On the field: Gaia GPS

Summer School on Digital Humanities
Course material available at
https://bitbucket.org/augusto_ciuffoletti/digitalmaps4ssdh
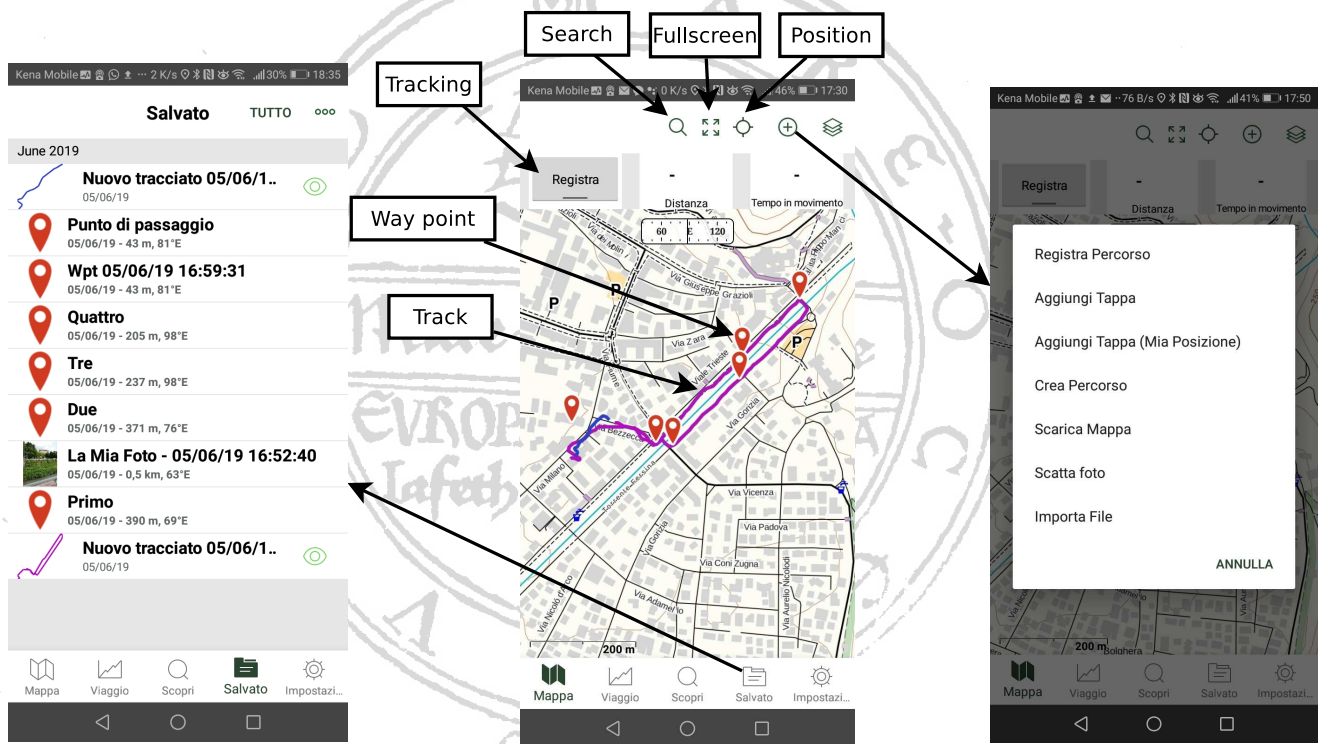
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On the field: Gaia GPS

- 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
- 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
- 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)
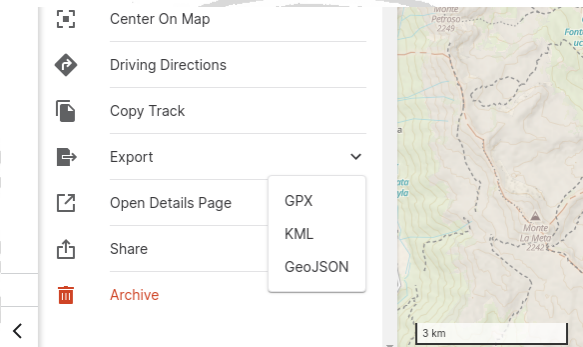- Share using social/cloud services or the GaiaGPS cloud storage

Processing the track on the Web service

- 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

Import a Gaia GPS track in qGis

⊡ Center On Map	
⬦ Driving Directions	
▤ Copy Track	
➭ Export ⌄	
↗ Open Details Page	GPX
	KML
⬆ Share	GeoJSON
🗑 Archive	

- Export your track data
  - select the GPX format
- 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

- Download your track data as above
- 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