

# DigiAgriApp: development of a Free and Open Source app for digital agriculture

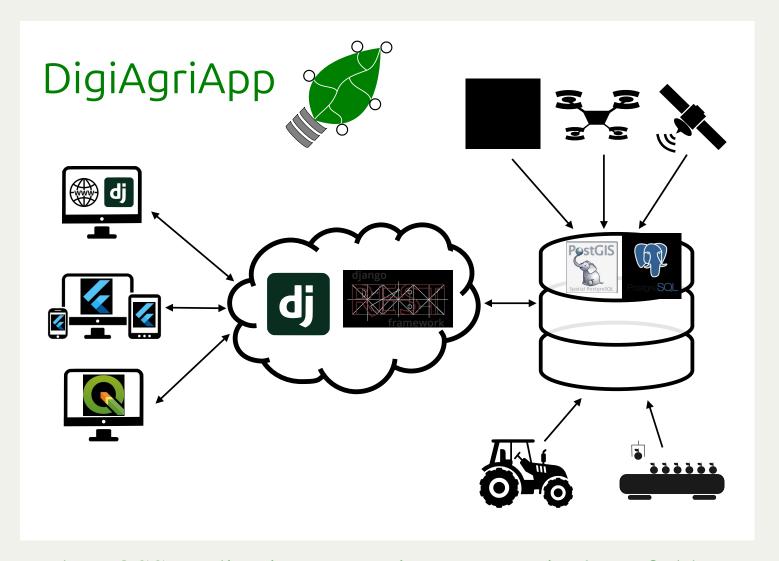
Luca Delucchi<sup>1</sup>

Fondazione Edmund Mach

<sup>1</sup> Centro Ricerca e Innovazione

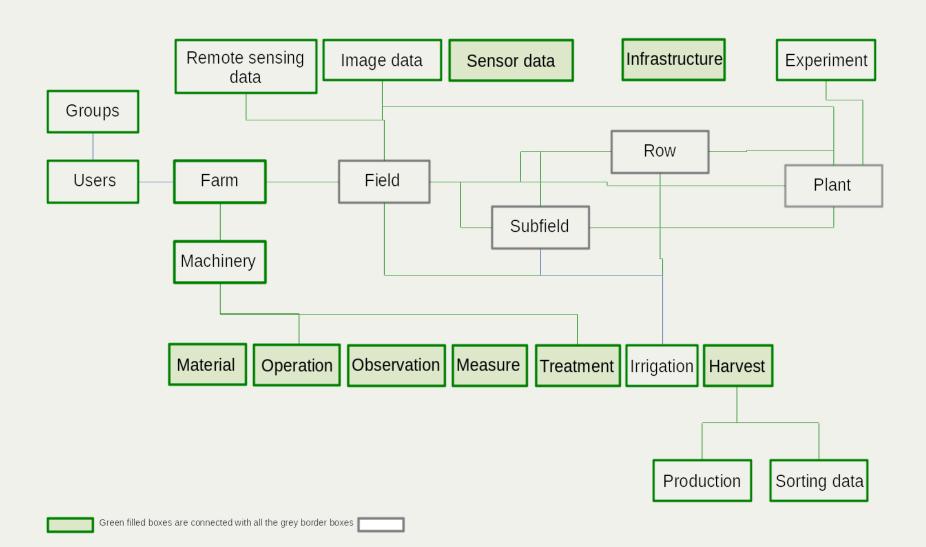
<sup>1</sup> Unità Agricoltura Digitale

## What is DigiAgriApp?



the FOSS application to monitor your agriculture field

## DigiAgriApp database structure





DigiAgriApp GitLab repository



• Source code



- Source code
- Issues Merge Requests



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- Automated tests (server only)



