mergin**maps**

Field data collection with **QGIS** and **Mergin Maps**

Tomáš Mizera

merginmaps

Tomáš Mizera

Bratislava
2 years in Mergin Maps

tomas.mizera@lutraconsulting.co.uk

Lutra CONSULTING

Lutra Consulting

QGIS core & plugin development

10+years of QGIS contributions
Many QGIS plugins
QGIS 3D
Point Clouds
Meshes (MDAL), Vector Tiles
Migration to open source
Support & Training

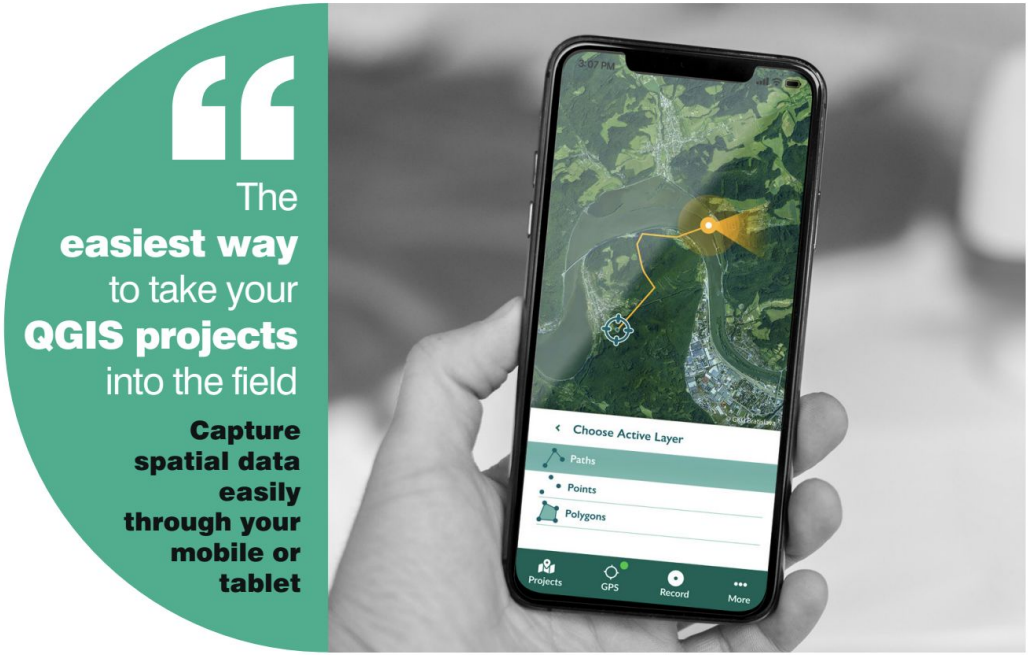
Mergin Maps SaaS

mergin**maps**

What is Mergin Maps?

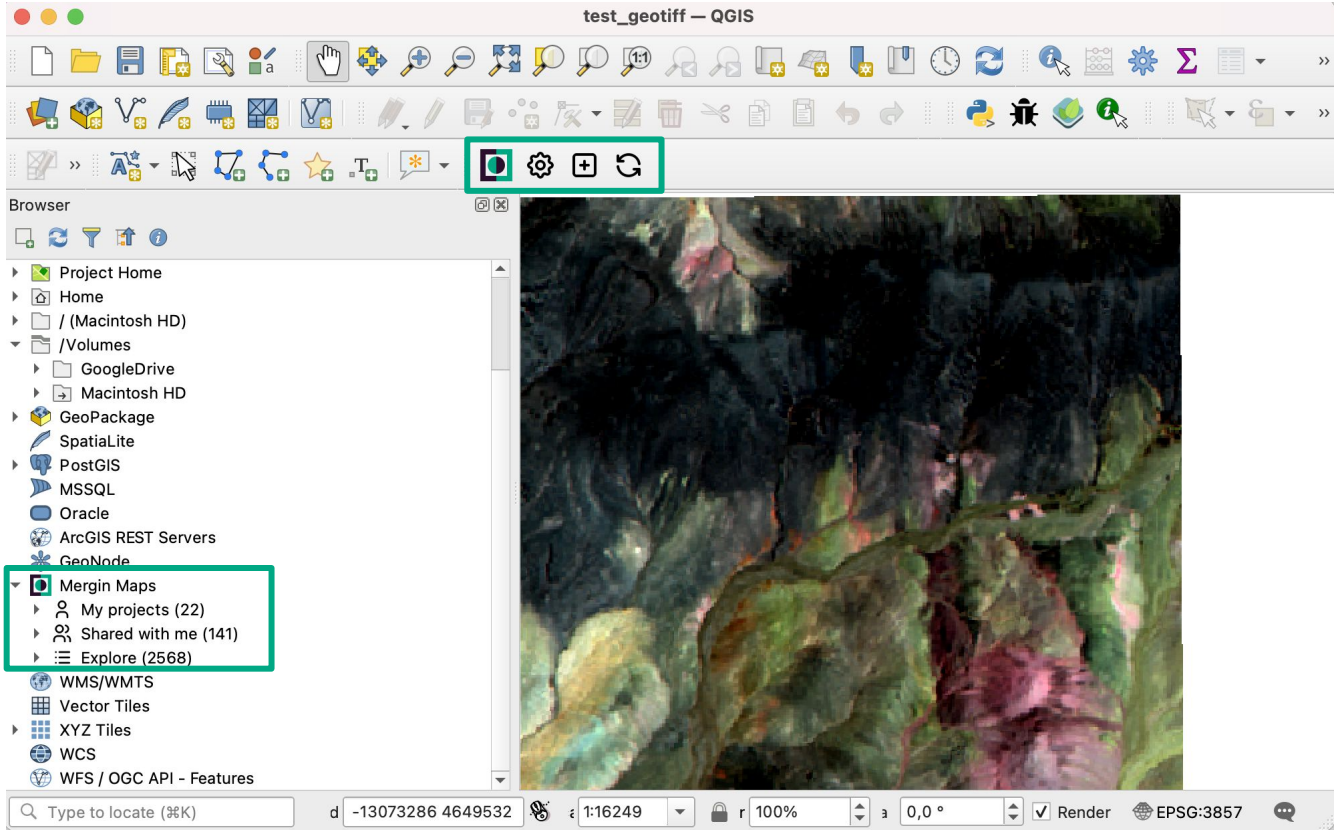
(formerly Input App and Mergin)

merginmaps



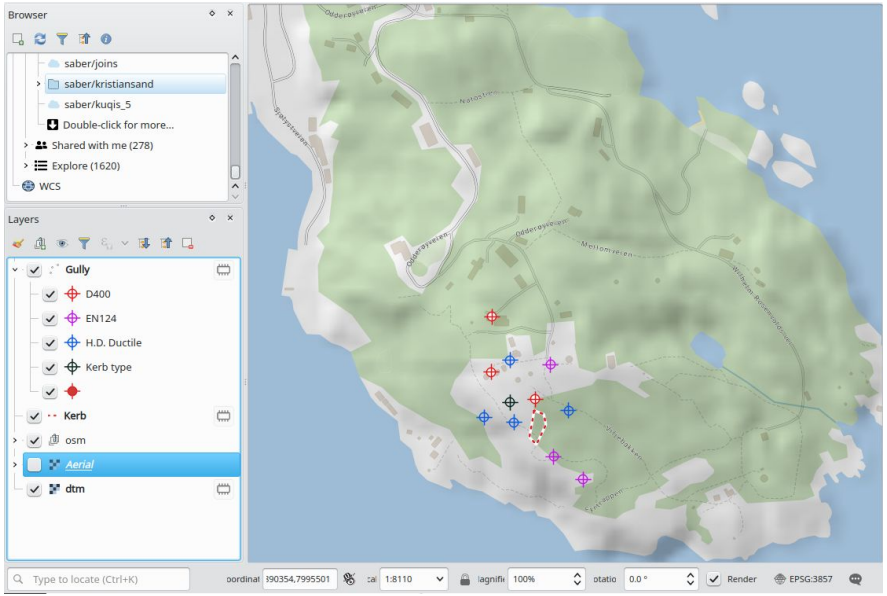
- Efficient field data collection
- Collaborative
- QGIS projects in mobile app
- Automated merging of data
- Geodata versioning

