INNKLUSION

MAKEUP-ROBOT AND BEYOND
CO-DESIGNING ASSISTIVE TECHNOLOGIES



FACTS

In Austria, around 1.9 million people between the ages of 15 and 89 live with a limitation in activities of daily living.¹



A SIN SIN

of people living in Austria have a mobility limitation

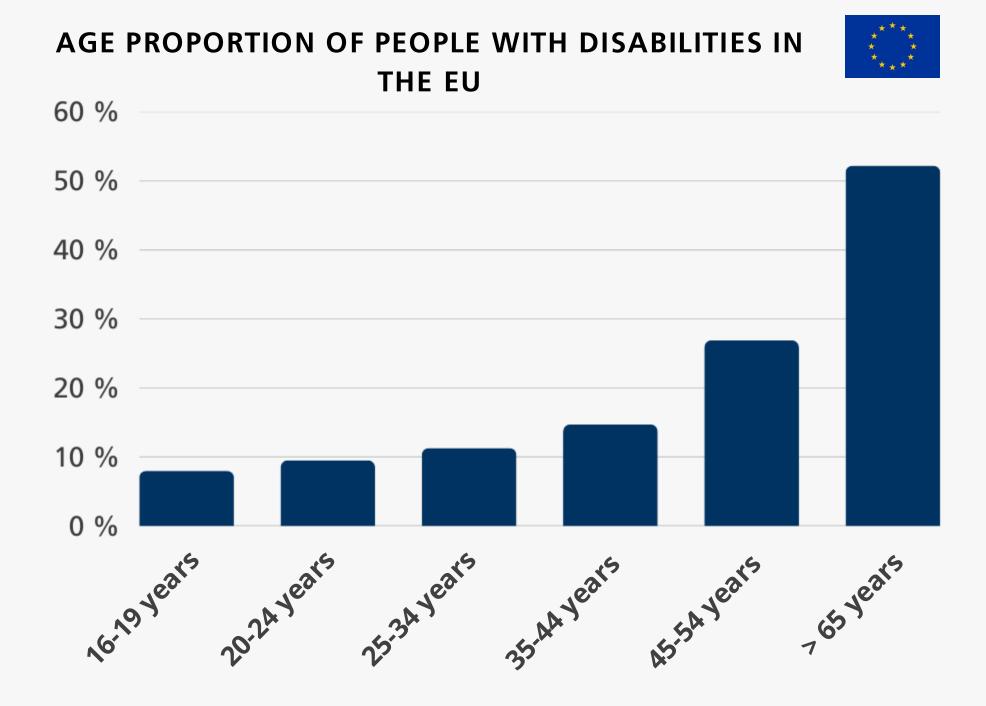
¹Bundesministerium Soziales, Gesundheit, Pflege und Konsumentenschutz: Bericht: Menschen mit Behinderungen in Österreich, Teil I, 2024.



IT CONCERNS EVERYONE

The risk of developing a disability grows with age.

Most people are not born with a disability but develop it later in life.²



²Eurostat; Europäischer Rat (Juli, 2024): Fakten und Zahlen zum Thema Behinderungen in der EU https://doi.org/10.2908/HLTH_SILC_12



ASSISTIVE TECHNOLOGIES

play a pivotal role in promoting the autonomy and independence of people with disabilities.











ASSISTIVE TECHNOLOGIES

Many abandon their assistive technologies or do do not find suitable solutions because...





...they must be rolled out by other stakeholders







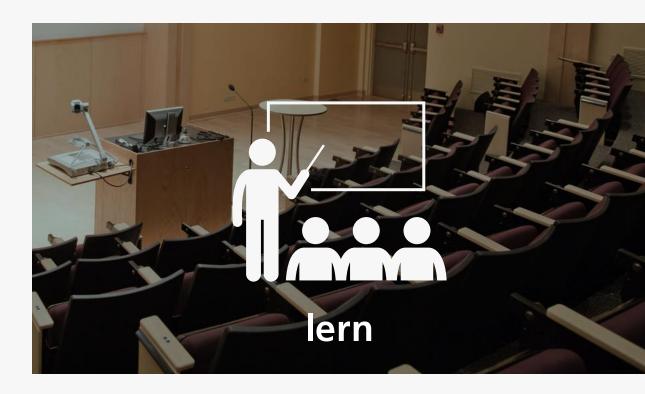


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We want to foster an inclusive society by bringing together students and people with disabilities to develop assistive technologies.



