







Estimation of area for REDD+ using stratified sampling design: application with SEPAL tools

Webinar GOFC-GOLD, 2017/06/06

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Request access to SEPAL

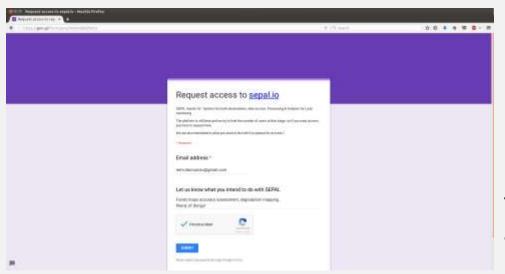






SEPAL stands for: System for Earth observations, data access, Processing & Analysis for Land monitoring.

The platform is still beta and we try to limit the number of users at that stage



If you want access, you have to request in this Google Survey

(https://goo.gl/forms/9cz2BGCch32H331y1)

You will then receive an email with a link to activate your access.

Remember to check in your **SPAMS**, it might be there.



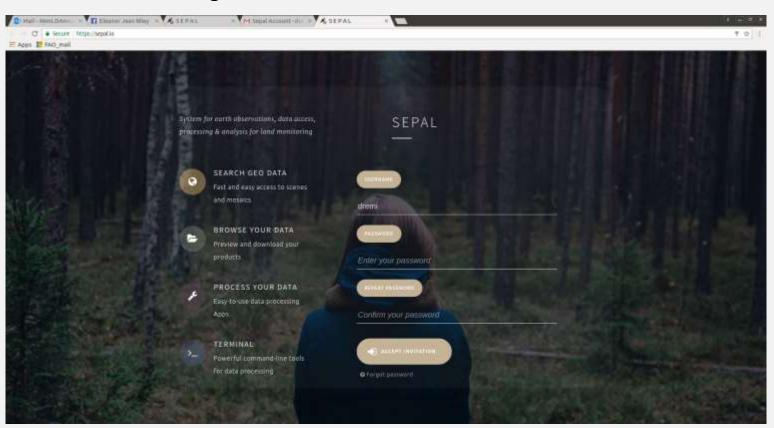
Setup your password in SEPAL







It needs at least one upper case, one lower case and one number. The minimum size is 6 digits.



