MOVIH – MOBILITY FOR SIGHT AND HEARING IMPAIRED IN PUBLIC TRANSPORT

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MoViH Outline

- Mobility of the visually or acoustically impaired in public transport
  - Investigating their
    - Needs
    - Barriers
    - Possible solutions
  - from the viewpoint of
    - persons concerned (directly and representatives)
    - Mobility providers (public transport providers (PTP), vehicle industry, authorities, etc.)

- Funded by the Austrian Research Promotion Agency under the “ways2go” program
Visual impairment - Parameters

- Visual Acuity
- Stereoscopic Vision
- Field of View
- Movement Vision
- Contrast Vision
- Photopic Vision
- Colour Vision
## Best and Bad Practices – Areas of interest

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Vehicle best practices
Stops and stations best practices
General mobility related best practices
Important aspects

- What to take into account when designing barrier-free systems
  - Allow the user to approximate to plans, displays and other information sources
  - Use the space that is provided to you – small might be beautiful but it is not functional
  - Adhere to a “two-senses at all time”-policy
  - Announcements should have Intros and Outros
  - Use indirect lighting - avoid blinding/direct lighting
  - Use matted (light) surfaces - avoid reflecting (dark) surfaces
  - Visual guidance system should be in inverted colors to the floor/wall
  - Be aware of red-green-incapable persons
  - Don’t be afraid to ask representatives of persons concerned and the persons themselves
Key findings and take aways

- If considered within the planning phase of a project, barrier-free design is
  - connected with little to no excess costs
  - easy to integrate in an appealing way
  - supporting the functionality of the project
  - increasing the usability for all passengers

- Representatives of PRMs should be included from the start of any project and their remarks should be considered thoroughly

- A concise and clear framework for barrier-freeness has to be established on an EU-wide basis
- Coordination and cooperation is needed to share experiences and best practices worldwide
Thank you for your attention