

e-VITA Project Introduction EU-JP Webinar 2023





Partner Overview

Geographical distribution











Project - Objectives Socio-Technical System with Robots, Smart Devices and Trustworthy AI







- Objective 1: Develop a <u>set of standards and norms for interoperability</u> of advanced IoT,
 NLP and AI based smart living technology in Europe and Japan
- <u>Objective 2:</u> Develop an <u>advanced intercultural virtual coach</u> with seamless integration of smart living technologies, advanced AI and tailored dialogue interaction
- Objective 3: Enable smart living support and <u>tailored AHA interventions</u> for physical, cognitive, emotional, and social wellbeing of older adults in real-life settings in Europe & Japan
- Objective 4: Propose and design <u>practice-based ICT tools</u> to empower older adults to experience
 ageing as a positive process and meaningful period of life
- <u>Objective 5:</u> Conduct a <u>proof of concept study</u> to assess user acceptance in real-life environments from different countries and cultural backgrounds (EU/JP)
- <u>Objective 6:</u> Explore the feasibility of a <u>new ecosystem for disruptive innovations</u> of AHA coaching and incubation of SMEs and NGOs in Europe and Japan

Needs-based approach

Target variable well-being









Autonomy

»I can do what I want the way I want it«



Security

»I'm safe from threats and uncertaincies«



Competence

»I'm good in what I do«



Stimulation

»I was experiencing new activities«



Relatedness

»I feel close to the people I care about«



Physicalness

»That my body was getting just what it needed«



Popularity

»I have impact on what others do«



Meaning

»I feel a sense of deeper purpose in life«

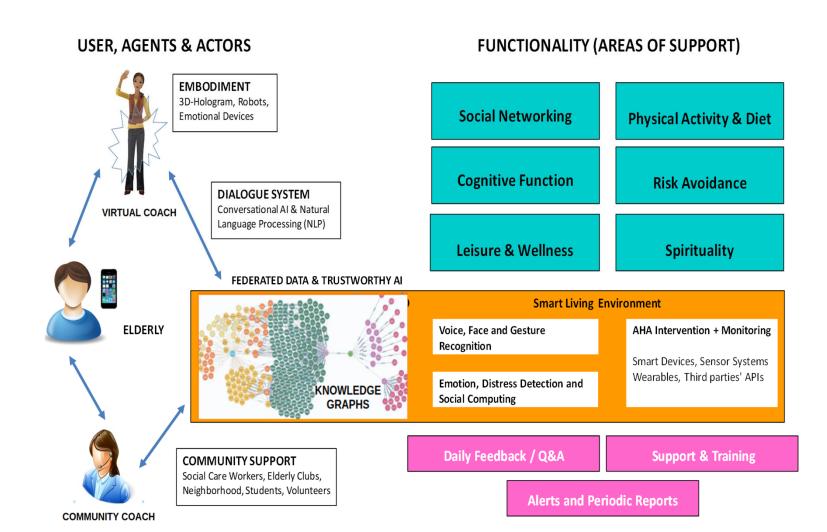
System Overview

Socio-Informatics System









Intelligent devices