You can always reach the platform at https://sepal.io

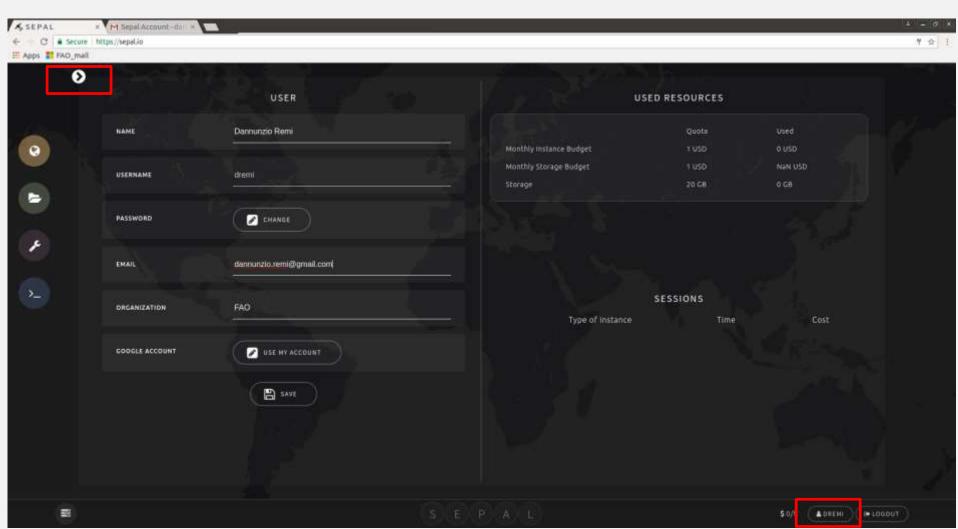








Check your status, budget, parameters





Start the PROCESS tab







There are four fields in SEPAL

SEARCH

BROWSE

TERMINAL

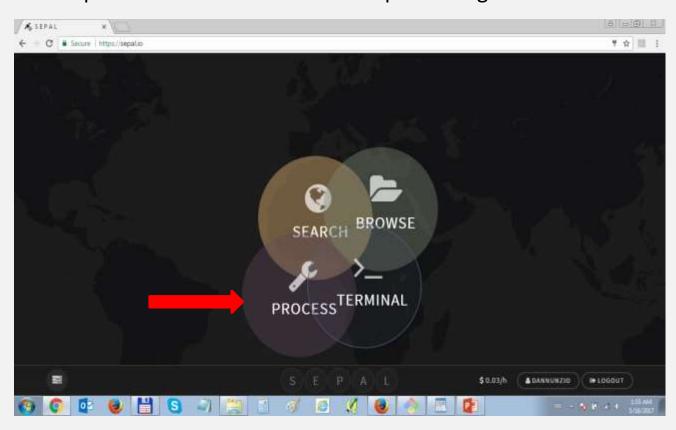
PROCESS

for imagery and creating mosaics

through your personal folders and visualize your data

to access all the command lines possibilities of the LINUX server

access pre-loaded tools and chains of processing



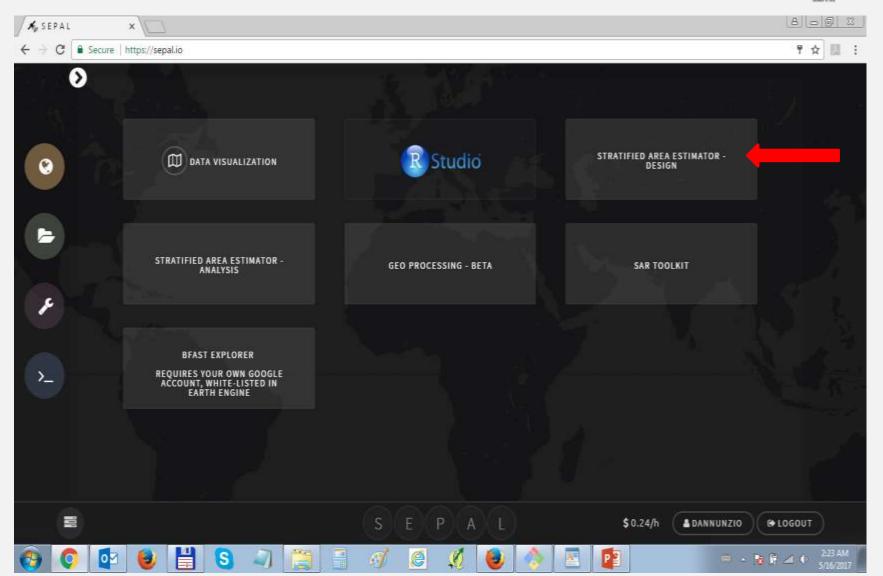


Select SAE - DESIGN tool











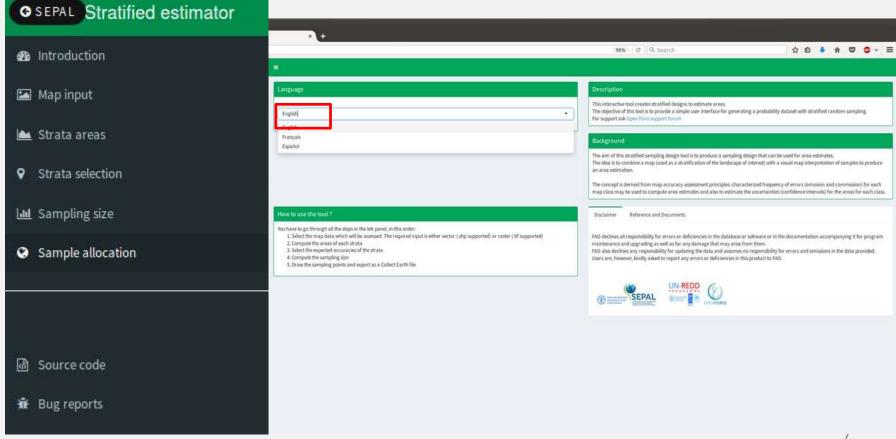
Introduction TAB: Select your language







Check the description tabs and the tool structure. Steps need to be performed one after the other.





