

SEPAL

System for Earth Observation Data Access, Processing and Analysis for Land Monitoring

Cloud-based catalyst for autonomous land monitoring

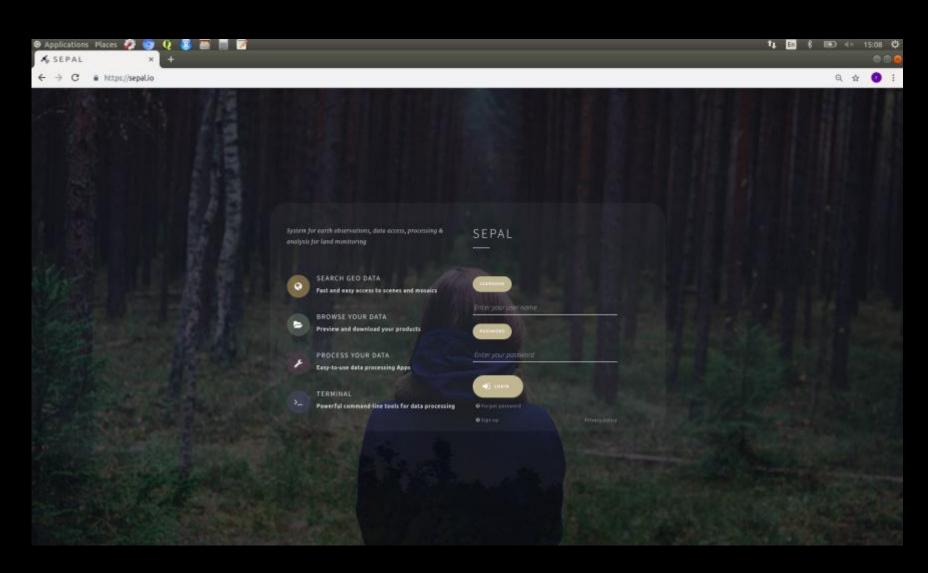
@ sepal.io

Open source

Easy processing of earth observation data

Reduce time from innovation to adoption

Remove fear of making mistakes: fail fast



SEPAL functionnalities





Optical mosaics (Sentinel 2 and Landsat) Supervised change detection Thematic classification



