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H₂O Map

H₂O Map: Innovative learning by hydraulic heritage mapping

E-LEARNING COURSE FOR TEACHERS: *Innovative Educational Tools for Assessment of the Hydraulic Heritage with by ICT Tools.*

MODULE 5: FIELD INFORMATION MAPPING SYNCHRONIZING FIELD DATA

 UNIVERSITAT
JAUME I


Universitat d'Alacant
Universidad de Alicante


UNIVERSITÀ
DI PAVIA


IES PENYAGOLOSA


I.S. TARAMELLI - FOSCOLO

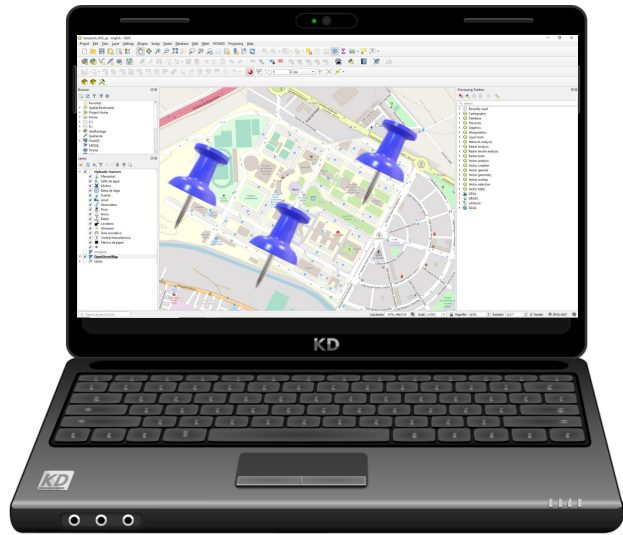

AGRUPAMENTO DE ESCOLAS
Nº 3 DE ELVAS
Codigo: 135252


AGRUPAMENTO DE ESCOLAS DE CAMPO MAIOR

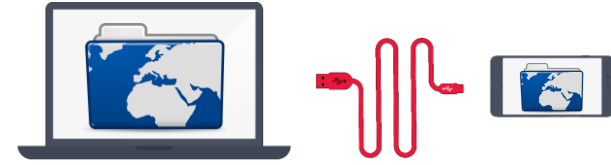
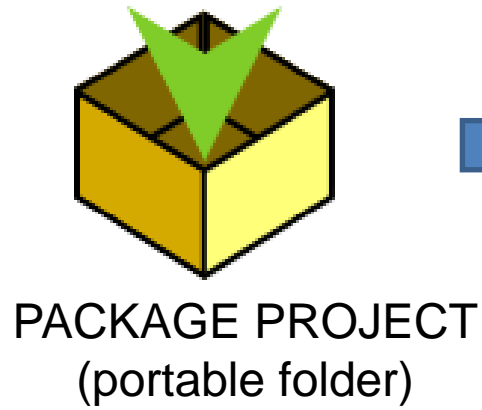
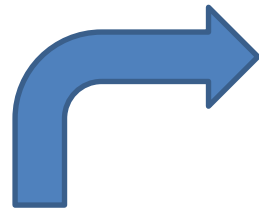
Concepts

Synchronizing field data

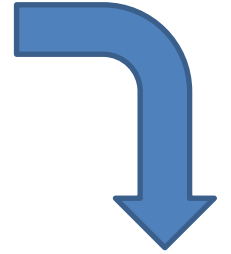
1. What is a “master” Project
 1. Layers (background, cosmetic, Postgis)
 2. Support tables
 3. Form design
2. Qfield plugin
 1. Folders structure
3. Copy “portable” Project to mobile
4. Qfield mapping
5. Sync with master project and save data to database



