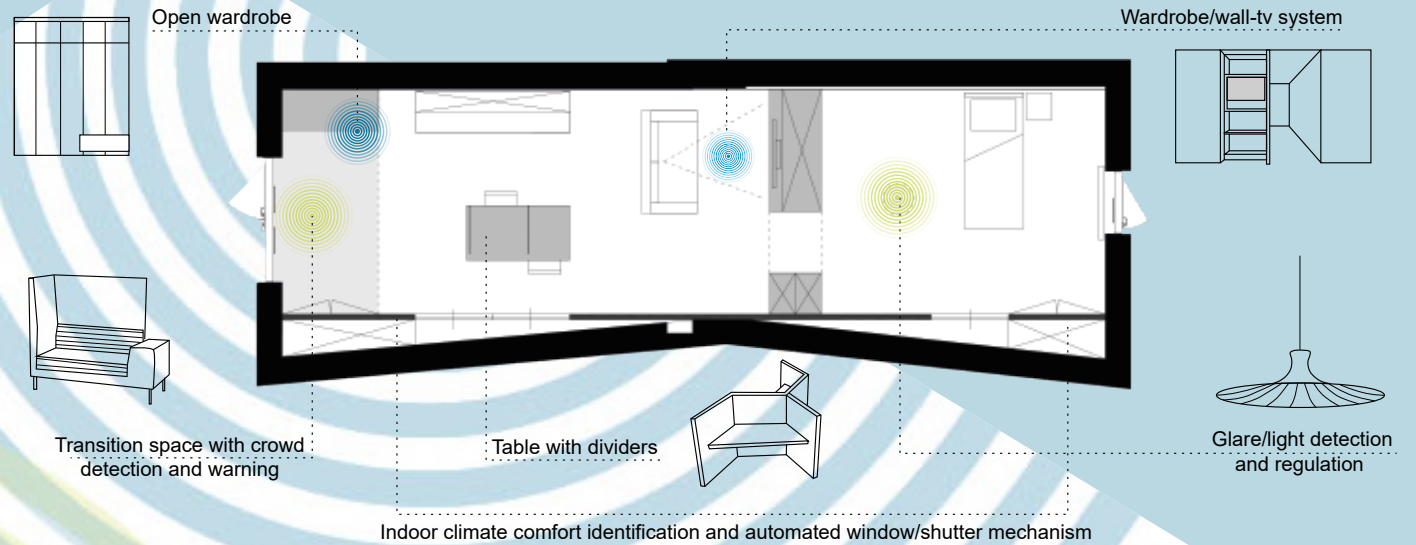


THE PROJECT

The SENSHOME project aims to develop a **new smart home design** to support the autonomy and self-reliance of people on the autism spectrum.

The desire that drives this project is to **offer privacy** and decrease the need for assistance. A **smart sensor network** will recognize critical events, improve comfort and well-being via the regulation of room conditions like temperature, humidity or acoustics and improve energy savings.

Additionally, a **new smart home and interior design** concept tailored to the needs of autistic people is developed which takes into consideration different environments - private houses and apartments or assisted living facilities.



An example of the SENSHOME lab environment

BACKGROUND

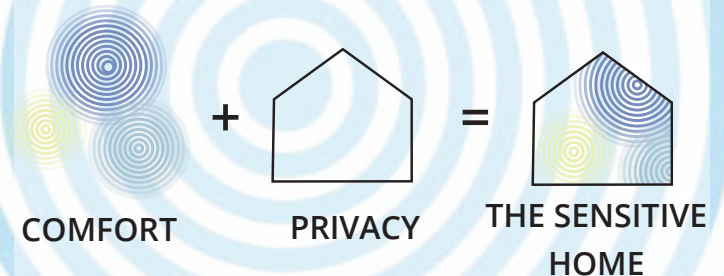
An individual **living space** satisfies basic needs like security, familiarity and privacy. SENSHOME will bridge the gap between independent living and individual care needs and thus enable a self-determined life for people on the autism spectrum in their own living environment.

Solutions currently available for remote assistance and support are represented by wearable devices (bracelets, smartwatches) or portable devices (tablets, smartphones), which require active involvement from the end users. With the help of smart technologies and interior design solutions, SENSHOME will provide **support in everyday life** without the need of specific input or actions of the end users while at the same time ensuring a **high level of privacy**.

EXPECTED RESULTS

The research activities of the SENSHOME project aim to develop:

- new solutions for **interior design** with integrated technology to enable passive **monitoring** and to assess potential **risks**;
- innovative technological approaches and software interfaces to link and manage various **smart sensors**;
- recommendations for the improvement of standards and interfaces in the field of home automation for **special needs**.



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Eureka System

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The Sensitive Home SENSHOME: The house as normal as possible and as special as necessary.

PROJECT START DATE: 01/10/2019

PROJECT END DATE: 31/03/2022

BUDGET: 982.422,96 €

ERDF*: 762.433,54 €

*Co-financing from European Regional Development Fund

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Senshome web site
<https://senshome.projects.unibz.it/>

SOCIAL MEDIA:

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Image by Simone Culot's thesis
"Autism project: inhabiting degrees of autonomy"

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