### On the field: Gaia GPS

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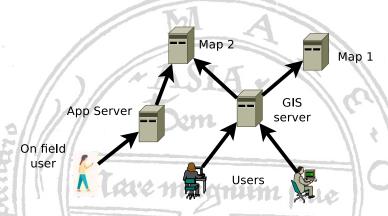
Summer School on Digital Humanities
Course material available at
https://github.com/AugustoCiuffoletti/dhss\_2021

Augusto Ciuffoletti

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### On the field: Gaia GPS



- The system now includes also an user on field
  - as well as autonomous devices like drones
- Gaia GPS is one of the many apps that are useful for on field GIS
  - ...and one of the few that runs on both Android and iPhone

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### Using the Gaia GPS App

- You need to register to the service (use a free account for practicing)
- The activities of interest:
  - record a live track of an itinerary (as a line feature)
  - record waypoints (as point features)
  - associate written annotations (as point attributes)
  - associate pictures to points (as point attributes)
- Gaia GPS allows to perform all such activities
- Features can be exported as GPX, KMZ or CSV files in a cloud storage

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A companion Web service helps processing features

#### Gaia GPS: the main screen



### Recording a track with Gaia GPS

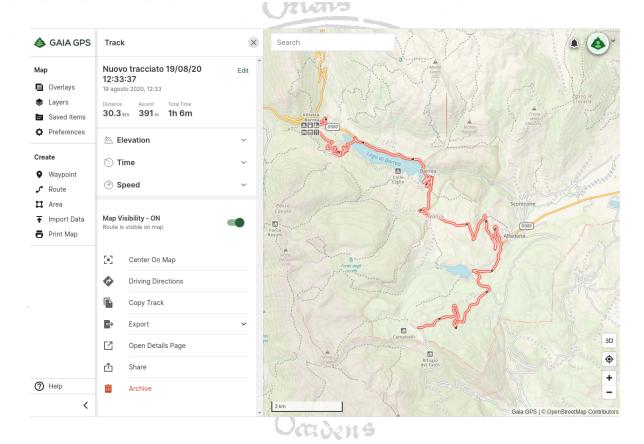
- Start recording a track with the Record button
  - running time is displayed
- As you walk, record waypoints and take pictures using the + button
  - · right screen in figure
  - add a note to waypoints
  - a waypoint may be associated with pictures
- You can pause using the button showing time
- Use the same button to terminate and save the track
- Access recorded tracks using the Saved button
  - left screen in figure
- Tapping on a feature you can export in various formats (GPX, KML, CSV)
- Share using social/cloud services or the GaiaGPS cloud storage

### Processing the track on the Web service

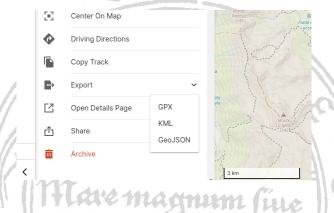
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- If you share your GPX using the GaiaGPS cloud storage you can easely view your track on a computer
- Enter the service at https://www.gaiagps.com/ using your Gaia GPS credentials
- Select your track browsing your profile
- Click on a track to view the map and update details

### Gaia GPS Web Service



## Downloading the data in the PC



- In the left toolbar select Saved Items
- Click on the feature you want to export
- Browse to the bottom of the Track details frame and find the Export item
- Select the export format from the list
- Browse your hard disk to find a place to save the feature description

## Import a Gaia GPS track in QGIS

- When you have successfully downloaded your feature on your PC:
  - Open QGIS and create a new project (or use an old one)
  - Layer -> Add layer -> Add vector
  - Browse to find your GPX file
  - Add, select all, OK and close the form
  - Your track is now on QGIS

# Import a Gaia GPS track in uMap

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- When you have successfully downloaded your feature on your PC:
- Enter the uMap Web service
- Create a new map (or use an old one)
- Enable editing (if disabled)
- Press the import button on the right
- Browse to find your GPX file
- ... and import (in a new layer or in an old one)
- Your track is now on uMap

## Time for a Gaia GPS 'challenge'

#### Track your walk:

- consider a nearby point of interest (e.g. a bridge, a pub, or a tower)
- reach it while tracking your walk with Gaia GPS
- take a picture of your point of interest
- record some waypoint for shops, turns at your taste
- when back, export the track and your waypoints in Gaia GPS cloud as a GPX file and copy the URL
- use that URL to import the data of your walk in uMap on your computer
  - use the shared map at https://umap.openstreetmap.fr/it/map/dhss\_2021\_616270
- display the picture(s) you took in the waypoint description.

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