MASTER PROJECT

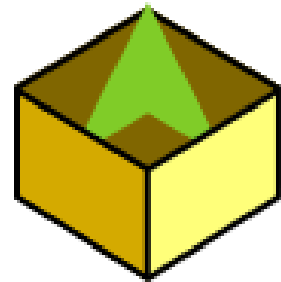


COPY FOLDER TO MOBILE

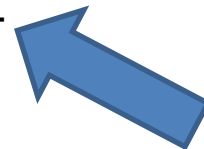


MAPPING FIELD

Workflow



SYNC PROJECT



COPY FOLDER TO PC

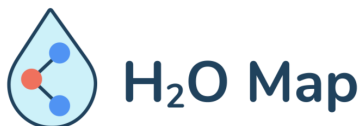


H2O Map



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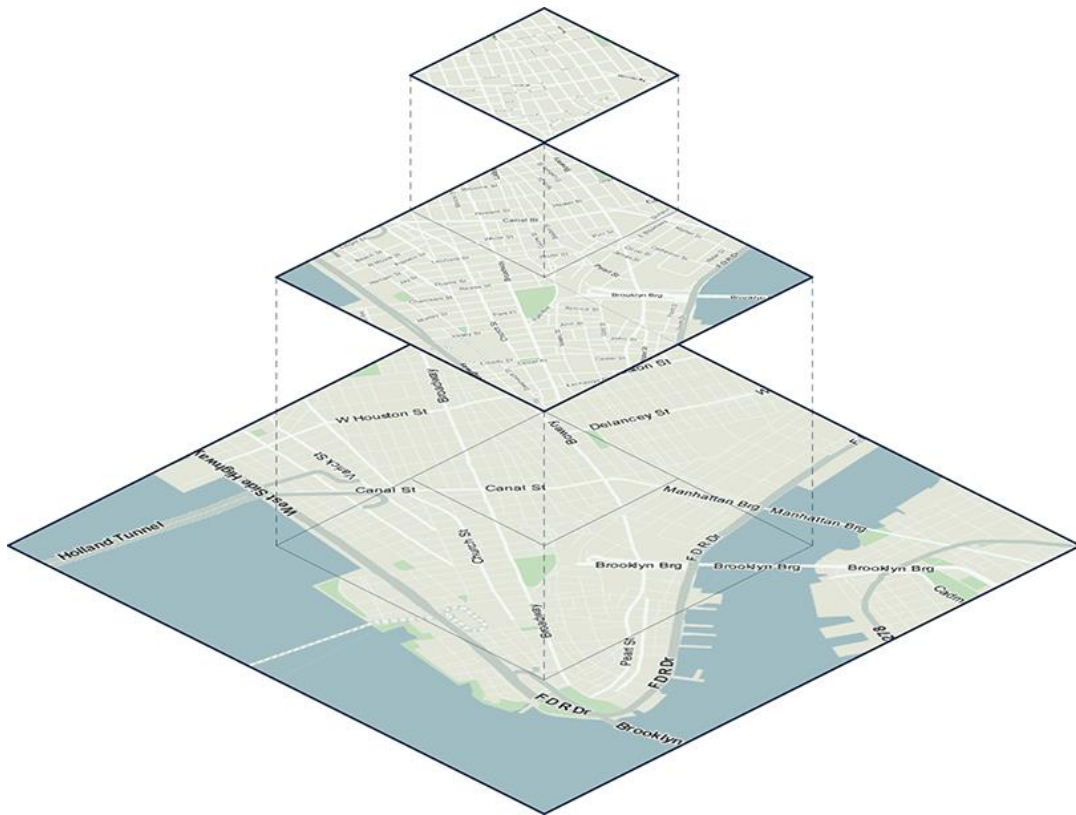
MASTER PROJECT



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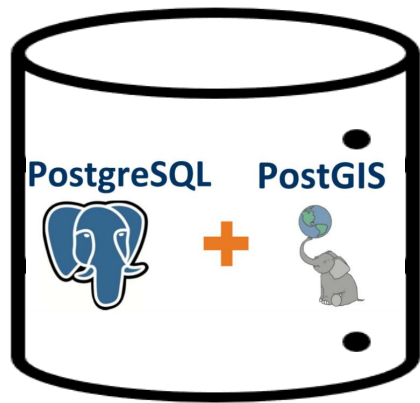
Layers and data




















