OPENSTREET MAPPING ACTIVITIES IN MONGOLIA

PUBLIC LAB MONGOLIA
CULTIVATING HEALTHY ENVIRONMENT & RESILIENT COMMUNITIES THROUGH OPEN DATA

OpenStreetMap is the free, wiki-world map

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CULTIVATING HEALTHY ENVIRONMENT & RESILIENT COMMUNITIES THROUGH OPEN DATA

OpenStreetMap

OpenStreetMap нь дэлхийн газрын зургийг бүхэлд нь нийтэд хүртээмжтэй, үнэгүй, хэн ч татаж авч болохуйц болгох зорилготой цахим төсөл. 2004 онд Английн оюутнуудын санаачилгаар эхэлсэн.

Сайн дурааараа ажиллаж буй мянга мянган хүмүүсийн хамтын хөдөлмөрөөр бий болдог. Хэн бүхэн нэгдэхэд нээлттэй.

SMART CITIES: MAPPING ULAANBAATAR

HOT Program · Mongolia · COMPLETED

Public Lab Mongolia

Our mission:

Cultivating a healthy environment and resilient communities through open data.

Mapathon program

Build network of local mappers

Promote OSM and use of geodata

Support data-based decision-making

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Mapathon series ~2019~

Local Universities

-National University of Mongolia

-Mongolian University of Life Science

-Mongolian National University of Education

-Mongolian University of Science and Technology

-Mongolian National University of Medical Sciences

Youth Mappers Internship Program ~2020~

-2020-Data Entry

1 university, 25 students, 17 provinces

-2021-Data Entry

3 university, 30 students, Ulaanbaatar city

-2022-Data Entry and Analysis

5 university, 30 students, Ulaanbaatar and Erdener city

Community Mappers Program ~2021~

-Participants from 21 provinces

-Mapping for essential services

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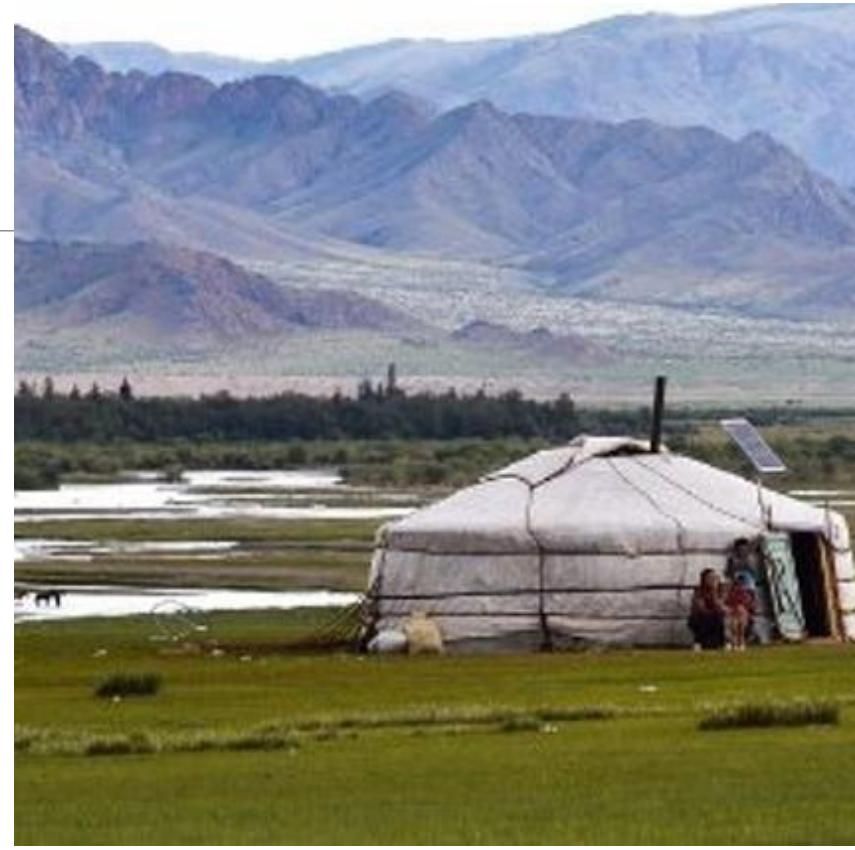
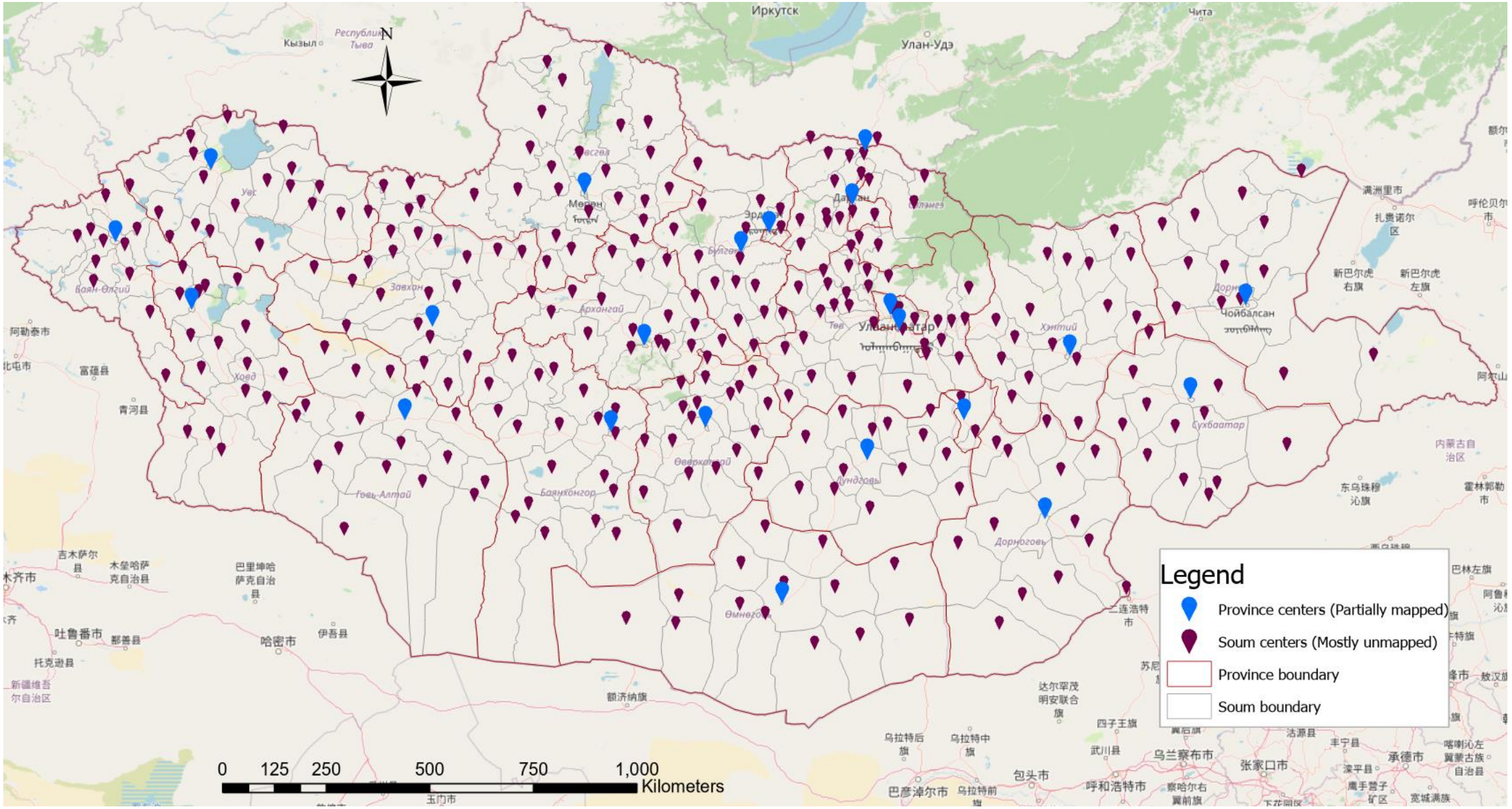


