



# Visualization as a Tool to Enhance the Transparency of ICT Data Sharing

## Project Overview

This project is a pioneering initiative aimed at enhancing the adoption of the Circular Economy (CE) within the Information and Communication Technology (ICT) domain at TU Delft. The focus is on addressing data privacy challenges, particularly in the context of laptop hardware and organizational device management. The ultimate goal is to support AI processes such as predictive maintenance, which require laptop-specific data, often categorized as personal data.

## Key Findings

The research and design process led to several key findings. The user interface design, which aimed to simplify the comprehension of consent for data sharing, was well-received by users. It successfully promoted data sharing, consent requests, sustainability, and data privacy. However, there are areas that need further improvement, particularly in enhancing understandability, improving awareness, optimizing incentives, and improving the user experience.

## Introduction of the Final Design

The final design is a user interface that visually articulates informed consent for ICT data sharing for CE processes, such as laptop repair, reuse, and return. The design incorporates elements of transparency and user-friendliness, aiming to motivate research staff to actively participate in data sharing. It also highlights the sustainability benefits of data sharing and offers incentives for informed consent, thereby contributing to sustainability efforts within the organization.

## Conclusions

The project culminates in a user interface that not only addresses the immediate needs of data privacy and consent but also contributes to the broader goals of sustainability within ICT services. It provides valuable insights into the interplay of data privacy, user experience, and sustainability, opening avenues for future exploration and research. The project serves as a stepping stone towards a more sustainable future in ICT services, where data privacy is respected, and informed consent is the norm. It invites further exploration and research to refine and expand upon the strategies and insights uncovered.

*For an interactive experience of the final user interface design, kindly scan the QR code provided. For optimal viewing, it is recommended to use your laptop's browser.*

