Partnership

Institut für Lern-Innovation
FAU Friedrich-Alexander-Universität Erlangen-Nürnberg
www.ili.fau.de

DCU Ollscoil Chathair Bhaile Átha Cliath Dublin City University
www.dcu.ie

ASSERTED KNOWLEDGE THE ICT EQUALISERS
https://asserted.eu

ATERMON EDUCATIONAL PLAY
https://atermon.nl

E-seniors
https://www.eseniors.eu

die Berater ZUKUNFT LERNEN
https://dieberater.com

KOMICHA
https://komicha.eu

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SmartHome4SENIORS

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SmartHome 4SENIORS

Smart Home automation for older people using simple DIY solutions

https://sh4seniors.erasmusplus.website

About the project

SmartHome4Seniors is a project funded by the European Commission under the Erasmus+ Programme to support adult education. It deals with Smart Home automation for older people using simple DIY solutions.

Objectives

- Simplifying daily routines for seniors and improving their safety and security through hands-on approaches.

- Designing an educational program that incorporates engineering, electronics, DIY creations, digital skills, and soft skills specifically for older adults.

- Providing policy and research recommendations for the use of hands-on learning in older age groups.

- Enhancing the ability of educational institutions and adult training centers to offer inclusive digital education for all age groups.

- Establishing a virtual academy to foster collaboration, exchange of good practices, and ongoing development of project outcomes.

Central Activities

1. State-of-Play Framework: Research of the current situation on existing smart home solutions and applications for seniors available in the EU.

2. Kit & Guide: Design and development of a Kit based on a Raspberry Pi Pico microcontroller and a Learning Motivation Environment to guide older learners for their DIY solutions.

3. Web Application: Design and development of a web application for older people with personalised training paths.

Results

A. SmartHome4Seniors Kit which is a box comprising of a wooden house model and electronic components, accompanied by a user manual.

B. Open Educational Resources embedded in an online environment. The following 11 tutorials were developed and supplemented by an accompanying guide: Understanding Smart Home, automatic garage door, automatic entrance door, music doorbell, smart lights, smart temperature thermostat, smart smoke alarm system, smart rain detection system, smart air quality detection system, smart security system, smart monitoring system

C. Software: SmartHome4Seniors Web Application

D. Virtual Space: SmartHome4Seniors Academy