Segmentation Object based analysis



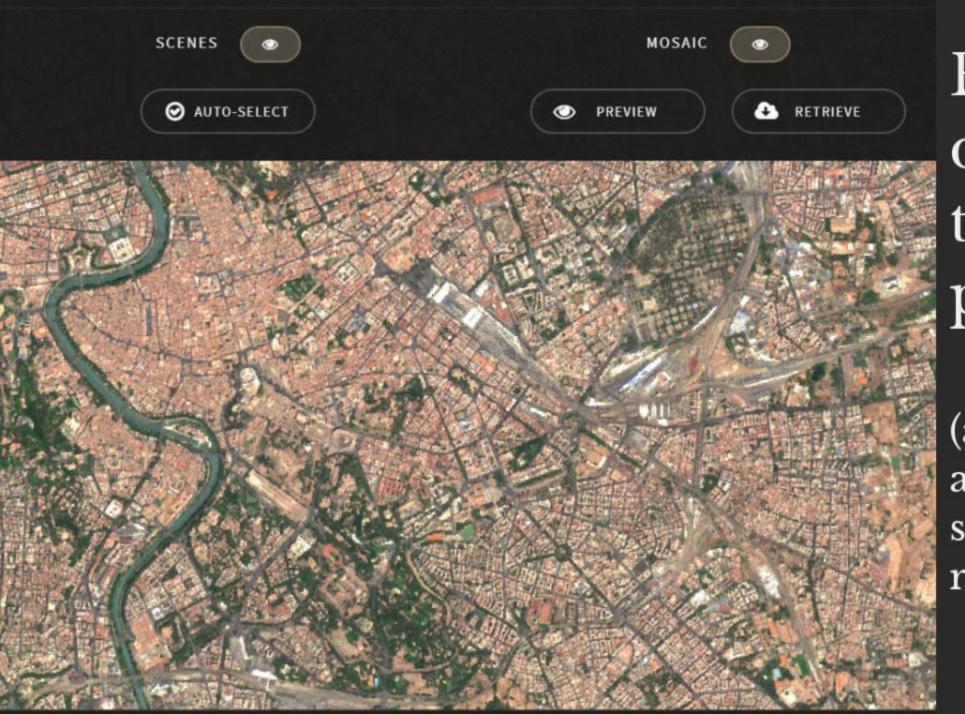
Radar data processing



Sampling based analysis

Use you own processing chains on a powerful server

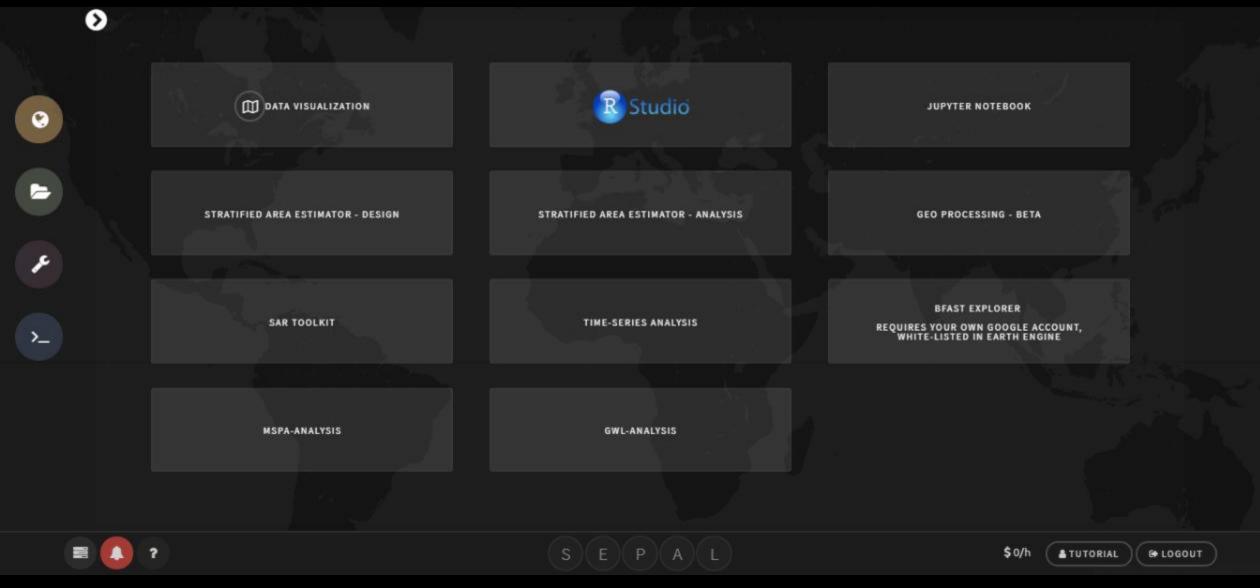
```
1 t2.small, 1 CPU / 2.0 GiB, 0.025 USD/h
2 m3.medium, 1 CPU / 3.75 GiB, 0.073 USD/h
3 m4.large, 2 CPU / 8.0 GiB, 0.119 USD/h
4 m4.xlarge, 4 CPU / 16.0 GiB, 0.238 USD/h
5 m4.2xlarge, 8 CPU / 32.0 GiB, 0.475 USD/h
6 m4.4xlarge, 16 CPU / 64.0 GiB, 0.95 USD/h
7 m4.10xlarge, 40 CPU / 160.0 GiB, 2.377 USD/h