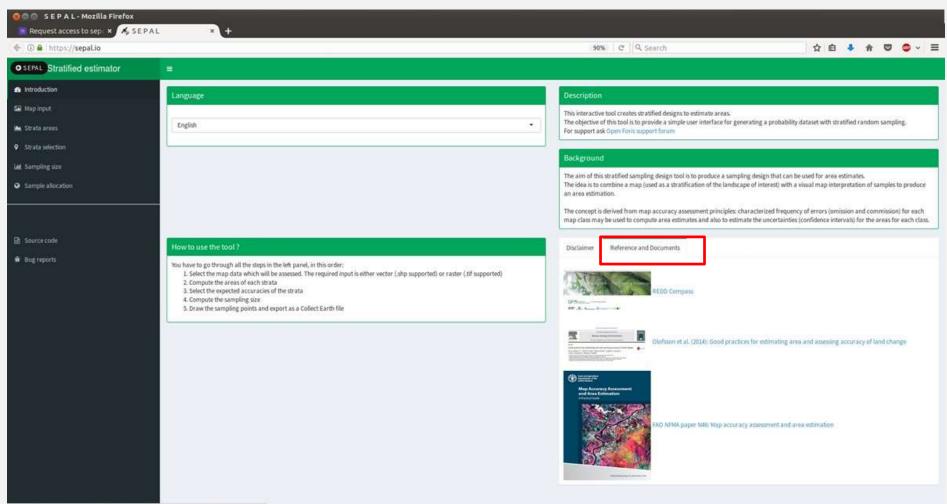
Introduction TAB: reference documents







Access reference and background documents, the link will bring you directly there





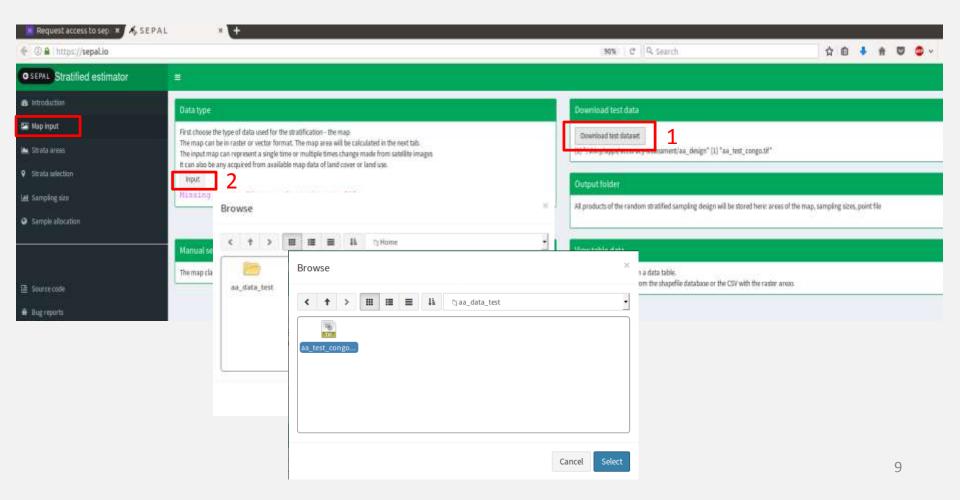
STEP 1 Map input







- 1. Download the test dataset (note it is downloaded to your SEPAL workspace)
- Select the map you just downloaded (INPUT/sae_data_test/test_map_congo.tif)





