Ill_IDreamwaves

See the world through your ears.

Awards

VC Top 5 VCÖ Mobility prize 2019

myGalileo ≟ SOLUTIᠿN Top 20 MyGalileoSolution 2020 - EUSPA

GEWINN

Top 100 Best Austrian small companies 2021

1st Prize Social Innovation Tournament 2022

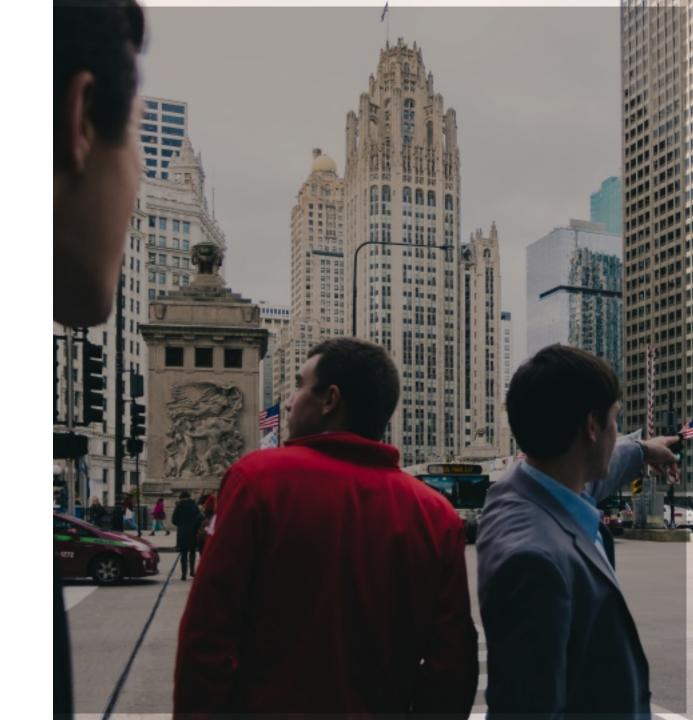
Accelerators Selection:

HiReach Startup Lab BidgeforBillions PLUGANDPLAY JAPAN

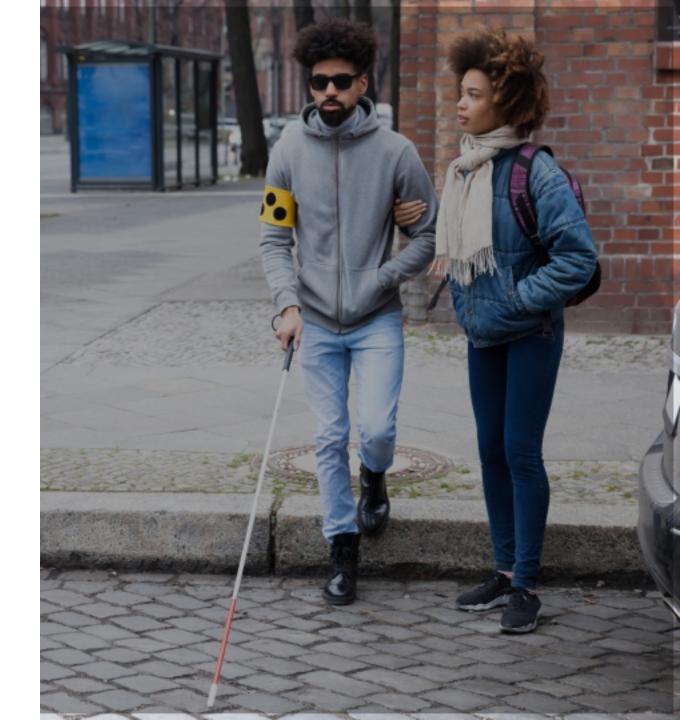
Mobility LabNL

Verbund X accelerator

Orientation is a fundamental challenge...



... and is especially hard in specific situations.