Mongolia briefly on OSM

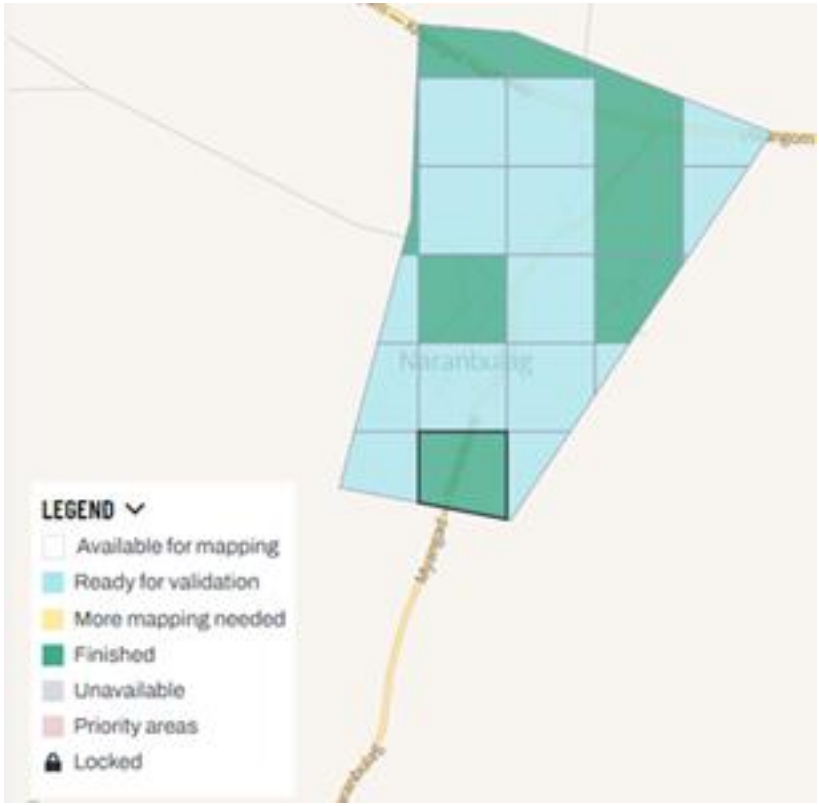
Settlements

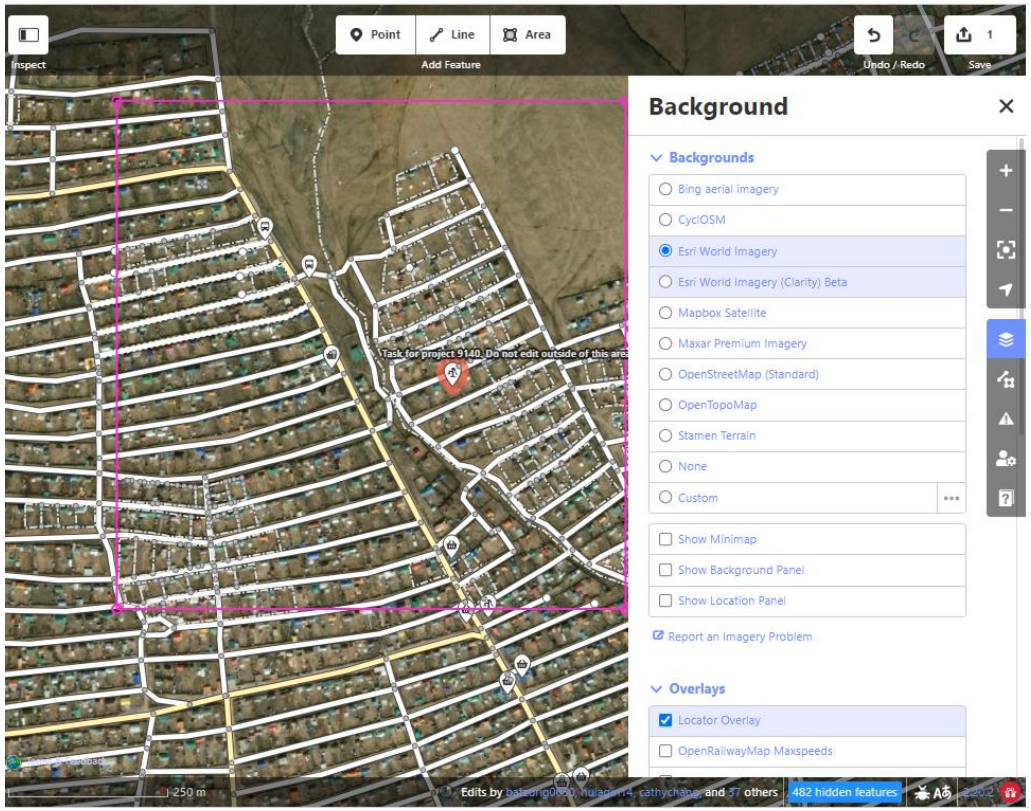
- Urban – partially mapped, need update
- Semi urban – partially mapped
- Rural – mostly unmapped


N
Legend
Province centers (Partially mapped)
Soum centers (Mostly unmapped)
Province boundary
Soum boundary
0 125 250 500 750 1,000
Kilometers

Tools: Tasking manager

Tasking Manager is a platform where individuals can team up for mapping in OpenStreetMap





https://tasks.hotosm.org/

2017
Present

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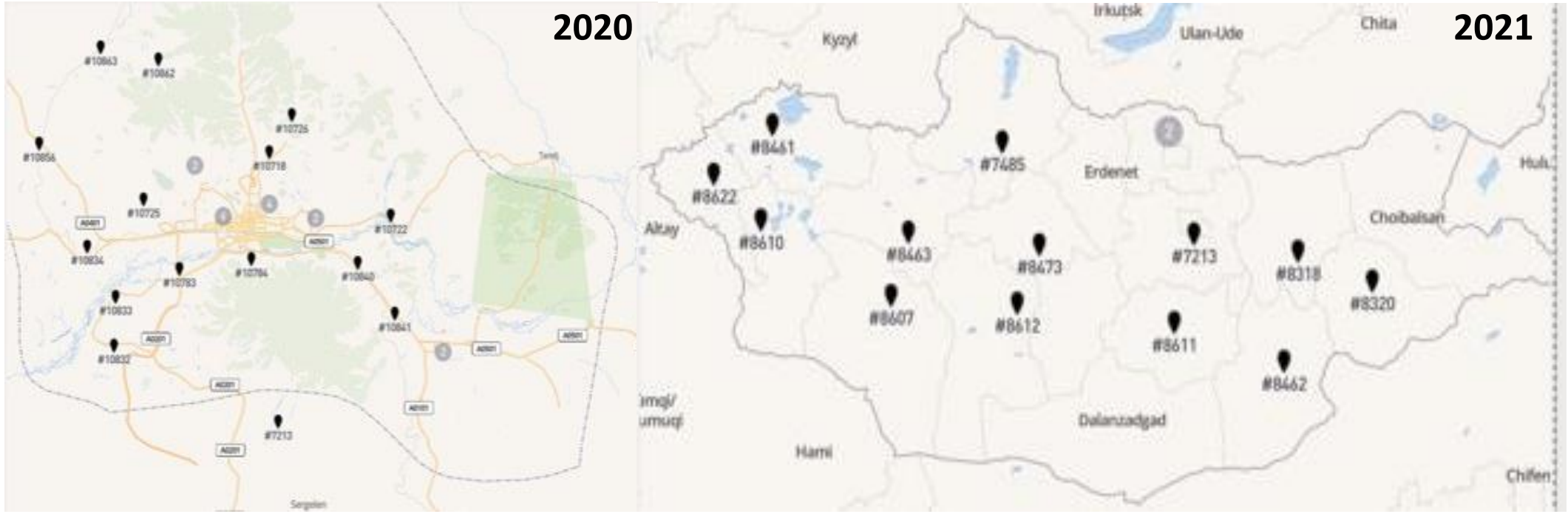
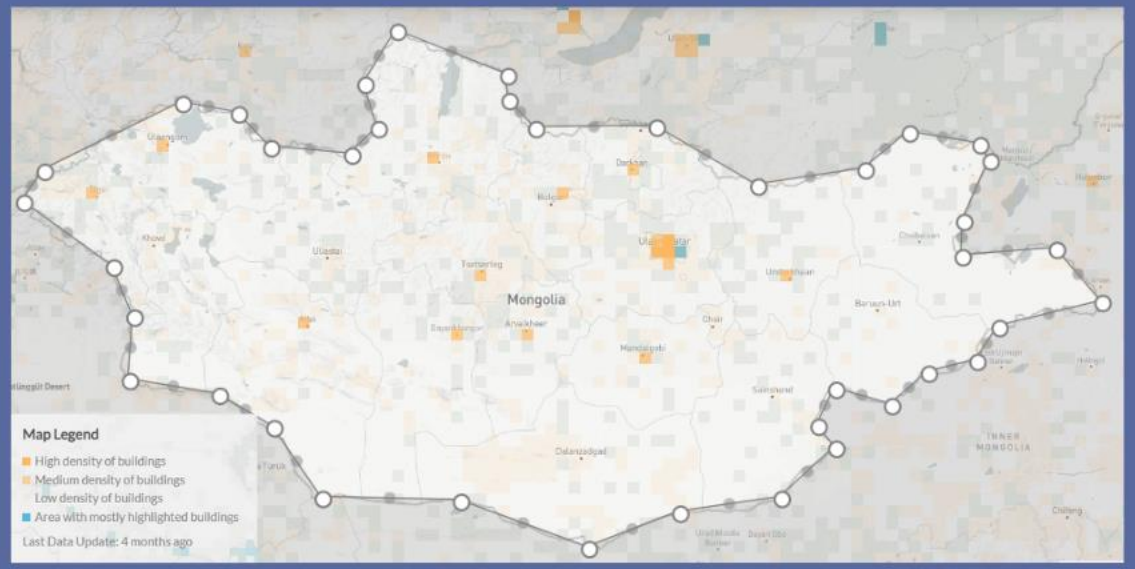
Current OSM mapping projects