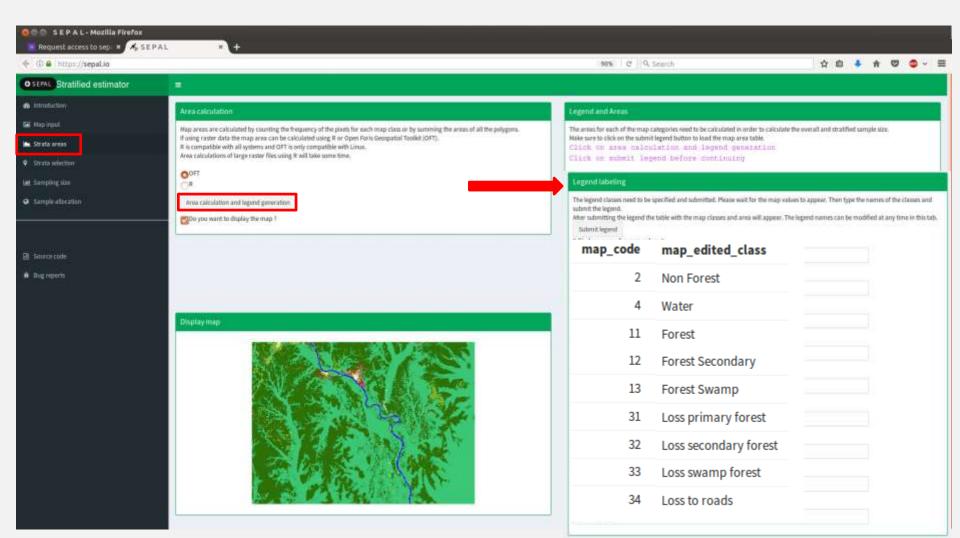
STEP 2 Strata areas







Display map by checking box Generate the legend by clicking on the button: you can further EDIT the legend





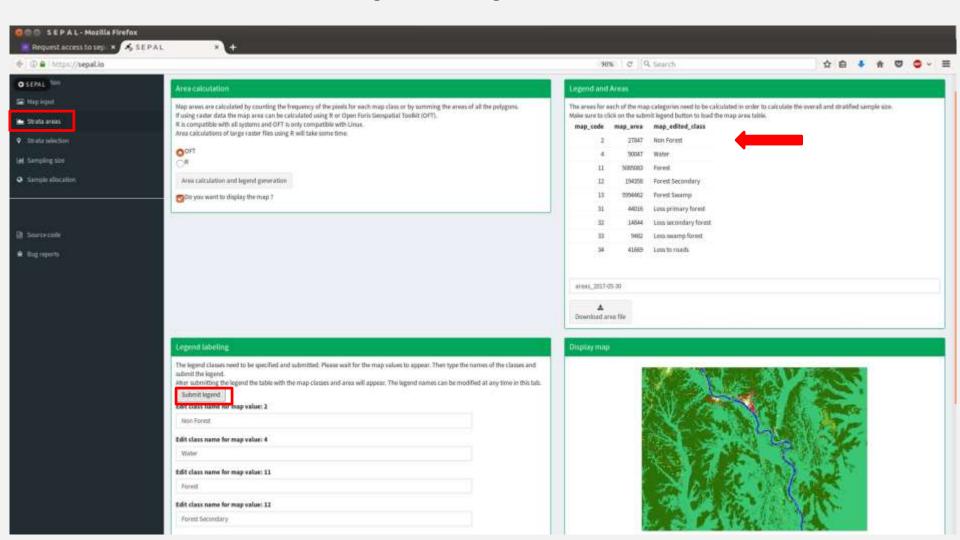
STEP 2 Strata areas







Submit the legend: you can edit as much as you want but remember to SUBMIT The classes name will be showing in later stage for data collection