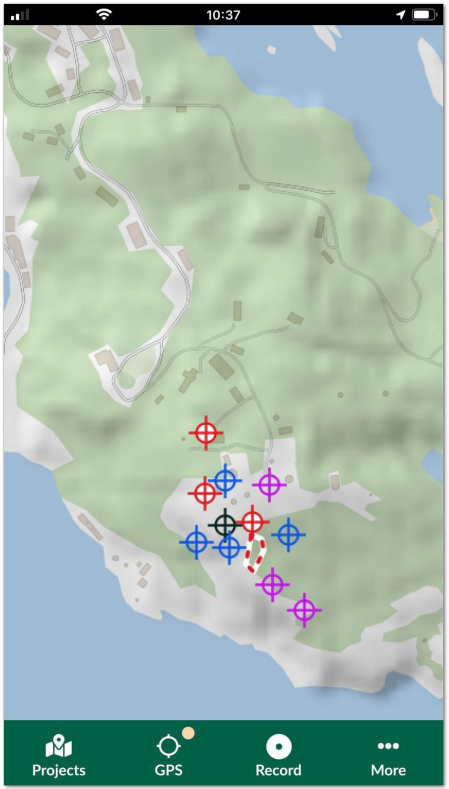
- Create project
- Setup layers
- Setup forms
- Setup symbology
- Upload it to Mergin Maps



mergin**maps**

Same QGIS renderer on desktop and mobile

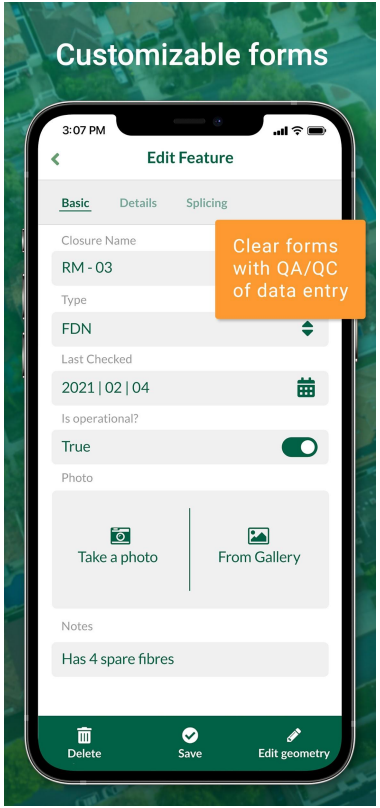


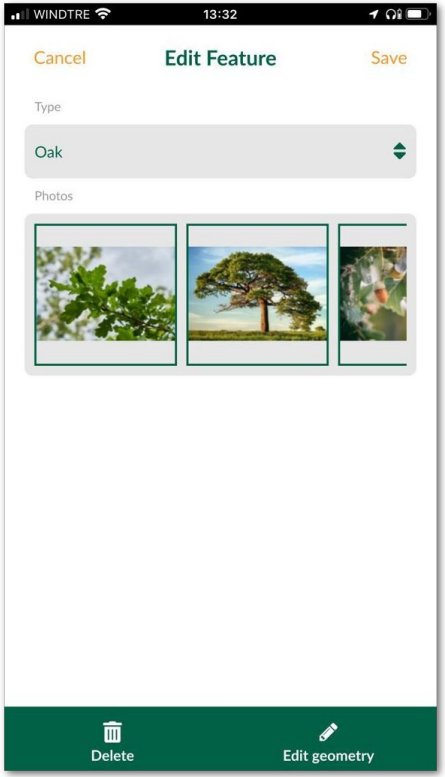


- Vector Tiles,
- Raster Tiles
- (online) COG,
- Rasters
- PostgreSQL,
- **GeoPackage**,
- Shapefiles

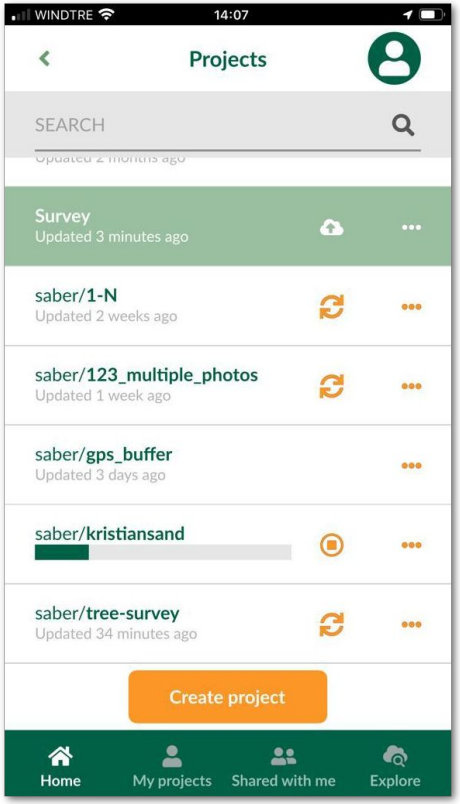
- Forms defined in QGIS
- Texts, numbers, calendar, booleans
- Connections to other layers
- Dropdowns
- Photos, EXIF metadata
- QR & Bar codes

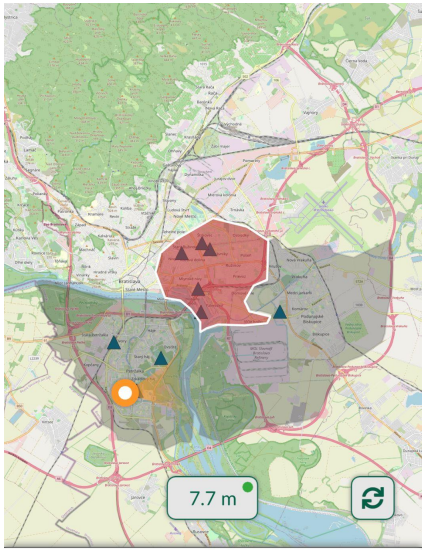
- Default values, constraints





merginmaps





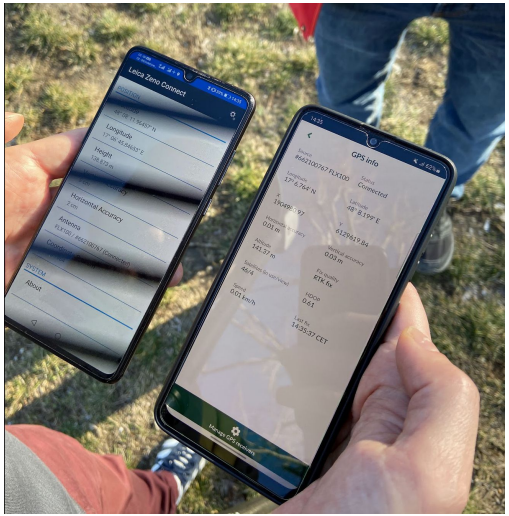
- Log in with Mergin Maps account
- Record, edit or remove points, lines and polygons
- Ease of use

