

27-28 NOVEMBER 2024

KARLSRUHE (DE)



Baden-Württemberg Ministry of Transport





Building accessibility with collective intelligence & open-source tools

09:00 AM - 11:15 AM 28 November 2024

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We create digital tools to make cities more walkable and accessible for everyone

- Software to map and analyse walkability/accessibility, so that cities can reallocate street space and rethink their mobility plan with their operators
- The Handimap routing engine (Web API), so that users / travellers / citizens can easily plan customized routes based on their mobility needs

















POLIS ES AND REGIONS FOR TRANSPORT INNOVATION





"INTEGRATING WALKING + PUBLIC TRANSPORT"

April 2024

On average 50% of public transport user's trip time is spent walking or waiting/transferring

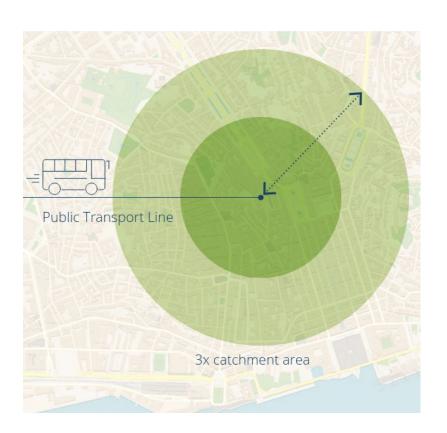




Walking & Public Transport



People are willing to walk longer distances (x3) to access public transport in cities that offer high-quality walking experiences



LEADING

THE WALKING MOVEMENT



Introduction to France's Accessibility Initiative for Public Transport



Make daily transportation more accessible, inclusive, and environmentally sustainable. Among the 5 key objectives:

- 1. **Promote New Mobility Services**, like Demand-Responsive Transport (DRT).
- 2. **Reduce Car Dependency**: improve access for disabled people.

Data Accessibility and MaaS

- All local authorities must map their public transport and street accessibility according the NeTEx standard within a 200 m radius around main transport stops
 These data must be published on https://transport.data.gouv.fr
- French Regions must provide route planners that suggest accessible routes.



The NeTEx Standard & European Passenger Information Accessibility Profile

NeTEx (Network Timetable Exchange): European standard for sharing public transport data (stops, routes, timetables, fares, and indoor/outdoor accessibility)

For accessibility, NeTEx can be used to describe :

- outdoor pedestrian routes (roads),
- indoor pedestrian walkways and facilities
- transport platforms
- vehicles
- facilities



3 levels of accessibility:

- an assessment of accessibility by major disability family, based on compliance with 'wheelchair accessible' regulations...
- 2. the available services (toilets, ticket office, etc.)
- 3. a description of accessibility (routes and equipment)





Key Milestones in Accessibility Achievements

Accèslibre Mobilités

An open-source software, funded by the French Ministry of Transport

Allows local authorities to collect, edit and manage all accessibility information and export it in NeTEx accèslibre

MOBILITES

Accessibility Work Groups

Created in 2028

Gather cities, associations, companies to define standards and good practices to map accessibility and compute routes





Acceslibre Mobilites: An Open-Source Tool for Accessibility Mapping



Project started in 2022 / Funded by French Ministry of Transport

2 years to create and test a desktop / mobile software suite to map accessibility according to the NeTEx Accessibility standard

Five cities to test the tools :



The only tool that can create and manage NeTEx Accessibility data

Now used in production in 3 urbans areas (around 3000 km mapped).

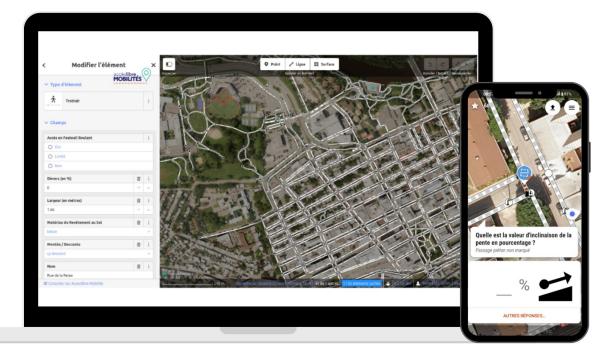


This 3 cities will then use this data to improve their routing engine.

Also tested in Quebec City (Canada).