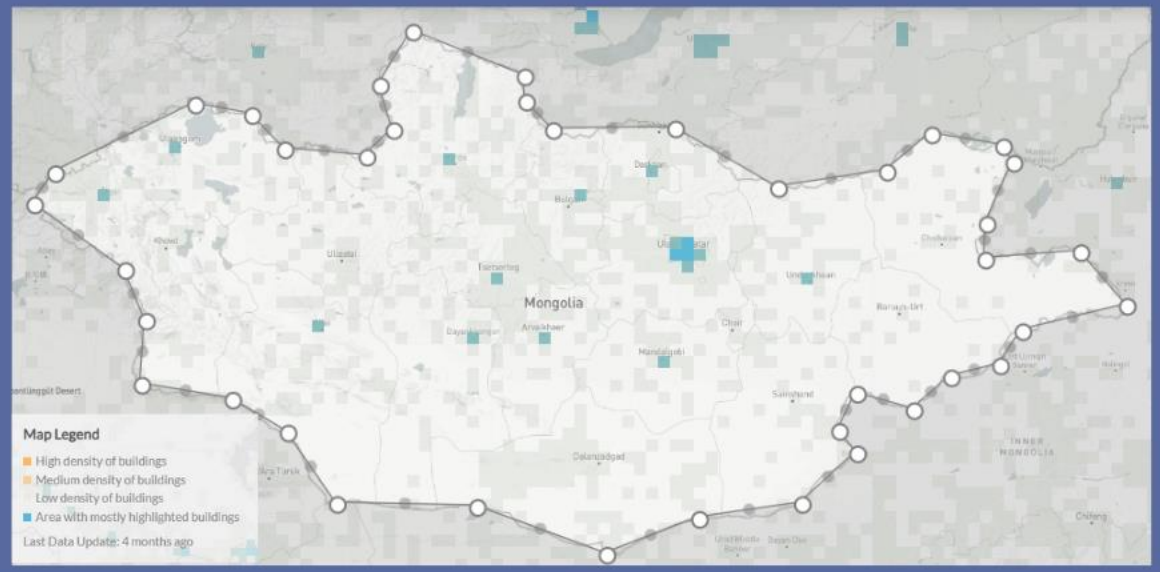
Buildings

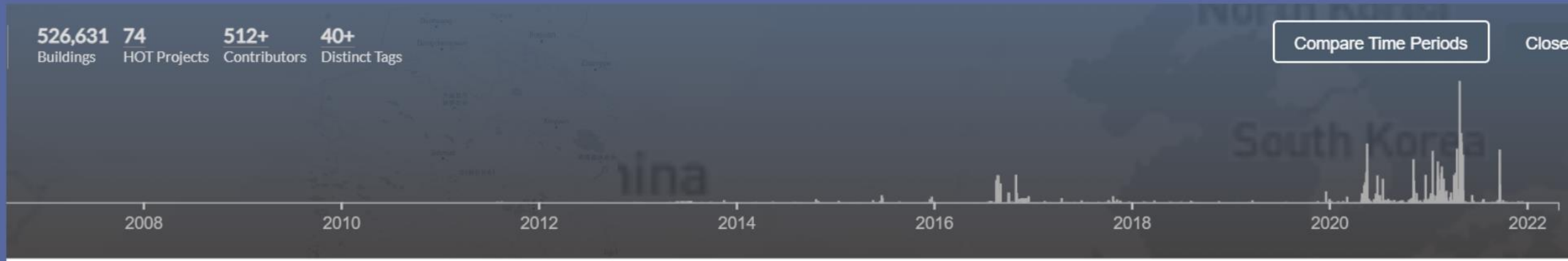
87163 → 526631

2018



2022

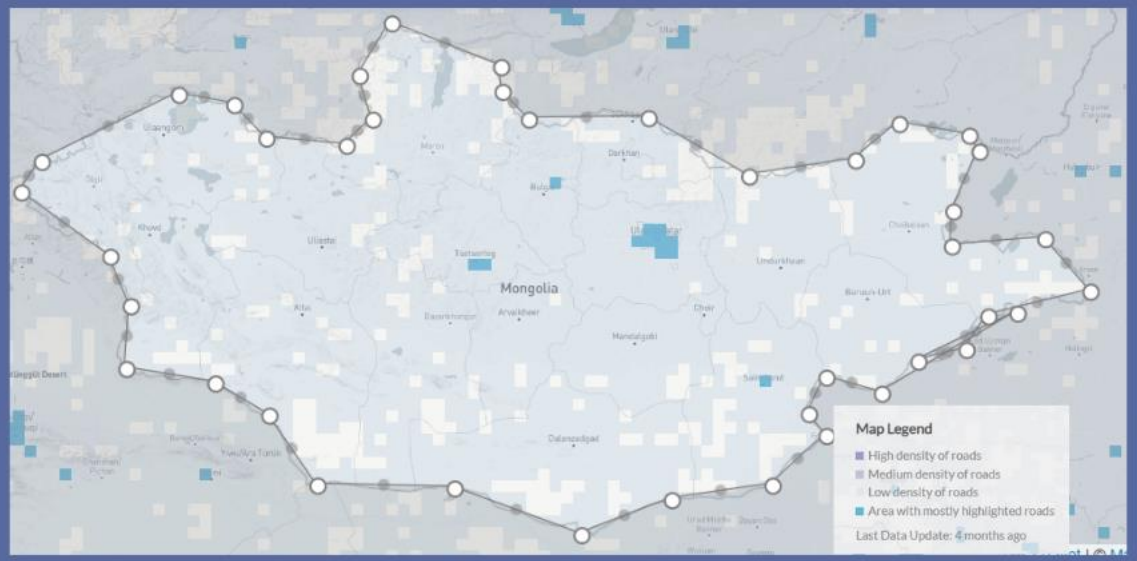




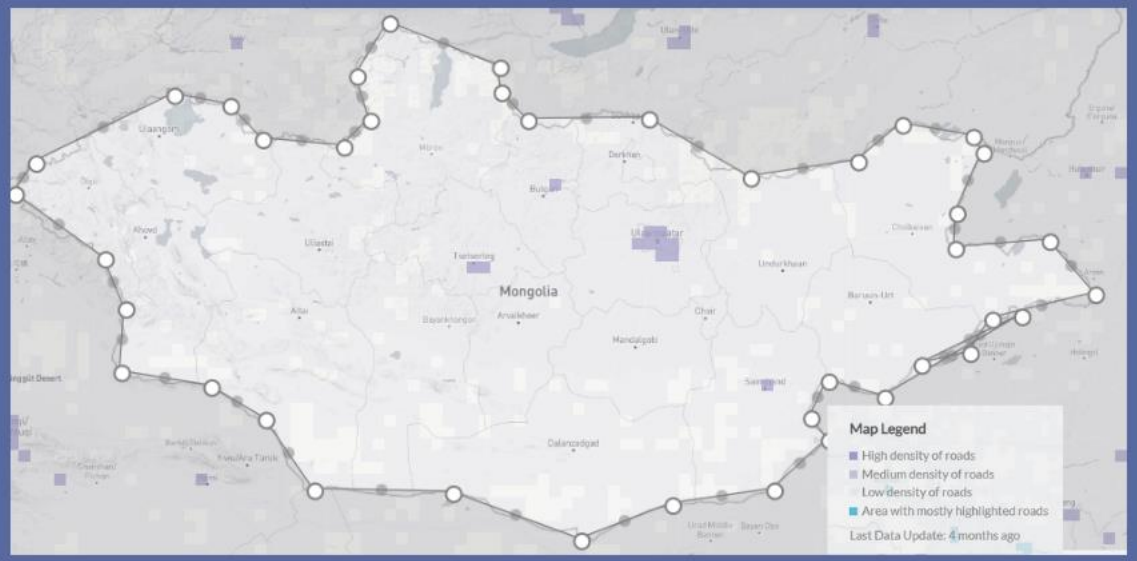
Road

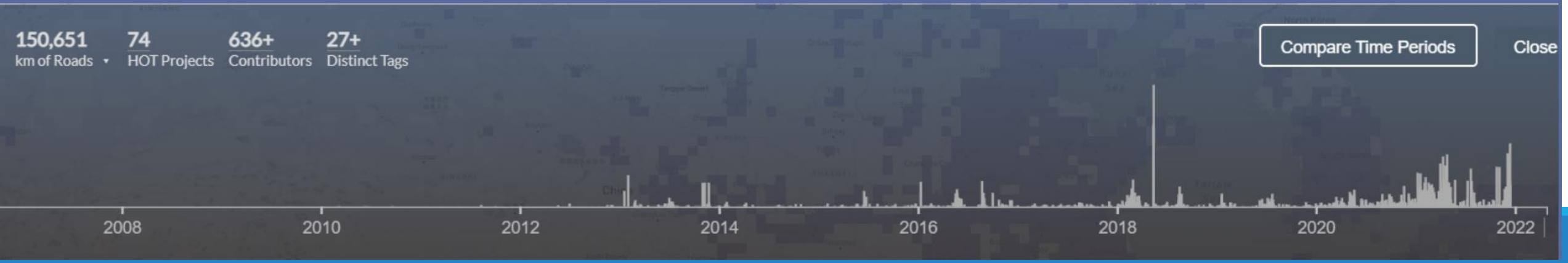
18058 → 150651

2018



2022





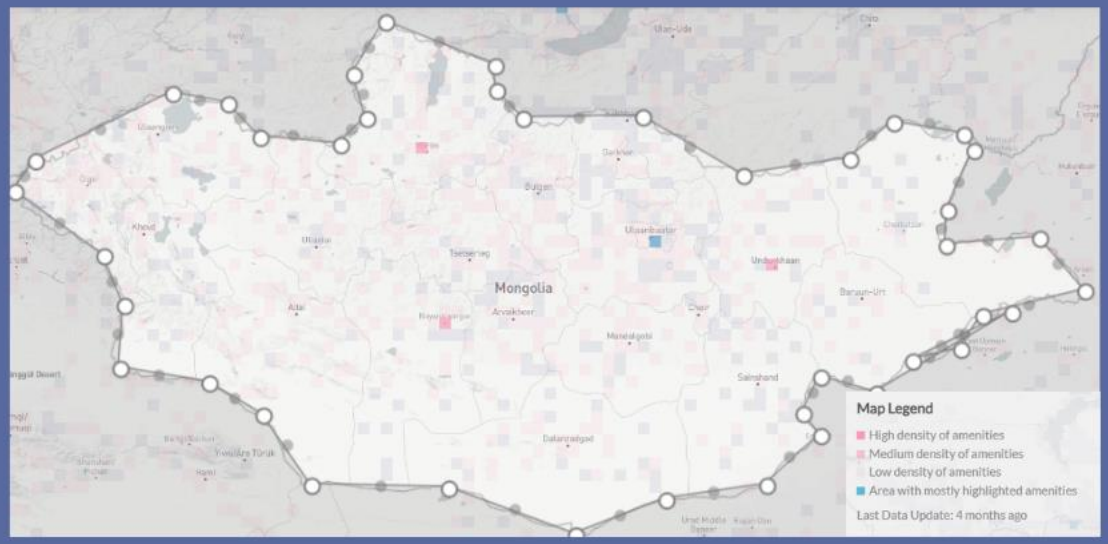
Amenities

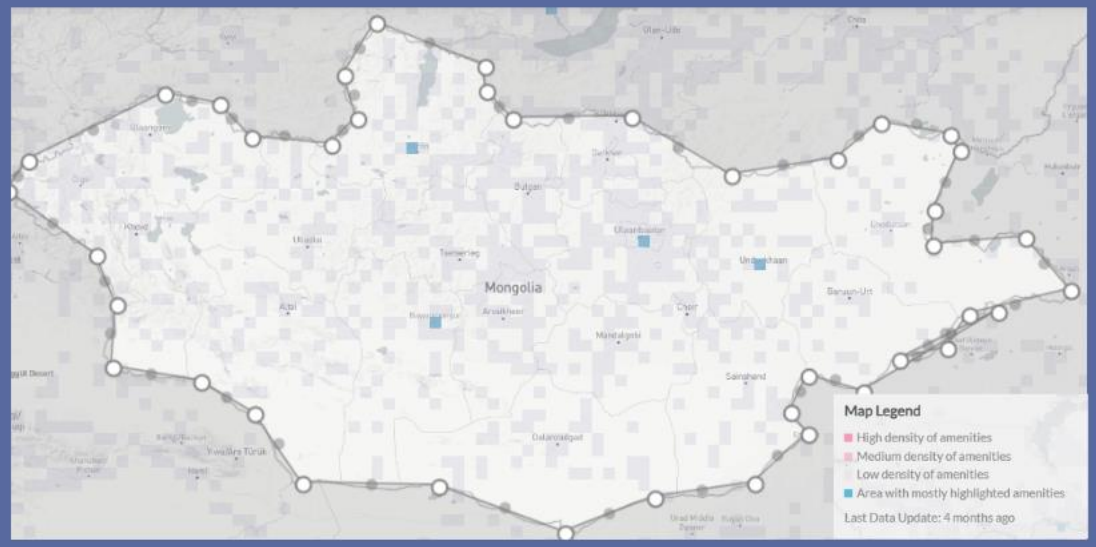
5017

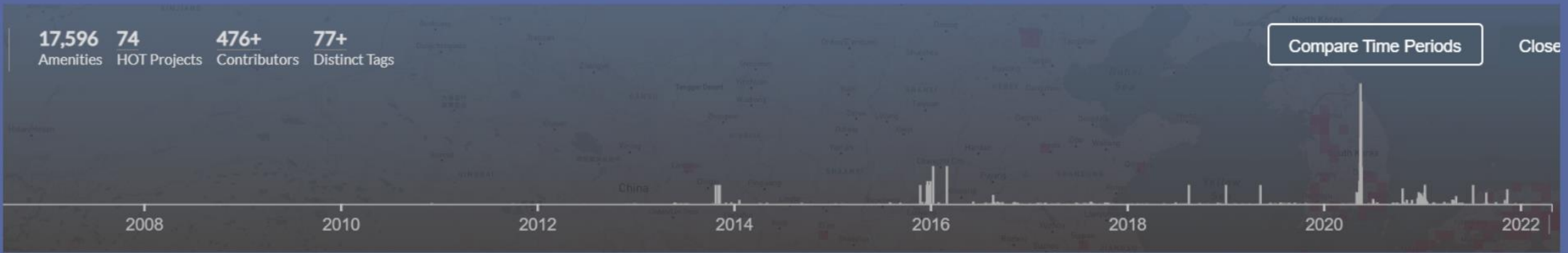
17596

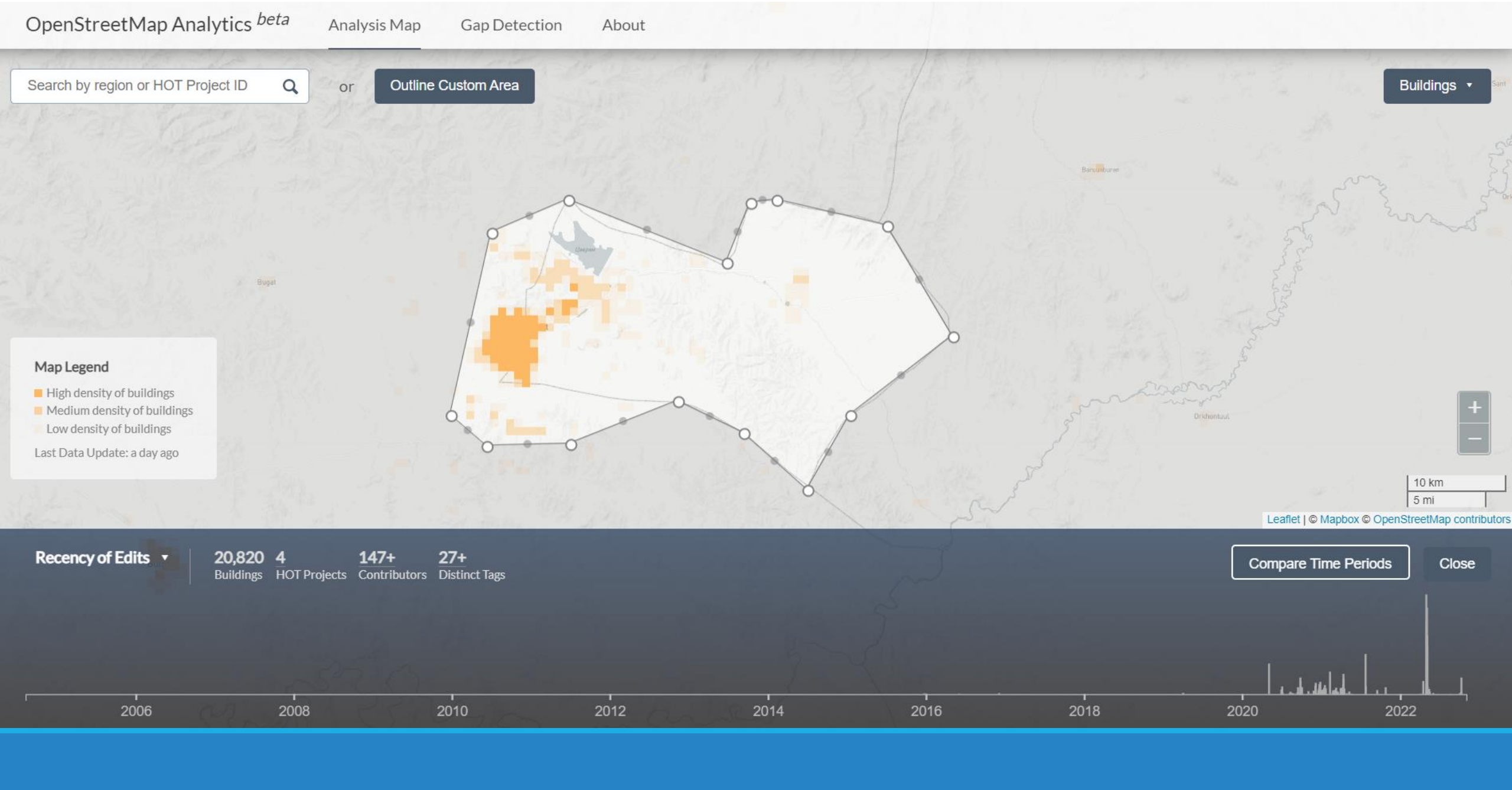
2018

2022








OpenStreetMap Analytics beta
Analysis Map
Gap Detection
About
Search by region or HOT Project ID
or
Outline Custom Area
Buildings
Map Legend
High density of buildings
Medium density of buildings
Low density of buildings
Last Data Update: a day ago
10 km
5 mi