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- Website



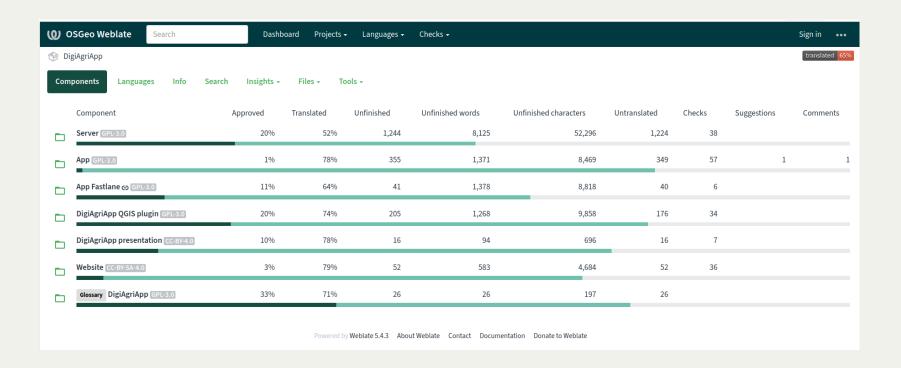
- Source code
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- Documentation



- Source code
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- Documentation
- Presentations

#### FOSS infrastructure: translation

#### OSGeo Weblate instance



## FOSS infrastructure: distribution



#### FOSS infrastructure: distribution





GitLab Releases

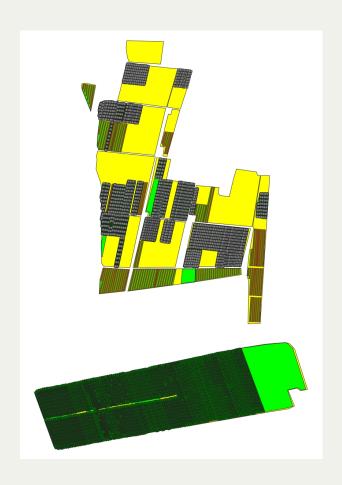
## FOSS infrastructure: social

Mastodon and Fediverso



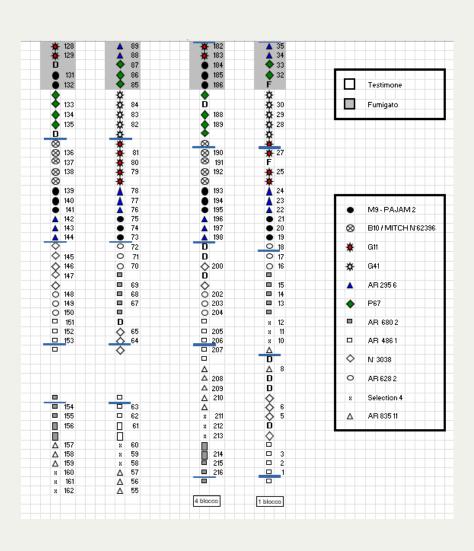
@digiagriapp

Used to monitor plant for experiment of apple tree cultivation (started 2024, with older data)

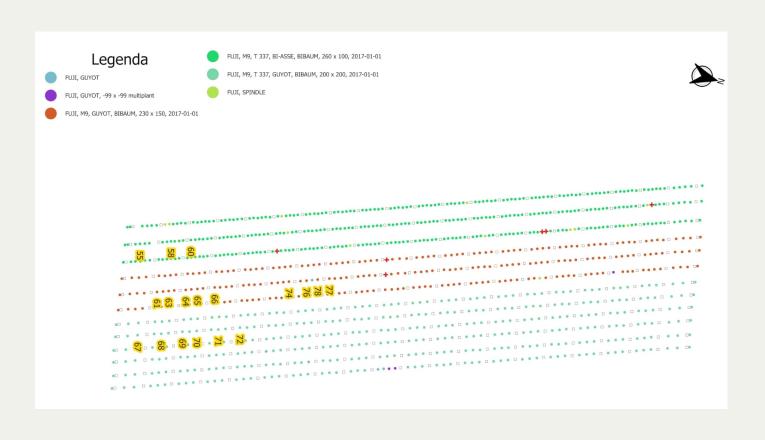


Farms:	5
Total Area:	13 ha
Fields:	20
Plants:	21226
Material (Crops):	914
Observations:	144 (400 plants)
Measure:	29178
Users:	7
Sorted fruit:	1020857

