

Oachkatzeschwoach



Photo — Dennis
or [browse files](#)

Dennis Orlando

HCI Designer



Photo — Mattia
or [browse files](#)

Mattia Franzin

Full stack Developer



Marco Gaudenzi

HCI Designer

SLIDE 2 – PROJECT

MapView

DATA SOURCES

GeoNetwork

Open geospatial catalogue.

civis.bz.it

Public data portal of South Tyrol.

Hopes & Dreams

RAG over unused datasets

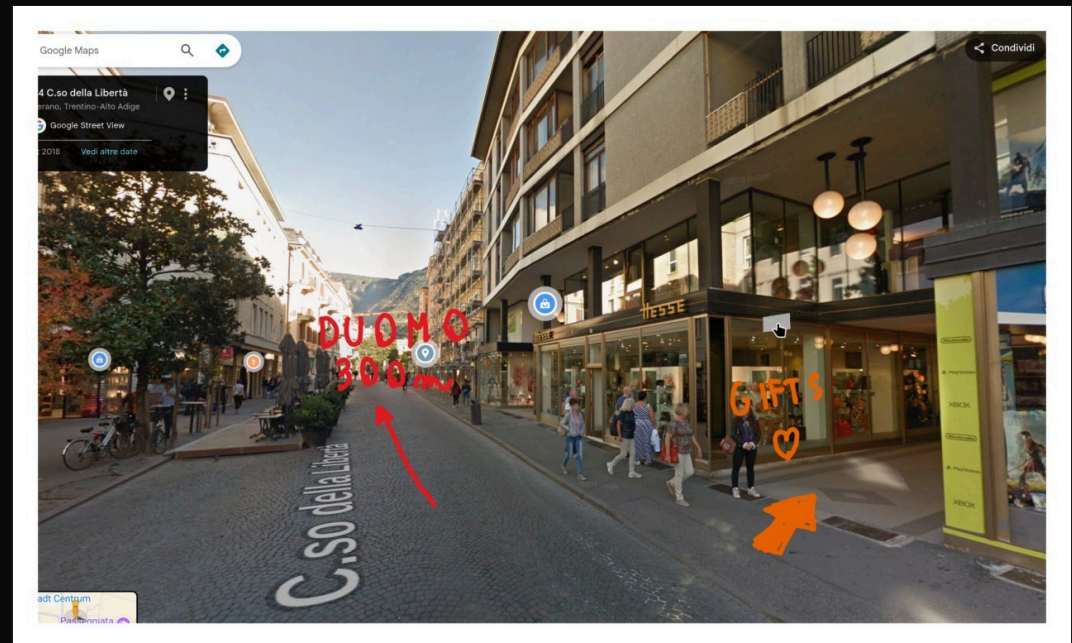
Pull context from open datasets nobody maps today and answer questions about a place in plain language.

Skyline matching

Match the mountain profile in the camera view against terrain data to place the user and name what they see.

OSM path finding

Walking routes and points of interest drawn straight from the OpenStreetMap network.



ANNOTATED STREET VIEW — TARGET EXPERIENCE

How We Solved the Challenges

POI placement

Real-time raycasting onto the rendered mesh, not raw elevation data.

North alignment

Compass calibration with magnetic declination correction, synced from a companion Android app.

Data overload

25,000+ Open Data Hub POIs cut down by spatial deduplication and category filtering.

Real-world scale

Distant peaks projected onto a fixed-radius sphere, preserving true bearing and elevation angle.

Table anchoring

Meta Scene API auto-detects real tables by semantic label, with manual placement as fallback.

Team integration

Merged parallel branches — rendering, gestures, data pipeline — into one build under time pressure.