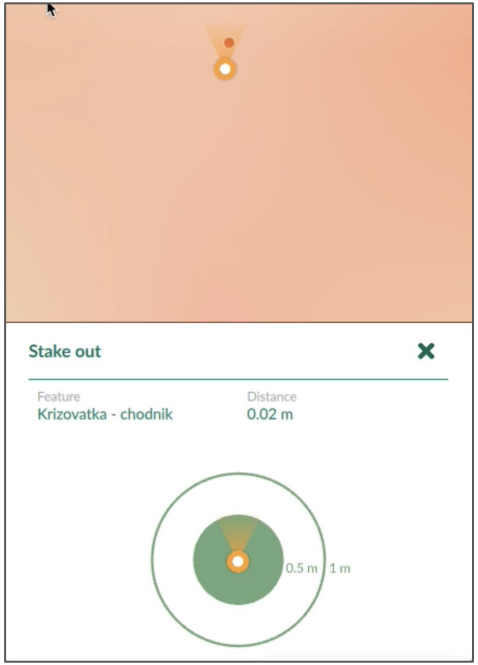
Download on the App Store

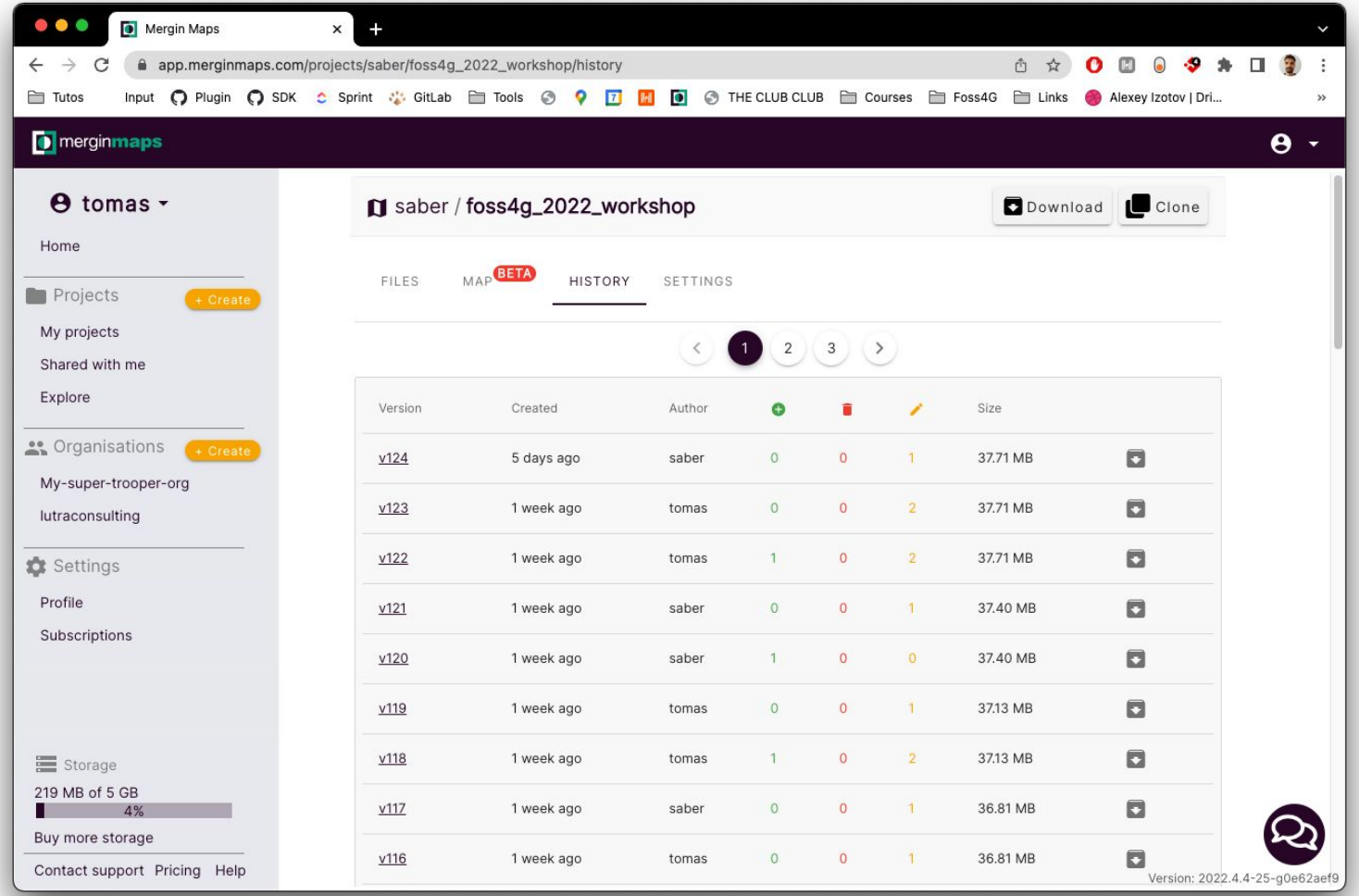
GET IT ON Google Play

mergin**maps**

Connect external GPS





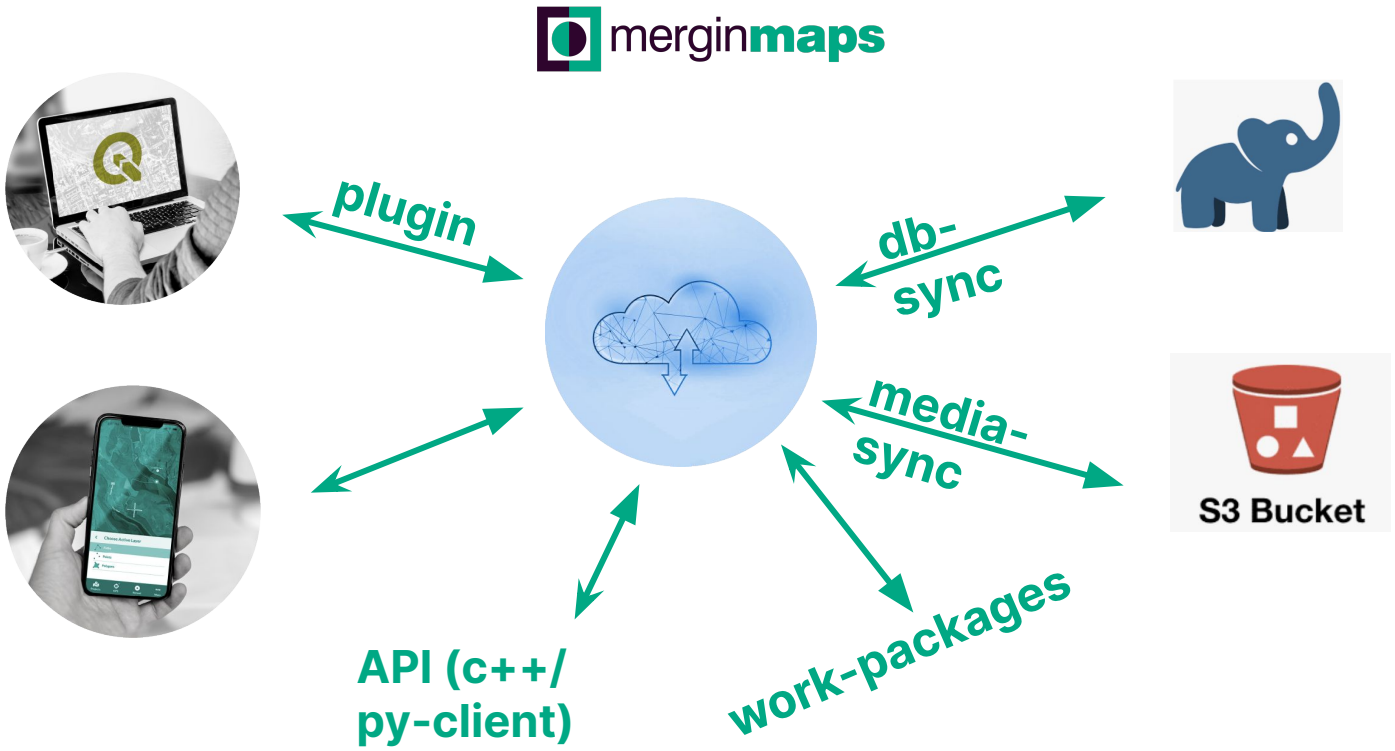


List projects

See project files

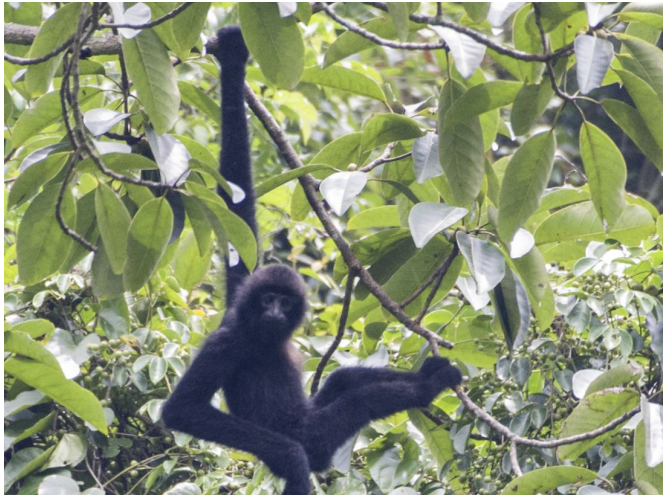
History of changes

Share project with colleagues


merginmaps
plugin
db-
sync
media-
sync
S3 Bucket
API (c++/
py-client)
work-packages

merginmaps

Saving the Cao Vit Gibbon Vietnam

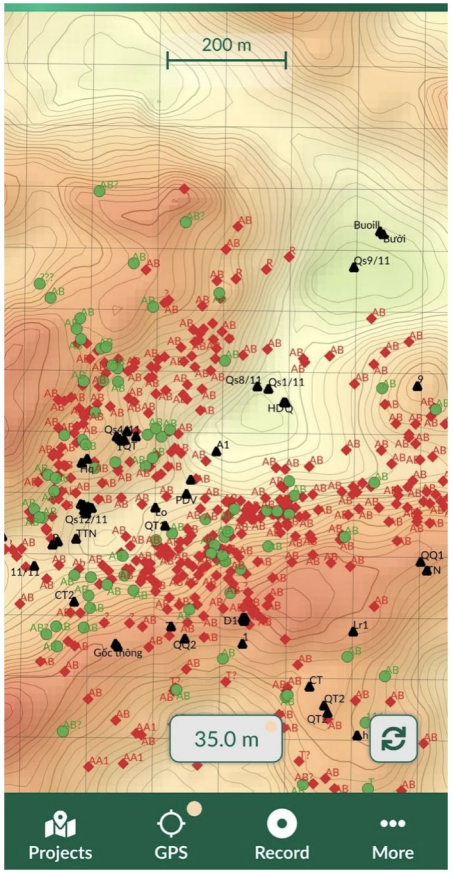


Regular population surveys to monitor changes in the population size and distribution over time.

Twice per month, two teams of 6 to 9 members monitor the gibbon locations, in jungle

Back in the office, all the data are processed in QGIS to draw up reports and analysis

merginmaps.com/case-studies



Archaeological Discoveries in the Hands of Citizens

Public archeological research project in Netherlands

About 6000 POIs (burial mounds) identified thanks to LiDAR scans

Citizens went to field with Mergin Maps and marked if the place has potential to be burial mound

merginmaps.com/case-studies

- Open source on Github
- Saas hosted version

- Universities
- 190 countries
- Commercial and NGO projects

SaaS or CE?

merginmaps.com/pricing

merginmaps

The **easiest way** to take your **QGIS projects** into the field

- QGIS projects in comprehensive mobile app
- Collect data even offline
- Synchronize field data with others
- Integrate it to your infrastructure
- Open source or hosted version

tomas.mizera@lutraconsulting.co.uk

sales@merginmaps.com

Join the community (500+ ppl), chat with us!

