# HAVE TROUBLE FINDING THE WAY?

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# STARTING IDEA

Allowing people to navigate the city on their own terms, using accessible routes based on their actual needs.

# LITERATURE REVIEW ON THE OUTDOOR NAVIGATION

- The focus is on accessibility issues related to movement disabilities, mainly for wheelchair users (e.g., Google Maps' wheelchair-accessible option), with visual impairment also considered.

- Several apps, such as AXS Map, Wheelmap.org, and AccessNow, address this issue, but none we analyzed are fully functional—most are outdated, lack data, or rely heavily on crowdsourcing.

- A lot of research has been done around the theme over time, in line with technological developments. AI is also being used (analysing street level images to assess the presence/state of sidewalks and overall accessibility)

# ISSUES OF THE OUTDOOR NAVIGATION

- A lot of data is needed to include different types of disabilities.
- Extensive data collection is required, which is why crowdsourcing is widely used in the field.
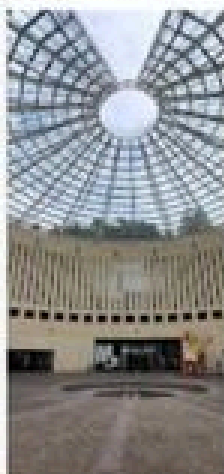- However, crowdsourcing imposes limitations on feasibility and usability.

Search by category & address (coffee, new york)

# E.MOTION BIKE SHARING PI...
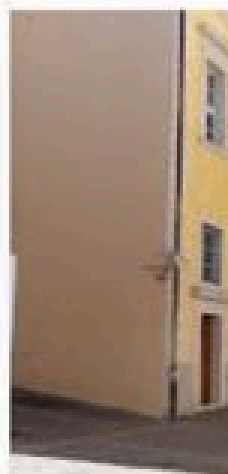
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**ADD REVIEW**

