

Sustainability on ABB's agenda

Empowering IS Sustainability Roadmap

IT Sustainability – Enabling Industries to Outrun Leaner & Cleaner

Upgraded targets and ambition under low-carbon society



TIME's "World's Most Sustainable Companies 2025 – ABB placed 14th

- ABB placed 14th globally on TIME & Statista's "World's Most Sustainable Companies 2025" list, and 3rd among all companies in Switzerland.
- The ranking evaluated over 5,000 of the world's largest companies on more than 20 sustainability indicators, across 35 countries and 21 industries.
- ABB achieved a sustainability score of 81.92/100, reflecting strengths in sustainable business practices, transparency, environmental & social stewardship.



The growing environmental impact of IT Global figures



40 billions IT devices



~ 8 devices per human



x4 impact in 15 years



4% CO₂ eq. emissions global 2020



IS sustainability

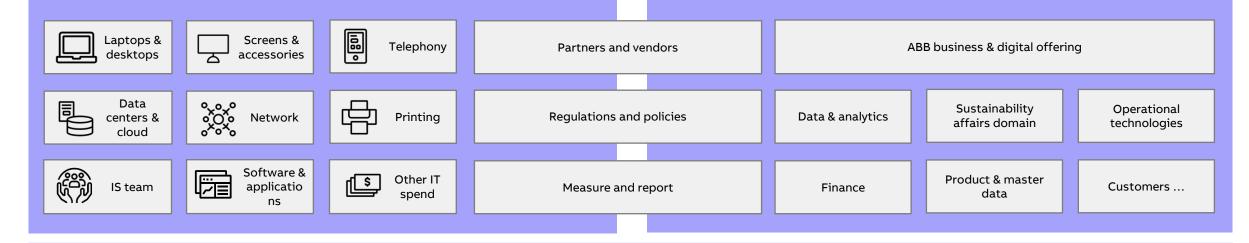
Framework



Align IS with ABB Sustainability targets and reduce IS environmental footprint

IS for Sustainability

Enable our businesses to achieve their sustainability targets



Sustainability Training & Awareness

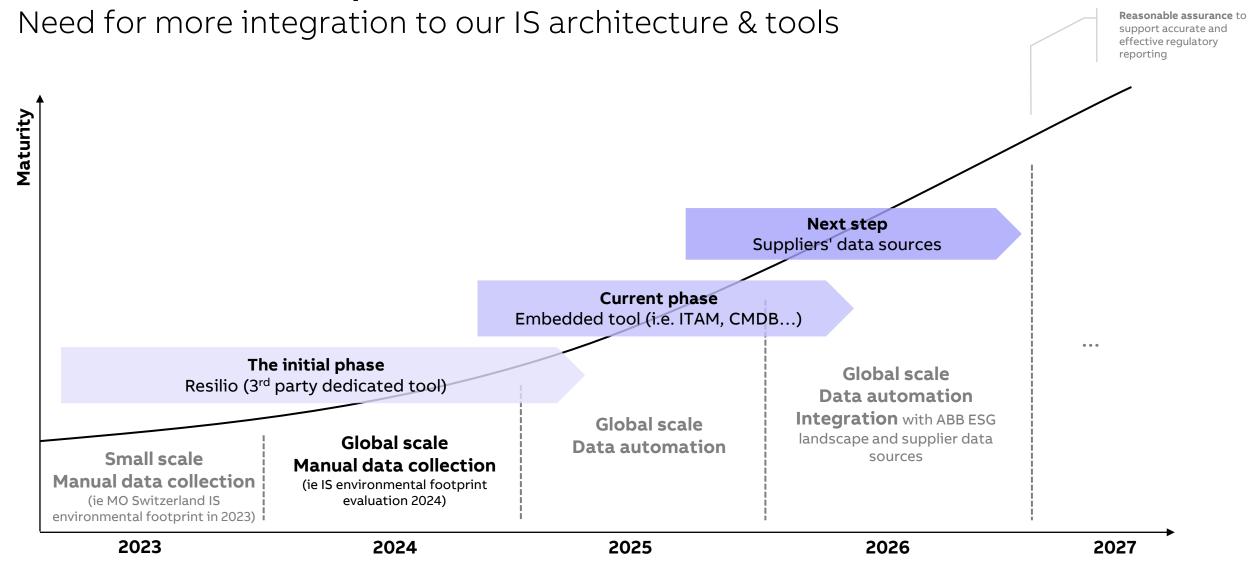
IS sustainability Roadmap & Governance



Mission to Zero in Digital Operations

Measurement is a crucial start to set the path

IS environmental footprint measurement





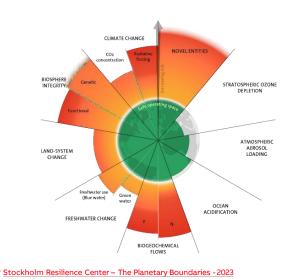
Measurement is a crucial start to set the path