SCAN ME

merginmaps.com/community/join

merginmaps

Store and track changes to your spatial data

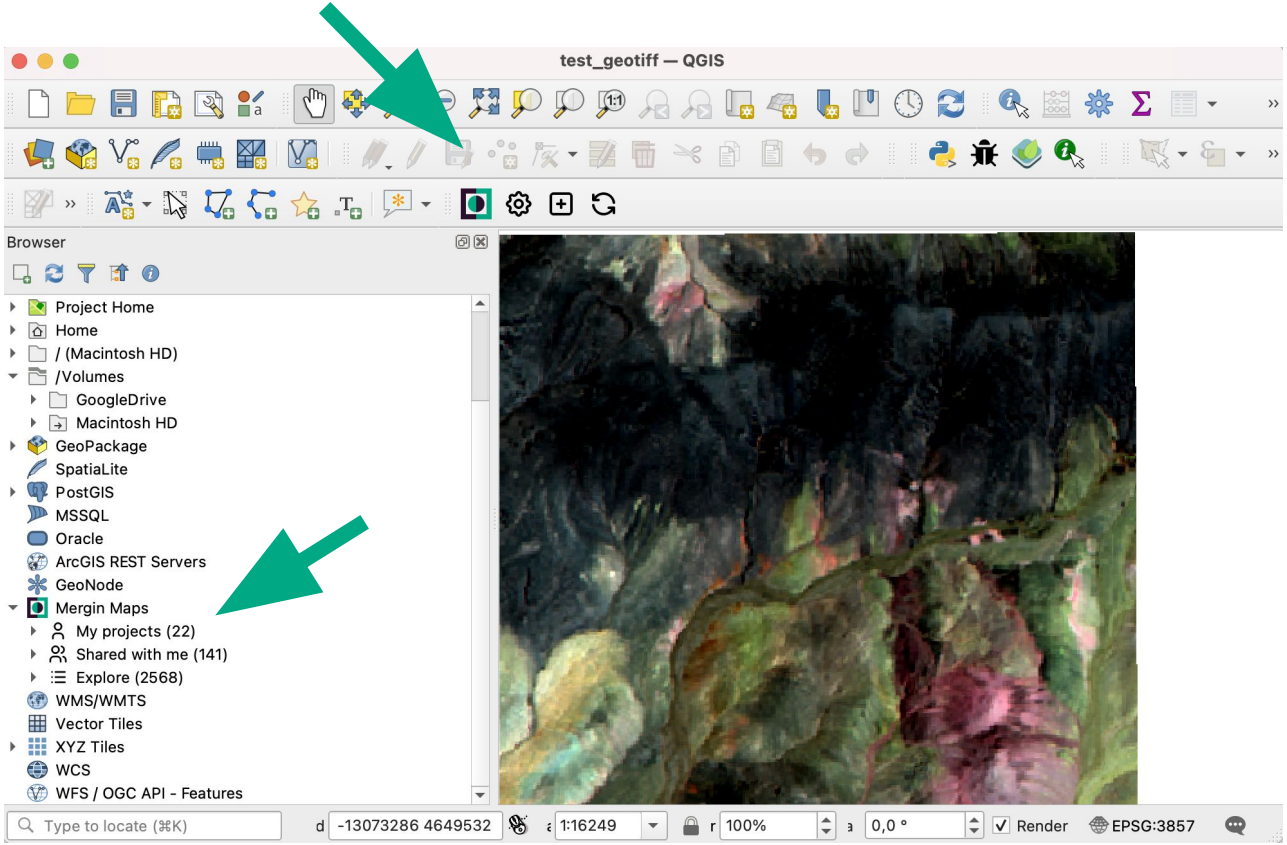
Close integration with QGIS

Fully open source. No vendor lock-in!

SCAN ME

GitHub

mergin**maps**


test_geotiff — QGIS
Browser
Project Home
Home
/ (Macintosh HD)
/Volumes
GoogleDrive
Macintosh HD
GeoPackage
SpatiaLite
PostGIS
MSSQL
Oracle
ArcGIS REST Servers
GeoNode
Mergin Maps
My projects (22)
Shared with me (141)
Explore (2568)
WMS/WMTS
Vector Tiles
XYZ Tiles
WCS
WFS / OGC API - Features
Type to locate (⌘K)
-13073286 4649532
1:16249
100%
0,0 °
Render
EPSG:3857

merginmaps

Mergin Maps Community?

merginmaps.com/community/join 507ppl

newsletter (every month) ~10k ppl

~50k QGIS projects hosted

2 years in full production!

8 Input App releases (2022)
9 Plugin releases (2022)
11 Server releases (2022)

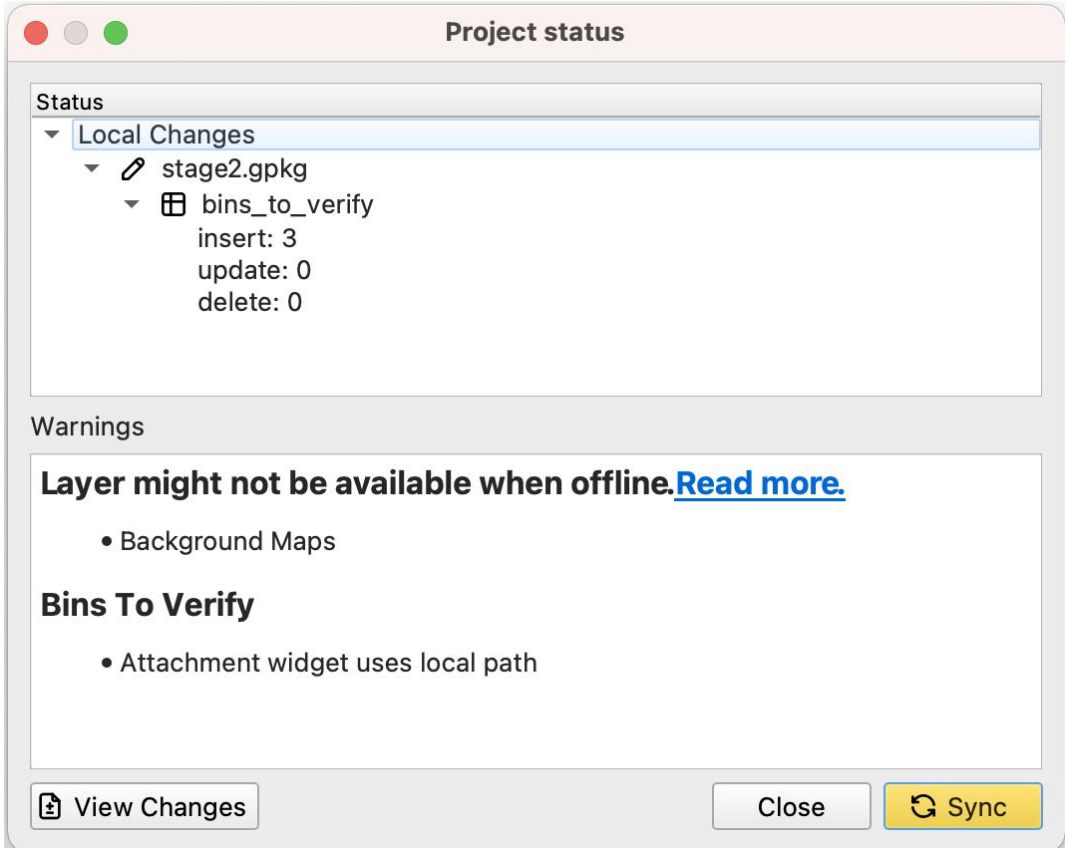
mergin**maps**

Latest Mergin Maps features?

merginmaps

Quality data?