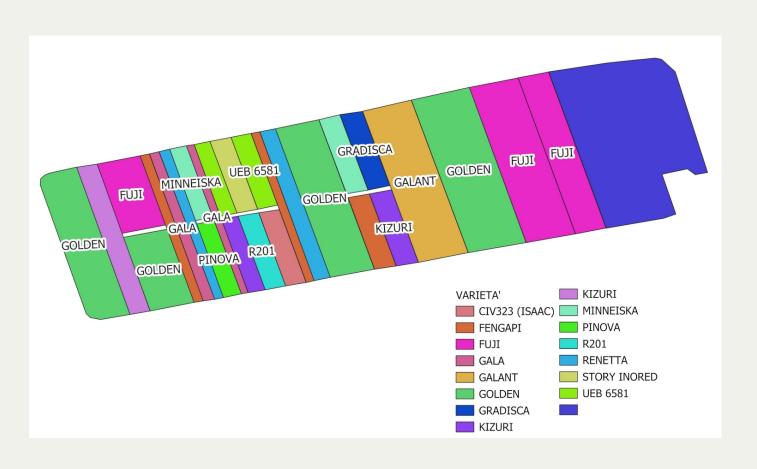
Old map used to map the fields



Map of singular field with different plant's material



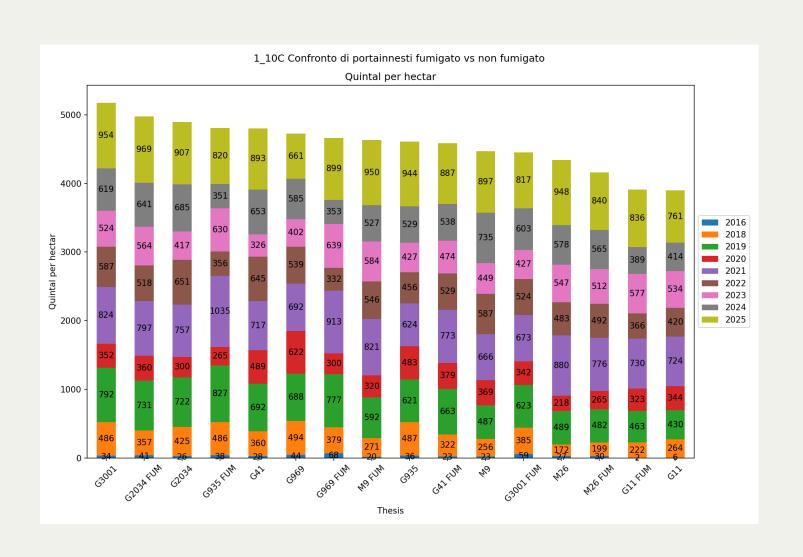
#### Map of variaties in the farm



#### Maps to manage the replanting

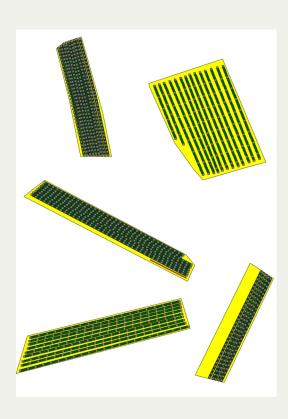


#### Production graphs



## Case study: viticulture

Used in a project related to flavescence dor (started summer 2025)



Farms:	5
Total Area:	1.9 ha
Fields:	5
Plants:	7632
Material (Crops):	19
Observations:	51 (125 plants)
Measure:	0
Users:	4

## Case study: viticulture

#### Maps to manage the diseased plants



## DigiAgriApp: acknowledgements



With the contribution of Fondazione VRT



Thanks to Hydrologis support



Thanks to G-ANT support



Thanks to Igloo support

## Questions?





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