



**Category:** Development and Implementation of Technology

**Workshop Title:** Holistic development and implementation of rehabilitation technologies

**Workshop Organizer(s):** Eveline Graf & Martina Spiess

**In person Speaker(s):**

- Spiess, Martina, ZHAW Zurich University of Applied Sciences
- Graf, Eveline, ZHAW Zurich University of Applied Sciences
- Lena Sauerzopf
- Gernot Greimler

**Workshop Time:** 16:00 - 17:30

**Attendee Engagement:**

Participants will analyze the target groups by doing interviews with patients and clinicians, work together in small groups with experts and present their solution.

**Abstract:**

To create highly usable and accessible rehabilitation technologies that solve real-world problems and reach their target population, we need to focus on the patient's needs in each phase of the design process and ensure that all relevant disciplines are involved in the development and implementation. It is through messages that patients and relatives will be informed, convinced, and motivated. User-centered design (UCD) puts people first. Focusing on strategic communication and incorporating health economic aspects brings products to the people. The workshop aims to give you insights into a holistic approach to technology development.

Within the workshop, we will work on real-life examples provided by patients, clinicians, and industry. We will utilize the double diamond model to discover the patient's needs, strengths, and aspiration to develop user-centered rehab technologies in a collaborative and iterative process. In parallel, we will identify key aspects for strategic communication. In a first step we analyze the target groups, and then we develop for a prioritized target group key message. In addition, we look at cost-effectiveness analyses as means to reach the goal of relevant and usable rehabilitation technologies. We will examine the most important health economic aspects. By comparing the costs and effects of a new technology with those of existing technologies, we will gain insight into cost-effectiveness calculation. At the end of the workshop, we will combine the results from the different topics and gain a holistic view over the entire development and integration process of rehabilitation technologies that reach their target population.