

MONITORING ESG

Digital Transformation and its Role in Sustainability

2024/27



Real-time insights and robust knowledge will inform better decisions to help us navigate risks and advance toward a more equal and sustainable world. «

Amina J. Mohammed

UN Deputy Secretary-General

[Link](#)

DIGITAL TRANSFORMATION AND ITS ROLE IN SUSTAINABILITY

What is digital transformation?

"Digital transformation is the rewiring of an organization, with the goal of creating value by continuously deploying tech at scale. A clear digital transformation strategy focused on specific domains and enabled by a set of specific capabilities is critical for organizations to not only compete but survive. Digital transformations are not a one-and-done project; most executives will be on this journey for the rest of their careers."

7 Aug 2024 · McKinsey & Company [Link](#)

The critical role of 'As-A-Service' models in decarbonizing the commercial and industrial sector

"Emissions and energy efficiency regulations are on the rise, and organizations in the Commercial and Industrial (C&I) sector are under intense pressure to invest in decarbonization measures. As companies are pushed to take accountability and action for their emissions, there are positive drivers they can leverage to accelerate their journey. New innovations in technology and 'As-A-Service' contracts help to initiate effective carbon reduction programs, and outcome-based models provide flexible financing options with performance guarantees. The impact of investing in decarbonization builds brand equity with consumers and attracts investors who are motivated by sustainability credentials."

2024 · Siemens [Link](#)

Sustainable Digitalization through Energy-Efficient Data Centers

"Data centers are crucial in the digital transformation of the economy and society. They are part of an ecosystem that makes communication possible via email, online shopping, smart production lines, and the use of artificial intelligence (AI) "Without data centers, there is no data; without data, there is no digitalization," emphasized Dr. Walter Fischeidick from the Hessian Ministry for Digitalization and Innovation at the Data Center Expert Summit 2024, hosted by the eco Association. The rise of digitalization and artificial intelligence has led to a significant increase in data volumes, driving up the demand for computing power – a tenfold increase in the last decade. Meanwhile, however, the energy consumption per gigabit in data centers was 12 times lower in 2020 than in 2010. This underlines the importance of implementing energy-efficient practices and technologies in data centers."

Aug 2024 · dotmagazine [Link](#)

How digitalization can drive sustainable supply chains in the least developed countries

"Digitalization has the potential to transform the way businesses achieve a triple bottom line – economic, social and environmental – to address the rising concerns of shareholders. One way to achieve this objective is to enhance transparency and meaningful integration of these dimensions into the entire supply chain, for which digitalization can be a powerful tool."

2 Sep 2024 · World Economic Forum [Link](#)

Digitalisation and sustainability: The Freiburg example

"Digital infrastructure should help address today's societal and environmental challenges. We support the purpose-driven, human-centric, sustainable vision for society in the digital decade. Freiburg adopts green technologies to support the transformative processes in cities and communities if they take place under sustainable, measurable, standardised, open and inclusive frameworks. Freiburg is making significant strides in recognising the twin transitions of digitalisation and sustainability and the need for these to be jointly addressed to create meaningful progress. Through a strategic combination of smart meter rollouts, environmental monitoring, intelligent traffic management, and last-mile logistics solutions, Freiburg tackles immediate urban needs while setting a long-term vision for sustainability and citizen engagement. Connecting agendas in this way to enhance urban quality of life positions Freiburg as a leader in sustainable city development."

23 Aug 2024 · Open access government [Link](#)

Around 42 Per Cent of Germans Believe that "Digitalisation Helps to Tackle Climate Change"

"Digitalisation is seen as an important lever for greater energy efficiency and sustainability. This is also the opinion of many citizens in Germany, as shown by recent surveys conducted by the market and opinion research institute Civey on behalf of eco – Association of the Internet Industry. According to the surveys, around 42 per cent of Germans believe that digital technologies can help in tackling the climate crisis.* When it comes to implementing the 17 UN Sustainable Development Goals, respondents believe that digitalisation has the greatest potential in the fields of sustainable industries and infrastructure (27.1 per cent) and affordable and clean energy (21.5 per cent). The surveys also indicate that digital technologies can contribute to goals such as creating more sustainable cities and communities (17.7 per cent) and implementing climate protection measures (16.6 per cent)."

28 Nov 2023 · eco [Link](#)



TOP 5 DIGITAL SUSTAINABILITY SOLUTIONS



PUBLIC CLOUD COMPUTING



INTERNET OF THINGS (IoT)



AI/ML MODELS



BLOCKCHAIN



VIRTUAL OFFICES

12 Jan 2024 – AIMultiple Research [Link](#)

BECEPTUM is a boutique consultancy focused on sustainable business and corporate development. Founded in fall 2019 with offices in Munich and Berlin, BECEPTUM integrates holistic sustainability management with the levers of corporate value creation. Through expertise and various services in the field of ESG, we accompany our clients in the operationalization of their sustainability strategy - from the appropriate management system to strategic partnerships and financing. With certified experts for LkSG and climate risks, regular ESG monitoring and an individual training offer, we are a reliable partner for our clients in all aspects of sustainability.

Contact



Szabina Altsach

Senior Manager & Head of Office Berlin

szabina.altsach@beceptum.com



Dario Schumacher

Consultant

dario.schumacher@beceptum.com

Imprint

Beceptum International GmbH

Office Berlin

Krausnickstr. 16
10115 Berlin, Germany

Office Munich

Trautenwolfstr. 5
80802 Munich, Germany

W www.beceptum.com

E info@beceptum.com