Shape of the Assistant









Video Human-Robot-Interaction

Short Presentation and Interactive Sessions









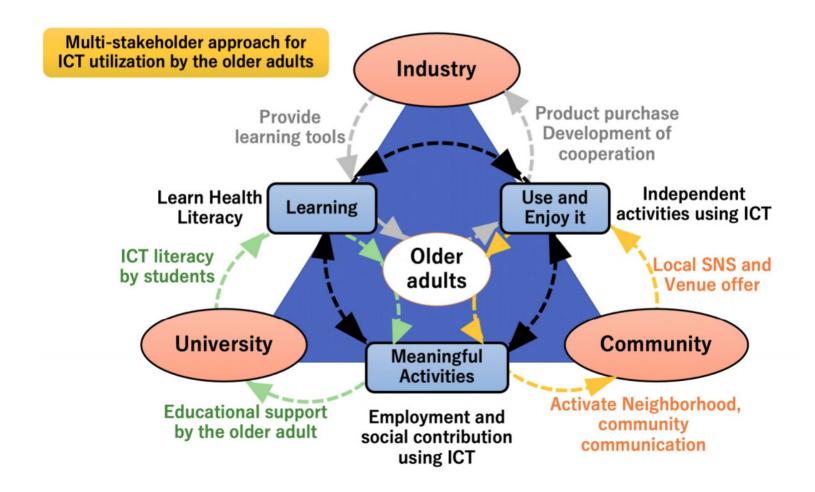
Social Engagement

Involving local actors & communities









Proof of Concept Study

International RCT: Study Sites & Arms





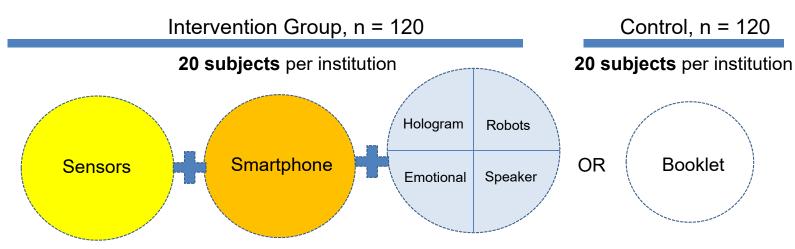






Methods:

Randomized Controlled Study 6 months, total 240 participants



(30 subjects in total per quadrant)

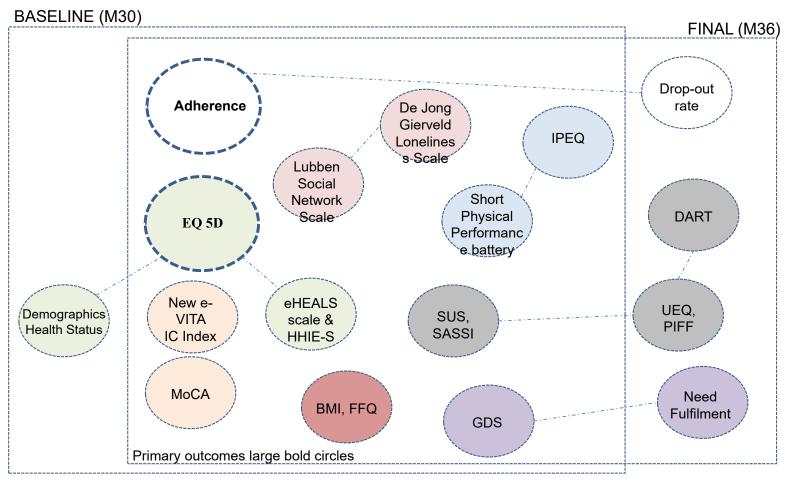
Proof of Concept Study

International RCT: Methods









ADHERENCE HEALTH PHYSICAL COGNITION SOCIAL EMOTION NUTRITION TECHNICAL

Project - Impacts Societies, science, industry and health







- Independent living, and <u>improved quality of life</u> of older persons compared to the current
 State of the Art
- Usefulness and effectiveness of personalized recommendations and follow-up in terms of goals of <u>preserving physical</u>, <u>cognitive</u>, <u>mental and social wellbeing</u> for as long as possible
- Evidence of <u>user-centred design and innovation</u>, effective ways of human computer interaction, and user acceptance
- Fostering <u>social participation</u> and reducing social exclusion's risks of older adults
- Validation of <u>non-obtrusive technology</u> for physical, cognitive, social and mental wellbeing
- Strengthened <u>international cooperation</u> in research and innovation on Smart Living for AHA

Project - Contacts

Project offices in Europe and Japan







Dr. Rainer Wieching

Business Informatics and New Media
University of Siegen
Kohlbettstr. 15
57068 Siegen
Germany

<u>rainer.wieching@uni-siegen.de</u> <u>www.wineme.uni-siegen.de</u>

Dr. Toshimi Ogawa

Smart aging research center
Tohoku University
City of Sendai
Miyagi
Japan

toshimi.ogawa.e6@tohoku.ac.jp www.idac.tohoku.ac.jp

www.e-vita.coach