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**ADD REVIEW**

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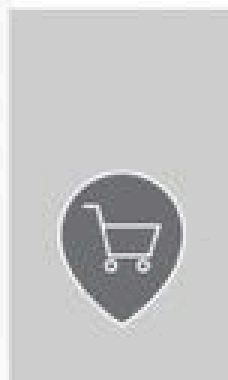
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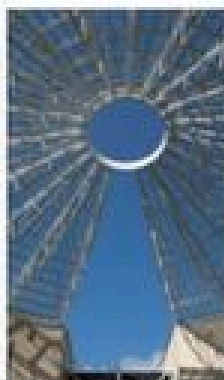
| ENTRANCE | INTERIOR | RESTROOM |
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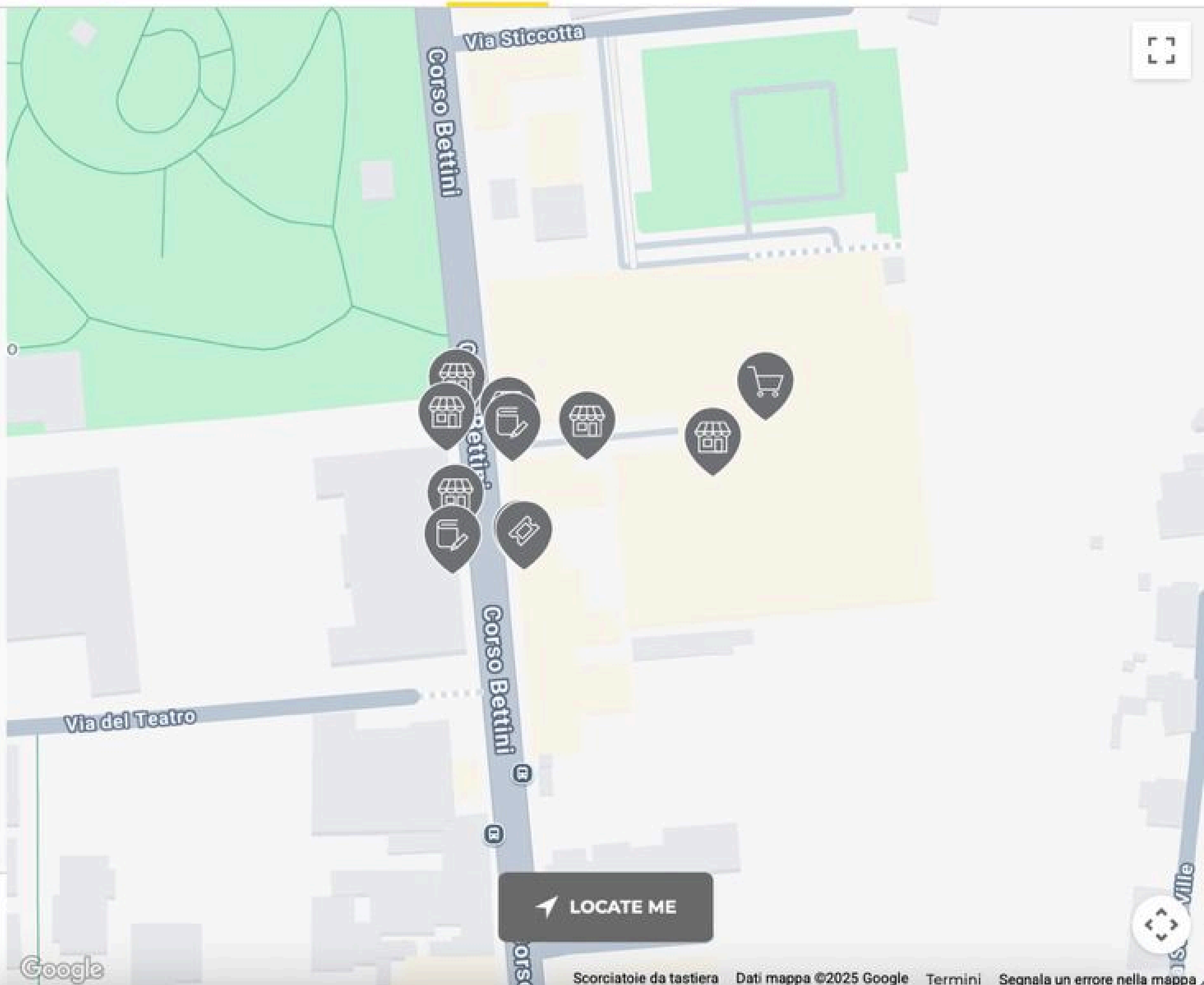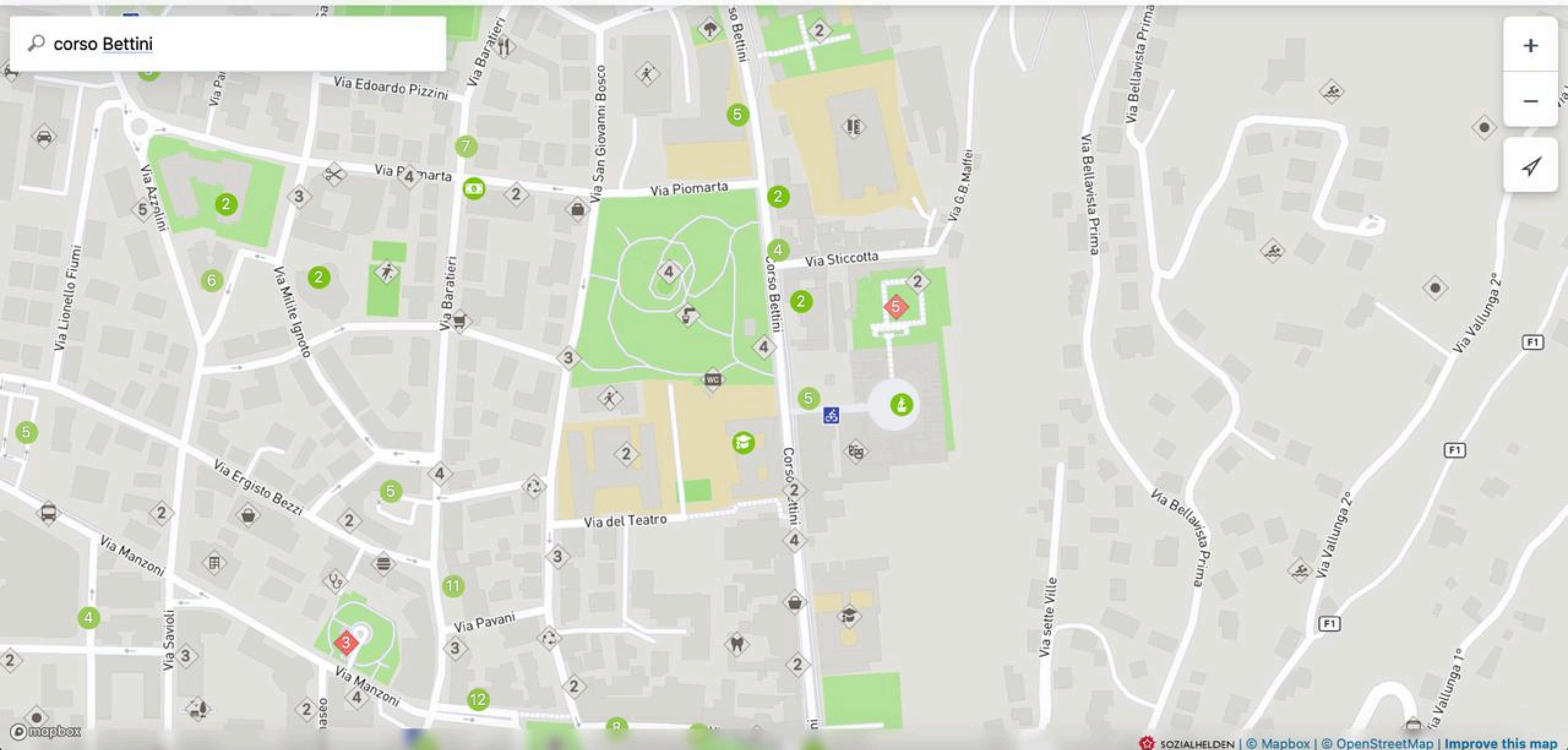
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# NEW IDEA