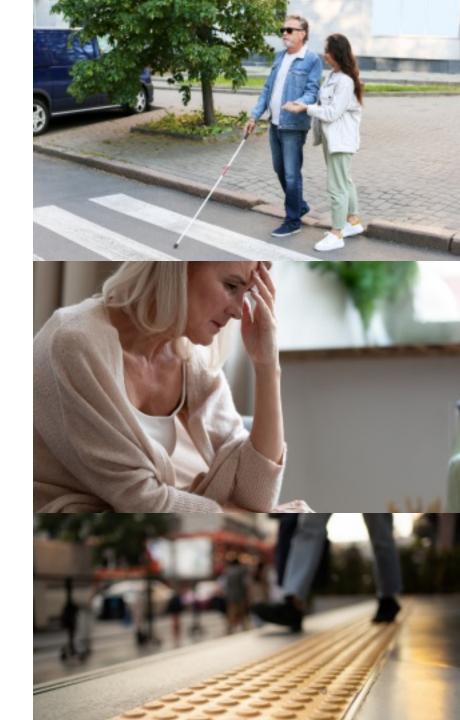


Independent mobility is a challenge for blind people









Make navigation easy for everyone!

waveOut

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NAVIGATION

35 min

Navigating to Lindengasse 56, 1070 Vienna (AT)

800 m

1. Audio augmented reality app

^{from} ا||_اDreamwaves

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Navigating to Hotel Motel

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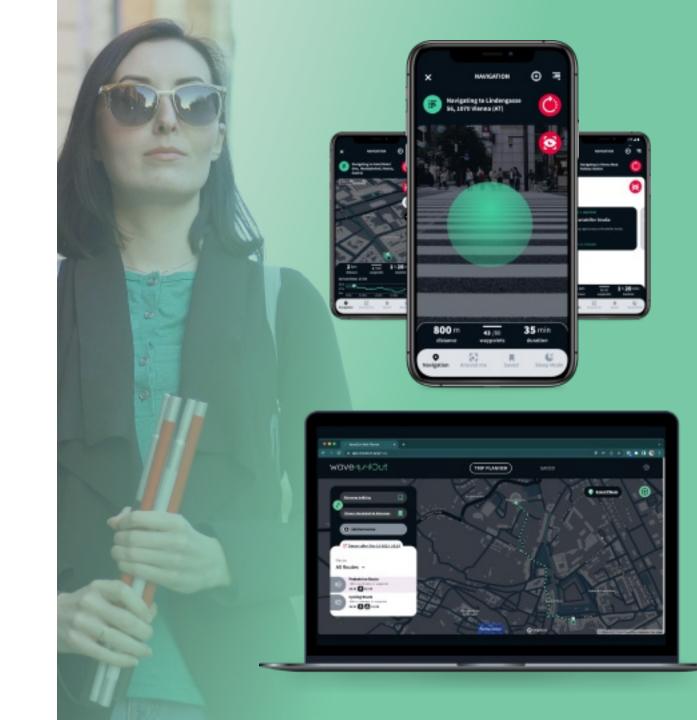
The audio augmented reality navigation app



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Sound cues are placed along the user's route.

1 of 36

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Sound cues are placed along the user's route.

2

2 of 36

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Sound cues are placed along the user's route.

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We co-design directly with the user...

