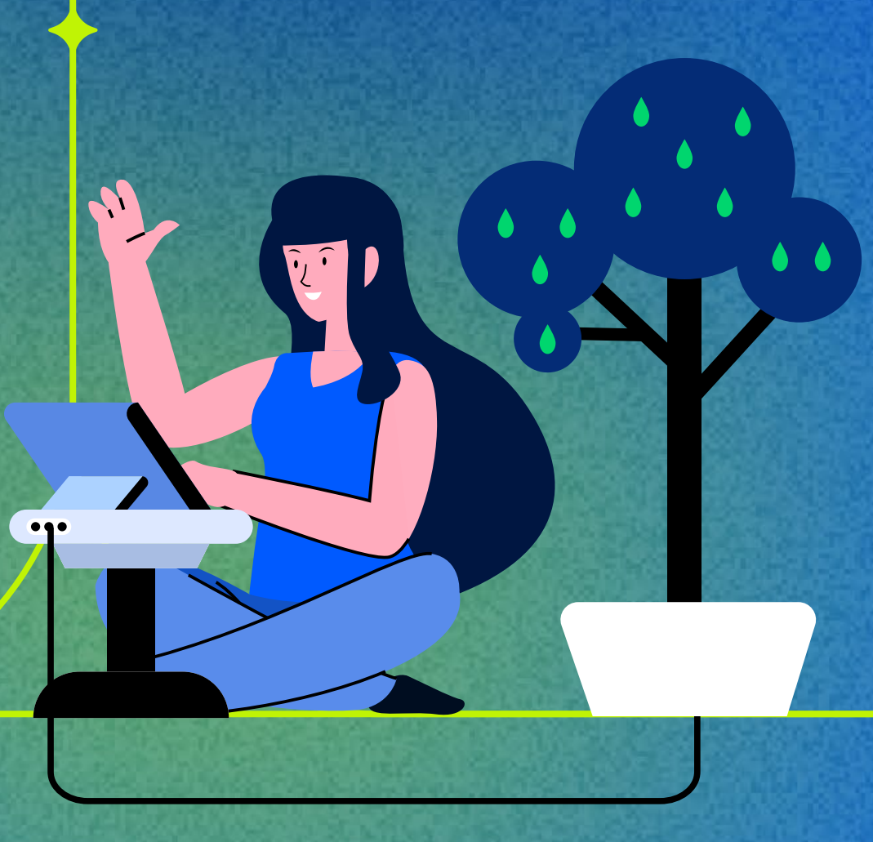
TECH FOR TOMORROW

DICONIUM

The roadmap to Sustainable IT



The digital and sustainable twin transition plays a key role for the future success of a company.

With global digital growth the significant carbon emission share of IT calls decision makers in tech for responsible climate action. A survey revealed that **72% of companies do not have a Sustainable IT strategy** with clearly defined goals and measures.

Our Sustainable IT Guide helps you to navigate towards a more Sustainable IT organization

What is Sustainable IT?

It includes measures that lead to a sustainable, resource-efficient IT infrastructure and software applications. This requires that the positive environmental impact is taken into account in strategic technology decisions.

Impacted domains:

PEOPLE DATA SOFTWARE INFRASTRUCTURE

Your journey starts here

Promote Sustainability Awareness

- Grow a sustainability mindset in your organisation.
- Use Digital Nudging to affect the sustainable behavior of customers.
- Share and celebrate your sustainability achievements.

84% of consumers worldwide say sustainability is important when making purchase decisions. [1]

Establish a Sustainable Design Manifesto

- Target a minimalistic and lightweight design of applications to simplify customer journeys.
- Prioritize and design features with consciousness.
- Make applications accessible and inclusive for everyone in order to promote social sustainability.

Gain transparency with Sustainability Data

- Define target KPIs to measure and track your sustainability goals.
- Identify the data source systems for your sustainability KPIs.
- Setup a reporting solution to fulfill the EU Corporate Sustainability Reporting Directive (CSRD).

89% of organizations recycle less than 10% of their hardware. [2]

Source and use hardware with responsibility

- Support circular approaches and energy efficiency certification standards in the hardware procurement process.
- Implement a device management solution for efficient hardware usage.
- Define a strategy for reuse, recycling and e-waste management of hardware.

Define a Sustainable Hosting Strategy

- Identify data saving potentials in your hosting landscape, such as cloud migrations.
- Use scalable cloud infrastructure with efficiency.
- Prefer "green hosting" cloud operations based on renewable energies.

55% reduction in carbon emissions from enterprise data centers can be achieved through cloud migration. [3]

Implement Green Coding Principles

- Design lean system architectures.
- Eliminate unused libraries, frameworks, scripts and redundant code.
- Reduce amount of requests, data load, and heavy graphic assets in your software applications.
- Introduce guidelines and trainings to skill up your Product Teams.

75% of technologists want to develop software applications that do less harm to the environment. [4]

Sources:

[1] https://www.ey.com/en_jp/consumer-products-retail/-make-sustainability-accessible-to-the-consumer

[2] https://www.capgemini.com/wp-content/uploads/2021/07/Sustainable-IT_Report-2.pdf

[3] https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/the-green-it-revolution-a-blueprint-for-cios-to-combat-climate-change

[4] https://www.salesforce.com/news/stories/green-software-research/

BENEFITS

Reduce carbon emissions

Increase cost efficiency

Improve software performance

Raise sustainability awareness

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