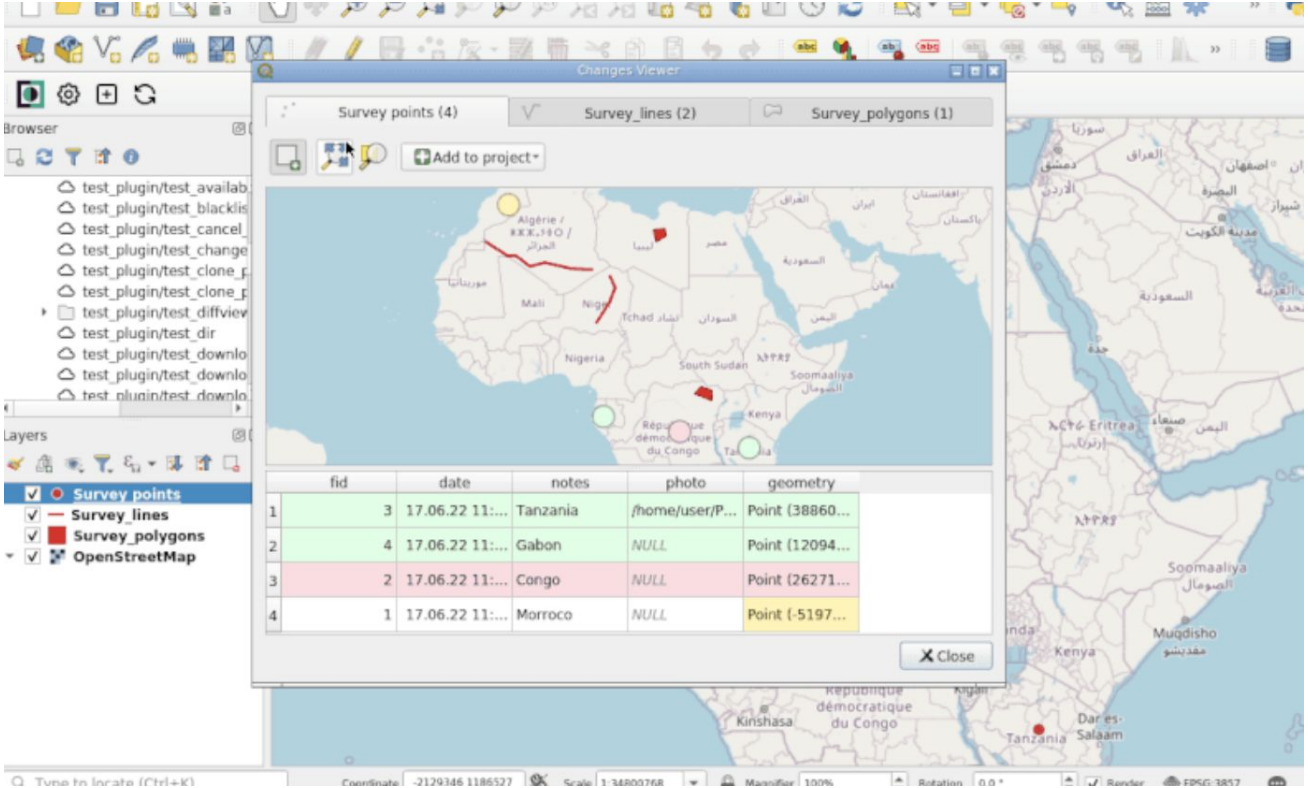
Validation



mergin**maps**

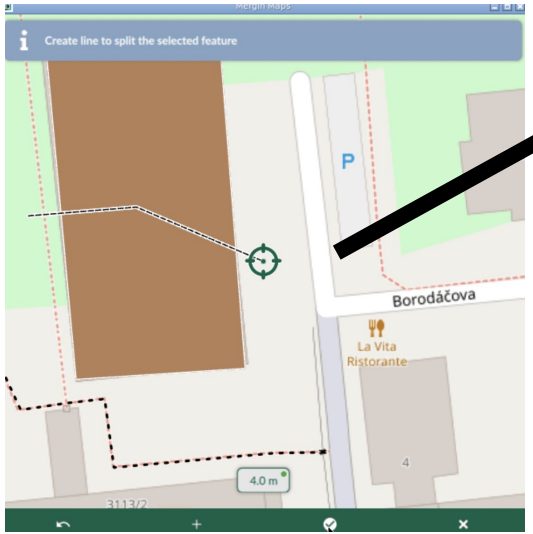
Quality data?

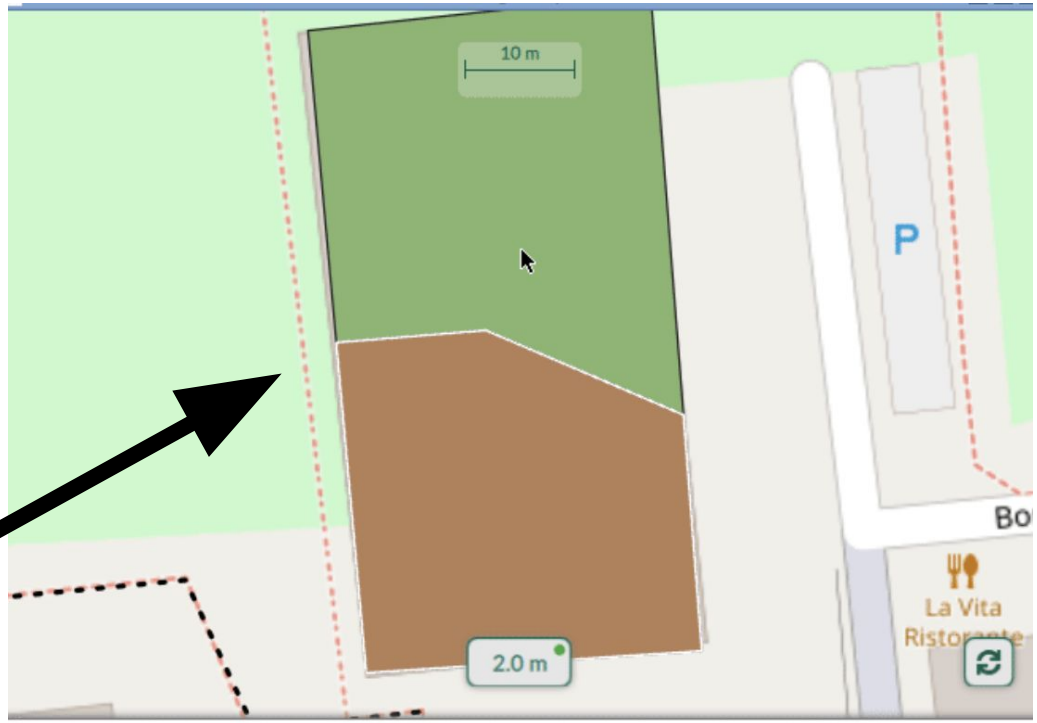
Show changes and Reporting tool



Field work?