- Raster layer in MBTile format



Layers and data

- Raster layer in MBTile format
- Vector layer to digitalize

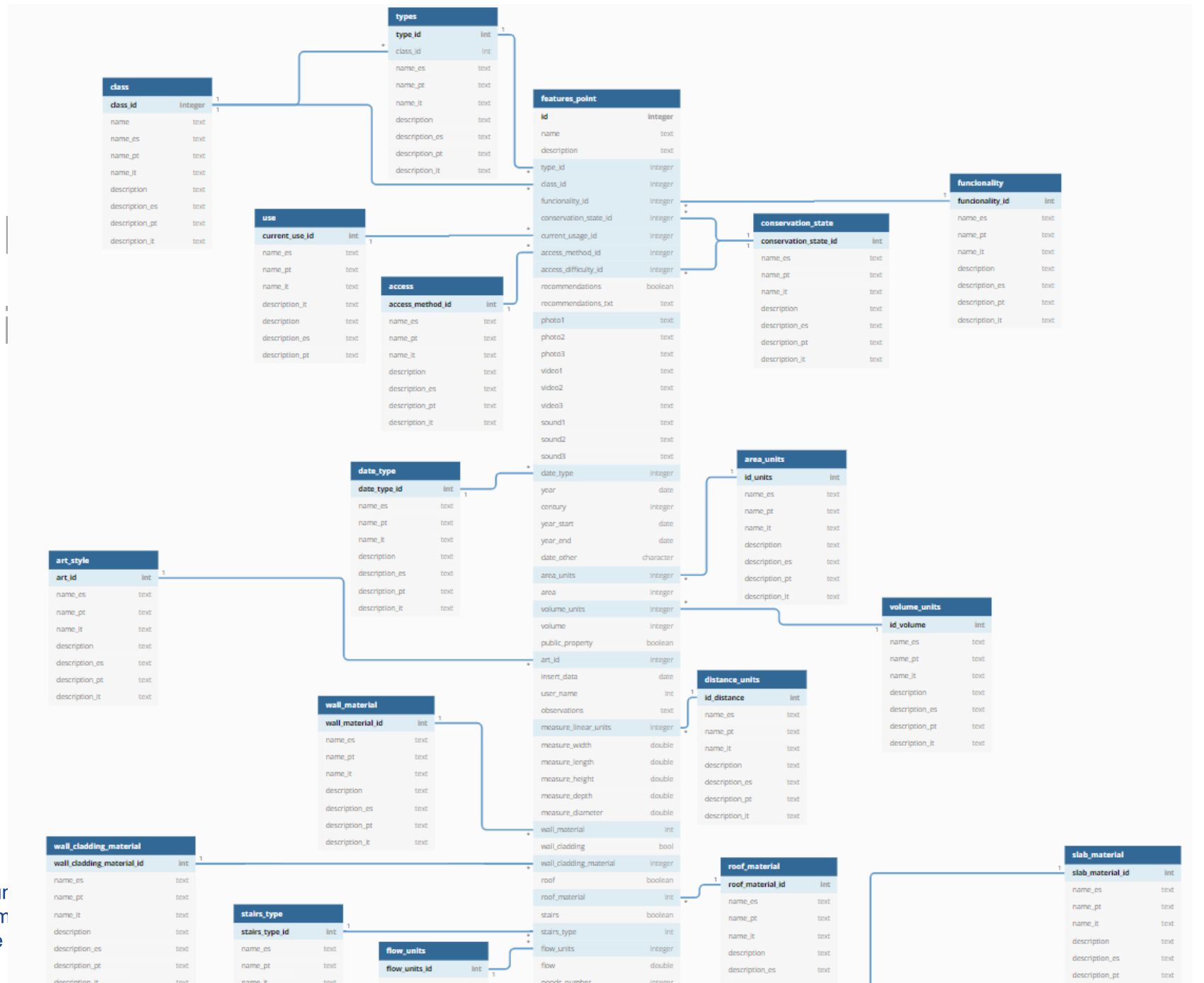


	Spring
	Waterfall
	Windmill
	Irrigation ponds
	Water source
	Weir
	Trough
	Water well
	Noria
	Fuller
	Laundry
	Oil press
	Recreation area
	Hydroelectric power station
	Paper factory
	Swamp
	Reservoir
	Bridge
	Aqueduct



Layers and

- Raster layer in M
- Vector layer for di
- Tables for forms



Hydraulic heritage - Feature Attributes

- REQUIRED
- OPTIONAL
- DATE
- MEASURES
- MEDIA
- IRRIGATIC

Public?

Conservation status: good

Current usage: in use

Access method: walking

Access difficulty: good

Wall material: (no selection)

Wall cladding:

Recomendaciones:

Recomendaciones: Excelente agua

Hydraulic heritage - Feature Attributes

- REQUIRED
- OPTIONAL
- DATE
- MEASURES
- MEDIA
- IRRIGA

Tipology: pre-industrial element

Hydraulic element: water source

Name: Fuente inventada

Description: Nada que decir

Hydraulic heritage - Feature Attributes

- OPTIONAL
- DATE
- MEASURES
- MEDIA
- IRRIGATION POND/WAT

Area units: square meters

Area: area 25

Length units: meters

Distance: Width 10, Height 2, Length 10

Volume units: cubic meters

Volume: Volumen 200



QField Sync

Sync your projects to QField

This plugin facilitates packaging QGIS projects for QField.

It analyses the current project and suggests (and performs) actions needed to make the project working on QField.

★★★★☆ 116 rating vote(s), 117236 downloads

Category Plugins

Tags [qfield](#), [android](#), [synchronization](#), [offline](#), [qfieldsync](#)

More info [homepage](#) [bug tracker](#) [code repository](#)

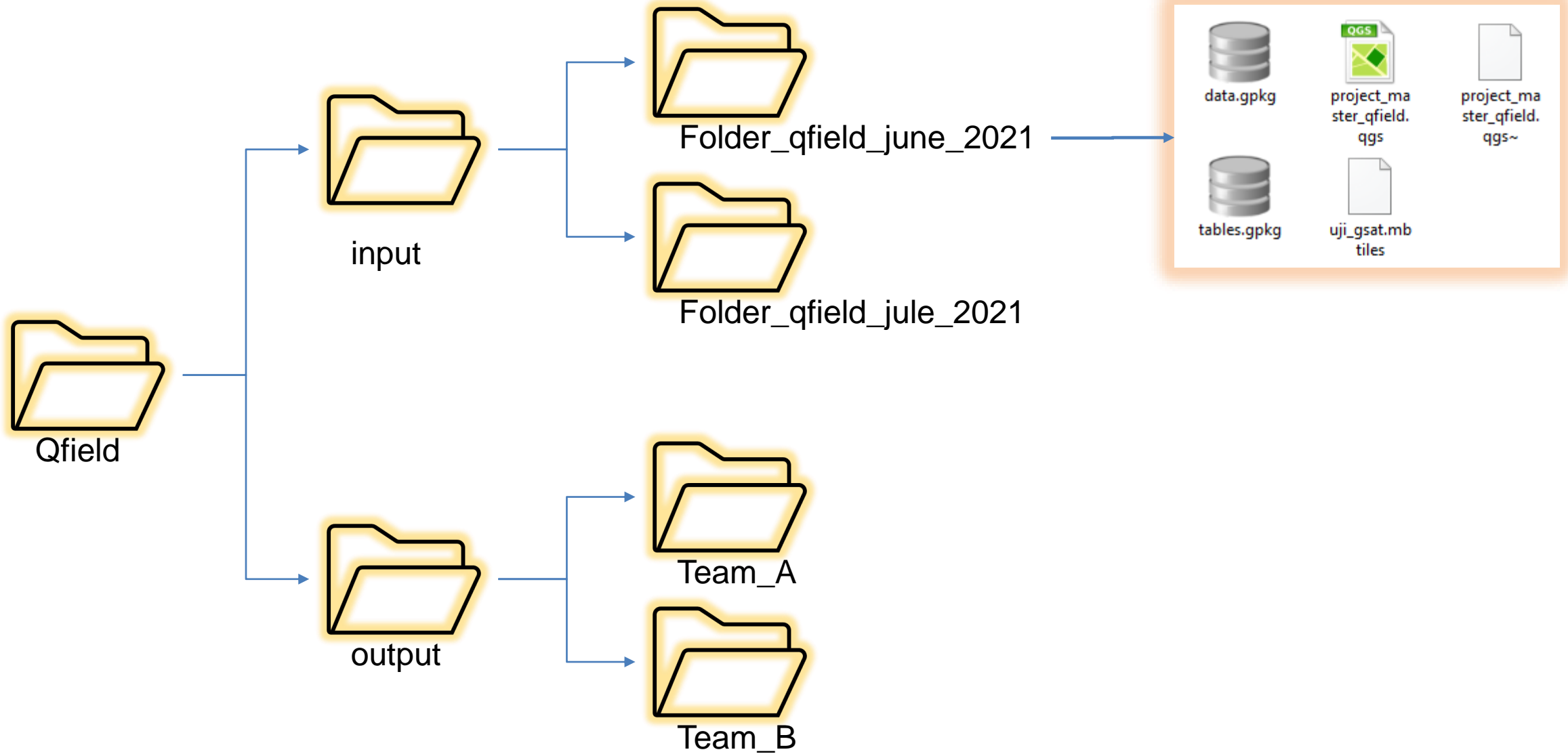
Author [OPENGIS.ch](#)

