

Restoring trust in IT by being a responsible computing provider

Digital Innovation Challenge 2021

Christian Steinmetz

responsible.
computing ()





A series of challenges are impacting the world of computing today and need to be addressed in a holistic manner

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We are shaping ways to restore trust in IT by responsibly developing and applying technology and by sharing our experience with others.



Setting the scene

We see a series of challenges in the world that impact the future of computing:

- Sustainability and climate change
- The importance of secure and reliable computing emphasized by the pandemic
- Data security breaches and privacy leakages are making users wary of technology
- Social media tools are being used for toxic or misleading purposes

It is important to question the role IT plays in these challenges.

What is it?

responsible.computing () is a holistic approach to face these modern challenges around computing.

It integrates aspects of sustainability, climate, ethics, openness, privacy and security.

A framework with 6 key domains provides guidance on Key Performance Indicators and Pathways to become a responsible.computing () provider



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What is different?

Individual initiatives exist but with the United Nation's Sustainable Development goals, Environmental Social and Governance goals, industry regulation and increased system complexity there is a need to take a holistic approach

responsible.computing () acknowledges the importance of the individual subjects and embraces them by giving context and highlighting the relationships and interconnections between the six key domains.

Call to action

To make a difference we need to work together across multiple organizations.

The responsible.computing () council brings together leading organizations across industries to jointly collaborate and exchange ideas with peers.

responsible.computing() – influencing factors



Bosch carbon neutral plan

Four levers for climate neutrality

We have defined four levers to enable climate neutrality: firstly, to increase energy efficiency; secondly, to expand the supply of renewable energy; thirdly, to purchase more green electricity; and fourthly, to offset unavoidable CO₂ emissions with carbon credits. It is important for us to be climate neutral as early as 2020 and to continuously optimize the use and mix of our four levers by 2030 in order to make a significant contribution to climate action. In this way, we want to reduce the share of carbon offsets and green electricity from existing plants while further increasing energy efficiency and new clean power.

-  **Energy efficiency**
Improvement of energy efficiency
-  **New clean power**
Investment in new clean power
-  **Green electricity**
Purchasing green electricity
-  **Carbon offsets**
Carbon offsetting as a bridging solution



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Our new climate goal: Net zero greenhouse gas emissions by 2030

By Wayne Balta | 4 minute read | February 17, 2021

AI Ethics



IBM's multidisciplinary, multidimensional approach to trustworthy AI

Way to Zero: Volkswagen presents roadmap for climate-neutral mobility

- Extensive package of measures aimed at accelerating the sustainable production and use of electric cars
- The company aims to cut CO₂ emissions in Europe by an average of some 17 tons per vehicle by 2030, 40 percent less than in 2018
- Investment of 14 billion euros in decarbonization by 2025
- Green electricity for vehicle's use phase: Volkswagen is the first car maker to support the extensive expansion of wind farms and solar plants in Europe
- Sustainable production: Electricity for plants in Europe and North and South America to be switched to renewables by 2030
- Ralf Brandstätter, CEO of Volkswagen: "Volkswagen stands for sustainable e-mobility for all – from production through service life to recycling."

<https://www.volkswagenag.com/en/news/2021/04/way-to-zero--volkswagen-presents-roadmap-for-climate-neutral-mob.html>



Berlin / Wolfsburg, 2021-04-29



ECB publishes final guide on climate-related and environmental risks for banks

27 November 2020

- ECB publishes final guide after considering comments from public consultation
- Banks to perform self-assessment on ECB expectations in early 2021
- ECB to fully review banks' practices in 2022
- Next supervisory stress test in 2022 to also focus on climate-related risks
- Separately, new ECB report shows that banks' climate-related and environmental risk disclosures lag behind significantly

The European Central Bank (ECB) today published its final and amended [guide on climate-related and environmental risks](#) following a public consultation. The guide explains how the ECB expects banks to prudently manage and transparently disclose such risks under current prudential rules.



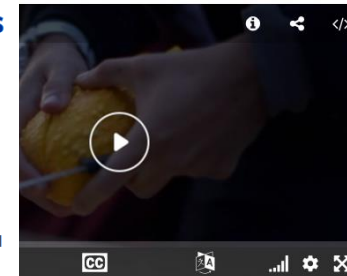
EN English

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A European Green Deal

Striving to be the first climate-neutral continent



Climate change and environmental degradation are an existential threat to Europe and the world. To overcome these challenges, the European Green Deal will transform the EU into a modern, resource-efficient and competitive economy, ensuring:

- no net emissions of greenhouse gases by 2050
- economic growth decoupled from resource use
- no person and no place left behind

The European Green Deal is also our lifeline out of the COVID-19 pandemic. **One third of the 1.8 trillion euro** investments from the NextGenerationEU Recovery Plan, and the EU's seven-year budget will finance the European Green Deal.



The challenge

responsible.computing() - Building responsible code

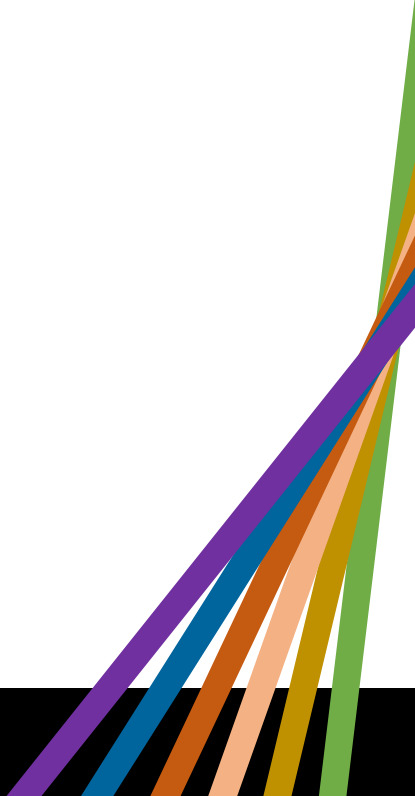
A decorative graphic in the bottom right corner consisting of several overlapping, diagonal lines in various colors: purple, blue, orange, yellow, and green, all pointing towards the top right.

Your contact in case of questions

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