Splitting



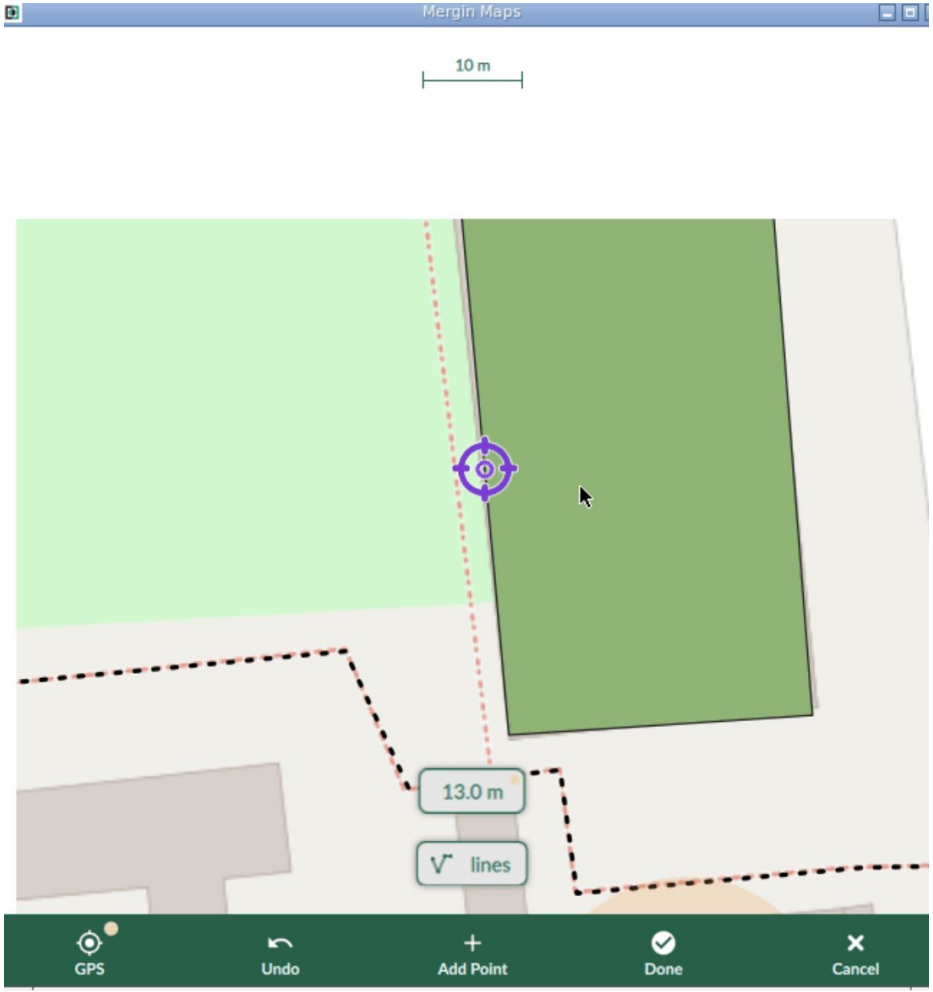


test 1

fid	1
name	test 1

Field work?

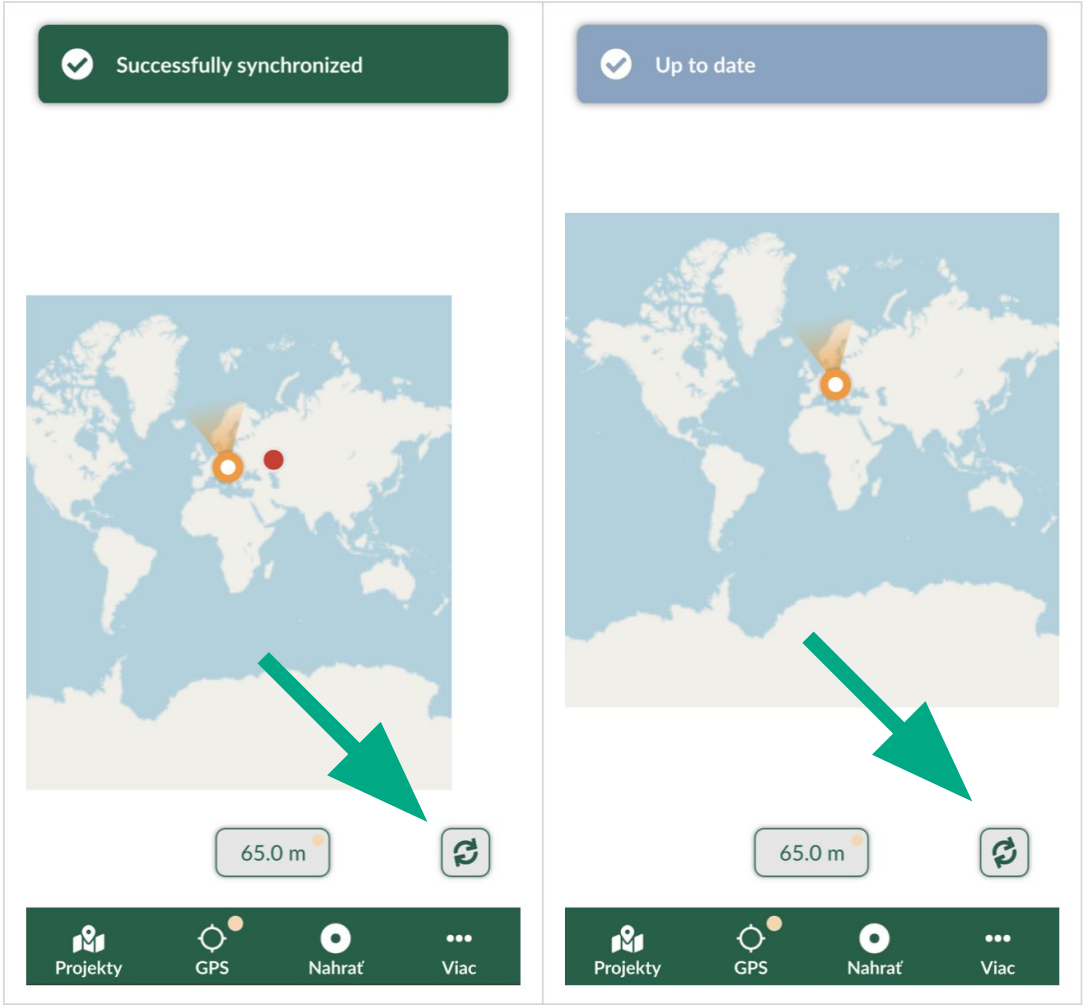
Snapping



merginmaps

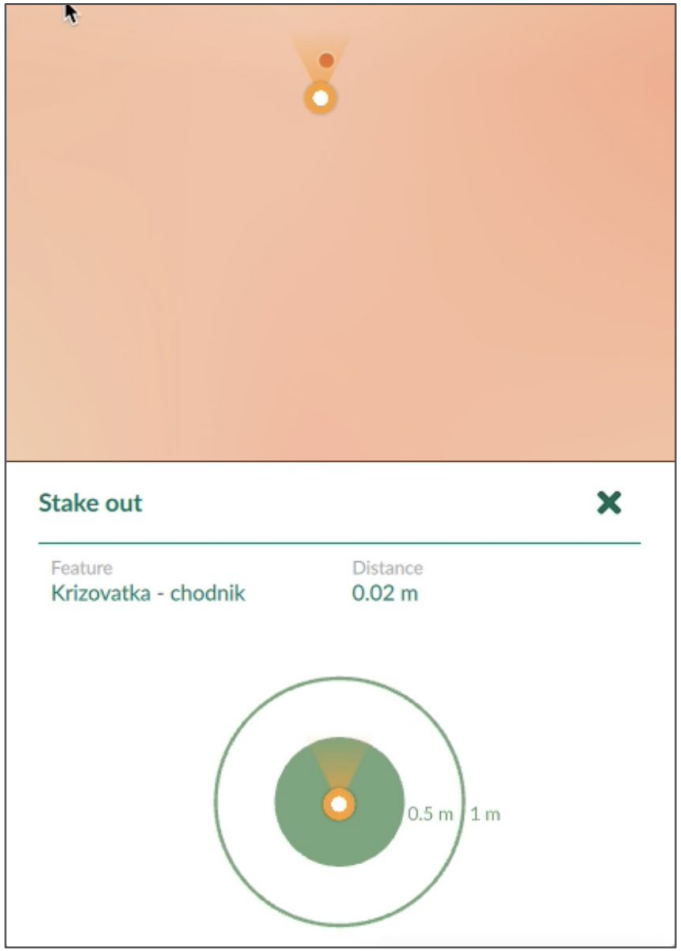
Field work?