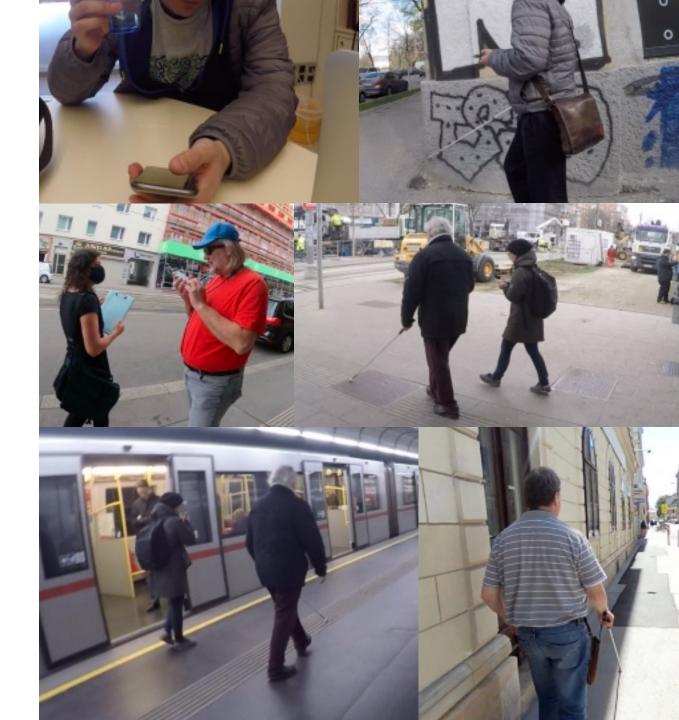
Over 120 blind and visually impaired





Bartiméus:

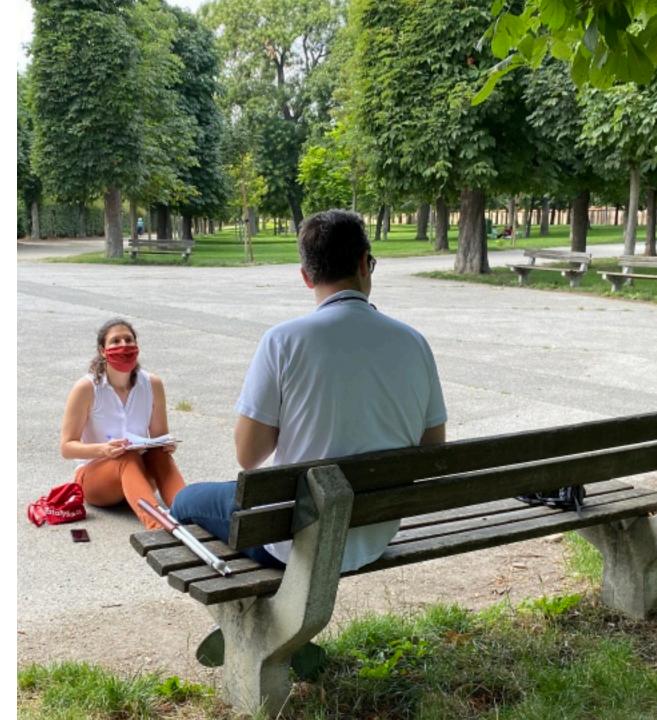




Workshops



"It's a completely different paradigm of navigation"



Testimonial



★★★★★ "It's a bit like seeing.

The impression of direction is constantly transmitted.

That sounds complicated at first and technically, it certainly is. In practice, however, it is amazingly simple.

Dreamwaves differs from all systems known to me simply because of this permanent indication of direction."



Jürgen Schwingshandl Blind user tester for our navigation app, waveOut.

Blind or moderate to severe visual impaired









2. Implementation

Technological Challenges

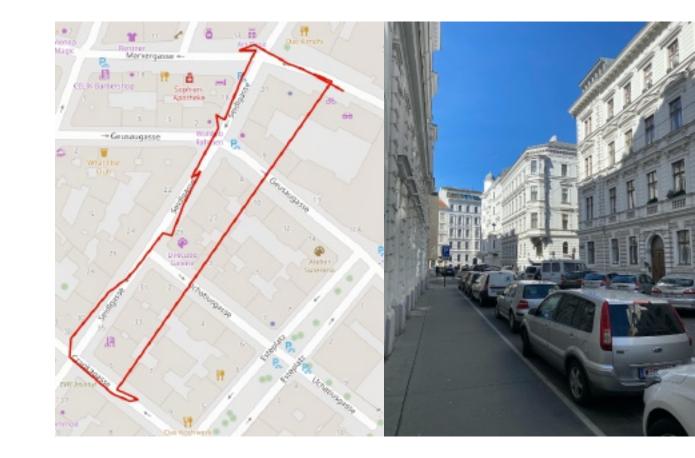
Mobile audio AR is still not perfect

For a realistic audio experience it is crucial to know the exact location of the users and therefore their position in relation to the virtual sound.