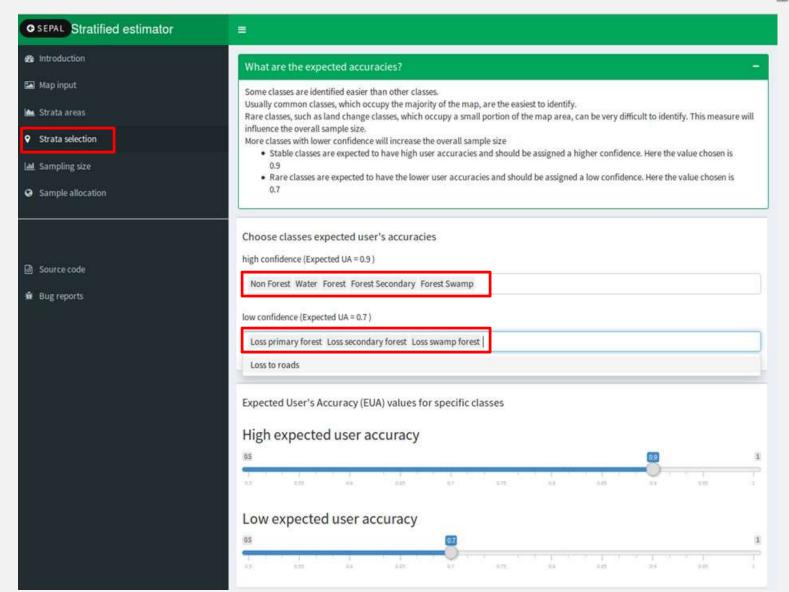


STEP 3 Select strata of interest and associated EUA











STEP 4 Sampling distribution

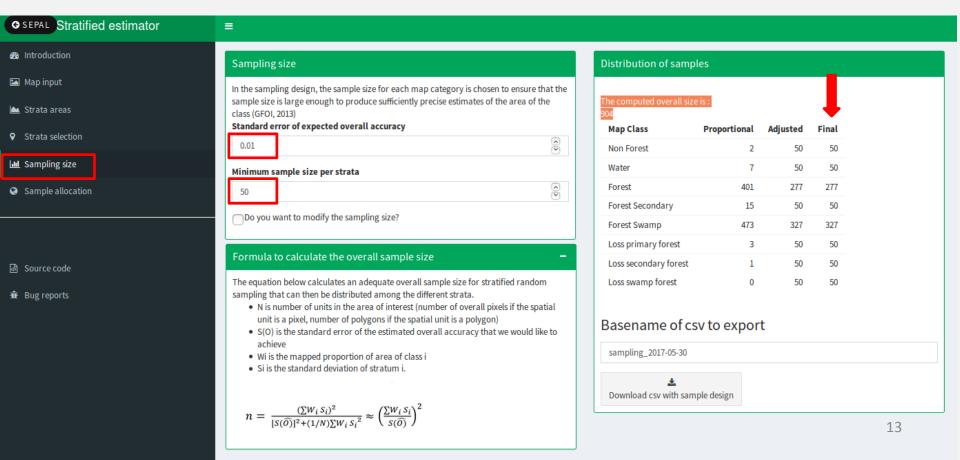






Tweak the standard error of overall accuracy & minimum sample size

Samples are allocated by minimum size first and the rest is distributed proportionally to strata size





STEP 5 Sample allocation

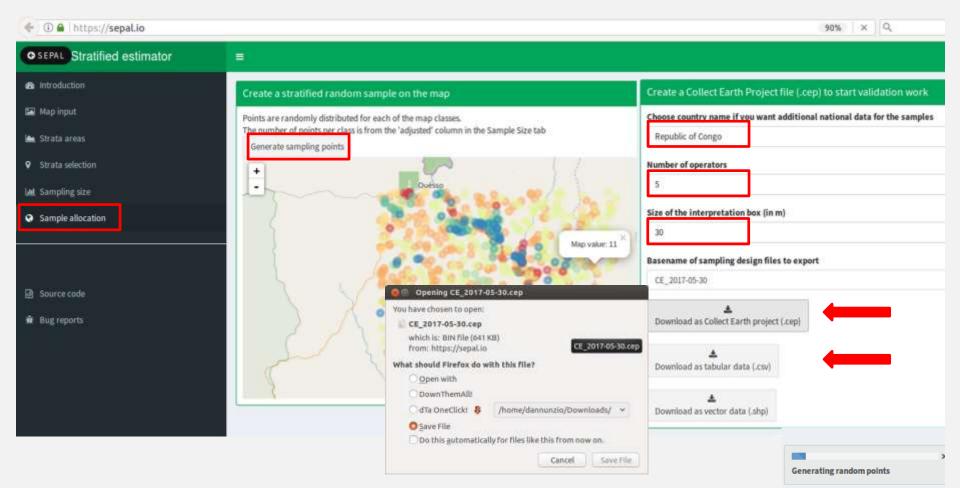






Click on "Generate sampling points" → wait (see task bottom right)

Download CEP project <u>AND</u> tabular data → saves to your computer (and backup in SEPAL workspace)