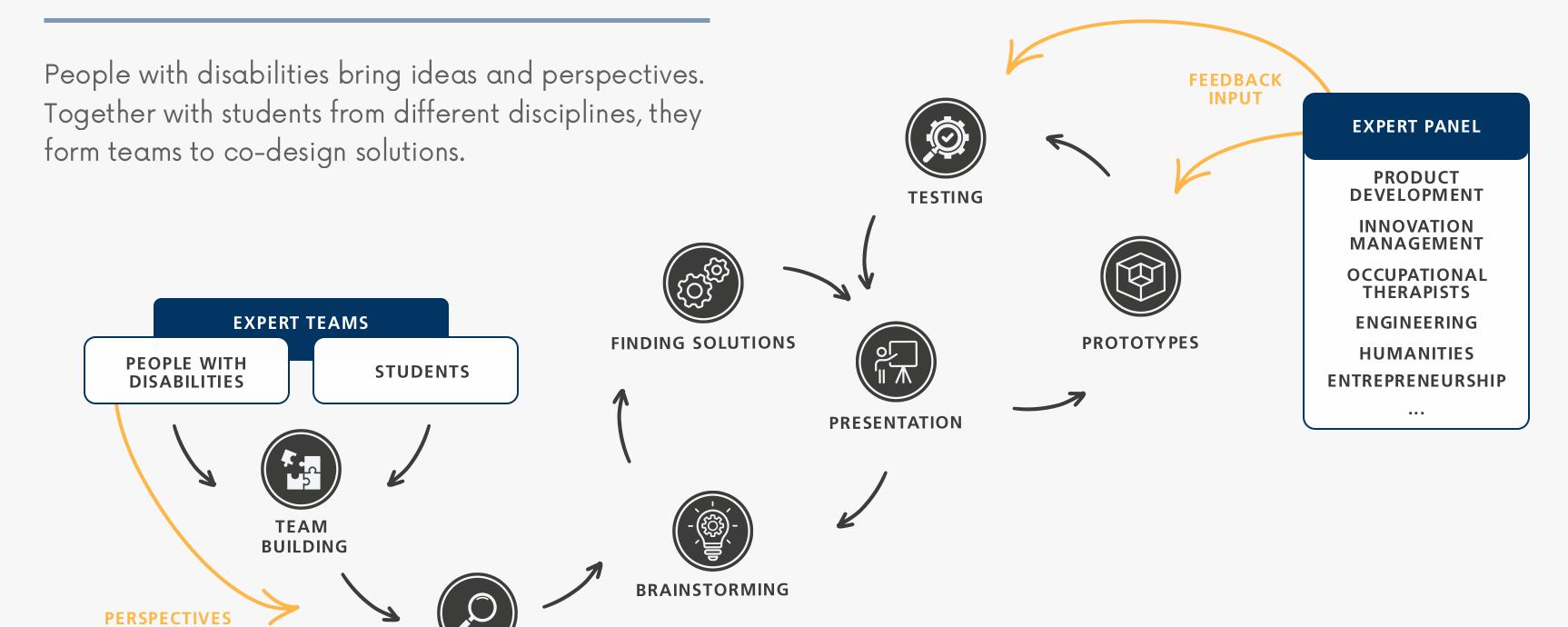




HOW?

REQUIREMENTS

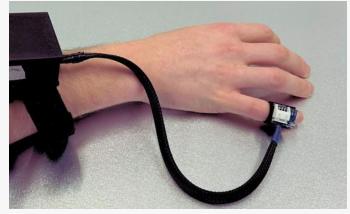
ANALYSIS



PROJECTS

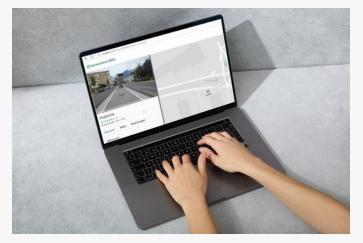
We develop practical aids and new concepts to improve the quality of life of people with disabilities.

Our projects range from simple everyday aids to complex technical systems.









TOOL FOR COMMUNICATION

MAKEUP ROBOT

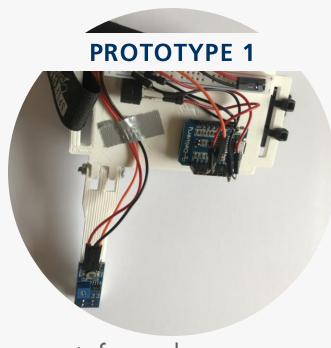
SILENT HOUR

ACCESSIBLE PUBLIC TRANSPORT

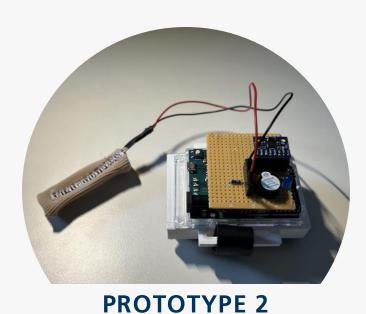
TOOL FOR COMMUNICATION

A device that allows people with locked-in syndrome to communicate with finger movements.