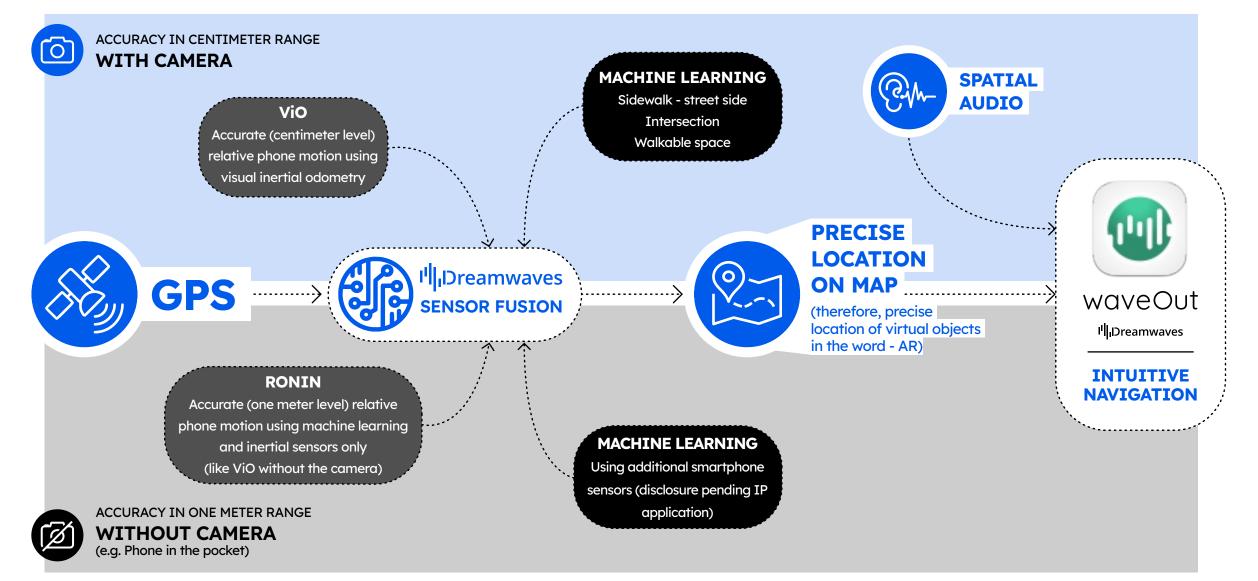


Technological Challenges

GPS is far from perfect



Our Technological Solution

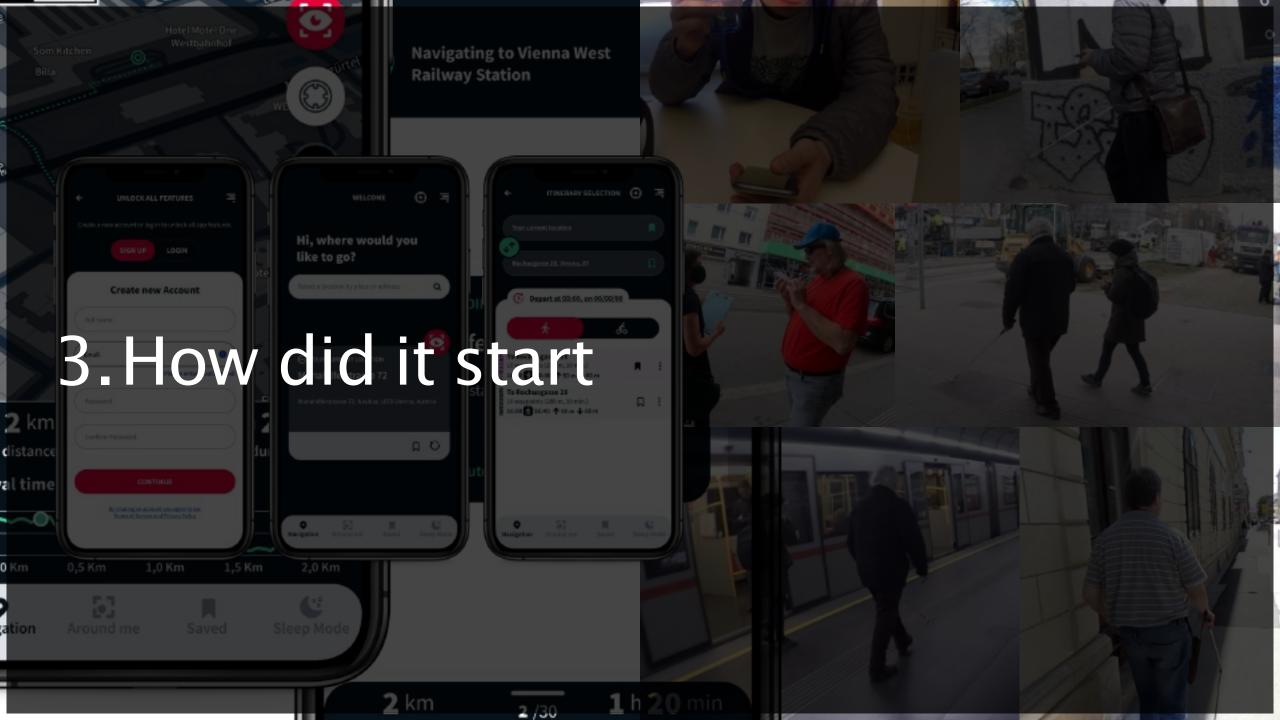






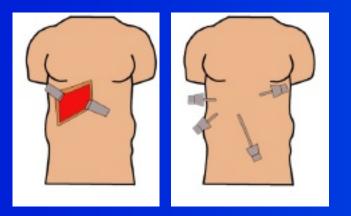
Comparison

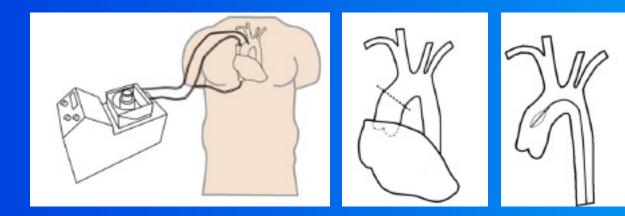


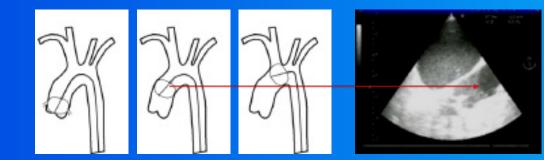


How did it all start

Passion 1: augmented reality

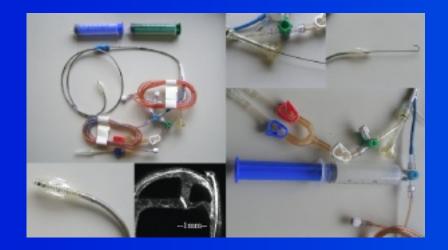


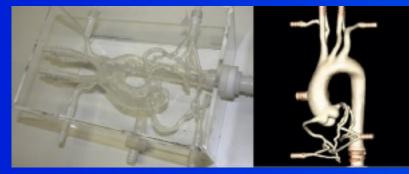


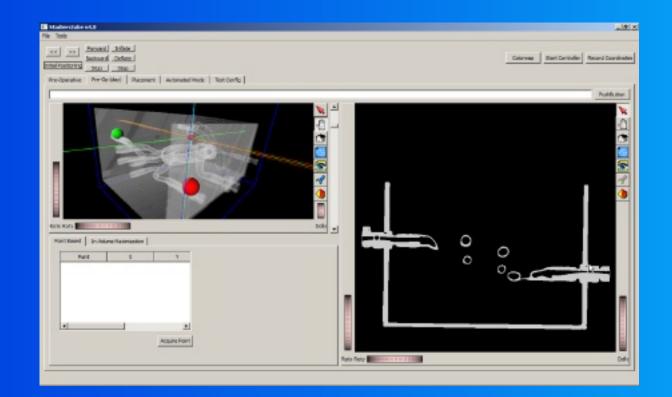


How did it all start

