

How to solve data collection challenges with QGIS and Merjin Maps?

Handwritten notes

COMPASS-TAPE SURVEY OF

SOUTH FIELD

Surveyors Compass #2
Steel tape #1
Dec. 11-21 or set off.

F. Jones, EA 2 K
A. Smith, EA CN, Chain
12 April 18 -
Clear and warm

Sta.	Dist	Obs.	Comp. ht
A to		Bearing	Angle
A E		S 10° 10' E	
B	100.62	S 68° 20' E	52° 10'
B A		N 62° 10' W	
C	90.15	S 15° 30' W	102° 10'
C B		N 15° 30' E	
D	82.20	N 86° 10' W	101° 40'
D C		S 86° 10' E	
E	60.75	N 21° 10' E	72° 40'
E D		S 21° 10' W	
A	60.91	N 10° 10' W	211° 20'

Sum 540° 00'

$180(H-2) = 180 \times 3 = 540° 00'$ CHK

Remarks

10" oak tree

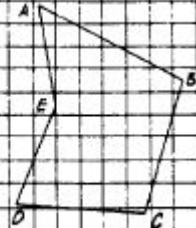
cross on 2' granite boulder

cross on granite ledge

12" oak stump

cedar stake 4" x 4" high

Note: Bearings are referred to true N



Source: Geo Week News, Jan van Sickle

Handwritten notes

COMPASS-TAPE SURVEY OF SOUTH FIELD				F. Jones, EA 2 J. R. Smith, EA CN, Chain Surveyors Compass #2 Steel Tape #1 Dec. 11/21 at Set off. Clear and warm	
Sta	Dist	Obs.	Comp'd	Remarks	
A to		Bearing	Angle		
A E		S10°10'E		18" oak tree	
B	100.62	S68°20'E	52°10'		
B A		N62°10'W		cross on 2' granite boulder	
C	90.15	S15°30'W	102°10'		
C B		N15°30'E		cross on granite ledge	
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Sum		540°00'		Note: Bearings are referred to true N	
180(H-2)=180 x 3		=540°00'	chk		

Source: Geo Week News, Jan van Sickle

Standardized forms from QGIS

9:41

Feature

×

⋮

Name

Tree number 1

Last Edit

2023-01-09 18:02:12

Image

tree_newest

Description

This tree is healthy without any visual defects.

Current State

World-leading independent research organisation
going Open-Source



**British
Geological
Survey**





British
Geological
Survey

✗ Problem

- ESRI stack that was announced to be retired





British
Geological
Survey

✗ Problem

- ESRI stack that was announced to be retired

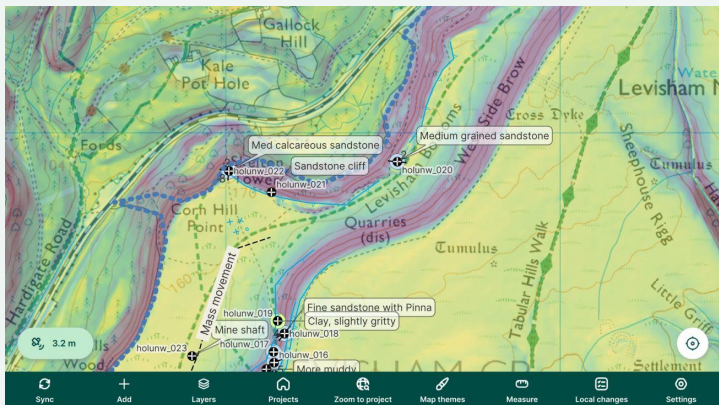
✓ Solution

- Open-source stack
QGIS + Mergin
Maps
- Developed personal plugin
- Any mobile device
- Constraints for data quality
- Cloud data synchronization





British
Geological
Survey



House-to-house survey for national fibre roll-out



 Problem

- Building location
did not match
address data

✗ Problem

- Building location did not match address data

✓ Solution

- 1-N relation editable on the street
- Address info corrected in mobile
- Live data from 20 surveyors
- Version control and history
- Adjusting projects on the go

Regulatory Compliance for Water Distribution in Portugal





✗ Problem

- Unreliable data synchronization without internet



✗ Problem

- Unreliable data synchronization without internet



✓ Solution

- Agile, legally auditable data pipeline even offline
- On-premise deployment
- 100 questions long forms
- Offline no problem
- Georeferenced photos

