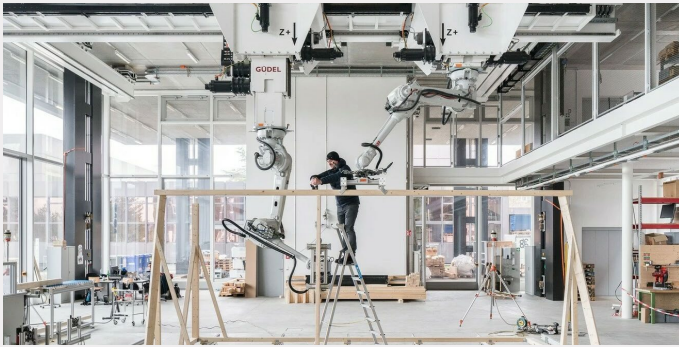


ROBOTICS

FOR HUMANS

Robotics is one of the world's most important growth drivers and a key technology for value creation. It is used in many areas, from healthcare and manufacturing to the home. Intelligent robots are the answer to demographic change, labour shortages and the growing demand for efficiency and sustainability. However, although well established and optimised for industrial automation, players in the emerging field of human-centred robotics face a variety of challenges.

Application in ever new areas – especially where humans and autonomous technical systems are to cooperate – makes intelligent and adaptable interaction and coexistence between humans and robots essential and fundamentally changes the requirements for robotics systems.



WHAT WE DO

Human-centred robotics is a field of research that focuses on the development of technologies related to the robot ecosystem. The main focus is on collaboration with humans: instead of designing independent environments for robots, the aim is to help design robots that can adapt to (public) everyday spaces, human needs and individual requirements in terms of safety and usability.

In the Robotics for Humans network, we are addressing the challenge of advancing human-robot relationship – every person should want to and be able to operate a robot. That is why we are actively shaping how humans and robots will work together in the future – affordably for everyone.

KEY AREAS OF WORK

Focus on human needs: Focus on people and how robots can truly support them in areas such as healthcare, education, skilled trades and everyday tasks.

Safety and adaptability: Robotic applications that are safe to use around people and can adapt to unpredictable environments and/or situations.

Expanding capabilities: Robotic applications that support and expand human capabilities.

Intuitive interaction:

Ways of interacting with robots that are easy to understand and control, allowing technology and humans to communicate and collaborate naturally.

Cost-effectiveness: Reduction of the previously high costs of adapting socially appropriate behaviour in a wide variety of complex application scenarios.

WHO WE ARE

Fifteen partners are currently working together in the Robotics for Humans network to realise their shared vision:

**ibs Automation GmbH Müller & Pfeiffer GmbH GETT Group Ingenieurbüro Hannweber GmbH CONTAG AG
WOLFRAM Designer und Ingenieure Intenta ARC GmbH Autodeltass GmbH Flexora GmbH
Universitätsklinikum Carl Gustav Carus Dresden SEITEC GmbH Fraunhofer IESE Covestro AG
WohnXperium e.V. Wirtschaftsförderung Sachsen GmbH**

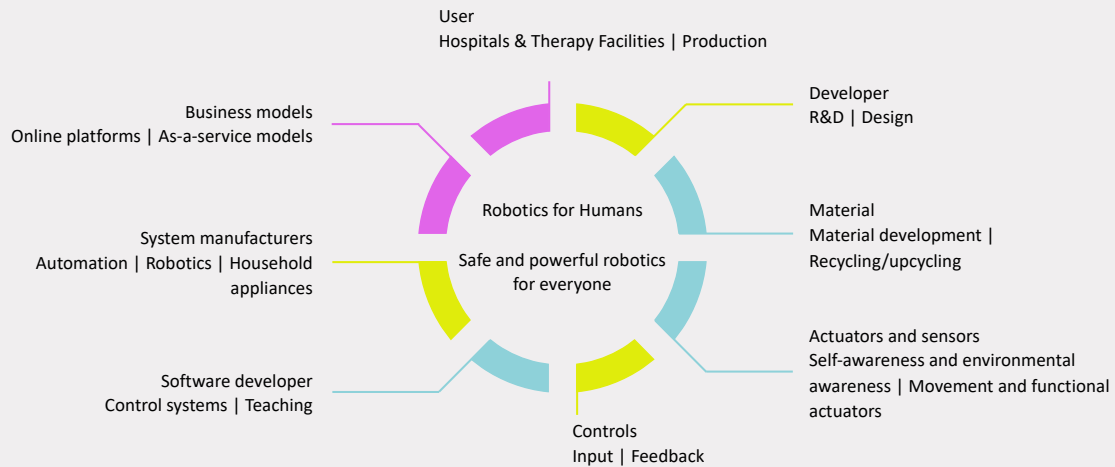
The network is actively supported by the management team at Fraunhofer IWU, which not only contributes expertise in the field of robotics, but also provides support with its experience in (scientific) communication, transfer and marketing.

Coming soon

www.roboticsforhumans.de

ROBOTICS FOR HUMANS

To strengthen our network, we are looking for companies that are involved in human-centred robotics and want to contribute their perspective. These can be large or small players along the entire robotics value chain.



YOUR BENEFITS

Networking:

Establishing contacts with companies from other industries and fields of expertise to complement your own portfolio and expand your areas of application.

Visibility: For the topic of robotics for humans in general, but especially for the topics, projects and members of the network.

Cooperation: Collaboration within the network to identify future topics and address overarching issues.

Research topics and proposals: Initiating research projects to realise pilot projects, tips and tricks for public tenders and funding opportunities, support in applying for publicly funded projects.

Know-how and current trends: Knowledge about the state of the art and the current market and competitive situation.

Inspiration: Exciting projects and trends in the robotics bubble.

WHAT TO DO

Be part of it and reap the benefits:

you support the network with your knowledge and take part in network meetings to steer technological development and work on the future of human-centred robotics in joint research projects. There is a network contribution of max. EUR 3,000/year.

The best part: the more our network grows, the less you pay.

Get to know us and talk to us:

Network management
Linda Weisheit, Saskia Glandien and Adrian Schüttauf

Fraunhofer Institute for Machine Tools and
Forming Technology IWU

Telephone: +49 351 4772-2144
Email: zentrale@roboticsforhumans.de

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