Installed version 3.4.1

Available version [v3.4.1](#)

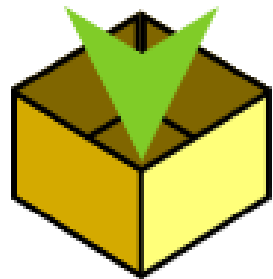
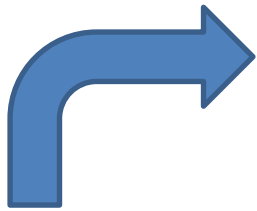
Changelog We've been busy improving QFieldSync, enjoy this

Upgrade All Uninstall Plugin Reinstall Plugin Close Help

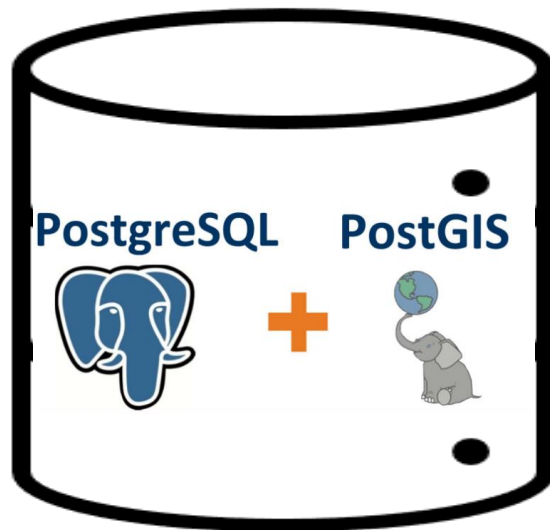




MASTER PROJECT



PACKAGE PROJECT
(portable folder)