Leaflet | © Mapbox © OpenStreetMap contributors
Recency of Edits
20,820 Buildings
4 HOT Projects
147+ Contributors
27+ Distinct Tags
Compare Time Periods
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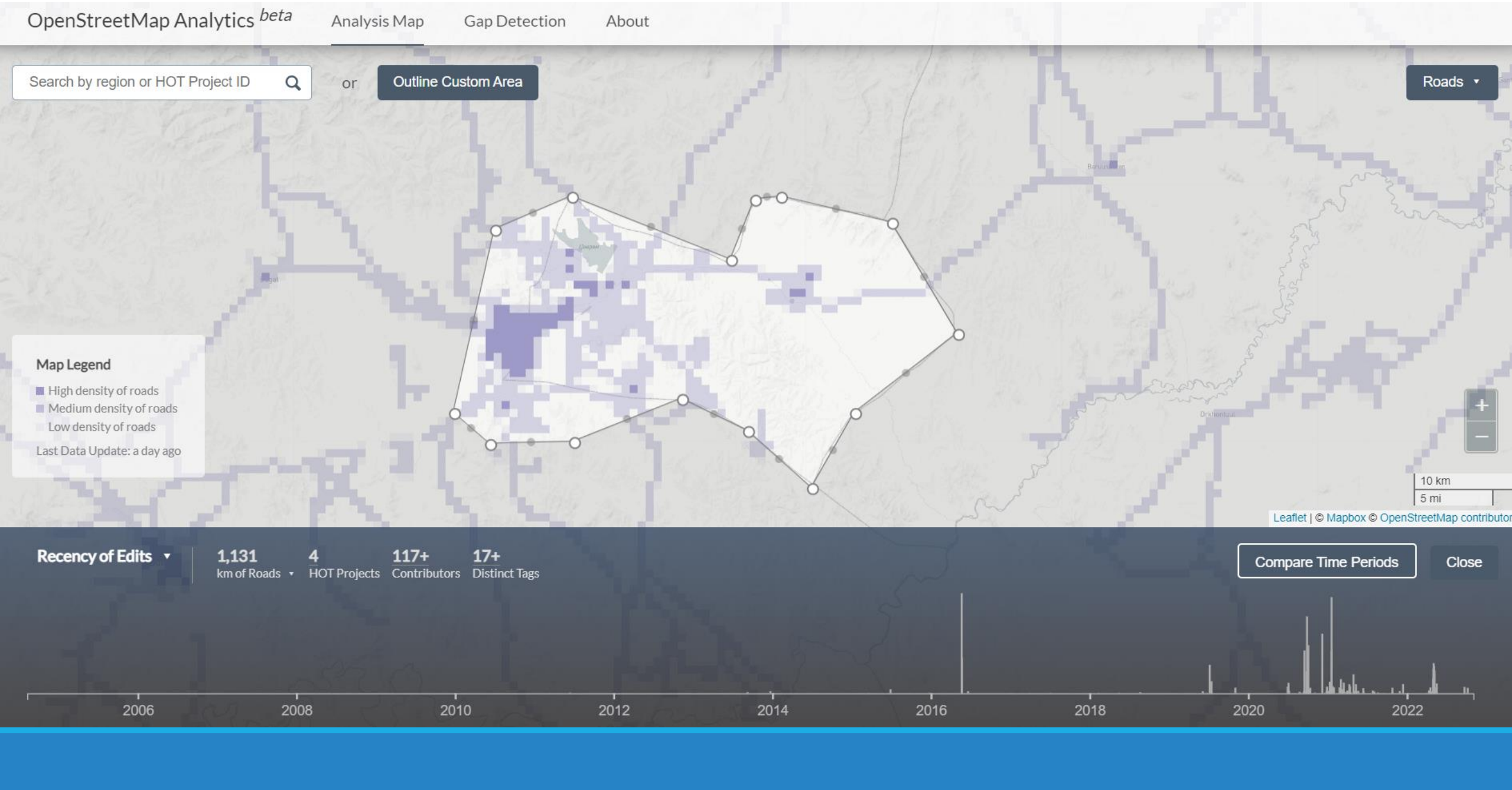
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High density of roads
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Low density of roads
Last Data Update: a day ago
10 km
5 mi
Leaflet | © Mapbox © OpenStreetMap contributor
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17+
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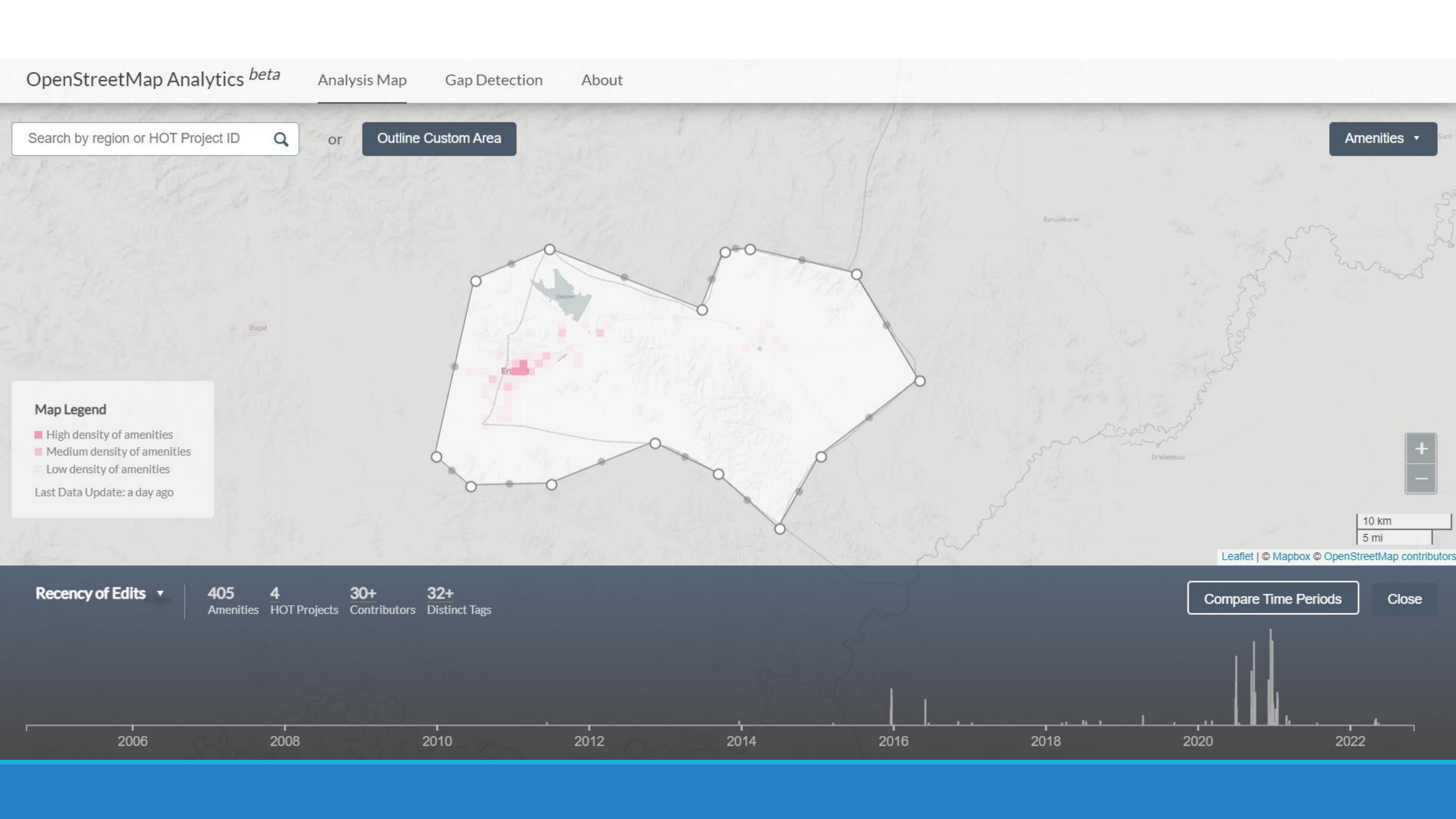
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Tags

building=yes	88%	highway=track	36%	amenity=fuel	21%
building=ger	5%	highway=residential	22%	amenity=restaurant	11%
building=house	2%	highway=unclassified	17%	amenity=parking	10%
building=hut	2%	highway=tertiary	12%	amenity=place_of_worship	7%
building=train_station	1%	highway=road	4%	amenity=bank	5%
building=commercial	<1%	highway=trunk	4%	amenity=school	4%
building=apartments	<1%	highway=path	2%	amenity=cafe	4%
building=greenhouse	<1%	highway=service	2%	amenity=fast_food	4%
building=tent	<1%	highway=footway	<1%	amenity=atm	3%
building=cabin	<1%	highway=secondary	<1%	amenity=toilets	3%

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Challenges

- Continous update – updating outdated information
- Need for more advanced mappers – more experience, less errors
- To validate current projects
- To ensure regular participation of the local community of mappers

