UNIVERSITY CENTRE FOR ENERGY EFFICIENT BUILDINGS CTU IN PRAGUE

A Reliable Partner for Assistive Technology Research and Standardization

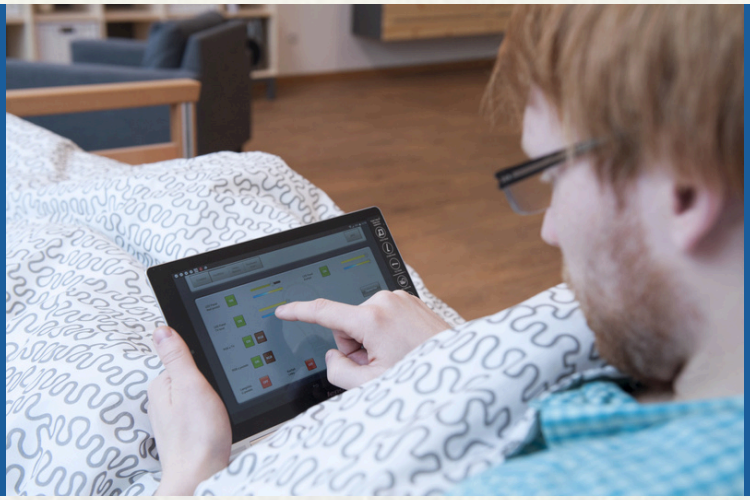
Department of Assistive Technology

University Centre for Energy Efficient Buildings CTU Prague

Buštěhrad, Czech Republic

Who are we?

We are a multidisciplinary research team within the University Centre for Energy Efficient Buildings (UCEEB) at the Czech Technical University in Prague. Our focus lies in the development, evaluation, and integration of assistive technologies into everyday lives of clients and workers in social health care services. We bridge the gap between engineering and user needs by incorporating the perspectives of both formal and informal care environments.



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What do we offer to a HORIZON EUROPE consortium

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Development and testing of assistive technologies
– in a realistic living lab simulating home environments
– with active involvement of end-users and caregivers throughout the process

User and operational research
– identifying user needs, assessing usability and service integration
– evaluating compatibility with existing care infrastructures

Methodology development and validation
– assessing usability, sustainability, and technical feasibility
– designing tools to support technology selection tailored to different service types and user profiles

Contribution to European-level standardization

We aim to contribute to **harmonized European standards** for selecting and implementing assistive technologies. Our vision is to provide clear, validated, and context-aware tools that enable care providers and informal caregivers to identify and adopt solutions that are functional, sustainable, and seamlessly integrable into existing systems.

Our Strengths

- **Experience as a partner in 13 Horizon Europe projects**
- **Multidisciplinary team** combining expertise of engineers, doctors and care professionals
- A dedicated **living lab** replicating real household conditions
- **Expert** evaluation combining user experience, technical assessment, and service impact
- Extensive **testing base** involving **target user groups**, including older adults and people with disabilities.
- Proven **experience in participatory design** and inclusive development
- Long-standing participation in **national and international projects** focused on care technologies



