Needs Validation Phase

The consortium identified the needs of the over-55s in terms of ICT skills, their willingness to get involved in DIY and intergenerational activities, electronics DIY and smart homes. For this purpose, a questionnaire was developed and distributed. Here are some of the questions & answers :
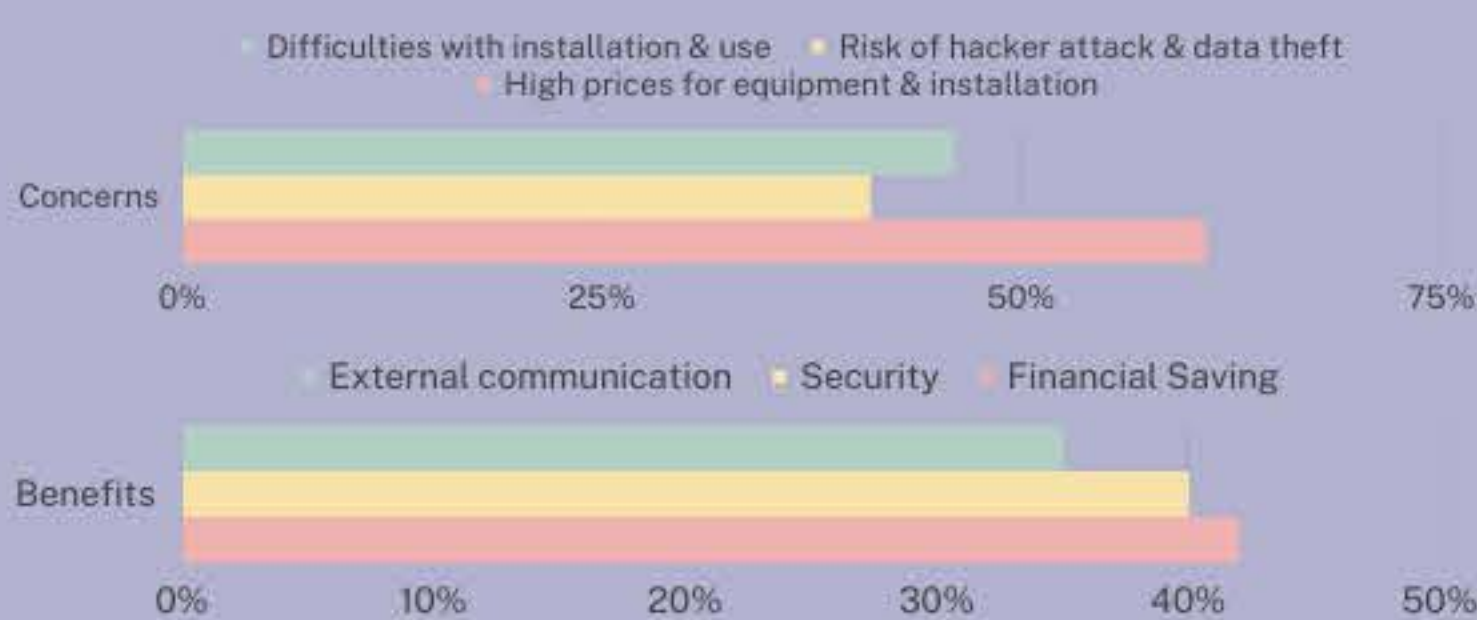
DATA 1