How to protect nature against illegal urbanization



✗ Problem

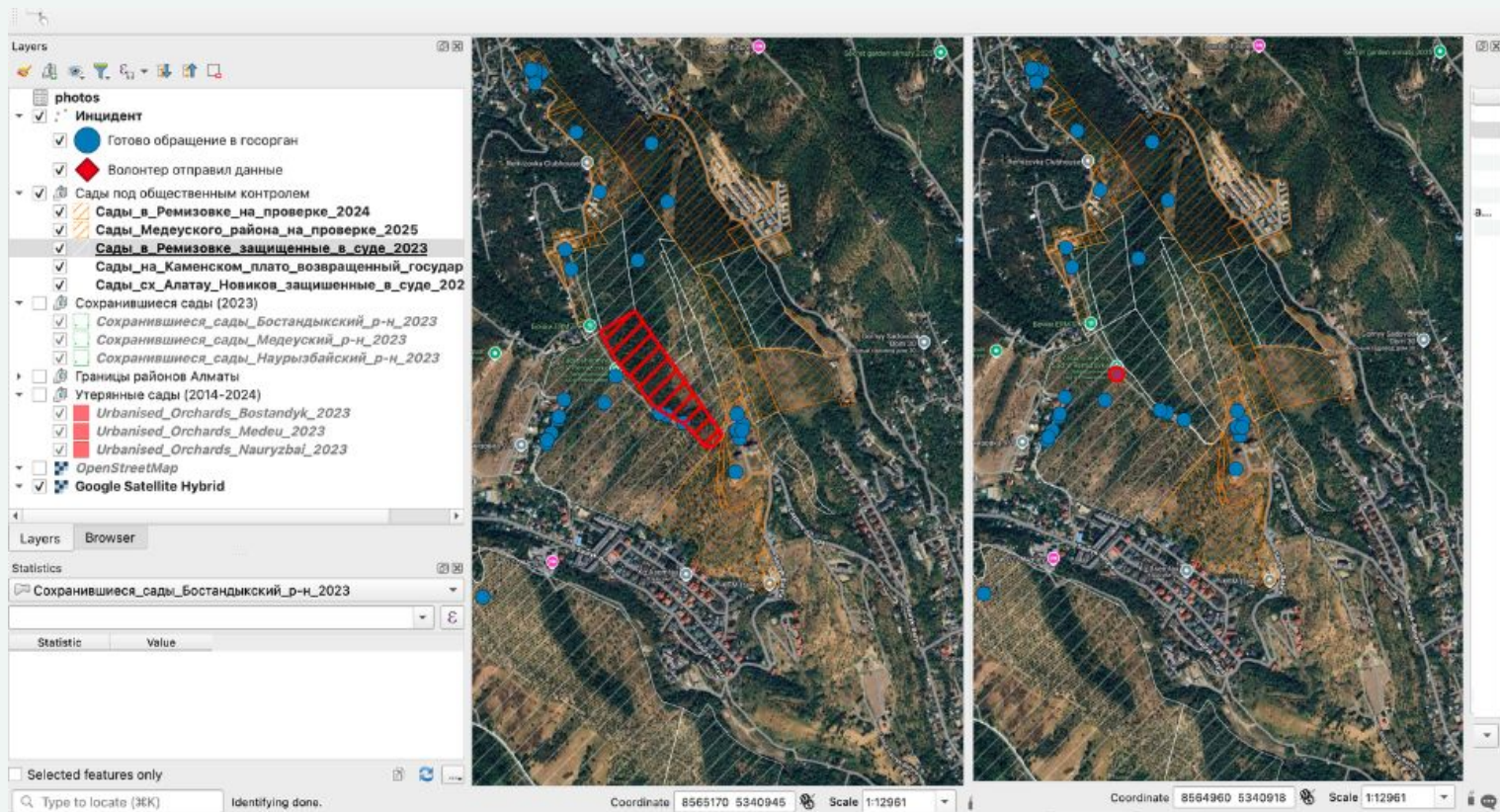
- 3 days to collect and compile data for legal complaint

❌ Problem

- 3 days to collect and compile data for legal complaint

✅ Solution

- 30 minutes to collect and compile data for legal complaint
- No suspicion
- Offline
- Freedom of Open-source



- Data collection for non-GIS surveyors

- Open-source ready for big teams

The image shows a smartphone screen with the 'Feature' form in the Merjin Maps app. The form is titled 'Feature' and has a close button (X) and a menu button (three dots) at the top. The form contains the following fields:

- Name:** A text input field containing 'Tree number 1'.
- Last Edit:** A text input field containing a calendar icon and the date '2023-01-09 18:02:12'.
- Image:** A photo input field showing a photo of a tree. A red 'Remove' button is visible in the top right corner of the photo. Below the photo is a text input field containing 'tree_newest'.
- Description:** A text input field containing 'This tree is healthy without any visual defects.'

- Data collection for non-GIS surveyors
- Georeferenced Photos

A smartphone screen displaying the 'Feature' form in the merginmaps application. The form is titled 'Feature' and has a close button (X) on the left and a menu button (three dots) on the right. The form fields are: 'Name' with the value 'Tree number 1'; 'Last Edit' with a calendar icon and the timestamp '2023-01-09 18:02:12'; 'Image' with a photo of a tree and a 'Remove' button; and 'Description' with the text 'This tree is healthy without any visual defects.' The status bar at the top shows the time '9:41', signal strength, Wi-Fi, and battery level.

9:41

Feature

Name

Tree number 1

Last Edit

2023-01-09 18:02:12

Image

Remove

tree_newest

Description

This tree is healthy without any visual defects.

- Open-source ready for big teams
- Offline Ready

How can Mergin Maps benefit your team?



Start Trial Today



patrik.mizera@merginmaps.com
I am here for you