8 m4.16xlarge, 64 CPU / 256.0 GiB, 3.803 USD/h
9 c4.large, 2 CPU / 3.75 GiB, 0.113 USD/h
10 c4.xlarge, 4 CPU / 7.5 GiB, 0.113 USD/h
11 c4.2xlarge, 8 CPU / 15.0 GiB, 0.453 USD/h
12 c4.4xlarge, 16 CPU / 30.8 GiB, 0.905 USD/h
13 c4.8xlarge, 36 CPU / 60.0 GiB, 1.811 USD/h
14 r4.large, 2 CPU / 15.25 GiB, 0.148 USD/h
15 r4.xlarge, 4 CPU / 30.5 GiB, 0.296 USD/h
16 r4.2xlarge, 8 CPU / 61.0 GiB, 0.593 USD/h
17 r4.xlarge, 16 CPU / 122.0 GiB, 1.186 USD/h
18 r4.8xlarge, 32 CPU / 244.0 GiB, 2.371 USD/h
19 r4.16xlarge, 64 CPU / 488.0 GiB, 4.742 USD/h
20 x1.16xlarge, 64 CPU / 976.0 GiB, 8.003 USD/h
21 x1.32xlarge, 128 CPU / 1920.0 GiB, 16.006 USD/h
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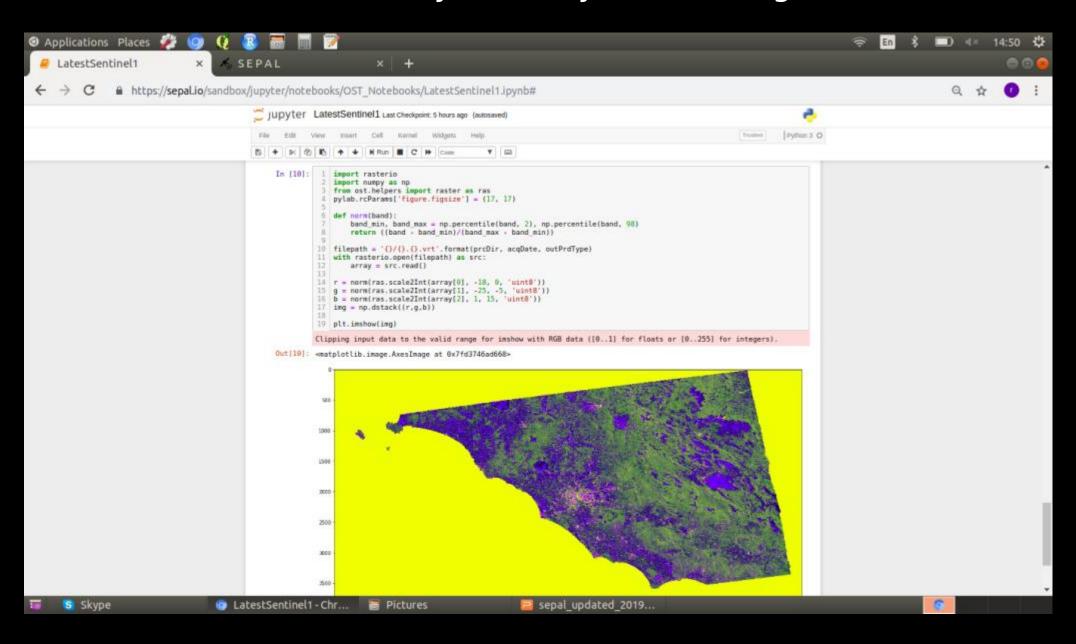
Bring the data to the people

(and algorithms, software and recipes)

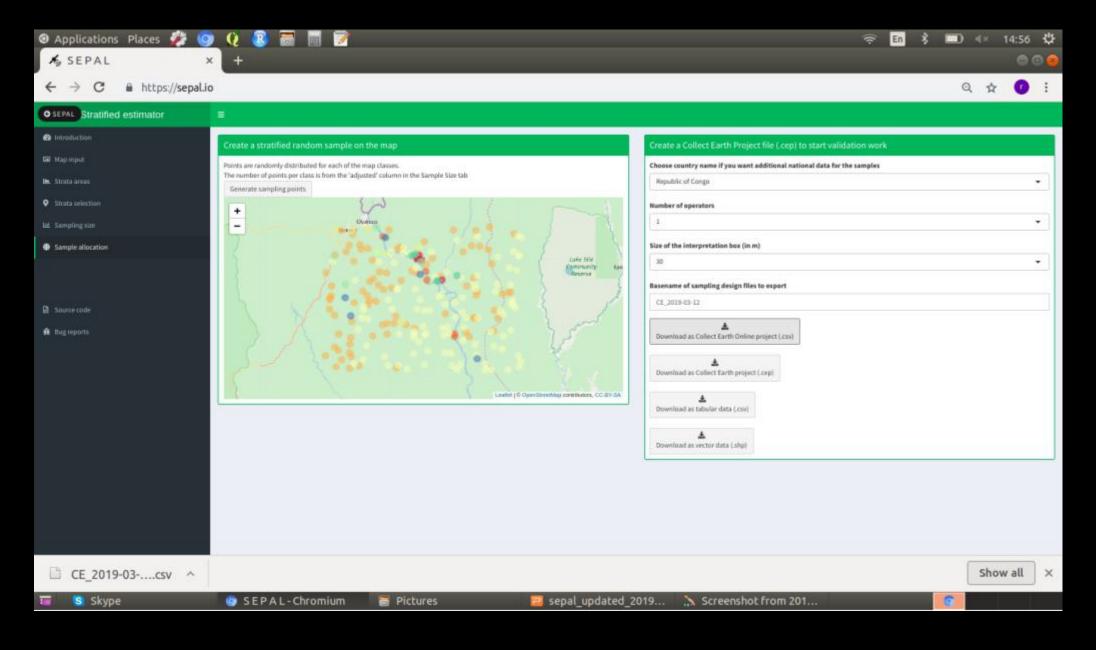
SEPAL Modules for Extended Capacity and Collaboration



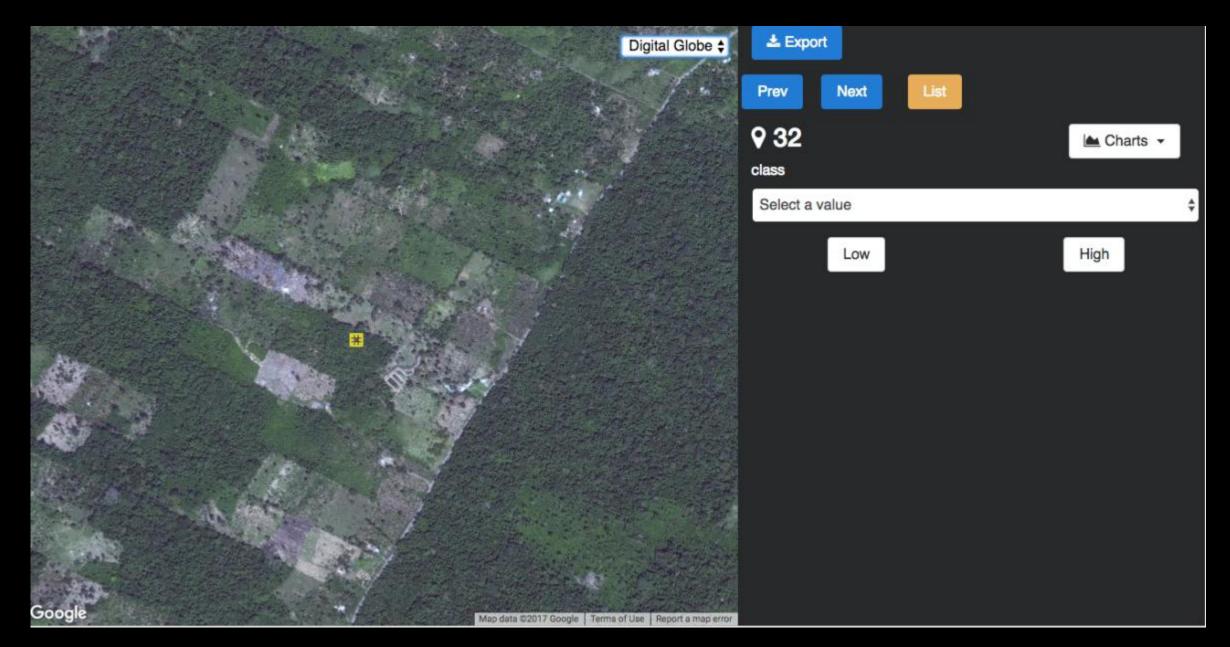
PYTHON NOTEBOOKS: Analysis ready Radar images



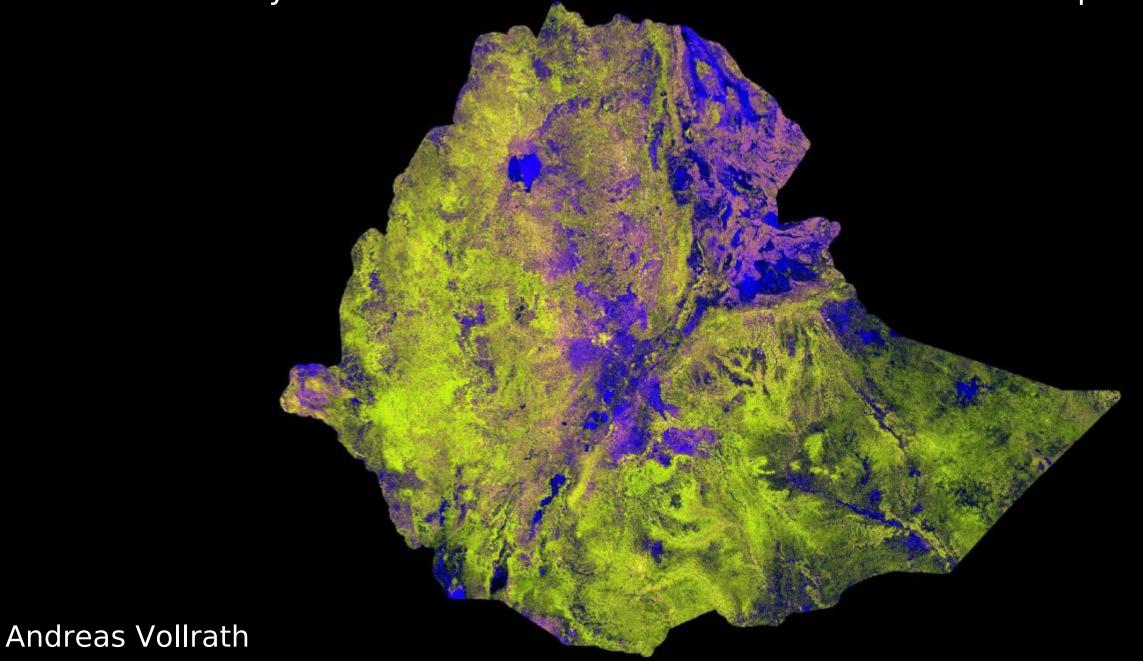
