

SmartLab

TECHNOLOGY THAT CARES



A demonstration apartment and meeting-place for the development of safer living



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Smart living – luxury or necessity?

SmartLab is a place for experiences and inspiration

Why does the Swedish Handicap Institute run SmartLab?

- To show technology that opens new doors.
- To show technology that exists, but can't always be seen.
- To show applications that put assistive technology into a broader perspective.
- To help give the elderly and people with disabilities greater security and independence in their homes.

Come and find out about SmartLab!

We can take groups of up to 10 people.

Please call and book on +46 (0)8-620 17 00.

Human care and technology – a winning team

SmartLab is a source of support and inspiration

- for anyone who meets people who need support in their everyday lives.
- for anyone worried about family members with early dementia or other problems that can affect the sense of security.
- for anyone who wants to learn more about how technology in combination with personal efforts can increase security and well-being both for the care giver and care receiver.
- for anyone who has to prioritise between different



Technology for people with special needs

**SmartLab is for anyone who asks the question:
"How can I keep up with the latest developments?"**

You may be in one of the following situations:

- You are active in a disability organisation, and would like to find out more about how new technology can help the people you represent.
- You would like to find out what the new technology could mean for you.

SmartLab has examples of technology that is easy to use. SmartLab provides you with a foundation for home adaptation, development projects, pilot activities, and training.

The Swedish Handicap Institute arranges seminars related to SmartLab. Please contact us if you can see a need for this among a particular group of personnel.

You can always access the latest news about SmartLab on our website at www.hi.se/smartlab, however only in Swedish.

Managing alone at home

SmartLab has the technical solutions

- for anyone who has a personal carer most of the day, and would appreciate being able to cope by themselves occasionally.
- for anyone who needs help controlling functions in their home – environment control.
- for anyone who feels insecure when they are alone at home.
- for anyone who needs other solutions to communicate with the world around.



Developing assistive technology

SmartLab brings technology into real life

This includes products for:

- environment control
- safety in the home
- care in the home
- communication with the world around.

SmartLab is a resource for testing and assessing in home-like surroundings. SmartLab can be used as a research environment, where the use of ICT, Information and Communication Technologies, solutions can be studied. We are always glad to make the Lab available to R&D projects of different kinds.



What is the benefit of the technology in SmartLab?

Some of the functions in SmartLab

Remote control enables the user to:

- Turn the lights on/off
- Turn the power on/off in wall sockets
- Draw the curtains
- Manoeuvre window blinds
- Lock/unlock the outer door
- Control the stereo system.

Remote control comes in a variety of forms: standard remote control (as with the TV), voice-controlled, portable or stationary computer and so on.

The system senses functions and status:

- Lighting on/off
- Outer door open
- Signal from door
- Kitchen tap left
- Pressure sensor
- Motion detector



Status reports

Status reports are available for important information, such as a running tap in the kitchen,

- when the user leaves the home and presses the 'Going out' button.
- when the user goes to bed and presses the 'Good night' button.

The system acts automatically

Example: If the system is in 'Night' mode, it provides soft lighting on the way to the bathroom when the user gets out of bed.

Reading and control from the computer

The user him/herself can choose settings, read reports and send commands from a PC. The computer is equipped for people with different disabilities, such as visual impairment, deaf-blindness, brain damage, and mobility impairment.

New products and systems for safety and security

We intend to supplement the equipment in SmartLab as new products and systems appear. We are not restricted to a single system or supplier.

Furniture and fittings

SmartLab has functional, home-like furniture and fittings.

Smart buildings – do they exist?

It is essential to plan early...

Please feel free to contact us for further information if you work in house-building or home adaptation.

At SmartLab we show examples of what to do when adapting a home to increase security and independence using ICT and assistive technology.

We are always happy to discuss any preparations that may be needed when rebuilding or renovating a home.

SmartLab enables visitors to experience the results of various solutions. We can also learn from each other. The idea is that SmartLab is continuously developed and renewed.



SmartLab will never be finished!

We are always looking to supplement the Lab with equipment that enables new functions or represents new system solutions.

Let us show your products in SmartLab!

Looking for an R&D environment?

SmartLab is readily available for specialised tests and studies. Contact us to talk about how we can work together!

Further information about systems and solutions for ICT support in the home is available on our website at www.hi.se/smartlab, however only in Swedish.

SmartLab

SmartLab is located in the same building as the Swedish Handicap Institute. The visiting address is Sorterargatan 23, Vinsta, Vällingby. The nearest Stockholm underground station is Johannelund (5 minutes' walk).

The Swedish Handicap Institute

The Swedish Handicap Institute is a national resource centre on assistive technology and accessibility for people with disabilities.

We work for full participation and equality for persons with disabilities by ensuring access to high-quality assistive technology and an accessible environment. The Swedish Handicap Institute stimulates research and development, tests and procures new assistive technology, contributes to knowledge and method development, disseminates information and carries out training.

The Swedish Handicap Institute is run by the Ministry of Health and Social Affairs, the Federation of Swedish County Councils and the Swedish Association of Local Authorities.



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