Methodology

A multi-criteria approach

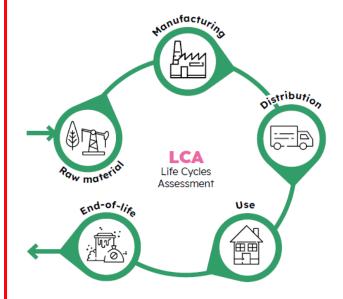
16 environmental impacts, in line with international standards

ISO 14040/44, EU PEF 3.0



A multi-phase analysis

On the entire lifecycle view



Maturity assessment

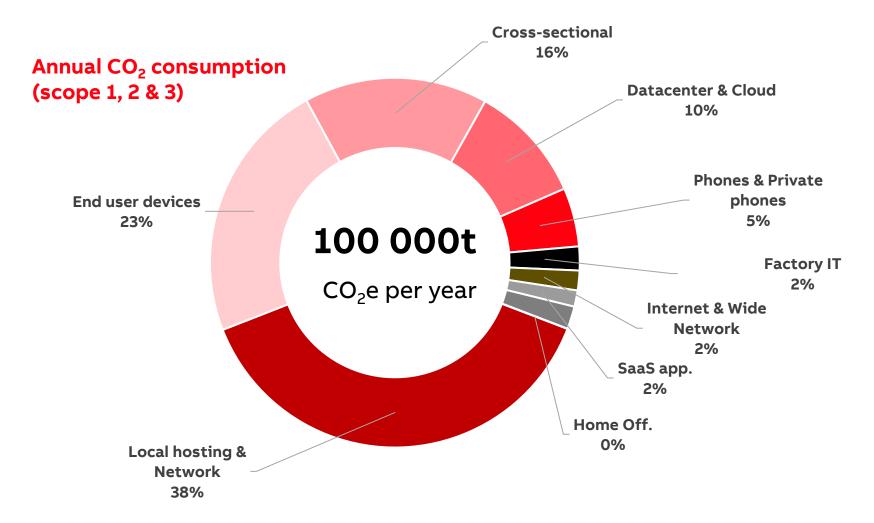
Assessment of your ability to apply 74 best practices





ABB IS environmental footprint

Key results



Additional resource usage



Abiotic Depletion Potential (ADPe) Resource usage equivalent to 7 smartphones disposed per year per user



Water use (WU) Freshwater usage equivalent to 18'200 Olympic-size swimming pools!



Measurement & evaluation

Maturity assessment

Overall scoring

- ABB average score = 2,2/5
- ABB grade on maturity benchmarking = C
- 1 domain have a score < 1,5/5



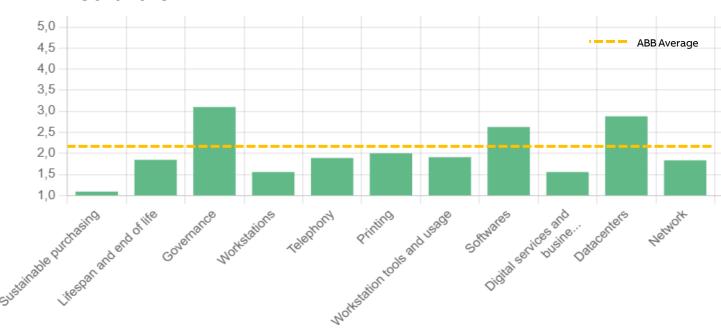
Comparison sample: Benchmark Green IT.fr and Resilio 2022 & 2023 & 2024. May contain entities with different size and business model

Most mature areas

- Governance
 Strong improvement compared to 2023's
 MO CH maturity assessment
- Datacenters
- Software

Least mature areas

- Sustainable purchasing
- Workstations
- Digital services



Top down Global initiatives

Examples of ongoing IS initiatives

IT Sustainable

Ongoing global initiatives



MEASURE

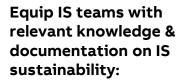
Increase data automation and granularity

Embed IS
environmental metrics
in existing tools (i.e.
ITAM, CMDB...) to
enable data driven
sustainability and
increased automation
level



TRAINING

Education as a change catalyst for our teams



- · Green IS eLearning
- Specific green IS pathways: software engineering, sourcing, etc.
- Community of practice & regular updates
- Dedicated events (ie learning week...)



DATA CENTER & CLOUD

#1 impact driver of IS environmental footprint

Co-create roadmap for sustainable IS hosting.