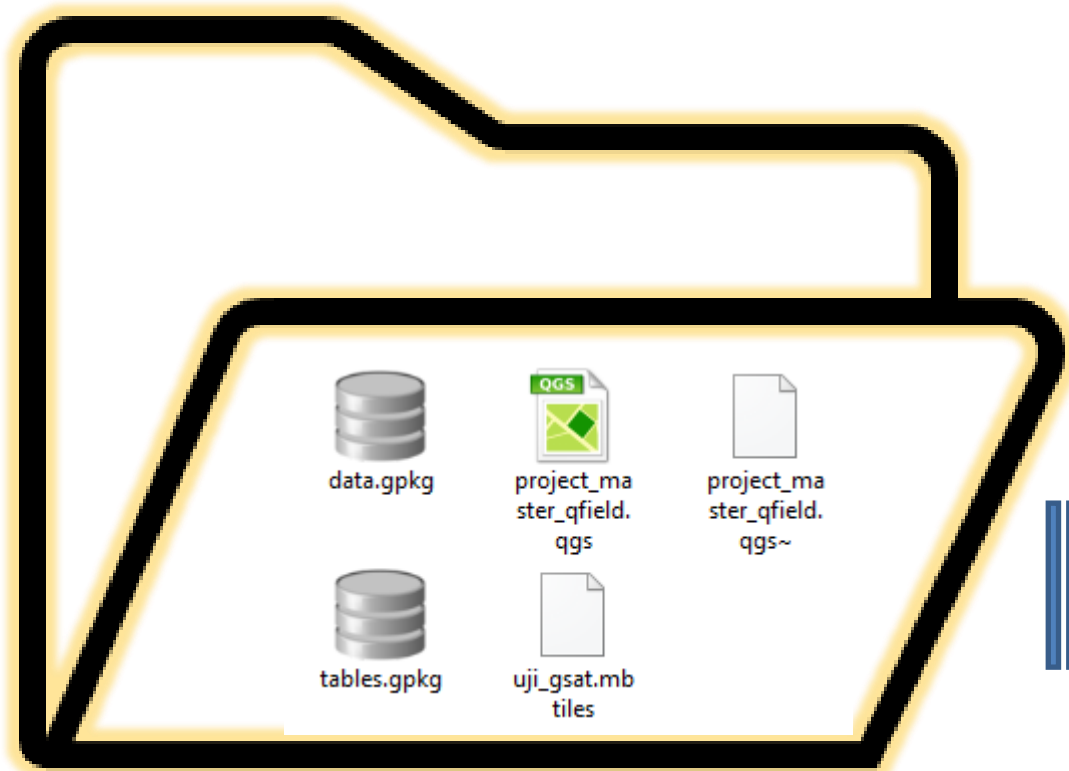


online

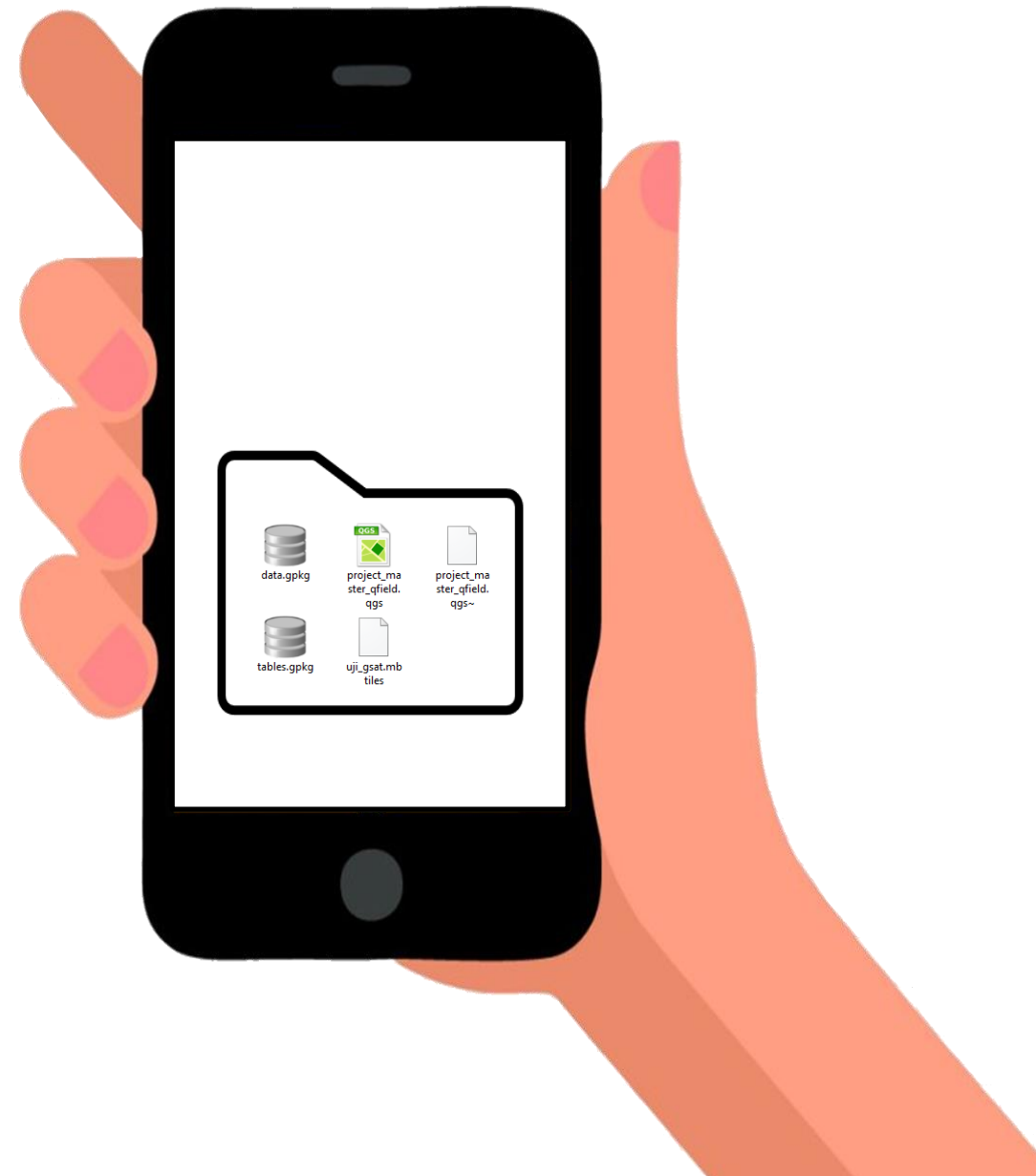
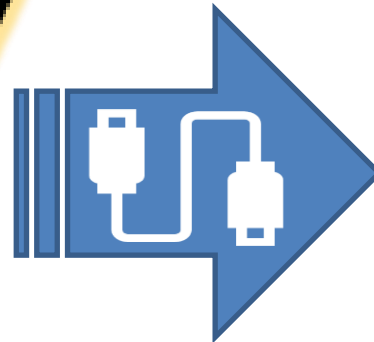


offline

/Download/Folder_qfield_june_2021



Folder_qfield_june_2021



H2O Map



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Transfer mobile folder to PC

- With USB cable
- Compress folder and send it by email, Telegram, Whatsapp, ...



Use usb to

- Transfer photos
- Transfer files
- Upload only

CANCEL



Coordinate cursor locked/unlocked to GPS position



Canvas follow location (navigation mode)



Adds feature to the cross in the center of the canvas or to the GPS position



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I.E.S. PENYAROLA



QField for QGIS

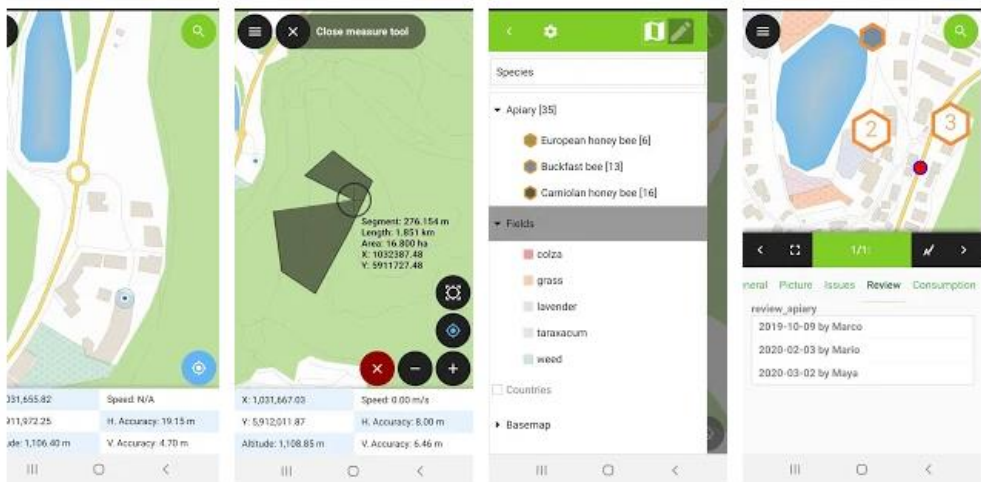
OPENGIS.ch Tools

★★★★★ 3,895

Everyone

This app is available for some of your devices

Installed



QField focuses on efficiently getting GIS fieldwork done.