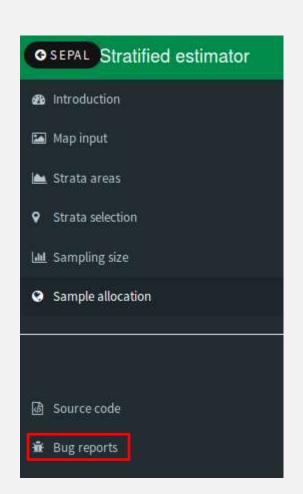
Report any bugs, it is work in progress

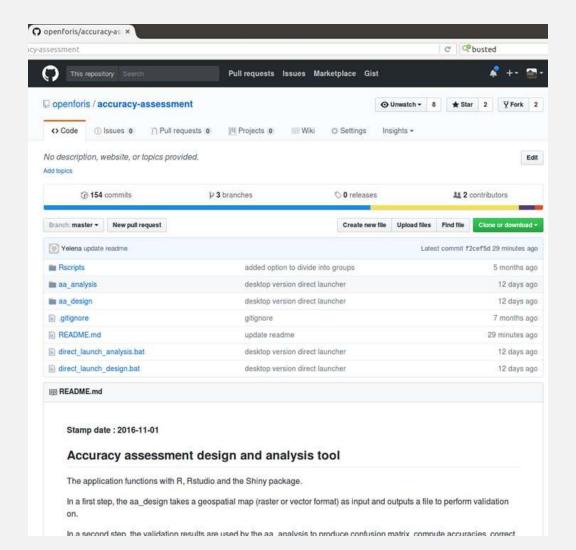






https://github.com/openforis/accuracy-assessment













How to upload your own map in SEPAL?