RSTUDIO SHINY: stratified area estimation from design to analysis



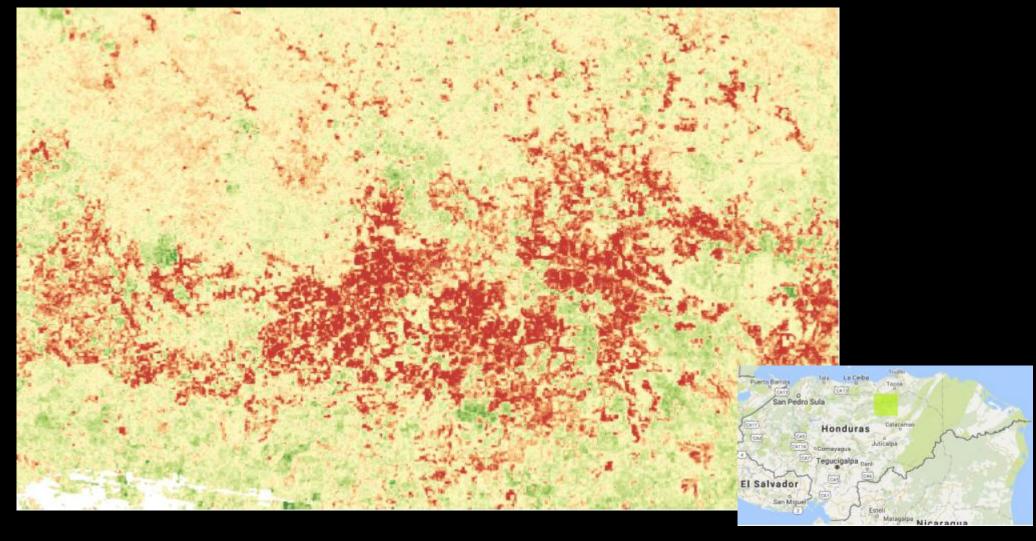
Sample-based assessments - Training and Reference Data



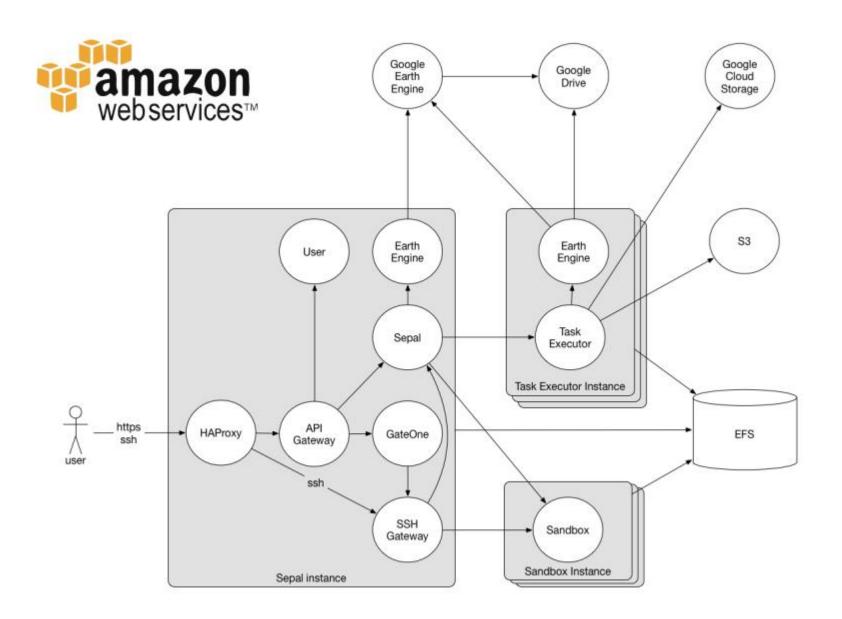
Analysis read mosaic of Sentinel 1 SAR data over Ethiopia

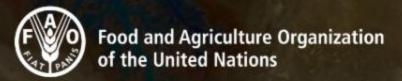


Landsat Time-series Analysis - Honduras Insect Damage



Every acquisition from 2010 - 2018 processed





Thanks to

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Rachel Golder, Esther Phillips

Many more...