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MODERN TECHNOLOGIES FOR ORGANIZATION OF BARRIER-FREE ENVIRONMENT RAILWAY STATION

17-18 October 2013

Sylvain DENONCIN
CEO, EO GUIDAGE, FRANCE
4B – Connecting stations with the city

Content

- The accessible & inclusion challenge

- Existing universal design solutions

- Examples of equiped venues

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Accessibility & Inclusion : a global challenge

Over **1 billion*** people in the world have some form of disability

* United Nations 2004

The Convention on the Rights of Persons with Disabilities
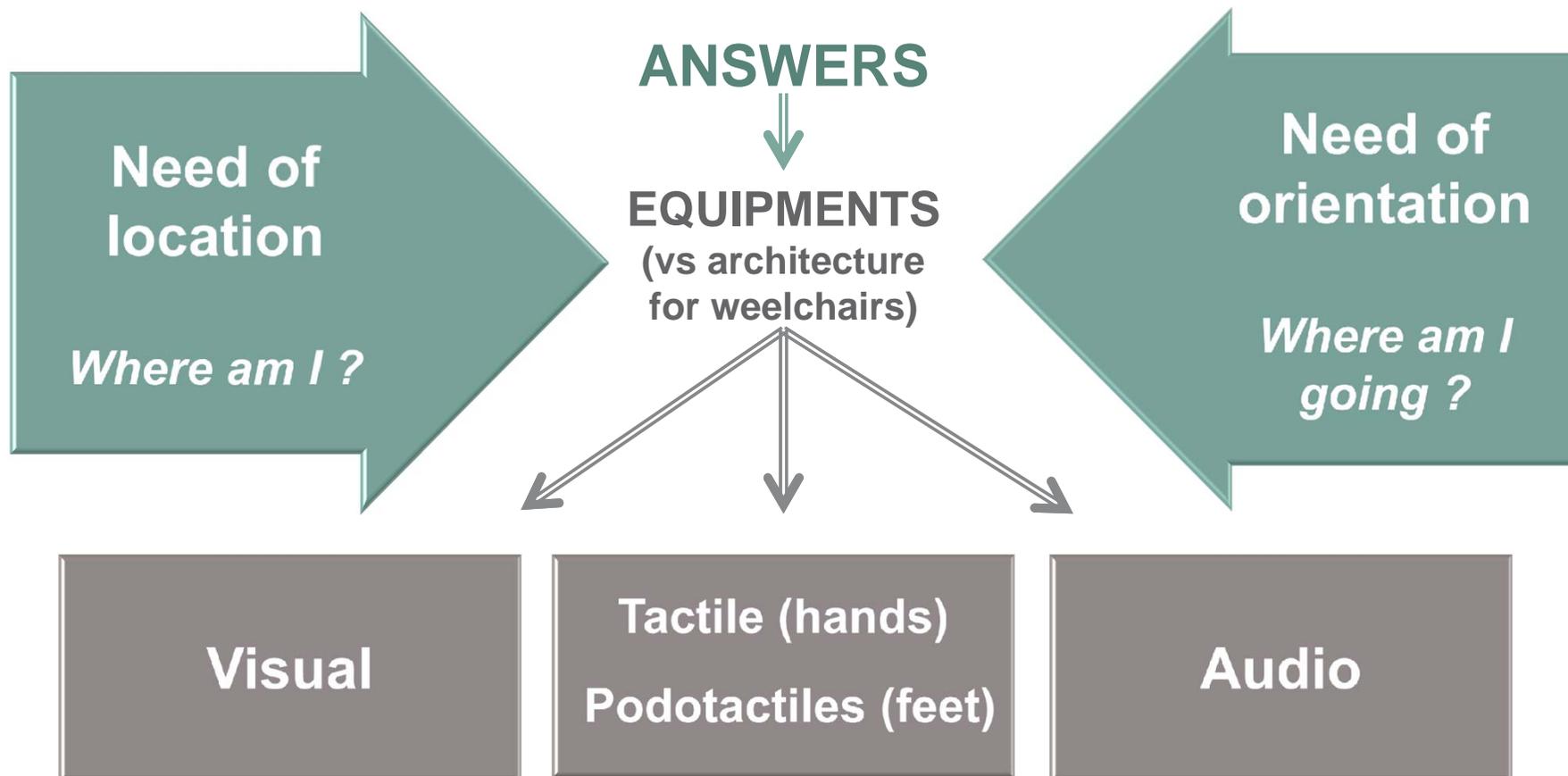
signed by **153 countries**

Article 9,
accessibility

Accessibility and inclusion of persons with disabilities are fundamental rights recognized by the Convention on the Rights of Persons with Disabilities and are not only objectives, but also pre-requisites for the enjoyment of other rights. The Convention (Article 9, accessibility) seeks to enable persons with disabilities to live independently and participate fully in all aspects of life and development. It calls upon States Parties to take appropriate measures to ensure that persons with disabilities have access to all aspects of society, on an equal basis with others, as well as to identify and eliminate obstacles and barriers to accessibility.

