



CONNECT

Smart Home: Ambient Assisted Living

Background

Ambient Assisted Living (AAL) stands for services, products and technological concepts that are designed to make everyday life and quality of life easier for people, especially those in poor health or who are elderly. These assistance systems are designed to increase comfort, independence and safety through simple operating concepts and integrated interaction with family members and experts. The medical products are designed to automatically perform recurring treatments and analyses adapted to the individual needs of elderly people or those in need of care.

Aging smartly and healthily in your own four walls

The population worldwide is reaching a steadily higher age level, with Germany among the top 5 countries according to a recent study, with a share of 21.8% of people older than 65 years. A holistic desire of this population group is to be able to grow old independently in their own home without being a burden to another person.

According to an evaluation by the Federal Statistical Office, around 5.8 million people over the age of 65 live alone in Germany. In addition, the Act for Better Care Digitization and Innovation was passed in December 2019, enabling doctors to prescribe healthcare apps to patients on prescription. New digital health standards were also adopted in the UK in 2019 by the National Institute for Health and Care Excellence (NICE). What does this mean for smart health @home technologies?

Older people in particular are usually ambivalent and uncertain about new technologies, which is why some companies like ProLiving are now focusing on customizable, easy-to-use and intuitive Ambient Assisted Living approaches.

One of the most advanced approaches to AAL is probably health monitoring. This enables patients to receive all-encompassing health care after a hospital stay or in regular everyday life. Home-based medical patient monitoring can work through a combination of wearable monitoring systems that enable patients to take certain vital measurements themselves and cloud-based software solutions. In this way, ECGs, blood glucose/blood pressure measurements, among other things, can be performed from home without effort and analyzed by experts. The data from these analyses are logged in apps and forwarded to doctors, social services and/or family members. The storage of the data also ensures sustainable health monitoring, which includes further steps such as the organization of a real doctor's visit in the event of abnormalities or irregularities.



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Integrated Ambient Assisted Living systems such as ProLivingSmartPlus, act as a comprehensive assistance system at home. By installing the home center, in which all data and information are bundled, the home is networked with external institutions and social service providers through integrated sensors and actuators. The technical assistance system is able to record and monitor vital data, trigger emergency calls in various assistance situations by means of visual or acoustic signals and support the taking of medication by means of reminder functions. ProLiving 3D fall detection allows falls to be detected without the patient having to wear a device on their body or actively trigger an emergency signal. In addition, the system offers the ability to automatically open doors through integrated cameras and communicate with physicians and outside providers via video communication. The scalable, cloud-based software offers users easy operation and central control via app.

Although doctors cannot offer all medical procedures in home care, the number of treatment options is continuously increasing and at the same time reduces the costs of a hospital stay or an expensive private nurse. Another shortcoming is that almost every medical tool currently requires its own app, so further development in the direction of an integrated app should be strived for.

Have the modern Ambient Assisted Living system approaches aroused your interest, or do you need more information material? We would be happy to provide you with further insights or put you in contact with the company. arcoro CONNECT links innovative trends with people and helps to understand tomorrow's knowledge already today.

COMPANY	LOCATION	WEBSITE	FIELD OF EXPERTISE
ProLiving Systems AG	Swiss	https://www.proliving.ch/altersgerechtes-wohnen/	AAL
Casenio AG	Germany	https://casenio.eu/	AAL
Future-Shape GmbH	Germany	https://future-shape.com/en/system/	AAL
MOIO GmbH	Germany	https://moio.care/	AAL
Assisted Living Technologies Inc.	UK	https://www.assistedliving-technologies.com/	AAL
Televic Healthcare	France	https://www.televic-healthcare.com/en	AAL
Chubb Fire & Security Ltd	UK	https://www.chubbfiresecurity.com/en/uk/products/community-care/	AAL
NevisQ GmbH	Germany	https://nevisq.com/	AAL



Do you prefer a specific contact person? We have researched for you and made a pre-selection of international experts in the field of Ambient Assisted Living? Contact us without obligation to discuss a further procedure. We will be happy to establish a personal contact for you!

INDUSTRY EXPERT	JOB POSITION	FIELD OF EXPERTISE
Florian Kirchbuchner	Speaker of the Fraunhofer AAL Alliance: Assisted Healthy Living	AAL
Prof. Dr. Elizabeth Borycki	Professor at School of Health Information Science & Chair WG Ambient Assisted Living.	AAL
Serge Autexier	Head of Bremen Ambient Assisted Living Lab (BAALL)	AAL

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