

### How AI, digitalisation and e-mobility are changing the provision of assistive technology change - get to know innovations and experts at REHAB

**Karlsruhe, 12 May 2025** - From 22 to 24 May 2025, the focus at REHAB 2025 - 23rd European Trade Fair for Rehabilitation, Therapy, Care and Inclusion - will be on innovations that make the lives of people with disabilities and care needs easier in the long term, improve care concepts and provide support for professionals in their day-to-day work. On around 30,000 square metres, almost 400 companies and institutions from 16 countries will be presenting state-of-the-art developments for mobility, communication, care, therapy and supply. In particular, the use of artificial intelligence (AI), digitalisation and e-mobility impressively demonstrates how technology can improve the participation of people with disabilities in social life and enable greater independence.

#### Communication aids - next level

In the field of communication aids, companies such as Nau-Hau, to signify and REHAVISTA will be showcasing technological innovations to support people with physical disabilities - from voice-controlled and free-floating mixed reality browsers to eye control and specially developed communication solutions such as symbol vocabularies for people with aphasia, a speech disorder that often occurs after a stroke.

At a joint stand, the industry association DATEurope will present how digital assistive technology (DAT) makes inclusive gaming and computer access possible for everyone: gaming with a wheelchair joystick (AMAneo MX), mouse control with mouth and head (IntegraMouse, Quha Zono), an innovative one-handed keyboard (TiPY), buttons for simple gaming (Kajo Buttons) or innovative control concepts for people with spastic paralysis (Trey IT).

Board Co-President Christoph Müller says: 'Digital assistive technology has what it takes to bring about lasting positive change in society, enable everyone to participate and create a better quality of life. This innovative strength is particularly impressive in Europe, which has now become a stronghold of DAT manufacturers: they are particularly good at reflecting different cultures and languages in innovative products. The importance of DAT for individuals and society is increasing significantly as a result of digitalisation and is creating new opportunities.'

#### AI, robotics and digitalisation in care, nursing and therapy

AI-supported and digitalised fitting concepts are also driving progress in orthopaedic technology and will be presented at the trade fair: MOWA Healthcare, for example, offers a completely digital process supported by AI to create customised lower leg orthoses, while HKK Bionics can restore or improve the gripping ability of people with hand paralysis with its new myoelectric hand orthosis. or improve it. In addition, modern therapy devices such as the robotic THERA-Trainer toro as well as smart care solutions solutions, such as the MySina digital assistance system from IT CARE. The B2B messenger app BLACKPIN, which enables secure teamwork, will also be on show. In combination with a sensor bed mat that detects falls at an early stage, critical situations can be recognised more quickly and help can be called for.

In the Future Pavilion, the start-up area at REHAB, visitors can take a look into the future: When research projects such as Clever Sole from the founding team of the Technische Hochschule Mittelhessen and young companies such as the inclusive online platform Unique United or Cognishine, a digital intervention platform for therapists, and the medical technology start-up inContAlert, which has developed a wearable for measuring bladder filling levels, present their innovative ideas and visionary products here. In order to turn such ideas into life-changing offers, there needs to be an exchange between users and experts, as well as networking platforms and financial support. The Future Pavilion (Hall 2) at REHAB aims to achieve this.

### **New possibilities thanks to e-mobility aids with innovative functions**

In the area of mobility, foldable electric wheelchairs with ranges of up to 35 kilometres and a wide range of accessories such as a wheelchair trailer coupling from providers such as ergoflix or Freedom One Life, innovative handbikes and traction devices from active rehab specialists such as Rehasense Deutschland or R & E Stricker Reha developments with high functionality and user-friendliness are impressive. Special stair climbing aids with intelligent sensor technology, including the new scalamobil from Alber or the electric stair-climbing wheelchair X10 from DM-System, ensure safety and independence for people with limited mobility.

### **Innovation centre, car test drives and test course**

Selected appliances can be tested for their suitability for everyday use on a test track in the outdoor area (between Halls 1 and 2). A number of car conversion companies such as PARAVAN and Felitec will also be offering test drives on the grounds (between the dm-arena and Hall 3). Innovative exhibits can also be seen in the Innovations Centre, directly in the entrance area of the action hall.

REHAB is a source of inspiration, dialogue platform and meeting place for inclusion in practice and has been an established industry meeting place for 45 years now. It will take place from 22 to 24 May 2025 at Messe Karlsruhe. More information at <http://www.rehab-karlsruhe.com>

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