Special needs of visually impaired people

Need of location

Where am I ?

ANSWERS

EQUIPMENTS
(vs architecture for weelchairs)

Need of orientation

Where am I going ?

Visual

Tactile (hands)
Podotactiles (feet)

Audio

Types of technical solutions

Visual

- SIGNAGE
  - Contrast
  - Size
  - Pictograms (ISO 7001)
- MAPS
  - Same

Tactile (hands) Podotactiles (feet)

- TACTILE SIGNAGE
  - Embossed
  - Braille
- PODOTACTILE
  - ISO 23599 Tactile walking surface indicators
  - Local standards

Audio

- SPEAKERS
  - Sounds (sound design)
  - Voice (human or synthesis)
- Embedded technologies
  - Smartphones
  - Remote control
  - Others
- Concept of AUDIO SIGNAGE
  - Developed by EO GUIDAGE) in 1993

CONCEPT OF **MULTISENSORY SIGNAGE**

Travel chain

IDENTIFIED NEEDS AT EACH STEP >>> TECHNICAL SOLUTION

The travel chain includes the built environment, the road network and the public transport system. It must be organized to provide full accessibility for mobility challenged of disabled people.

No rupture for user

International standards

Vocal signage : universal solution for visually impaired people

NEEDS

- Locate public transport terminals
- Obtain information about transport given buy visual displays
- Locate crosswalk and know the trafic light color
- Locate building and its main entrance
- Be informed about the most accessible pathway
- Locate & reach the main reception
- Locate and use tickets distributors
- Understand the structure of the building
- Know where you are inside a building
- Find the right station platform
- Find entrance of the vehicule
- Ask for bus stop
- Etc.

Smart cities / Smart buildings

ANSWER
Give the possibility to VI people to communicate with the city and to locate equipments

IT SOLUTION :
AUDIO SIGNAGE
Install audio beacons with speakers activated by remote control or smarphone

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Vocal signage : universal solution for visually impaired people

More than **10.000**
buildings
equiped in France
- Public buildings
- Railway stations
- Museums
- Banks
- Post offices
- Tribunals
- Sport facilities, etc.

More than **100.000**
trafic lights for street & tramway
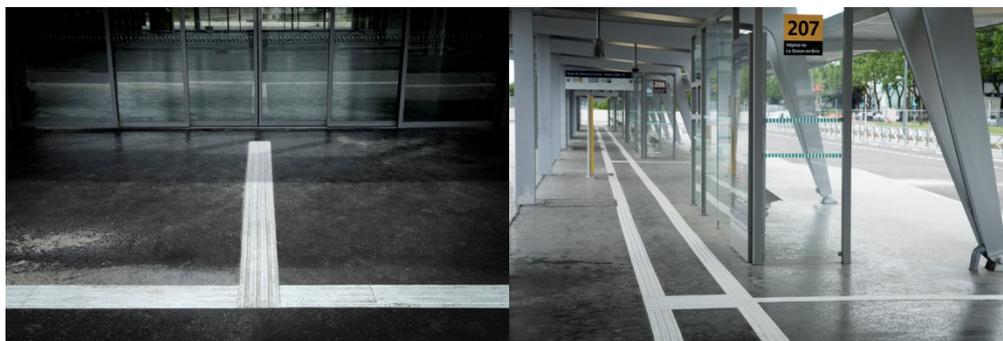
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Ex.1 : Train & bus station – RATP - Paris