Baloon insertion visualization







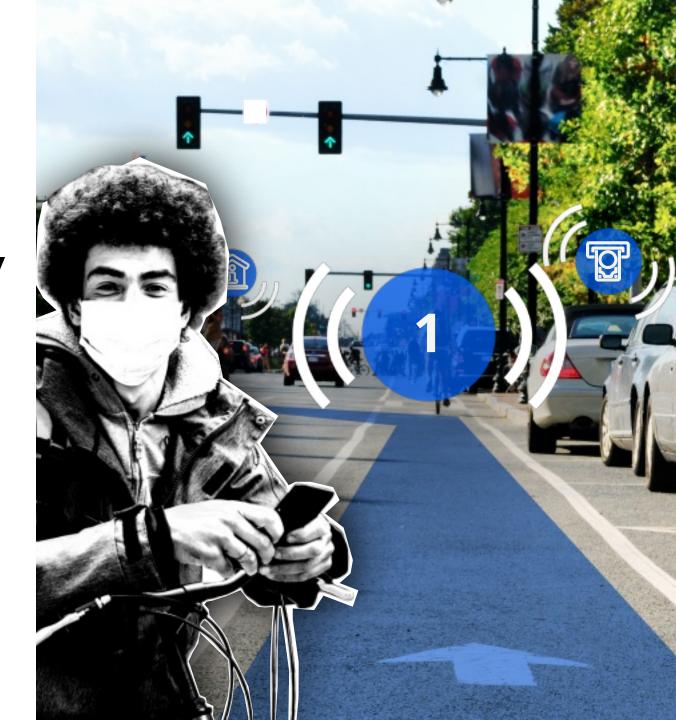
How did it all start Passion 2: music and audio

4. The present and the Future

Intuitive outdoor orientation and navigation for everyone.



Hands-free audio augmented reality experience for safe and intuitive navigation while cycling



Immersive audio experience for tourists visiting a city



Digital Twin indoor navigation



DIGITAL TWIN INTEGRATION

An interaction can be made with anything that is on the digital platform