Opportunities

Crowdsourcing data

Intersectoral stakeholders collaboration

Themed data – GIS-based technology services

Opportunities

Crowdsourcing data

Intersectoral stakeholders collaboration

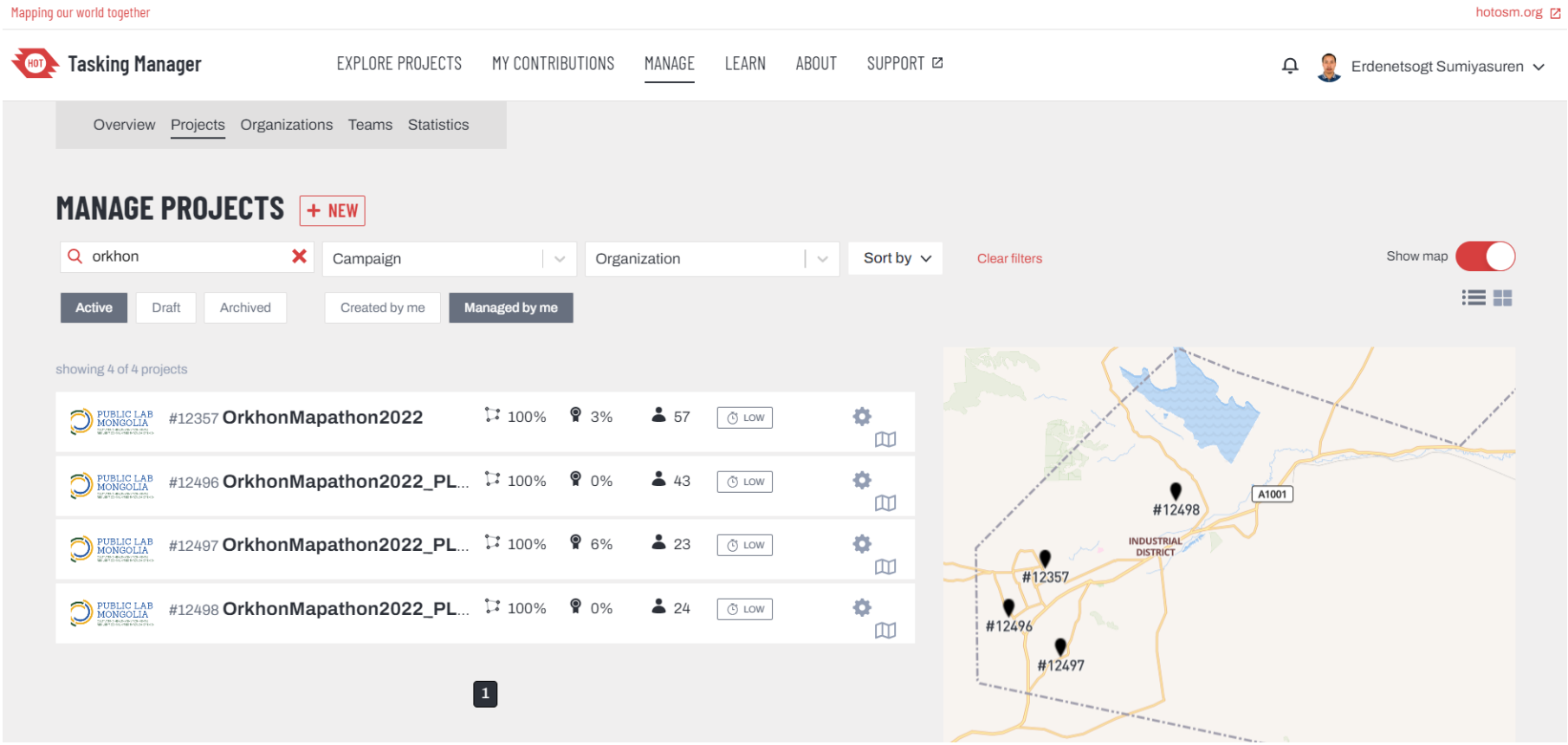
Themed data – GIS-based technology services

Youth Mappers

YOUTH MAPPERS ERDENET ХӨТӨЛБӨР

- 20 оролцогч
- 4 баг
- 14 хоног

Суурь зураглал
POI/Хүснэгтэн мэдээлэл



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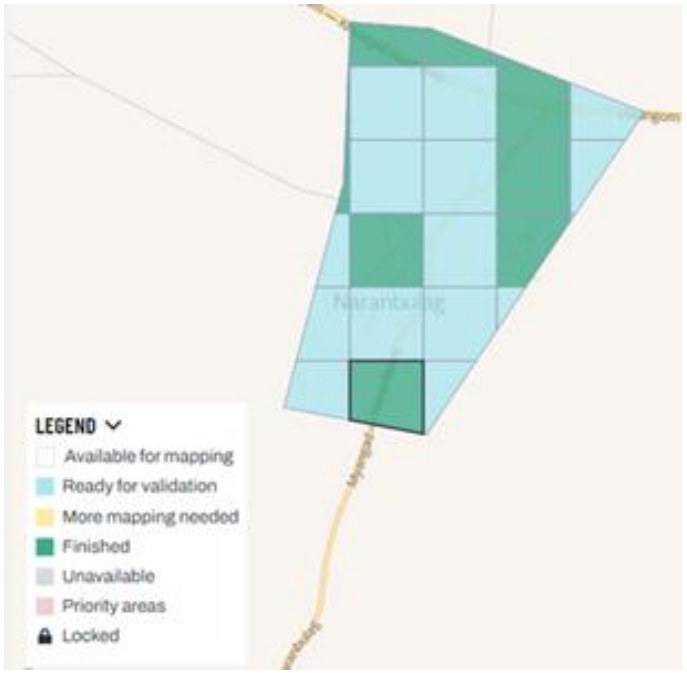
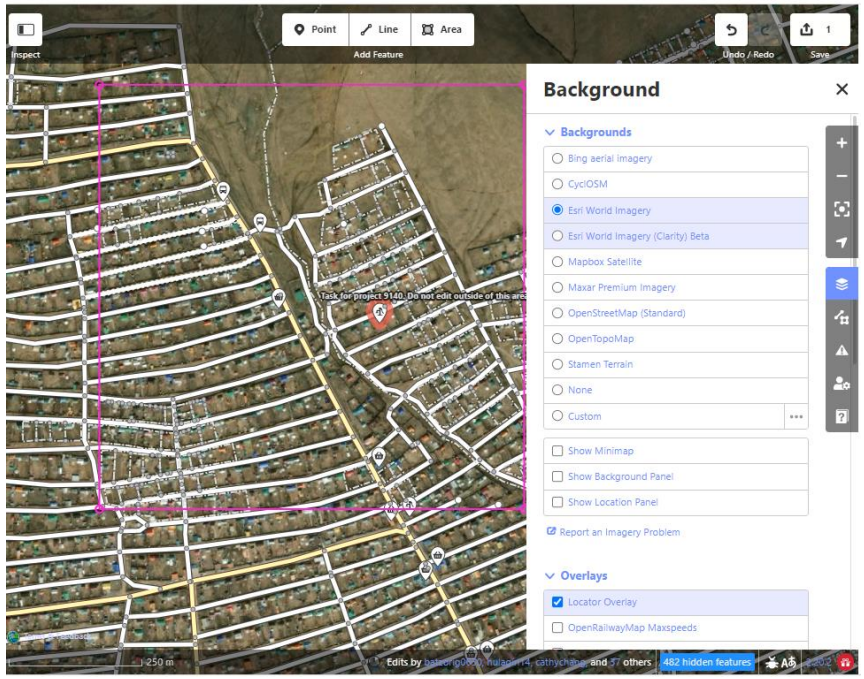
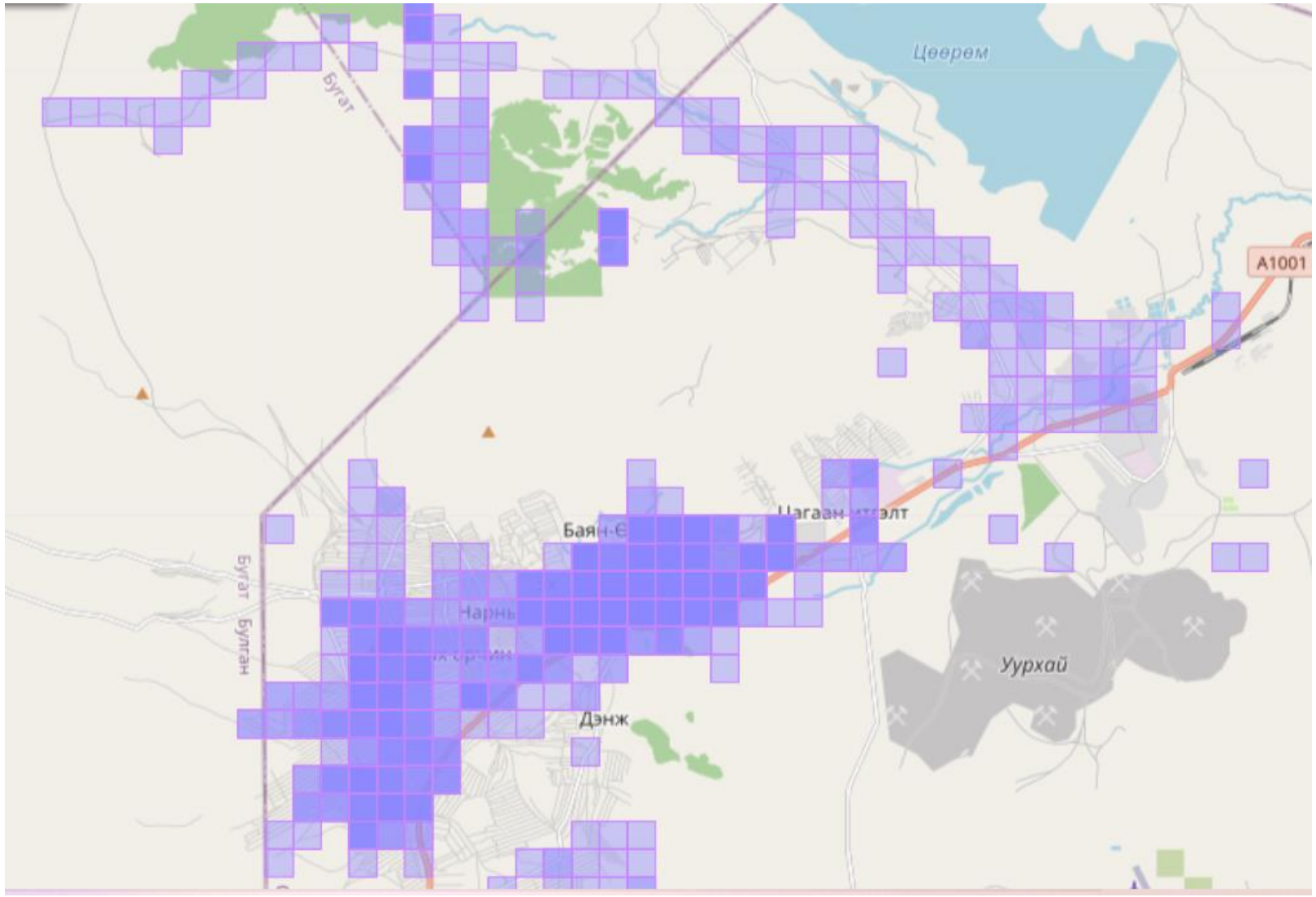
Tasking manager+Mapillary