The mobile GIS app from OPENGIS.ch combines a minimal design with sophisticated technology to get data from the field to the office in a comfortable and easy way.

QField is built on top of the professional QGIS open source project, allowing users to set up maps and forms in QGIS on their workstation, and deploy those in the field through QField. Leveraging QGIS' data providers - OGR, GDAL, PostGIS, and more - QField supports a wide variety of vector and raster formats.



QField para QGIS

OPENGIS.ch

Desinstalar

Abrir

Novedades

Última actualización: 1 may 2021

<https://github.com/opengisch/QField/releases/tag/v1.9.5>

Tu opinión



José Manuel Mira Martínez

★★★★★ 19/5/21

Excelente

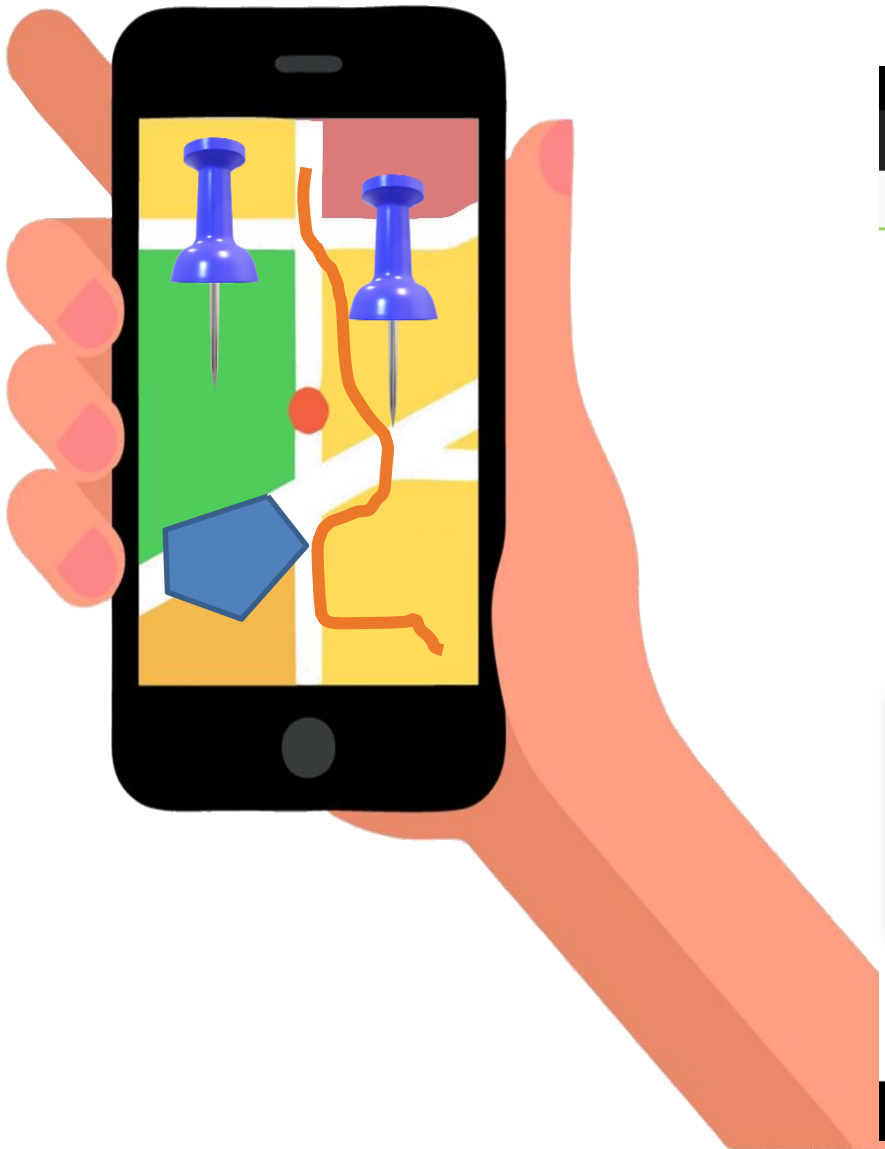
Editar reseña

Contacto del desarrollador

Únete al programa beta

Prueba las funciones nuevas antes de se publiquen oficialmente y envía tus sugerencias al desarrollador.





11:44 [status icons] [battery 75%]

✓ piscina ✕

REQUIRED OPCIONAL DATE MEASURES MEDIA

Tipology
pre-industrial element

Hydraulic element
irrigation ponds

Name
piscina

Description
piscina ornamental

Funcionalty
distribution
accumulation
use
captation

11:41 [status icons] [battery 76%]

< piscina > [edit] [share] [menu]

REQUIRED OPCIONAL DATE MEASURES MEDIA

Public?