Acceslibre Mobilites: An Open-Source Tool for Accessibility Mapping



Desktop Web App Visualize along with city data / 360° images Create, Validate, Import / Export

Field Data collection App for Professionals

Fill all attributes Make small fixes on geometries Take pictures and notes

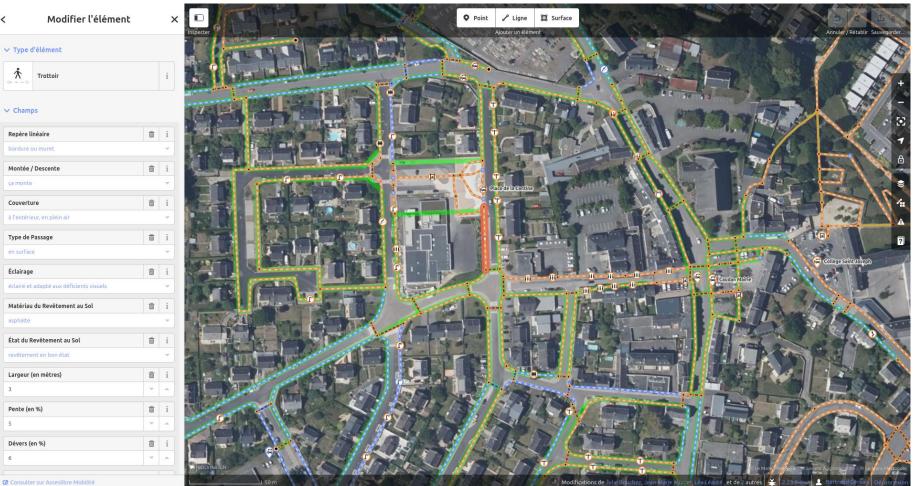
Field Data collection App for Citizens Fill some attributes

Take pictures and notes Intuitive UX / ergonomics

Common requirements 100% open source technology Can be installed on premise Multi-user Multilingual Data interfaces to integrate into GIS tools



Acceslibre Mobilites: An Open-Source Tool for Accessibility Mapping



ANNUAL CONFERENCE 2024 POLIS

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✓ Type d'élément Trottoir

✓ Champs Repère linéaire

Montée / Descente

Couverture

Type de Passage en surface

Largeur (en mètres)

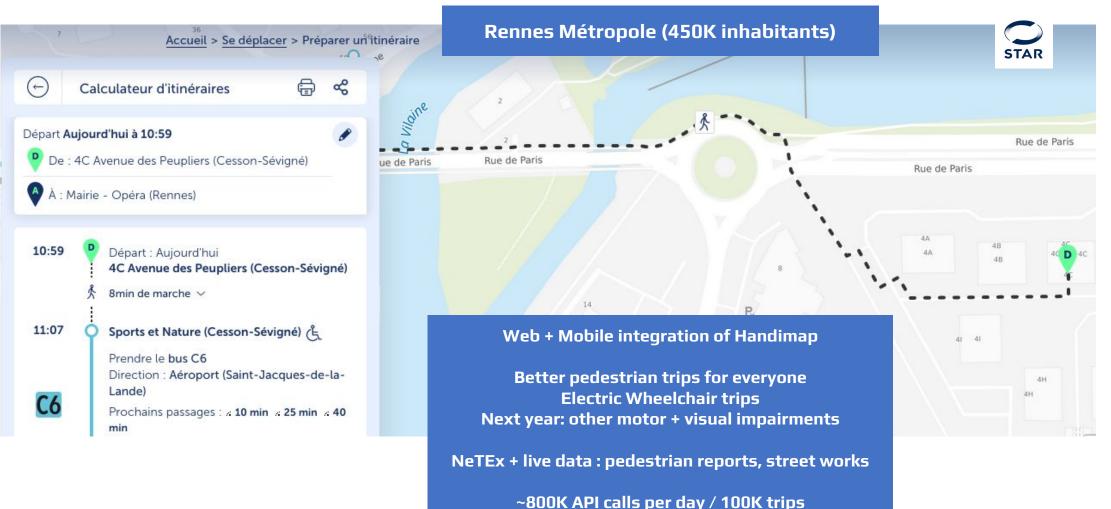
Pente (en %)

Dévers (en %)

3

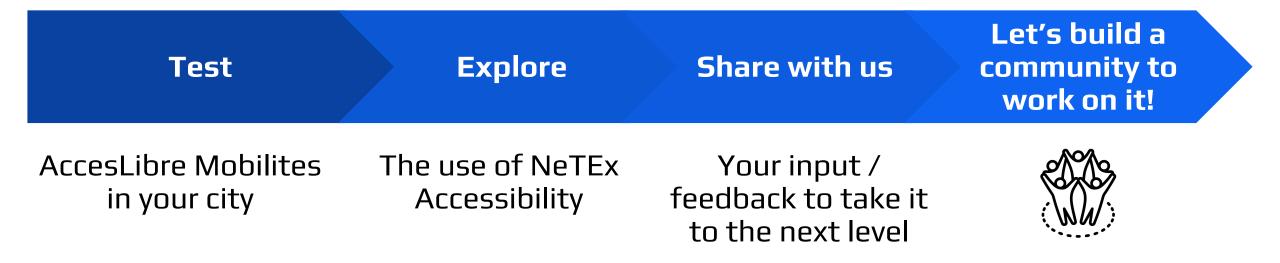
Éclairage

Routing using NeTEx Accessibility data





Future Steps for Enhanced Accessibility Across Europe







Thank you for your attention!

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For more information:

www.someware.fr

<u>https://www.ecologie.gouv.fr/politiques-publiques/donnees-daccessibilite</u>



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