REGISTER AS ADMIN

Fine grained access to indoor plan and feature customization



DEFINE NODES OF INTEREST

Define possible origin and destination notes to enable automated routing

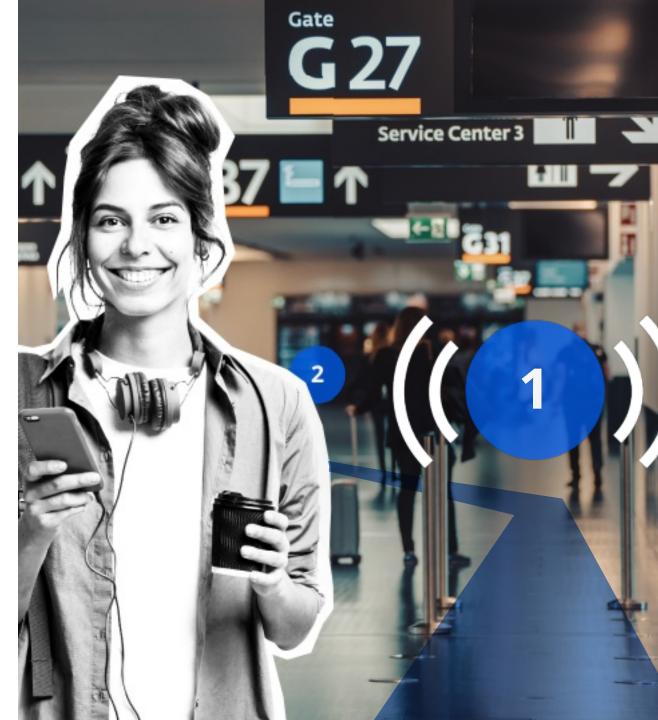
ADD SPACIAL AUDIO CUES

Define which points should be heard, what audio be heard and when



Technology Use Case: Indoor Navigation

Indoor intuitive way finding in complex unknown venues



"Let's improve mobility for everyone!"



Hugo Furtado CEO

hugo@dreamwaves.io +43 660 401 5739