IMPROVING THE ACCESSIBILITY OF PEDESTRIAN CROSSINGS FOR PEOPLE WITH VISUAL IMPAIRMENTS

EXPERIMENTS WITH “TACTILE MATS”

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COMPLEX PEDESTRIAN CROSSINGS

- long distance crossings
- oblique crossings
- curved sidewalks
- noises blurring sound cues

Difficulties for visually impaired people
OBJECTIVES

Promote walking and active modes

Ensure safety and autonomy for vulnerable users

Meet a legislative requirement

Test devices, anticipate, innovate
**METHOD**

**Partnership**

**Preparation and product selection**

**Phase 1**: tests on a road closed to traffic

**Phase 2**: tests in real conditions

**Results**

**Perspectives**
PREPARATION AND PRODUCT SELECTION

8 different tactile devices selected for phase 1 (non-traffic areas)
PHASE 1 : TESTS ON A ROAD CLOSED TO TRAFFIC

« Louise Bourgeois » road, Paris closed to traffic
Panel of 47 varied testers

4 days of observation and assessment
PHASE 2: TESTS IN REAL CONDITIONS

3 selected devices

« Rice grain like » patterns

Square patterns

Grooves in the direction of pedestrian traffic
PHASE 2 : TESTS IN REAL CONDITIONS

« Victor et Hélène Basch » square, Paris

- Grooves
- « Rice grain like »
- Square
PHASE 2 : TESTS IN REAL CONDITIONS

Tests on people with disabilities

Spot observations of users, interviews

Long-term observation of the evolution of devices

Acoustic measurements

Cyclist Comfort Assessment
RESULTS

Square patterns

easily detectable by the visually impaired

efficient guidance during crossings

comfortable for other users

no additional noise disturbance
PERSPECTIVES

Deployment of the device in other Parisian crossings

Work to standardize the device
THANK YOU FOR LISTENING

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