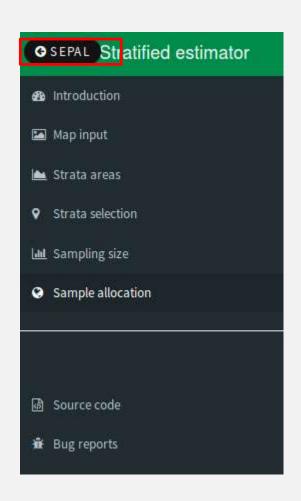
Select RSTUDIO and sign in

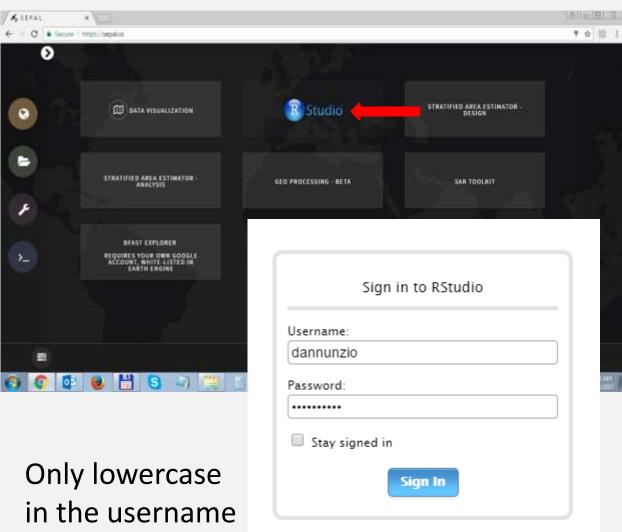






Go back to tools







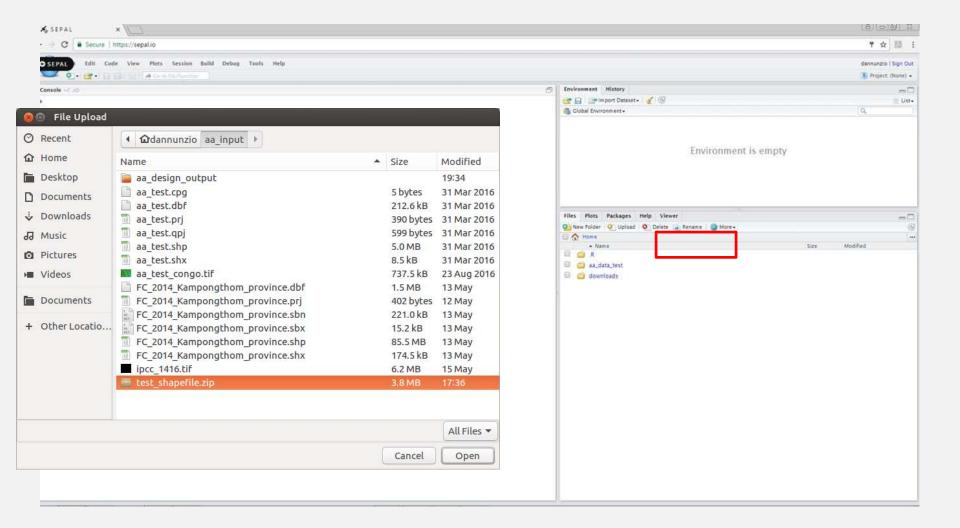
Upload data from your computer







If multiple files (e.g. shapefile), make a zip first





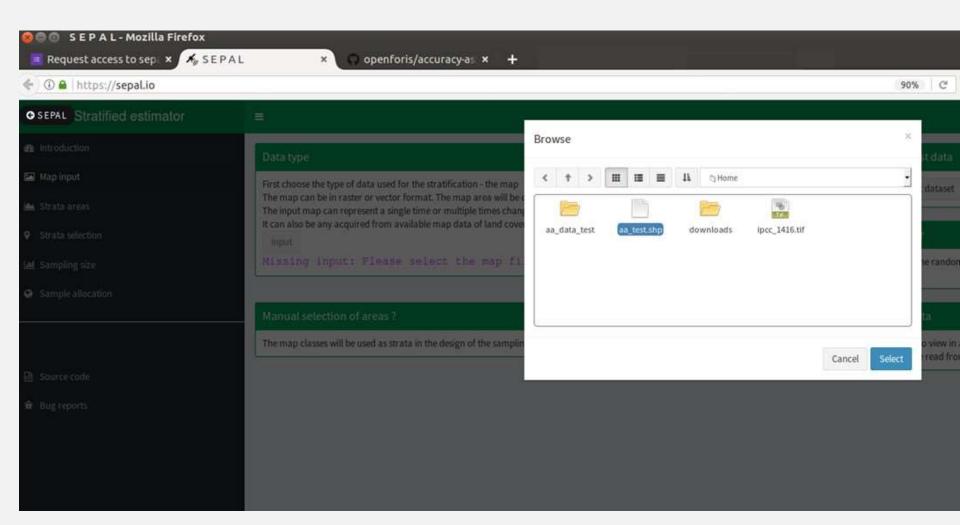
Go back to SAE – Design application







Your own map is available for use inside the application





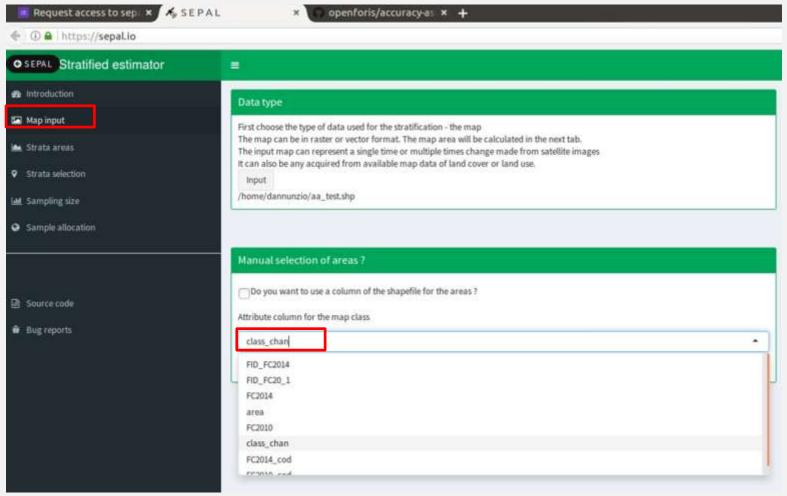
Shapefile as input map