Allowing people to navigate unfamiliar buildings using accessible routes based on their actual needs.

# LITERATURE REVIEW ON INDOOR NAVIGATION

**Main target:** Blind/visually impaired individuals and people with movement impairments.

**Existing solutions:** A few concrete options, such as MapsPeople and Pointr.

**Issues and challenges:**
- Reliance on others
- Complexity of indoor environments
- Limited adoption of technologies and services
- Loud noises and physical obstacles

**Implementation difficulties:**
High technology costs and the need for case-by-case customization.

# Make It Your Map

Determine your own mapping style with just the look, feel, and functionality that fit your needs or opt for the pre-determined best practice map style.
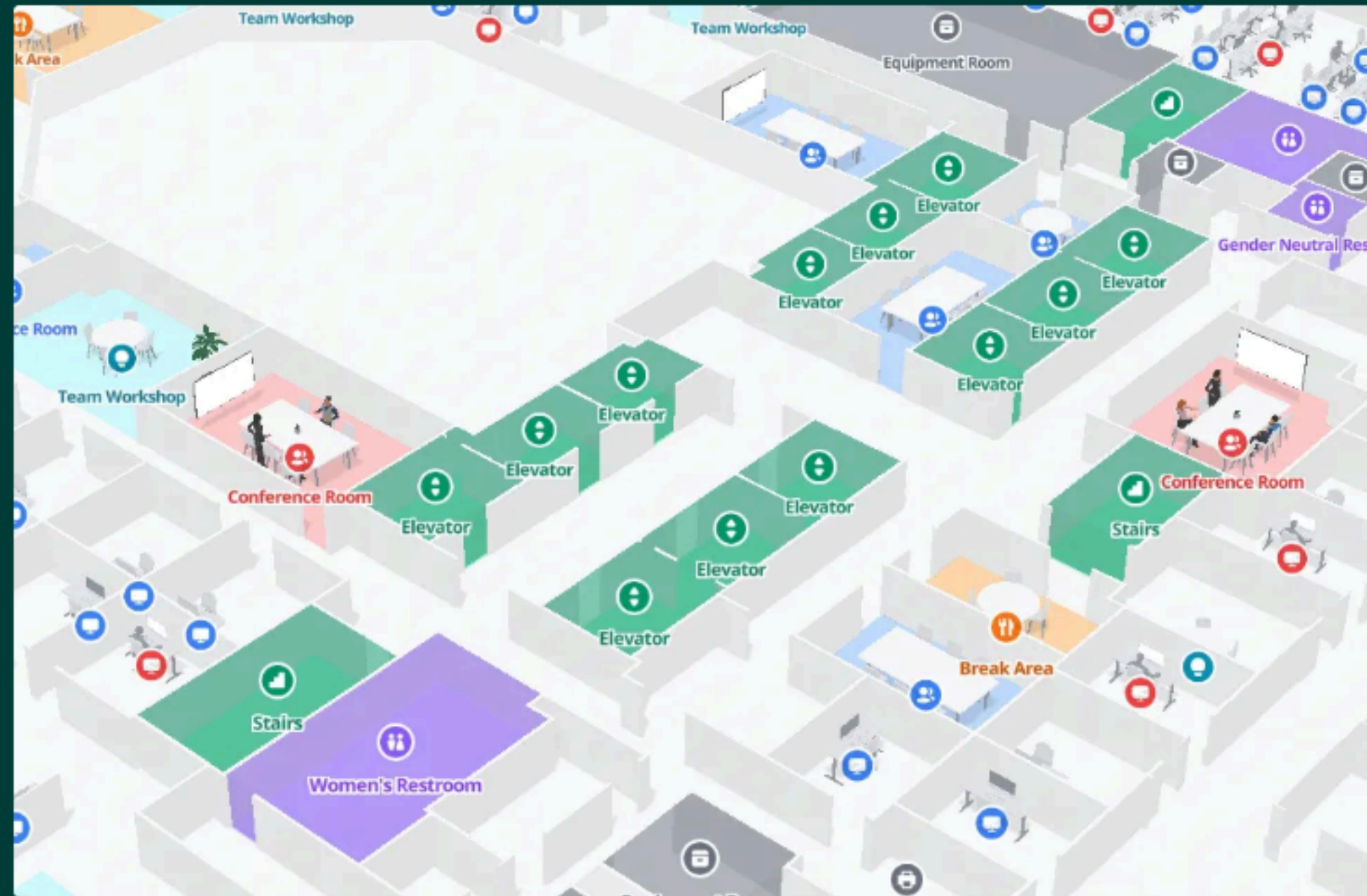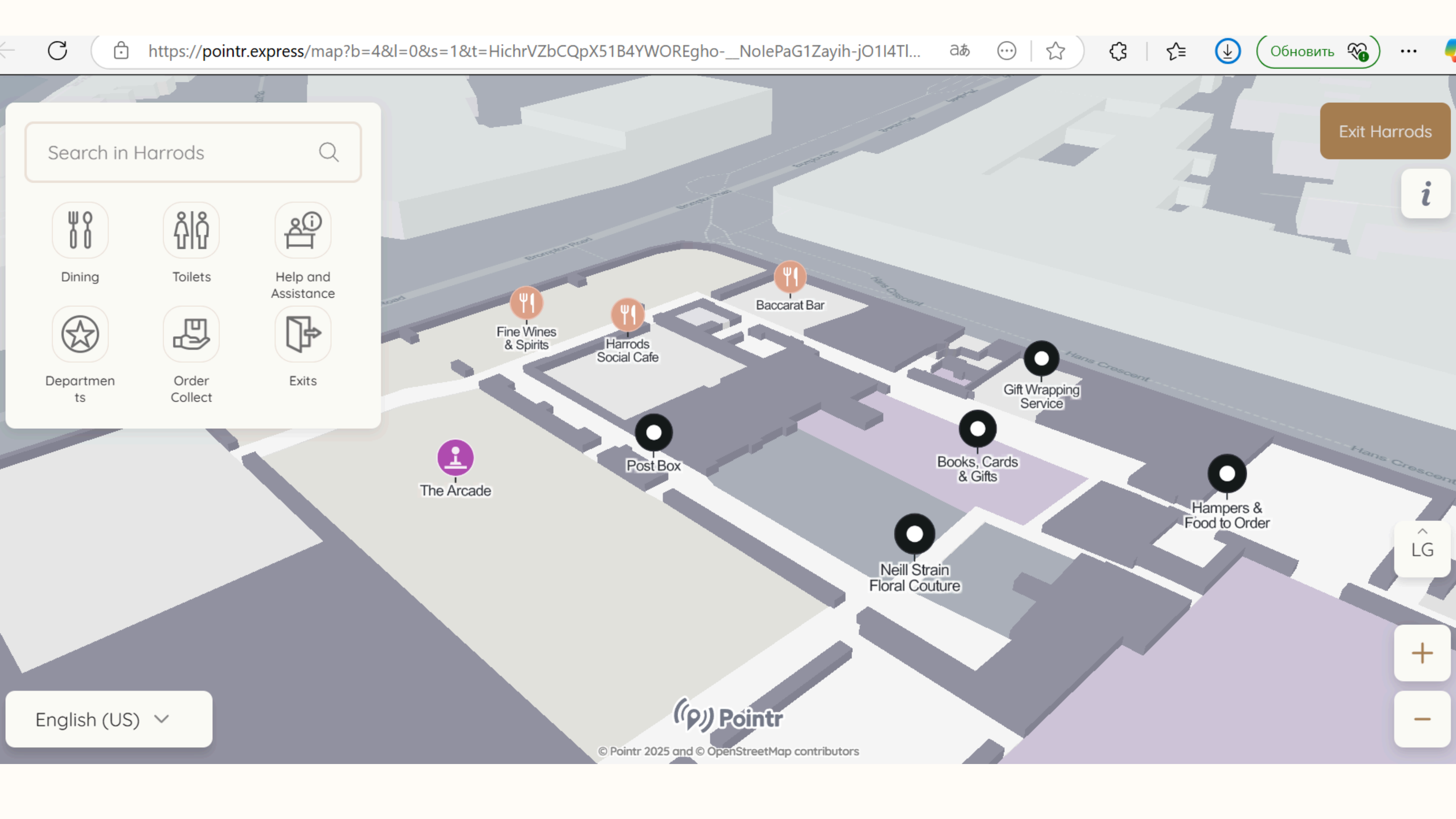


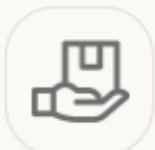**3D**    2D    Colors    Labels    Zoom    Custom Models    Light Mode

Exit Harrods

Search in Harrods

Dining

Toilets

Help and Assistance

Departments

Order Collect
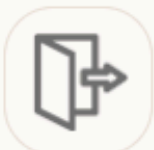
Exits

Baccarat Bar

Fine Wines & Spirits

Harrods Social Cafe

Gift Wrapping Service

Post Box

Books, Cards & Gifts

Hampers & Food to Order

The Arcade

Neill Strain Floral Couture

LG

English (US)

Pointr

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# TAKE HOME MESSAGES

- Universal design should be a key focus in this case to ensure accessibility for all.
- Priority should be given to blind, visually impaired, and movement-impaired individuals.
- Multimodal indoor navigation is essential to accommodate a wide range of scenarios and needs.

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