

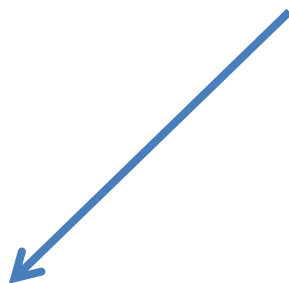


The Virtual Warsaw challenge

**Accessibility of public spaces & services in
Warsaw,
especially for visually impaired inhabitants**



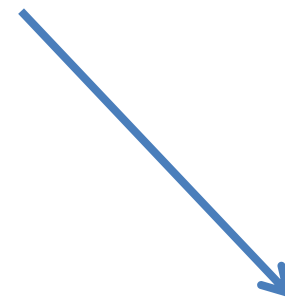
Issue – How to improve life of Warsaw inhabitants with visual impairments?



Make moving around the city easier – navigation in public spaces and accessible public transport



Give an access to public information, public spaces, cultural/tourist attractions



Improve a situation on a job market

How visually impaired are using public transport, what kind of obstacles they face?

At least 60-95 hours of work with individual trainer is required to learn how to move safely around the city.

They usually use the same means of transport, trams/buses numbers, routes they learnt by heart.

Obstacles:

- access to detailed navigation to bus/tram/underground stops,
- problems with identification of vehicle number and its destination, access to information which bus or tram arrived,
- request stops,
- validating and buying a ticket,
- the lack of a uniform system of marking.

Solution to increase flexibility & independance

Reliable, personalised, discrete



Means of
transport, stops,
communication
hubs



Beacons



Mobile APP

Pilot implementation



Pilot implementation: 1 bus line, the longest one

Features:

- navigation to bus/tram stops
- estimation on arrival time based on real time data
- voice info: your bus/tram has already arrived/next stops is yours/ get off now
- info about stops on the route
- info on delays, traffic jams + proposal of alternative options





Thank you
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