

How to kick-start your transformation towards Sustainable IT?

The journey of ABN AMRO Bank September 29th 2023 Vincent van Vliet, Jasper Behnken & Wiebren van der Zee

What would be your priorities for enabling sustainable IT within your organization? Top 5



Why is this transformation important?



Why this transformation?

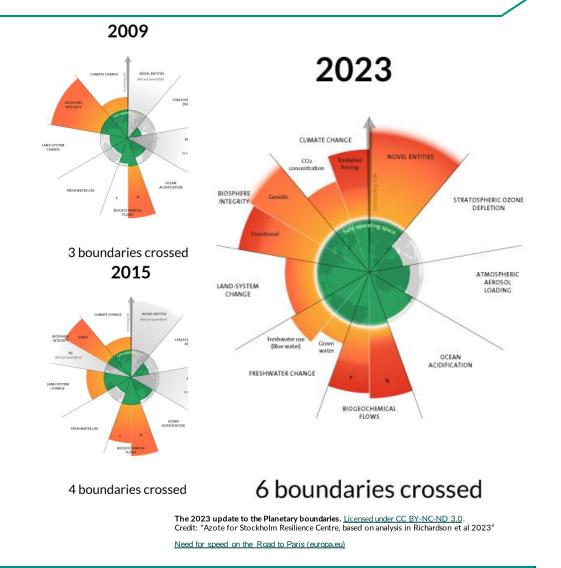
Climate Change + costs

Law and Regulation

- CSRD, CO2 reporting
- Critical material act
- EU Energy Directive
- Green Deal
- And more

Public opinion

ECB did a second economy-wide stress test. "...we need to start making changes soon. Procrastinating may be easier and less costly today, but means we will pay a higher price tomorrow: the damage to our environment and economies from rising temperatures will be much more severe. In fact, the sooner and faster we complete the necessary green transition, the lower the overall costs and risks." Luis de Guindos Vice-President of the European Central Bank



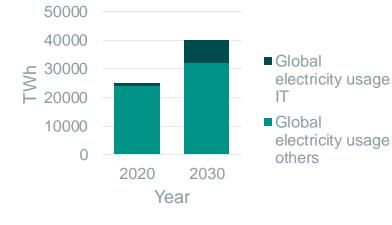


What is the environmental footprint of IT?



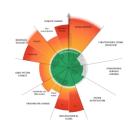
Environmental footprint of total IT Sector

Total share of global electricity usage by IT will expand from 4% to 20% by 2030, if IT consumption maintains current trend

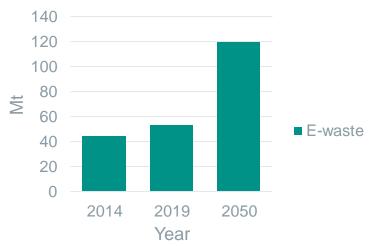


Global CO2 emissions 2020 comparison:

- Aviation 2,5%
- ICT 2,1-3,9%



E-waste will increase with 123% by 2050 compared to 2019, if IT maintains current trend



https://www.sciencedirect.com/science/article/pii/S2666389921001884

https://ourworldindata.org/co2-emissions-from-aviation

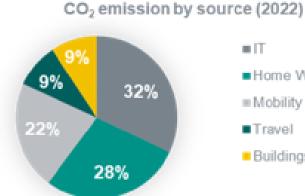
https://www.sciencedirect.com/science/article/pii/S2352186422002723

https://www.researchgate.net/publication/306120226_The_Internet_Explaining_ICT_Service_Demand_in_Light_of_Cloud_Computing_Technologies



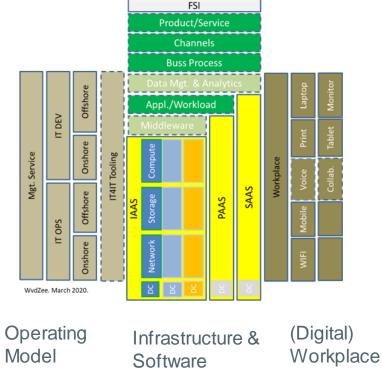
Environmental footprint of IT organization ABN AMRO Bank





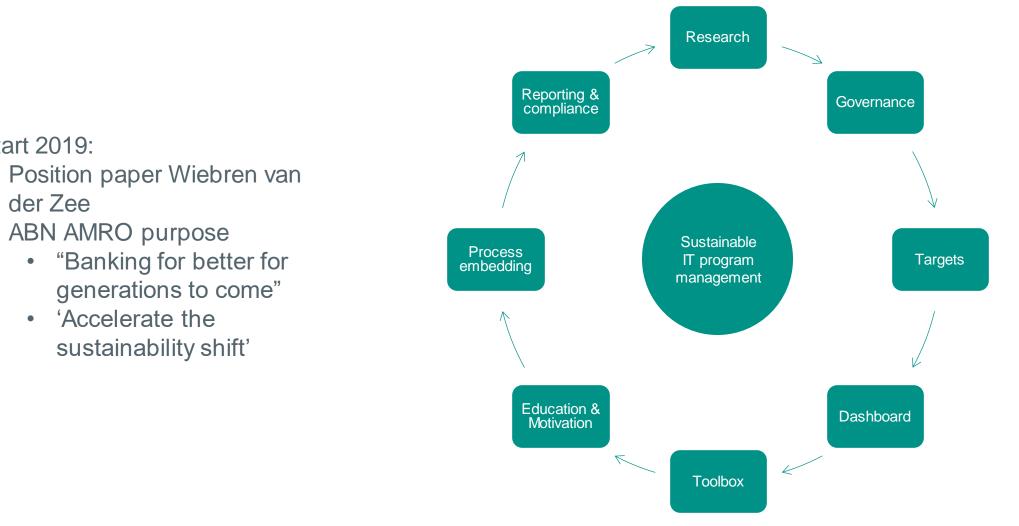


Buildings



ABN·**AMRO**

ABN AMRO Sustainable IT transformation categories





Start 2019:

der Zee

Our Journey so far What did we do so far and what were the results?



Program management

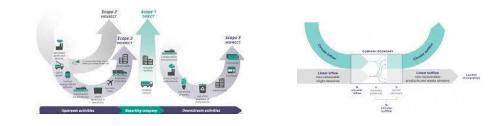
- Find experts, support & upskill them
- Build a dedicated team & provide ownership
- Create communities of intrinsically motivated IT
 employees

Jasper

- 1. What did we do?
- 2. Why did we do it?
- 3. What was the result?
- 4. Lessons learned



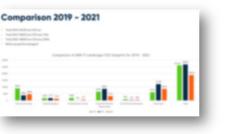
Research



Wiebren

- Protocols & Frameworks
 - GHG, LCA, CTI,...
- Baseline CO2 & Materiality
- Circularity analysis
- IT Sustainability Quality Model
 - Architecture (VU)
- Laws & Regulation



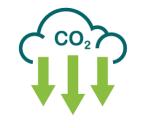




- 1. What did we do?
- 2. Why did we do it?
- 3. What was the result?
- 4. Lessons learned



Governance & Targets



Governance

- Sponsorship at Senior management
- IT Strategy

Targets

- CO2 reduction
- Circularity of materials
- Electricity reductions





Wiebren

- 1. What did we do?
- 2. Why did we do it?
- 3. What was the result?
- 4. Lessons learned



Dashboard

- Insight for IT teams; applications on-prem & cloud
 - Electricity
 - CO2



Questions:

Jasper

- 1. What did we do?
- 2. Why did we do it?
- 3. What was the result?
- 4. Lessons learned



Toolbox + Solutioning

Toolbox

Tactic Repositories

Solutioning

- IT Procurement & DW TCO Certified & Closing the loop
- Partnerships to exchange research, knowledge, education & solutions
 - Suppliers (Like Infosys, TCS, IBM, Capgemini, etc.)
 - B2B
 - VU
 - NCDD
 - SustainableIT.org



Wiebren

- 1. What did we do?
- 2. Why did we do it?
- 3. What was the result?
- 4. Lessons learned



Education & motivation

- Create awareness within IT Domains
- Content management & partnerships, gathering existing content
- Workshops: Digital Workplace
- Support programs IT cluster of teams: Education/Ideation > expert support > challenge period

Vincent

- 1. What did we do?
- 2. Why did we do it?
- 3. What was the result?
- 4. Lessons learned



Reporting & compliance

- Management Information
- ISO certification 14001
- IT as part of corporate reporting (and upcoming CSRD)





- 1. What did we do?
- 2. Why did we do it?
- 3. What was the result?
- 4. Lessons learned



Our future journey What is still to come?



Governance & Targets

- Establish KPI's lower in the organisation (process/application level)
- Define responsibilities throughout IT Organization

Jasper

- 1. What do we want to do?
- 2. Why do we want it?



Dashboard

- Adding Saas, predictive modelling, travel & commute, (digital) workplace, circularity of IT Assets
 - Electricity
 - CO2
 - Circularity of materials

Jasper

- 1. What do we want to do?
- 2. Why do we want it?



Research & Development

- As a service models
- Bill of materials of IT Assets
- Continuous Rightsizing
 - Infra
 - Data
- Responsible use of AI (VU)

Wiebren

- 1. What do we want to do?
- 2. Why do we want it?



Education & motivation

- Incentivisation / gamification to motivate IT employees
- Behavioural design
- Digital clean-up days, awareness programs
- Workshops: "How to lower your footprint in IT Development"
- Function specific educational content in IT curriculum
- Central platform education, research, tools & services (NCDD)

Vincent

- 1. What do we want to do?
- 2. Why do we want it?



Process embedding

 Sustainability as part of Architecture, DevOps, IT Procurement, etc. (IT4IT) processes

Wiebren

- 1. What do we want to do?
- 2. Why do we want it?





Panel (Wiebren, Jasper, Vincent)

Key personal advise



Key personal advise

- Jasper: Create insights & transparency
- Wiebren: Look at sustainability as an innovation opportunity
- Vincent: Invest in knowledge & content management across partnerships



What would be your priorities for enabling sustainable IT within your organization? Top 5



On which priorities would you be interested to collaborate?



Conclusion





Q&A + Contact LinkedIn

ABN AMRO Bank



Jasper Behnken



Sustainable Digitalisation LinkedIn group



NCDD



Vincent van Vliet



Karen van der Zande



Hannah Boute

Wiebren van der Zee