Of the **158 people** over 55 who responded to this questionnaire, **42% are men** and **58% are women**
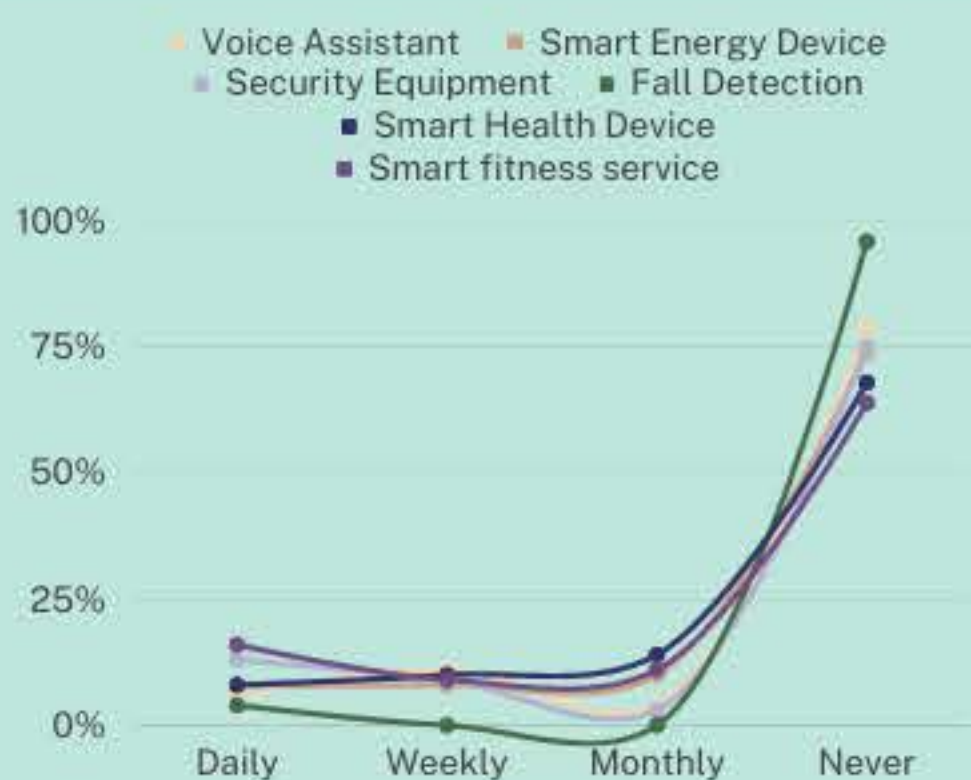
DATA 2

The partners distributed the questionnaire in each of their countries. Responses were received from **France, Germany, Ireland, Greece, Bulgaria, Netherlands** and **Austria**

Concerns
- Difficulties with installation & use
- Risk of hacker attack & data theft
- High prices for equipment & installation

(Scale: 0%, 25%, 50%, 75%)

Benefits
- External communication
- Security
- Financial Saving

(Scale: 0%, 10%, 20%, 30%, 40%, 50%)

DATA 3

Participants were asked what they thought were the main **benefits** and **concerns** (with several answers possible)

DATA 4 legend:
- Voice Assistant
- Smart Energy Device
- Security Equipment
- Fall Detection
- Smart Health Device
- Smart fitness service

(Scale: 100%, 75%, 50%, 25%, 0% — Daily, Weekly, Monthly, Never)

DATA 4

Respondents were asked what type of electronic devices they use and how often

DATA 5

The questionnaire asked whether the participants had ever tried DIY solutions at home. **65% answered Yes**

Do you engage in intergenerational activities ?

In intergenerational activities related to smart devices ?

Do you think intergenerational activities are useful ?

DATA 6

49% of the respondents are **involved in intergenerational activities** but only **17%** are involved in **activities related to smart devices**. However, **67%** consider that intergenerational activities are **useful to help seniors learn about smart devices**

Do you want to be in charge of smart home devices by learning how they actually work?

SmartHome4Seniors

The EU Erasmus + Project SmartHome4SENIORS is building a KIT to promote informal learning of smart home technology.

The goal of The SmartHome4SENIORS KIT is to support and promote hands-on educational learning in physical computing, IoT and programming for senior citizens in Germany, France, Austria, Bulgaria, Greece, Ireland and the Netherlands.

The KIT provides a combination of physical computing principles and programming with hardware and software, leading to an innovative learning experience.

The scenarios presented can be implemented in real life by interested senior citizens to automate parts of their home and improve their way of living and daily routines.

The SmartHome4SENIORS Kit is built based on the use of the Raspberry Pi Pico (RPi Pico) microcontroller. Learners will be able to:

- Understand the concept of Smart Home and assemble the SmartHome Kit.
- Understand the Raspberry Pi Pico microcontroller and its programming environment – and much more!