Mapillary

building	2703
highway	1736
barrier	1284
name	1277
building:	445
amenity	222
name:	171
shop	165
surface	159
landuse	64
natural	41
leisure	38
place	19
tourism	19
sport	16
ref	12
route	12
historic	1



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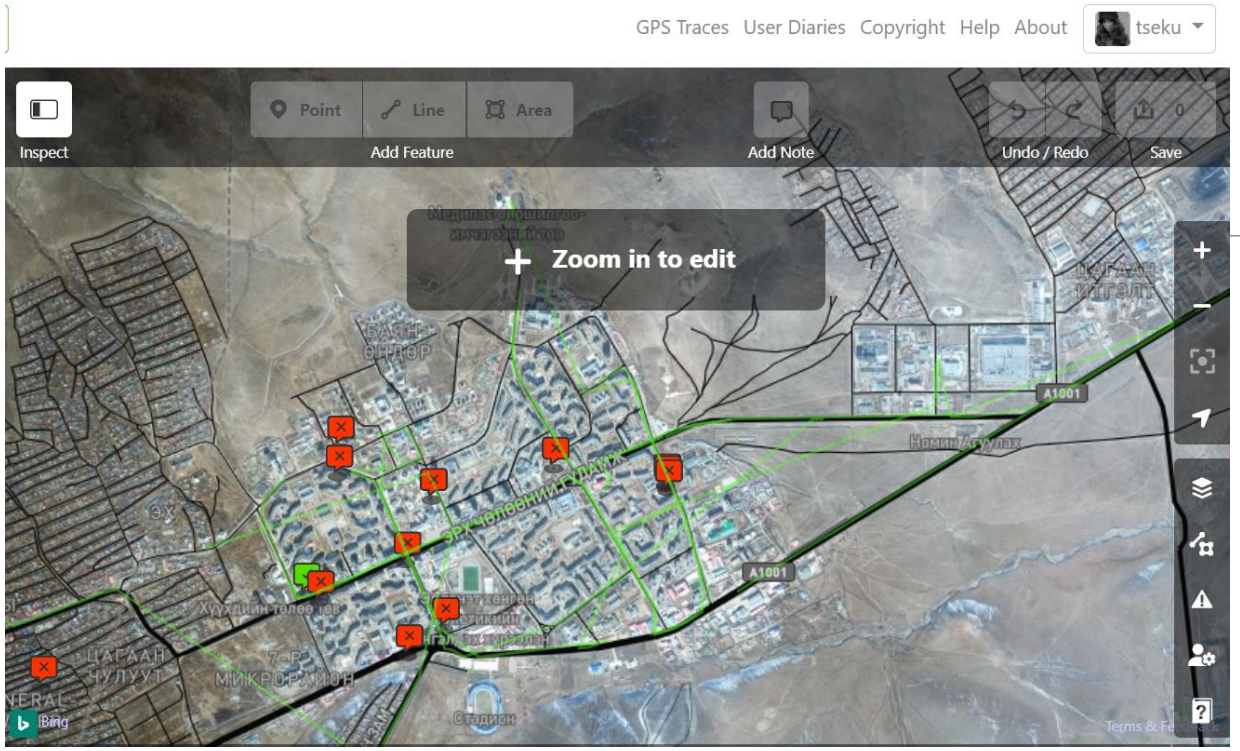
BEFORE AFTER MAP

Orkhon Mapathon

Choose map style: Retro



Mapillary хэрхэн ажилладаг вэ?

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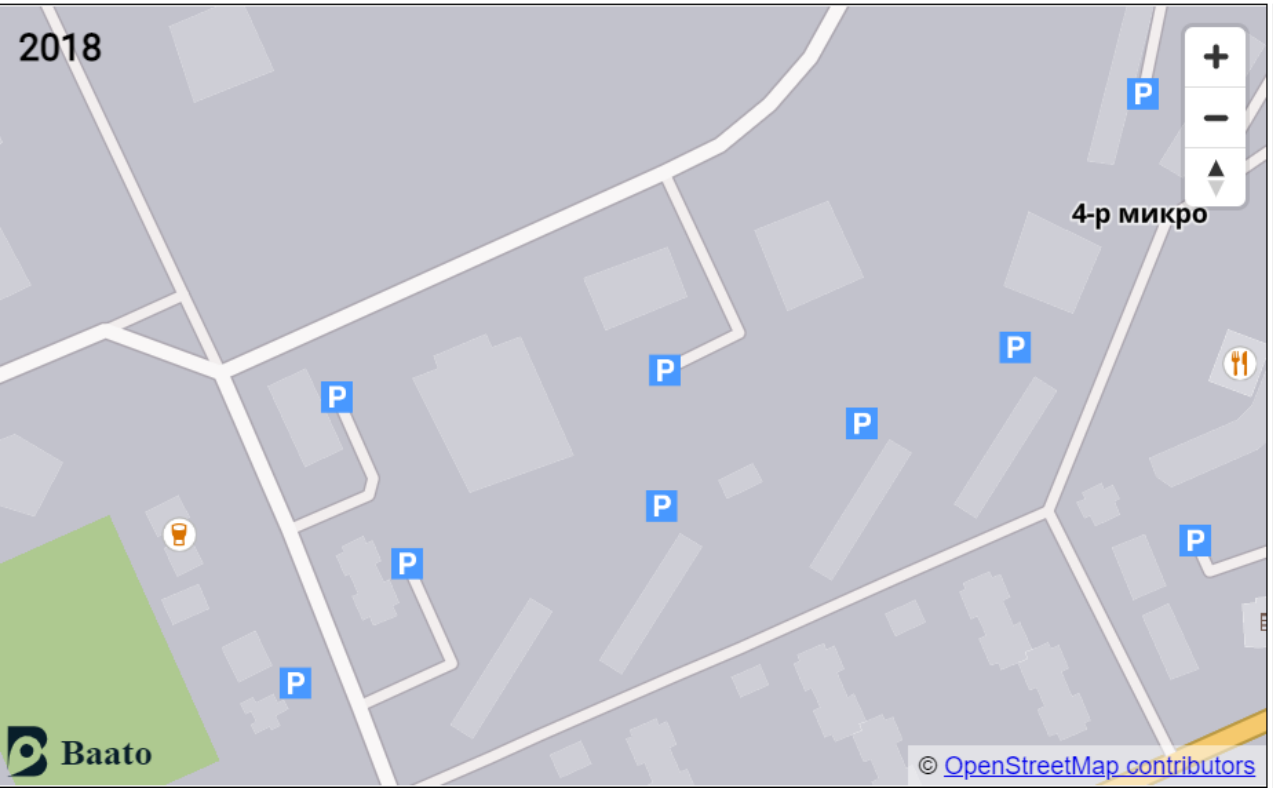
BEFORE AFTER MAP

