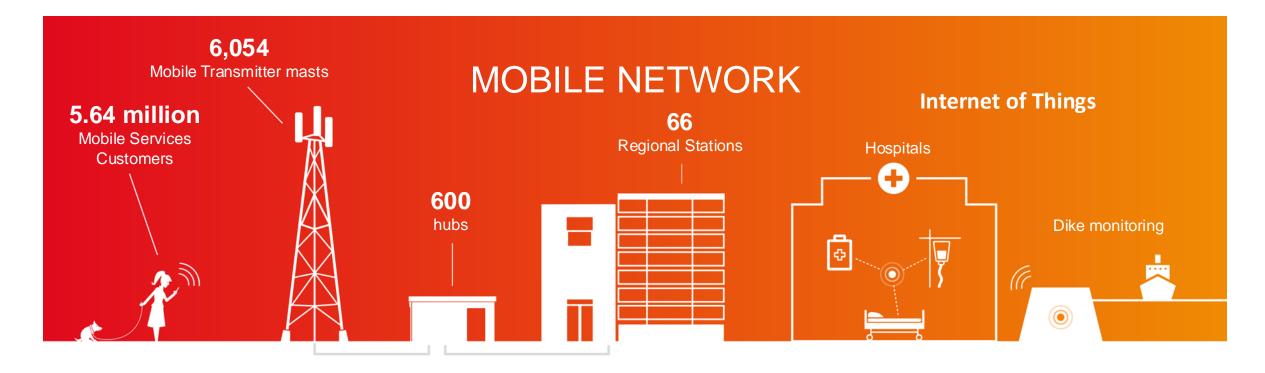


Vodafone Group

Network 2023



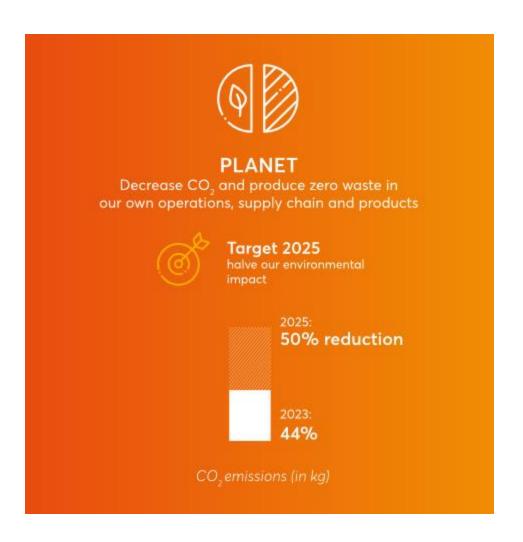
Network 2023



The connection of a mobile phone to our network is established via radio signals to the nearest antenna. VodafoneZiggo's antennas are installed on transmission towers or situating on top of tall buildings to ensure coverage across the Netherlands. A significant portion of the connection occurs underground, via the fixed network.

vodafone O ZIGGO WHAT IS OUR CHALLENGE? 01 JULY 2024

SUSTAINABILITY



Green coding as an element of a more sustainable IT landscape

There are a number of initiatives going on within IT with regard to making the IT-landscape more sustainable. One of these initiatives is green coding and this article explains what it is, what the current status is and what the plans are for the future.



Green coding is an emerging practice for developing an environmentally friendly IT-landscape. One aspect of green coding is carefully choosing and applying a programming language for a development. Different programming languages each have different properties for using a computer's computing power. By choosing the right programming language for a development, developers can reduce the amount of energy used by an application.

Programming language is energy efficient

CHALLENGES



AWARENESS AND KNOWLEDGE

Over time, with knowledge, insights and awareness the field will develop. Are we doing the right things (really?) and is everybody speaking the same language.



DATA QUALITY AND AVAILABILITY

What is it that we want to measure and is the data we need available?



MEASURE AND EXECUTE

What do we measure? Do we have a baseline? What do we execute on (and who is responsible)



LANDSCAPE COMPLEXITY

Working in a complex landscape – with many interdependencies and changes – we need to optimize the whole chain, for today and for tomorrow.

vodafone O ZIGGO

HOW TO HELP?

01 JULY 2024

HOW TO HELP



AWARENESS AND KNOWLEDGE

Insights and knowledge



DATA QUALITY AND AVAILABILITY



MEASURE AND EXECUTE

Share common practice



OZ

LANDSCAPE COMPLEXITY

Specific topics



Industry Pitch IT & Sustainability

DISC - July 3, 2024

Prepared by:

Jannie Minnema