For more on smart home technology learning, check out the EU Erasmus Project [SmartHome4Seniors](#)

THE SMARTHOME4SENIORS PROJECT IN 2023

The **SmartHome4SENIORS** project, co-funded by the Erasmus+ program, comes to an end this year, in 2024. An opportunity to take a look back at the actions carried out in 2023, a year rich in events, by the partners of the project, started in 2021.

March

AKNOW developed a Kit Manual detailing components and applications to aid kit production and guide users. Partners translated it into their languages for wider accessibility.

SmartHome4SENIORS Kit Manual

SmartHome 4SENIORS

May

E-Seniors hosted the consortium in Paris where the progress of the project was planned with a focus on the use of the kits and the writing of learning content.

June

Another meeting (LTTA), in Athens, the challenge this time was to train all the partners in the use and programming of the Kits so as to be able to set up the pilots.

August

AKNOW began sending out the kits, while the entire consortium drafted the tutorials for practical use. The tutorials were then tested by the partners on the kits they received.
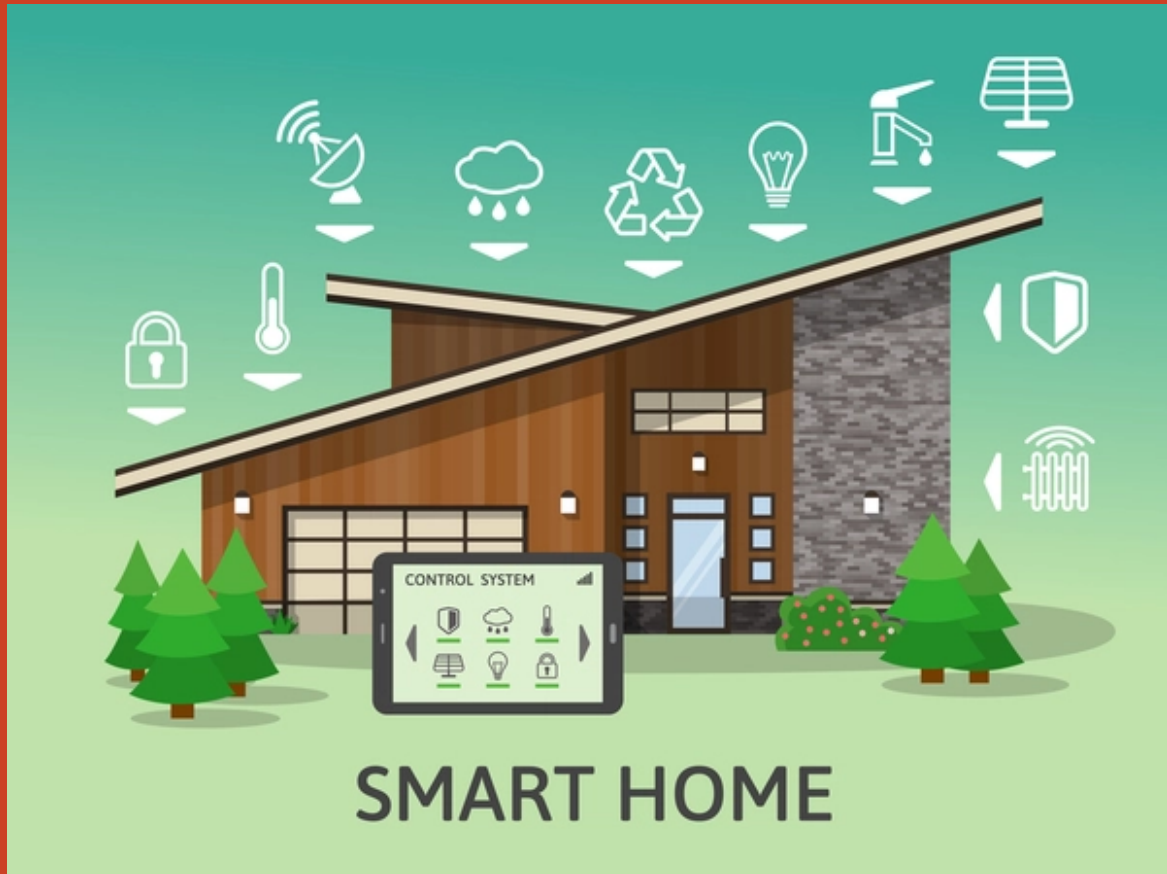
December