Conservation status
good

Current usage
in use

Access method
walking

Access difficulty
good

Recomendations

Recomendaciones
Estanque muy bonito

11:43 [status icons] [battery 75%]

✓ piscina ✕

REQUIRED OPCIONAL DATE MEASURES MEDIA

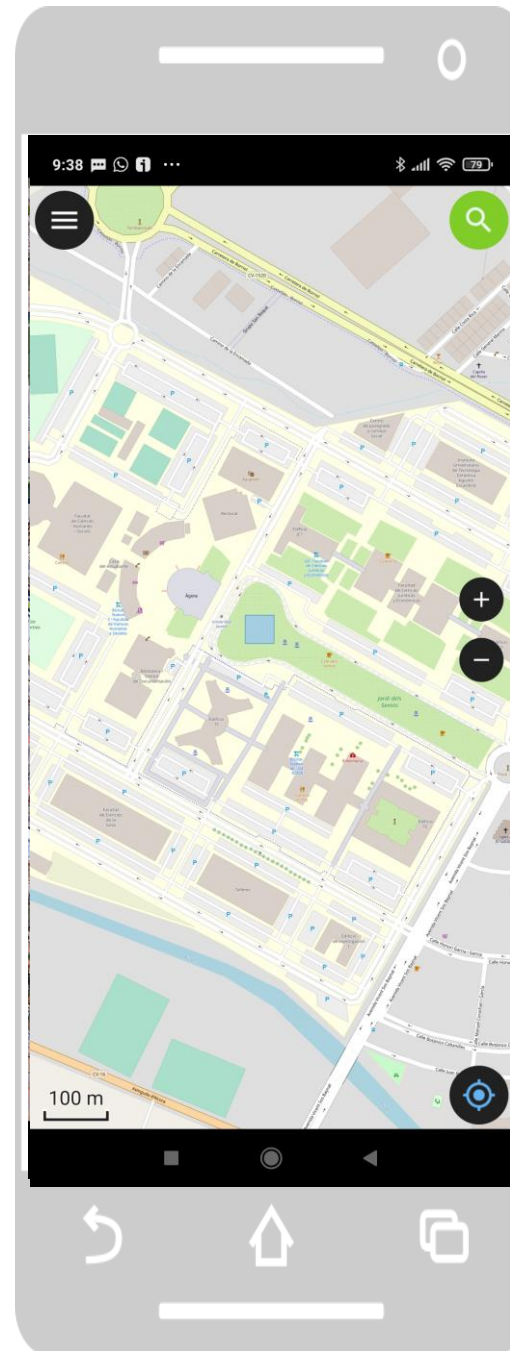
MEDIA

Make photo

[camera] [share]