Two Bachelor's students started their project during our course and have continuously improved their system.



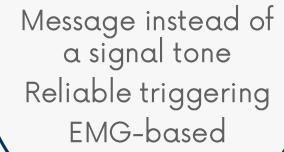
Infrared sensor



Strain gauge



Inertial Measurement Unit



FUTURE





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MAKEUP ROBOT

Marianne requested a "hand for daily living" which resulted in a Master thesis to develop a make-up robot

CHALLENGES

- Pick and hold different make-up products
- Usable and controllable by Marianne
- Low-cost solution, <1k
- Open-Source Code and CAD



SILENT HOUR

Shopping can be difficult to impossible for people in the neurodivergent spectrum.

We want to establish silent hours in different shops in Innsbruck and Tirol.

Together with..









X Quiet environment



Pleasant light



Sensory orientation plan



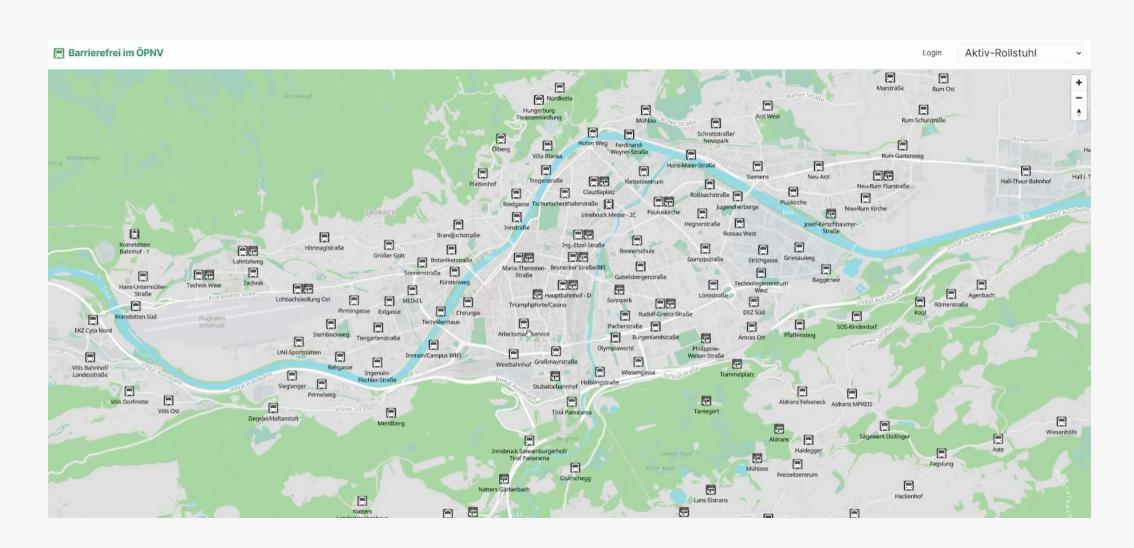
Assistance dogs must be allowed



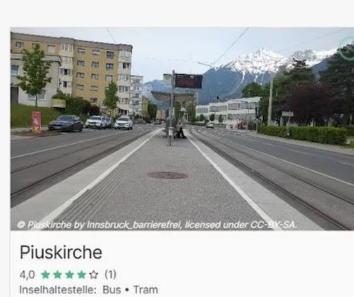
Flexible staff deployment

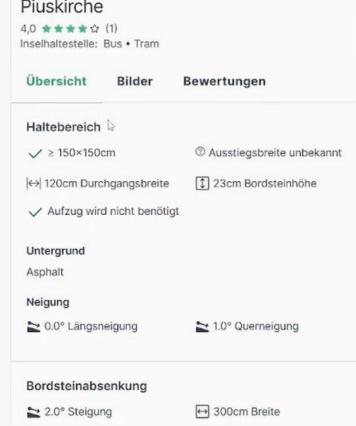
ACCESSIBLE PUBLIC TRANSPORTATION

Providing information about accessibility enables people to plan their trip with public transportation



- Open-Source, built on OpenStreetMap and Mapillary
- Community-based information and pictures
- Deployment and maintenance in discussion





WHO ARE WE?















Team INNklusion

Partners and Supporters















PARTICIPATE!

because most barriers are in the mind

