

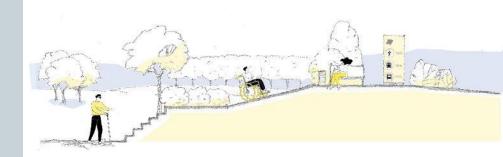
CE-Spaces4Al Making Tourism Accessible: Capturing Barriers for Persons with Disabilities with Mobile Devices

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19.9. 2023

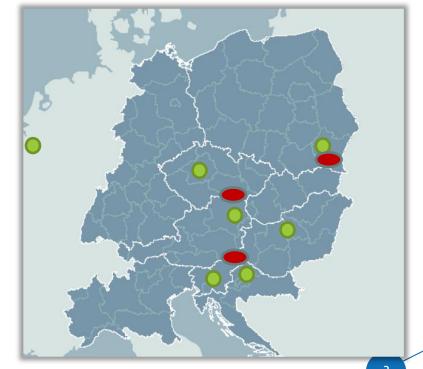


- A. Project Accessible Spaces for All
- B. Data collection process inclusive approach
- Data collecting with mobile devices

# Accessible Spaces For All Ce-spaces4all Project Identification

- 12 partners
- 16 associated partners
- 6 CE countries and 1 EU organisation
- **03.** 2023 02. 2026
- 3 pilot regions
- www.interreg-central.eu/projects/CE-Spaces4Aall





#### **Project objectives**

# IMRPOVE GOVERNANCE AWARENESS-RAISING CAPACITY BUILDING ON ACCESSIBILITY FOR PWD CHANGE OF BEHAVIOUR

Developing a joint tool for evidence-based territorial planning
Developing tools and services for independent tourism travel of PWD
Mainstreaming and policy uptake

## Data collection process to improve accessibility for persons with disabilities

- data collection process for collecting information about accessibility for persons with disabilities in the context of tourism.
- The collected data will provide valuable information to assist persons with disabilities in making informed decisions about their travel plans, ensuring that their specific needs are met.

#### Data collection process - use of spatial data

The data collecting process begins with the acquisition and integration of open spatial data resources.

- 1. QGIS
- 2. QField for QGIS
- 3. ESRI basemaps
- 4. Open Street Map
- 5. Google Street View





All photos: Geodetic institute of Slovenia

# Data collection process - inclusive approach - accessible places for all

The data collection process will focus on capturing information that is relevant to persons with:

#### Mobility impairments | Visual impairments | Hearing impairment

**Standardised accessibility criteria and guidelines** are used to evaluate and record the accessibility status of pathways, transportation facilities, public buildings, and other relevant amenities.







### Inclusive approach - accessible places for all

- Adopting the principles of inclusive design from the beginning ensures that spaces and products
  are accessible to the widest range of individuals and that the persons with disabilities are
  involved in the proces (eg. Planning, data collecting, writing of methodology)- a more inclusive
  and equal society
- It benefits one target groups and does not harm others (eg.TWSI, audible pedestrian semaphore, slopes, etc.)
- Data in Slovenia were collected for all 3 vulnerable groups

Identified categories that are key to improve accessibility and the development of tourism

products:



completely accessible object/area



not accessible object/area



All photos: Geodetic institute of Slovenia





#### Data collection - rules and guidelines

The methodology specifically refers to the rules and guidelines outlined in the:

- ISO standard 21542:2021 Building construction Accessibility and usability
  of the built environment.
- ISO standard 21902:2021 Tourism and related services Accessible tourism for all - Requirements and recommendations

It provides **criteria for evaluating** the accessibility and usability of different elements within the built environment, facilitating the identification of potential barriers and opportunities for improvement in urban and natural / rural area.

### Data collecting



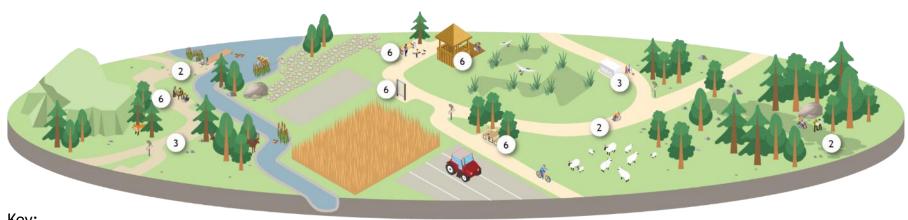
- Key:
- 1 Barriers
- 2 Paths
- 3 Tourism facilities

- 4 Public transport stations
- 5 Parking place
- 6 Points of interest

- 7 Tactile walking surface indicators
- 8 Audible pedestrian semaphore

### Data collecting

#### Natural or rural area:



Key:

