

Funded DFF Projects

2023 Call – Award Date 2

**President's Office**

ZHAW digital

ZHAW digital congratulates the following projects for having been selected in the second award date of the 2023 DFF Call. Projects are listed alphabetically by title and as submitted.

Impact Projects

Applied Blind Hiring @ ZHAW

Chantal Menzi

Es werden ein Feldexperiment und Interviews zu Blind Hiring (anonymer Bewerbungsprozess) an der ZHAW durchgeführt. Ziel ist es zu prüfen, wie Führungspersonen im anonymen Selektionsverfahren ein digitales Bewerbungsprofil in zwei Varianten (blind vs. nicht-blind) beurteilen.

Digitalization guide for Repair Cafés

Valerio Stallone

We aim to create a guide to digitalize Repair Cafés. This decentralized network of peer-to-peer repair support promotes sustainable consumption and production. With our guide we aim to leverage technology to expand their reach, streamline the repair process, and reduce environmental impact.

Greenhushing versus Greenwashing - a digital communication guideline

Helen Vogt

The goal is to develop a science-based digital guideline for companies and organisations to communicate their sustainability efforts credibly and effectively. This will help companies demonstrate their commitment to sustainable business practices, attract responsible investors and engage employees.

Maternal Care in Rural Zimbabwe: Exploring Remote Monitoring Potential

Shannon Vlahakis

The continuum of care needed for management of pregnancy-related morbidities, such as continuous vital sign monitoring, is largely unavailable in resource poor environments. This study will assess the feasibility and acceptability of using wearable biosensors for remote patient monitoring in Zimbabwe.

Transformationen digitaler und physischer Räume von Jugendlichen

Anke Kaschlik

Als digital Natives nutzen Jugendliche selbstverständlich digitale (Social Media, Games etc.) und physische Räume (Parks, Jugendräume etc.) oftmals gleichzeitig und unbewusst. Was bedeutet das für die nachhaltige Entwicklung von Städten?

Funded DFF Projects

2023 Call – Award Date 2

**President's Office**

ZHAW digital

Waste Action Solution

Gianluca Galeno

Waste on land, at sea and even in the air is a pressing global problem. To address this challenge, this Digital Futures Fund will be used to develop a Waste Action Solution. Such a mobile app helps the user to create transparency and reduce its personal waste footprint across different materials.

Innovation Projects

Artificial Intelligence for Myoelectrically Controlled Cooperative Arm Prostheses: A proof-of-concept Study

Sara Frey

Replacing the function of a missing hand is complicated. There is great progress with myoelectrically controlled prostheses (MCP). However, control of MCPs is still cumbersome and not intuitive. Our overall aim is to improve control of an upper limb MCP with the help of artificial intelligence (AI).

Dark Energy: Accurate estimation and awareness of cloud-induced power consumption by digital workers

Josef Spillner

Phones and notebooks do not require much power? Wrong, most usage patterns involve the heavy use of cloud services. In contrast to device consumption, the extent of this indirect consumption is unknown to users. This project delivers a tool to trace cloud use and convey a CO2 equivalent to the user.

Ein Blick in die Zukunft: Stadtplanung für alle mit dem öffentlichen digitalen 3D-Stadtmodell von Winterthur

Maxime Zaugg

Das DFF 2023-Projekt sieht vor, das digitale 3D-Stadtmodell von Winterthur für die Öffentlichkeit zugänglich zu machen. Über eine Website können Bürgerinnen und Bürger ausgewählte geplanten städtebaulichen Transformationen einsehen und sich aktiv an Diskussionen zur urbanen Entwicklung beteiligen.

GAMMA: Grid friendly use cases via load disAggregation solutions with low-rate sMart Meter data

Artjoms Obusevs

The Project addresses the development of an advanced load disaggregation tool, focusing on smart meter readings at 15 min resolution. Different disaggregation solutions will be investigated and methods providing better performance will be chosen for advanced metering infrastructure and grid support.

Funded DFF Projects

2023 Call – Award Date 2



President's Office

ZHAW digital

Outbreak Analysis for Antimicrobial Resistance Bacteria

Stefan Glüge

The rapid spread of antibiotic-resistant bacteria seriously endangers healthcare facilities and warrants strengthening of infection control practices. We will develop a novel method for outbreak analysis and management based on a time-dynamic graph of transmissions.

Roomatch: Increasing building utilisation by smart room finding

Panagiotis Gkikopoulos

The growth of the population and of ZHAW leads to higher room space needs and to unsustainable construction of more buildings. A better approach is maximising the room utilisation in existing buildings. This project investigates smart occupancy monitoring and room recommendations as a solution.