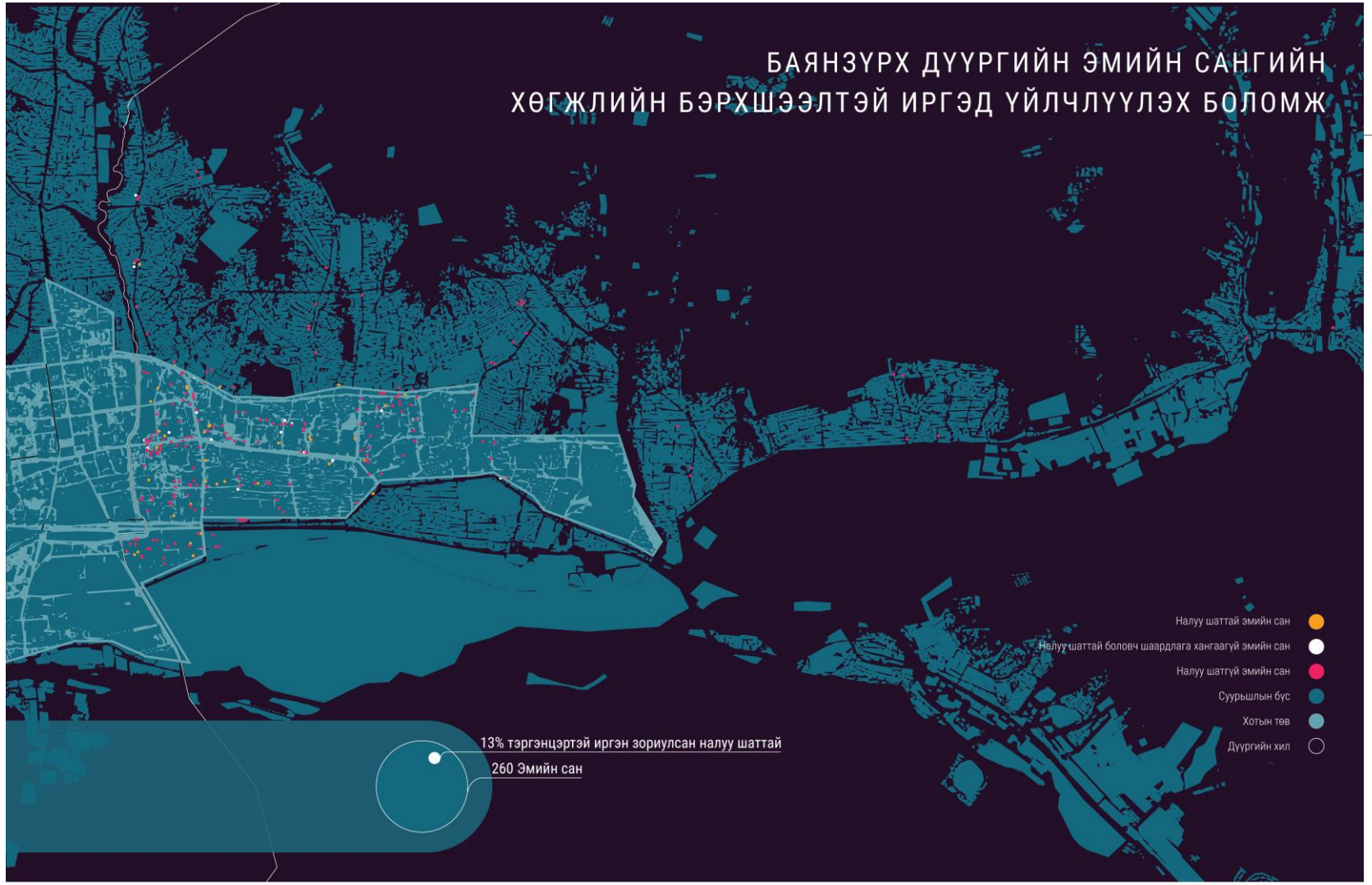
Orkhon Mapathon

Choose map style: Retro



MAPABILITY

Хүн бүрт хүртээмжтэй орчныг бий болгоё!



PUBLIC LAB MONGOLIA ТУНГААХУИ GEO SPATIAL iMap GISday-2022

sible places.

WC
Toilets

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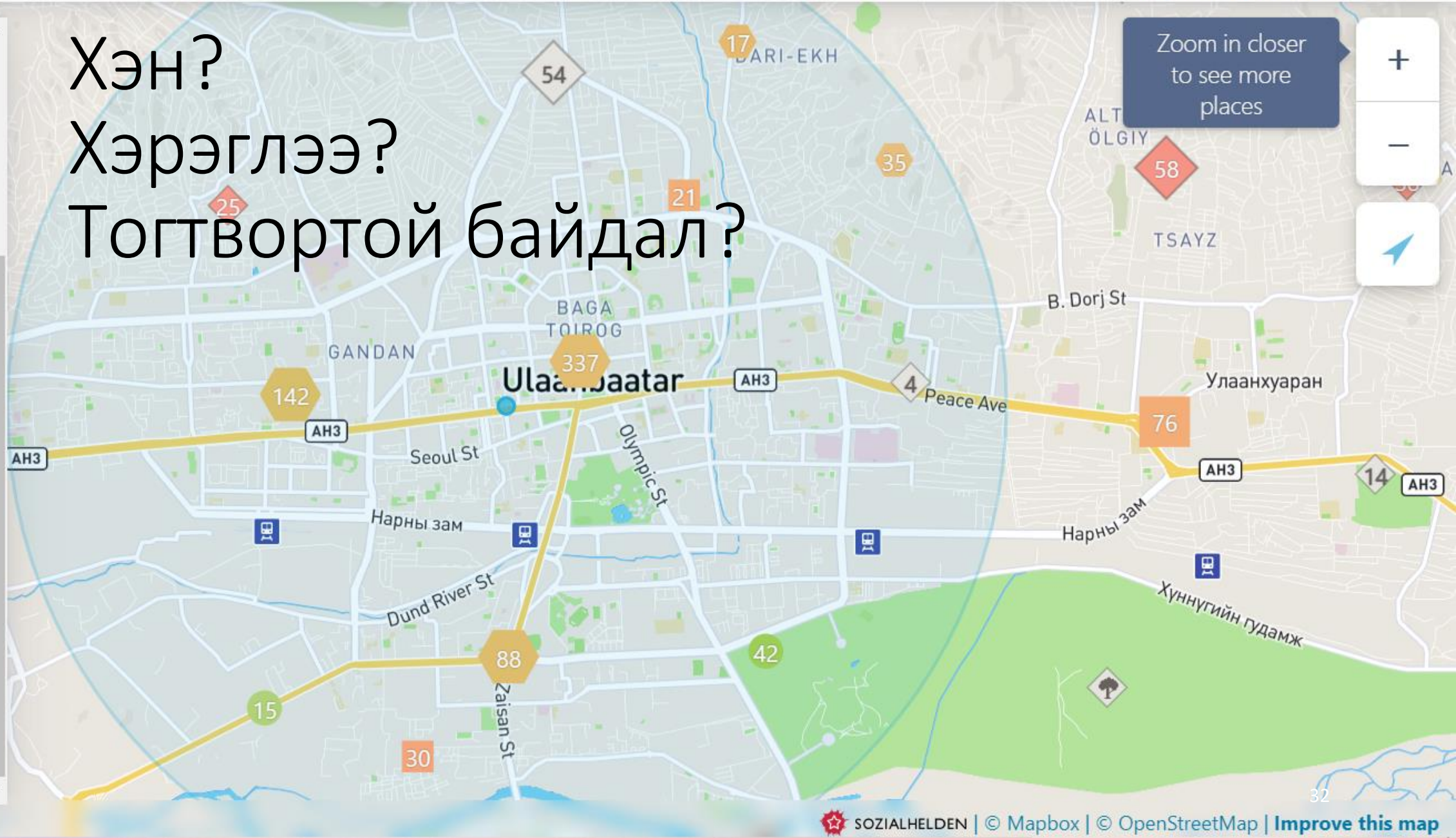
Хэн?
Хэрэглээ?
Тогтвортой байдал?

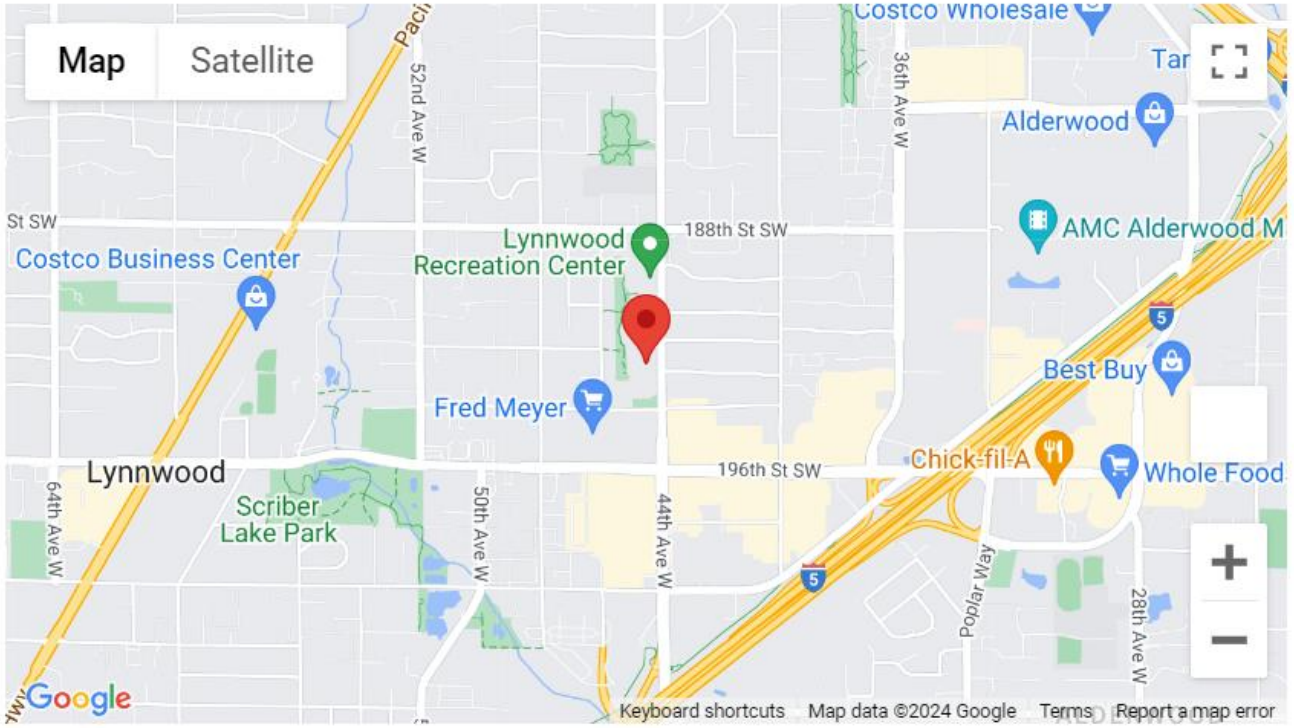


English
Help
TOUCH
MAPPER
Create tactile maps easily for any address

Lynnwood Library - Sno-Isle Libraries

19200 44th Avenue West Lynnwood Washington 98036 (425) 778-2148 http://www.sno-isle.org/locations/lynnwood/

★★★★★ 2 Reviews

Write a Review | Claim This Business

- ✔ Wheelchair Accessible
- ✔ Well Lit Environment
- ✔ Accepts Relay Calls
- ✔ Experience Hiring Interpreter
- ✔ Positive Attitude
- ✔ Makes Eye Contact
- ✔ Assisted Listening Devices
- ✔ Speaks Clearly
- ✔ Pen and Paper Available
- ✔ Knows Sign Language
- ✔ Experience Hiring Interpreter