1 Barriers

2 Paths

3 Tourism facilities

4 Public transport stations

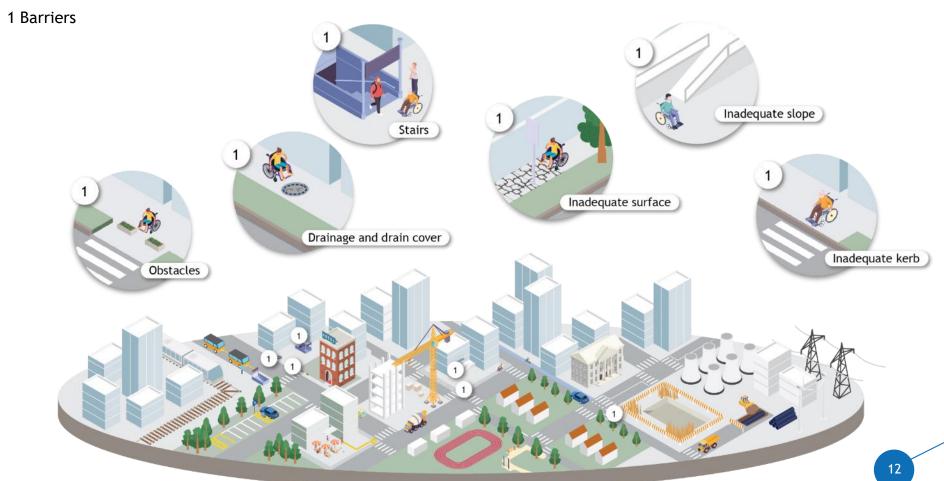
5 Parking place

6 Points of interest

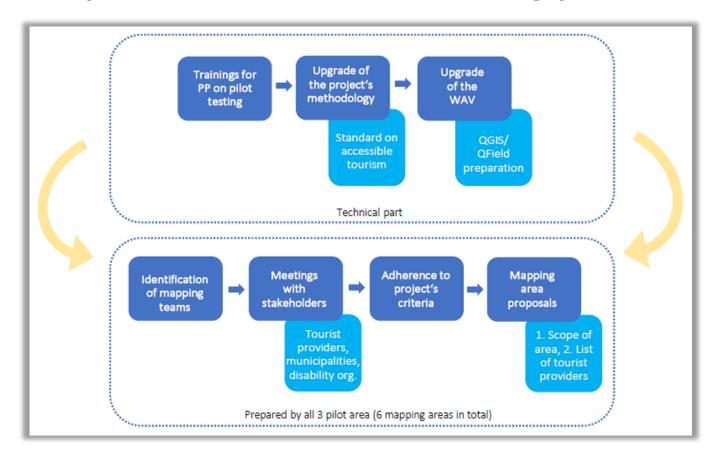
7 Tactile walking surface indicators

8 Audible pedestrian semaphore

Key:



### Preparation for data collecting process

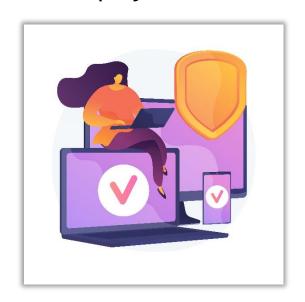


### Phases of data collecting

The data collecting process for this project is divided into 3 distinct phases



Office data collecting



Verification of data



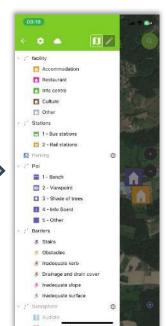
Field data collecting

### Data collecting

#### Data capture in QGIS



### Data capture and verification on the field with QField





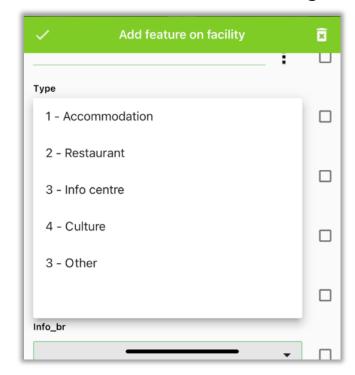
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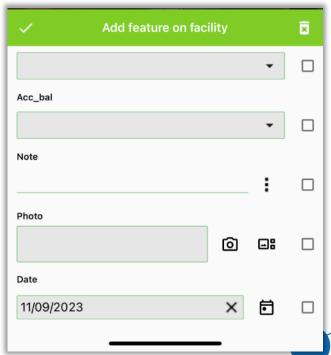
# Data collecting with mobile devices and verification on the field with Qfield

#### Adding point data



#### **Editing attributes**

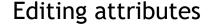


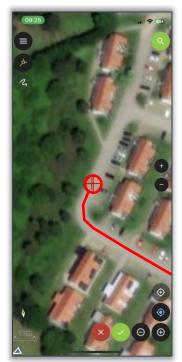


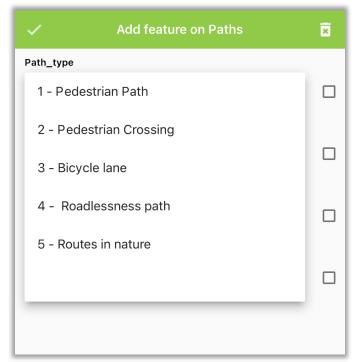
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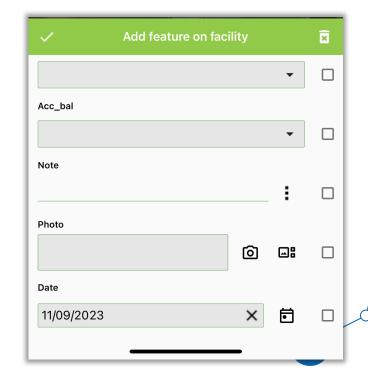
# Data collecting with mobile devices and verification on the field with Qfield

#### Adding line data









All photos: Geodetic institute of Slovenia

# Data collecting with mobile devices and verification on the field with Qfield





CE-Spaces4All Thank you for your attention! Time for Q&A