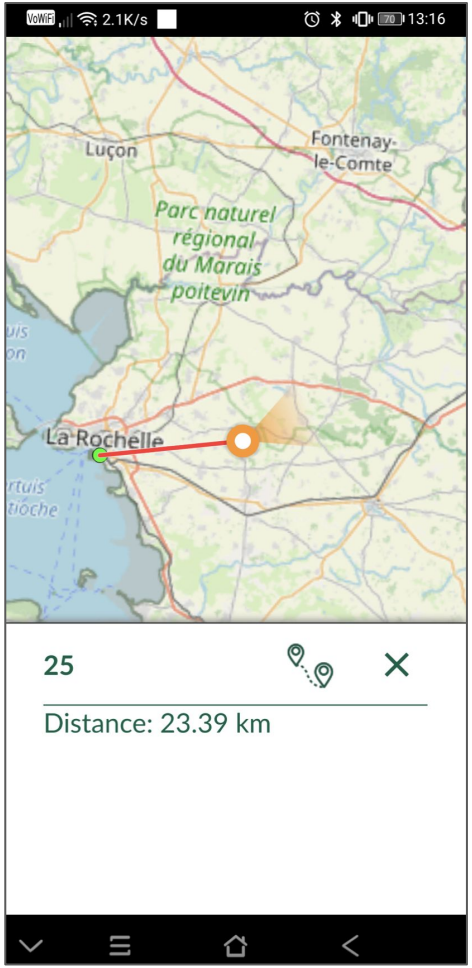
Autosync



Field work?

Stakeout

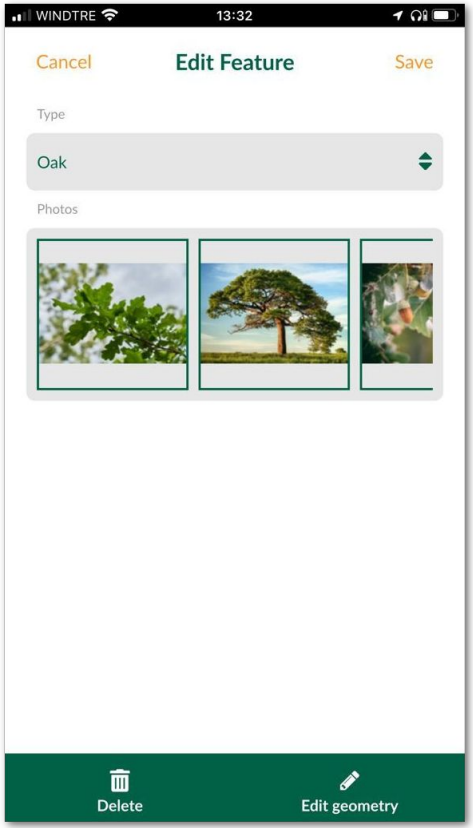




merginmaps

Handling many pictures?

- Selective synchronization
- Media-sync
- Resize images
- Image Gallery
- EXIF



merginmaps

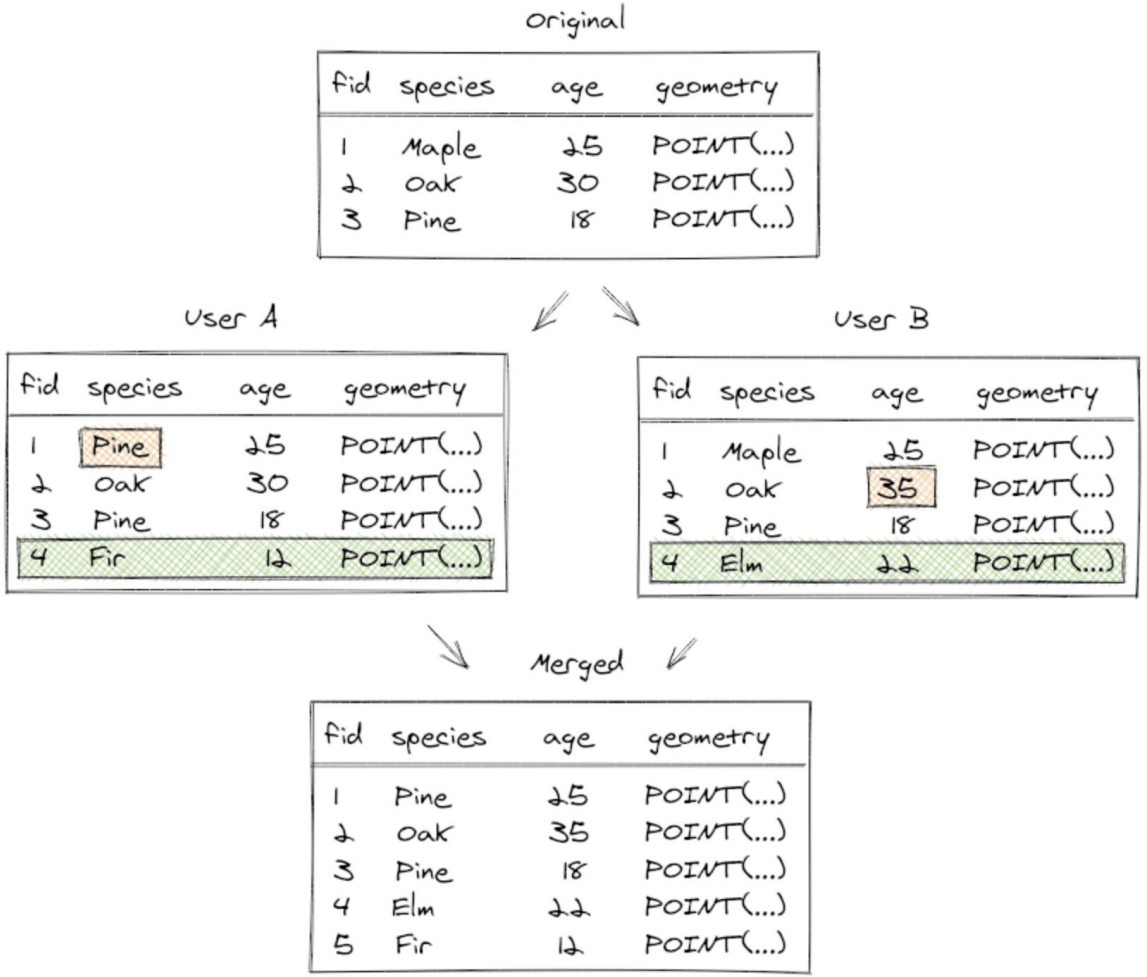
Robustness and reliability?

- Support for projects with 100s files
- Sync of large files
- Support for projects with 1000s versions
- AWS deployment (RDS, QGIS servers, backups, ...)

merginmaps

New Features?

- New CE/EE Release (Sept 2022)
- Line/Polygon geometry editing (Sept 2022)
- Workspaces (Oct 2022)
- Map overview (now Beta, Oct 2022)
- Background (offline) maps (2023)
- Flexible permissions (2023)
- Public web-maps (2023)
- vcpkg/Qt6 for mobile app (2023)

mergin**maps**

Geodiff !