Last meeting of the project. The partners were welcomed by DIE BERATER in Vienna to draw up the final plans for the project, in order to finish it on time and to the highest standard of quality.
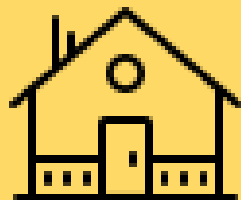
https://sh4seniors.erasmusplus.website/

SmartHome 4SENIORS

Co-funded by the Erasmus+ Programme of the European Union

6 reasons why older adults should learn about smart home technology

Remaining independent longer with impaired cognition

A smart home virtual assistant could answer requests, such as "what's on my calendar?"

Your virtual assistant can verbally speak about calendar events and repeat them many times!

Helping alleviate social isolation or loneliness

Of course smart home devices cannot completely overcome loneliness and isolation.

But they can enable you to make virtual connections to friends and family.

For example, by asking out loud "call my grandson" you are directly dialling his number.

Improving safety and security

You can easily notify friends and family as well as the police if something happens.

Smart home safety systems allow you to connect smoke alarms, CO2 alarms, water leak sensors, and video cameras. You can set things up so that if anything goes wrong, someone can get notified.

You can get automatic shut off devices that can turn off the stove.

If you travel frequently, you can check on your home remotely so you can keep an eye on things when you are away. And if you prefer, someone else can do that too.

Controlling devices by voice

Voice control of your gadgets at home are very useful if you have visual impairment, fine motor disorders or mobility impairment.

No need any longer to
- read buttons on a screen or using a keyboard
- have trouble pressing small buttons on a screen or scrolling
- get up to adjust a switch or walking across the room to change the channel on a TV or music source

Compensating hearing impairment

By connecting wirelessly to a hearing aid, or to some other type of personalised hearing gadget you do not have to turn up the TV very loudly, for example.

You will never have trouble hearing the doorbell or the telephone.

You will hear the smoke alarm when it goes off.

Improving your quality of life and reducing time and stress of caregivers

A smart home automation can check up on your activities.

It can remind you on routine tasks that would otherwise take an in-person visit. For example, checking supplies in the fridge, assembling a grocery list, or remembering to take medication.

Do you want to become in charge of Smart Home devices by learning how they actually work? Check out the EU Erasmus Project SmartHome4Seniors

HOME AUTOMATION

Home safety tips

REMOTELY MANAGE YOUR HOME

Home automation is not only used for monitoring home security systems, but can also help you keep an eye on loved ones, cut down on energy costs and maintain peace of mind.

REMOTE HOME SECURITY ACCESS

Remote access puts you in control of your home security system at all times, day or night-from anywhere-allowing you to enjoy your busy lifestyle knowing your home is always safe.

REMOTELY ACCESS FROM:

BENEFITS OF REMOTE HOME SECURITY & CONTROL

access from anywhere

24 hours monitoring

save money and energy

receive notifications

LOCK OR UNLOCK REMOTELY

The ability to lock and unlock doors remotely means you can rest assured your doors are secure and safeguard against the threat of burglary.

SEE LIVE SECURITY VIDEO

Protection 1st home automation system allows you to see live security video. This is not only secures your home from intruders, nut lets you keep an eye for your children, pets and other family members.

67% of all burglaries are residential break-ins

30% Intruders enter from AN OPEN OR UNLOCKED DOOR OR WINDOW

CONTROL HOME LIGHTING

Turn lights on or off using your smatphones or PC.

ANNUAL ENERGY BILL

SAVE 200 € ON YOUR ELECTRIC BILL