Noisy-le-Grand Station

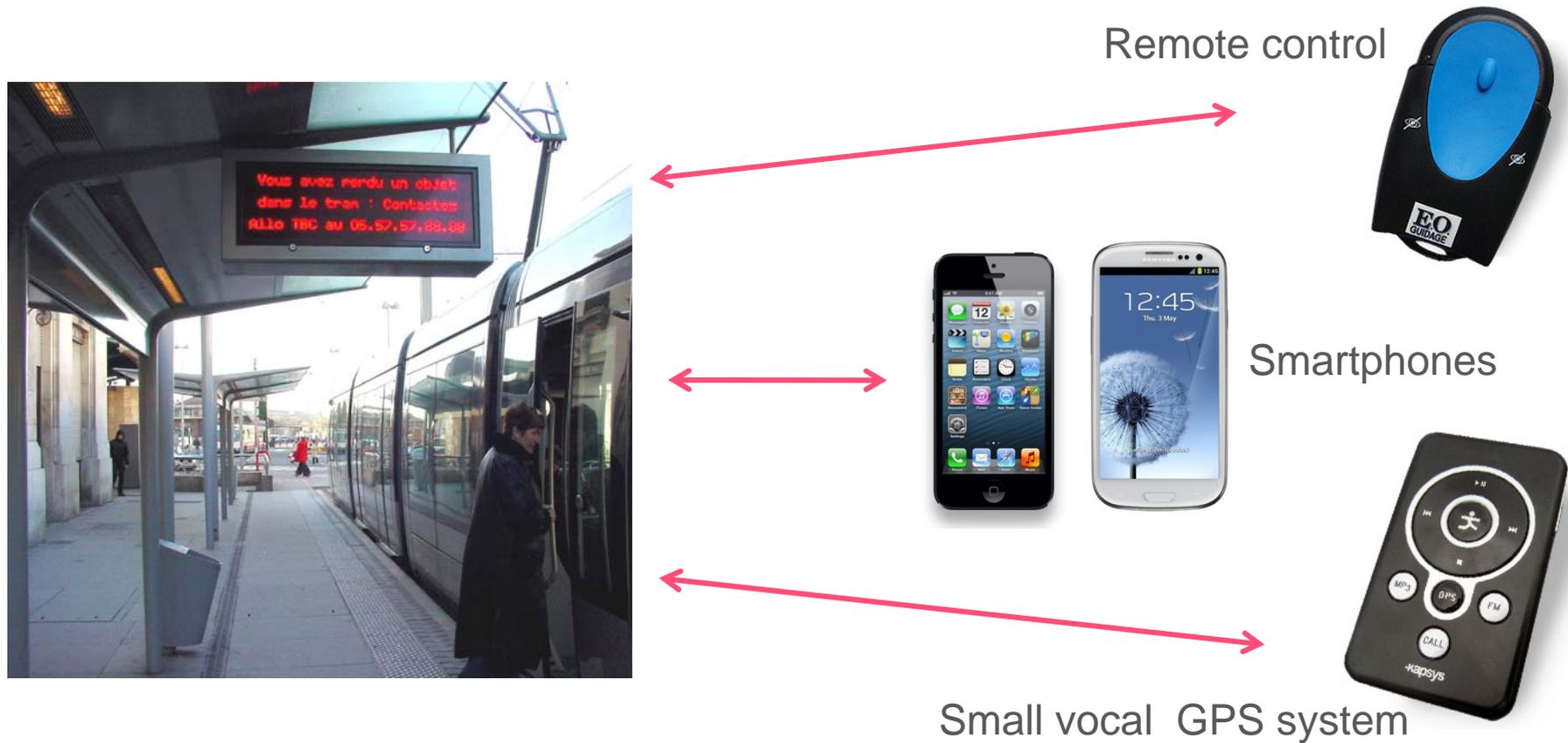Audio beacons to locate doors

Tactile guide path in rubber

Audio beacon to locate train platform

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Ex.2 : Tram & bus station – Rennes (FR)

Remote control

Smartphones

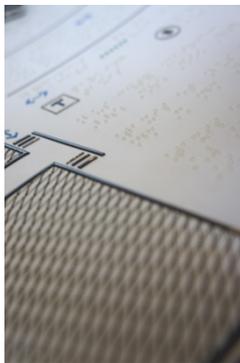Small vocal GPS system

Ex.3 : Railway station – Namur - Belgium

Audio beacons

Multisensory maps (visual, embossed, audio, braille)

Embossed booklet
A booklet, designed
and produced by EO
GUIDAGE, is given to
any VI people who ask
for it.

Ex.4 : Railway station – SNCF - Paris

Warning surface

Audio beacons
Tactile guide path
Braille tube labels for handrails

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...Thank you for your kind attention

CONTACTS

Worldwide : www.eo-guidage.com/en

sdenoncin@eo-guidage.com

Russia : www.semiver.com

semiver.llc@gmail.com