- Assess data centers energy efficiency and define improvements
- Embed sustainability in major projects and RFPs, including vendors relationship
- Evaluate cloud vs DC sustainability



END USER DEVICES

#2 impact driver of IS environmental footprint

Prolong PC lifespan from 3 to 4+ years to reduce IS emissions by ~1 800tCO2e/year.

Develop circularity, including monitors, PC & mobile phone repairability, as well as end of life process.

Test more repairable devices and **innovative** usage (i.e. BYOD, VDI...)



SOURCING

2/3 of estimated IS footprint is supplier driven

Co-create roadmap for sustainable IS procurement along with IS sourcing & VM teams.

Align key IS suppliers with ABB targets (25% reduction by 2030) and drive transparent reporting



IS FOR SUSTAINABILITY

Enable business sustainability targets

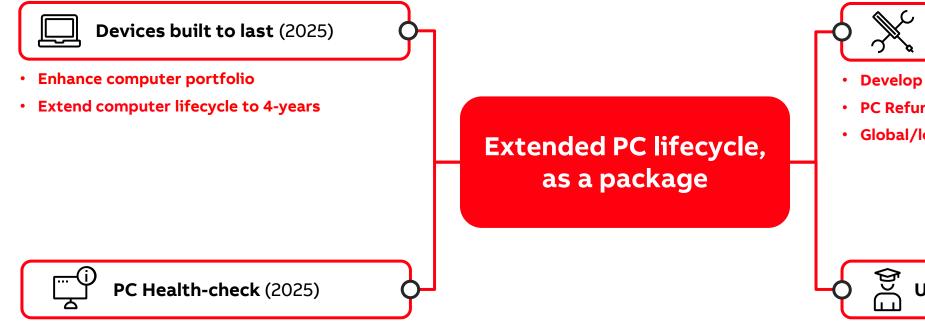
Deliver global sustainability data product (i.e. central warehouse) to set foundations for consistent & automated reporting

Define as-is and target business sustainability architecture to drive synergies across function and businesses.



Driving Circularity in IS

Extending Device Lifecycles, Preserving Resources





- Develop repairability
- PC Refurbishment
- Global/local green asset disposal process

User awareness & adoption

- Run UX research
- Awareness campaign for asset declaration
- **Enable sustainability transparency in order** catalogue



Leverage Nexthink

addressed

Ensure performance issues are properly

Use Case @ ABB - globally

Digital signature using Adobe Sign

68 000 kwh

of energy saved which is an equivalent to 100 500 days of refrigerator usage Monthly consumption statistics at

ABB

150 000 sheets paper would have b

of paper would have been printed which is an equivalent to a stack 15 meters high

4 800 kg

of wood saved kilograms reduced in waste production which is an equivalent to which is an equivalent to 2100 reams of paper

30 700 kg

of wood saved which is an equivalent to 217 trees that could have been cut down when processing manual transactions



Bottom up Local initiatives

Examples of ongoing IS initiatives

Sustainable IT – Everyone needs to contribute

Actions across ABB countries

Close work with the countries to identify possible actions

47

New actions identified to run between 2025 & 2027 TOP-5
ACTIONS

- Align IS suppliers with ABB's sustainable goals
- 2. Measure environmental efficiency in local data centers
- 3. Track IT equipment lifespan
- 4. Reduce number of monitors
- 5. Increase servers lifespan bu re-using for other purposes

~ 5,2 actions by country



Use Case: Sweden

From Air to Water: Smarter Data Center Cooling

The change

- High Performance Computing environment consuming ca 1000 MWh/year
- Transition from air-cooled servers to direct water-cooled servers
- Replace outside air cooling units with water-based heat recovery integrated into the building

The goal

- Higher energy efficiency improved cooling performance with 150 MWh (20%) less power usage
- Lower operational costs reduced electricity demand for fans and chillers
- Heat reuse 300 MWh recovered waste heat can be redirected to building heating systems
- Reduced carbon footprint lower overall energy consumption and emissions
- **Improved reliability** stable water-cooling reduces hotspots and temperature fluctuations



Use Case: Sweden

Sustainable Mobile Device Life Cycle Process

The process

- Asset register established of all mobile devices
- When you order a new company mobile, a smooth process for returning your old device is activated
- An automatic return order is created
- The old mobile is reused or recycled in a sustainable way (1000 phones/year)
- This helps to reduce environmental impact and promotes a circular economy

The goal

- Reduce the amount of electronic waste and conserve valuable resources.
- Contribute to creating a more environmentally friendly corporate culture
- Promote long-term sustainability in technology and business operations



Lessons Learned

& key challenges



1.

Strong Engagement but Long Journey Ahead

2.

Data Quality and Alignment Challenges

3.

Sustainability in Decision-Making

4.

Driving culture to enable sustainability by design



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