• Background layer

For offline layer
MBTiles

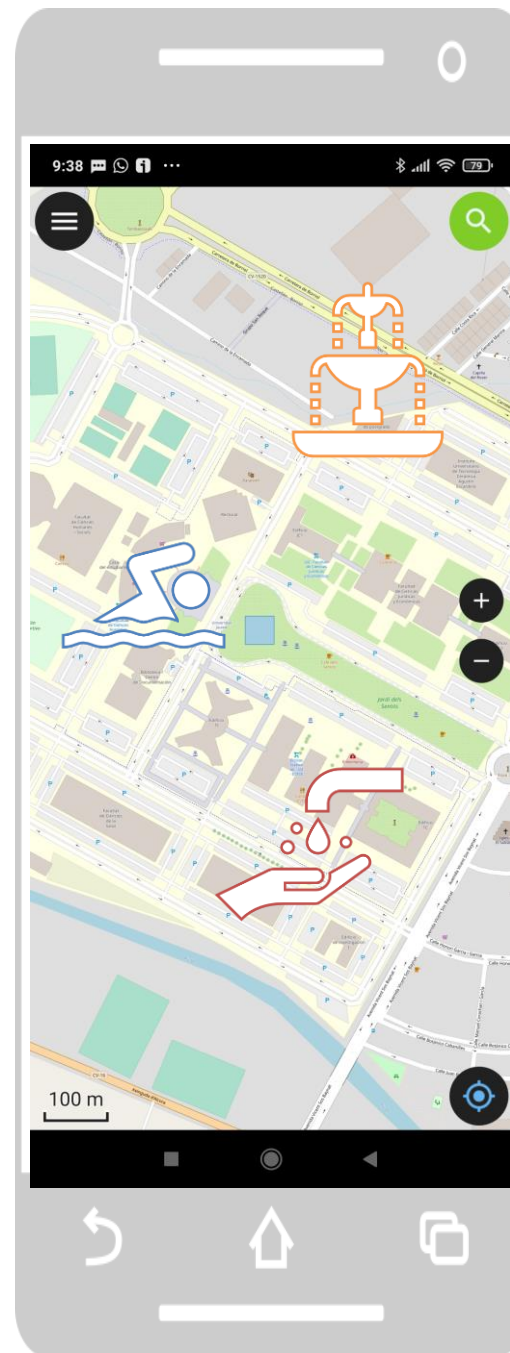


H₂O Map

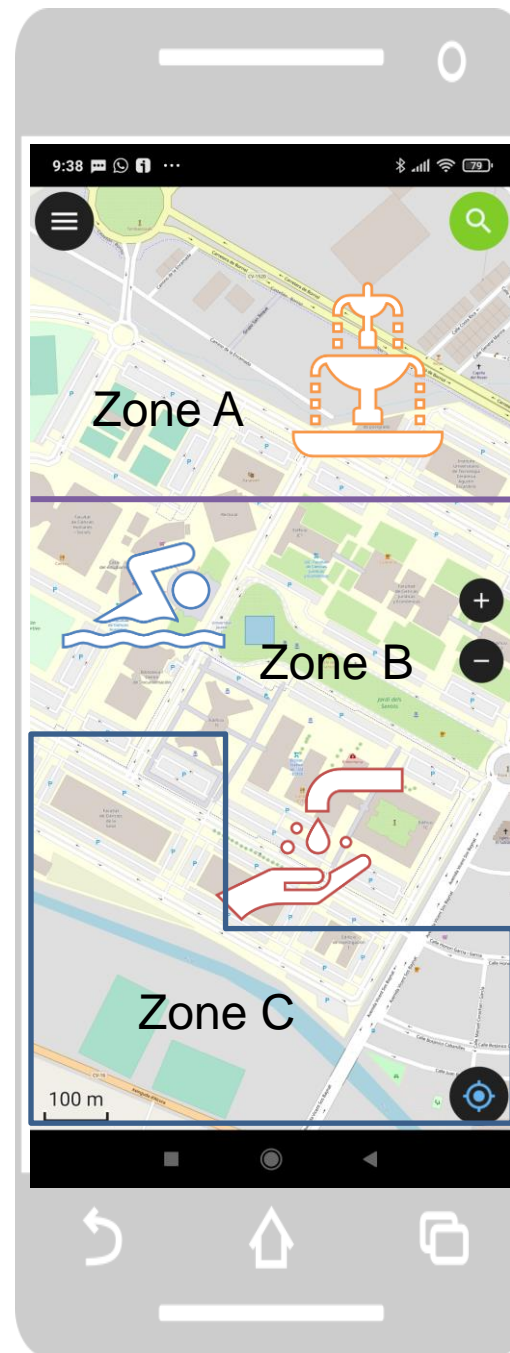


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- Background layer
- Vector layer to digitize



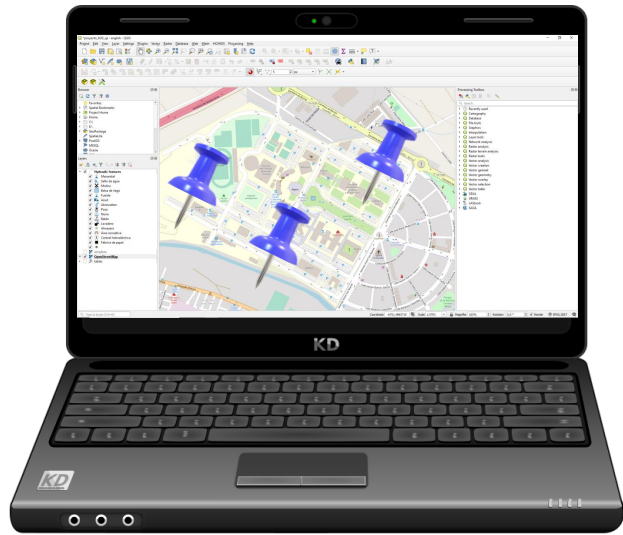
- Background layer
- Vector layer to digitize
- Cosmetic layer



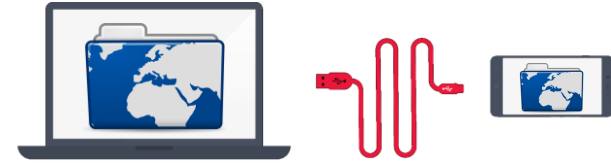
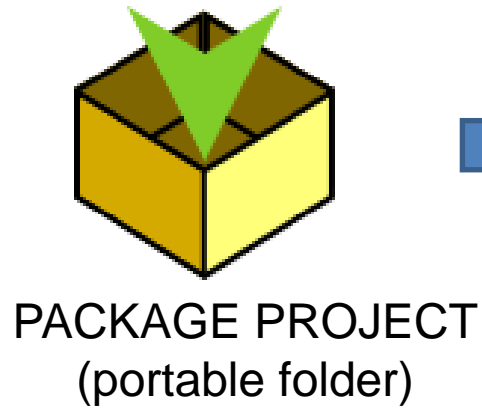
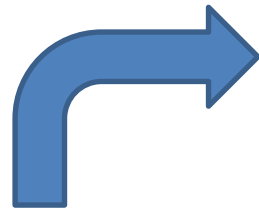
Transfer methods

- Zip folder and send by e-mail, Whatsapp, Telegram, ... and unzip in mobile
- Zip folder and send to cloud (ex. Google Drive) and unzip in mobile
- USB cable
- Future: QFieldCloud

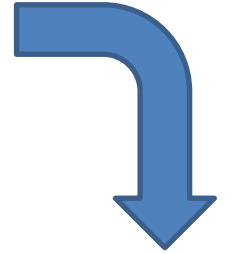




MASTER PROJECT

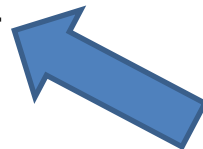
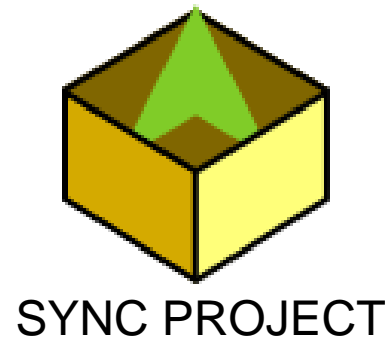


COPY FOLDER TO MOBILE



MAPPING FIELD

Workflow



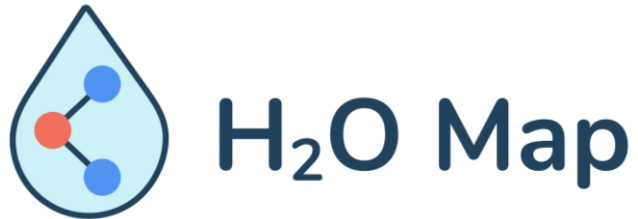
COPY FOLDER TO PC



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AGRUPAMENTO DE ESCOLAS DE CAMPO MAIOR