Select the right column for class attribute Rest of the process is identical



UN-REDD







Data collection: soon available in SEPAL

http://www.openforis.org/tools/collect-earth.html



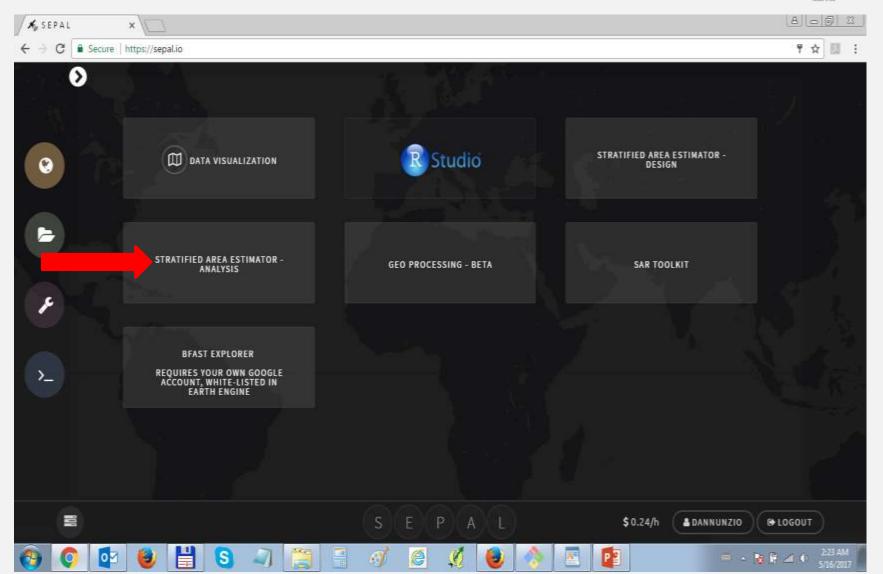


Select SAE - ANALYSIS tool











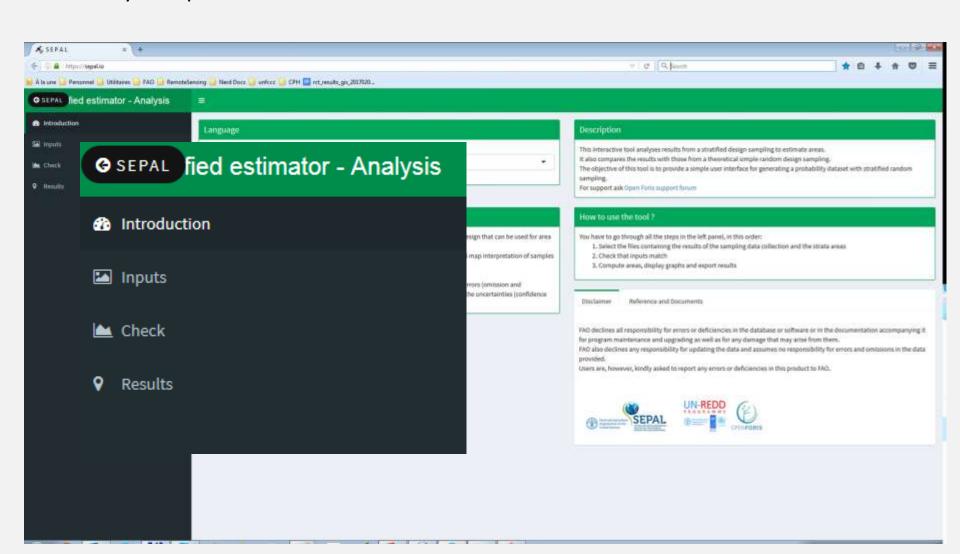
Similar structure







Only 3 steps





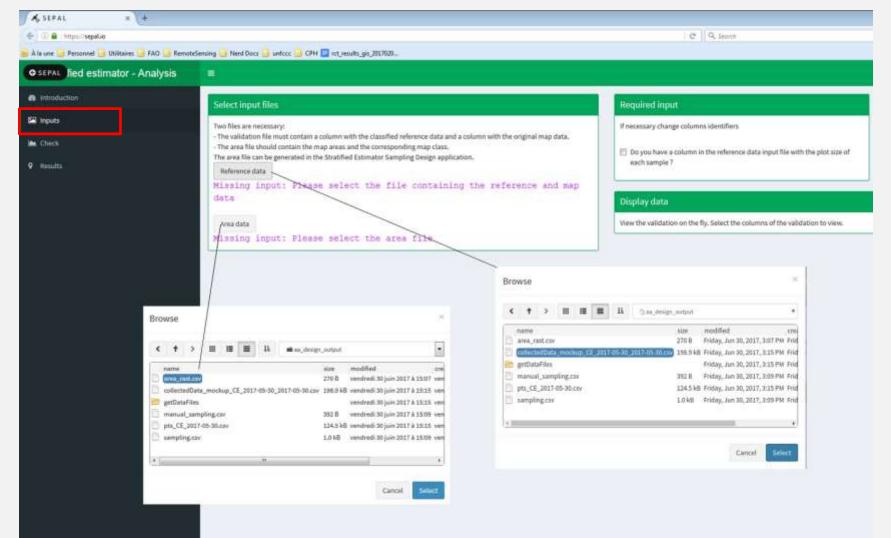
Two input files are needed







Reference vs Map file Strata area file Both are located next to the map: "sae_data_test/sae_design_test_map_congo/"



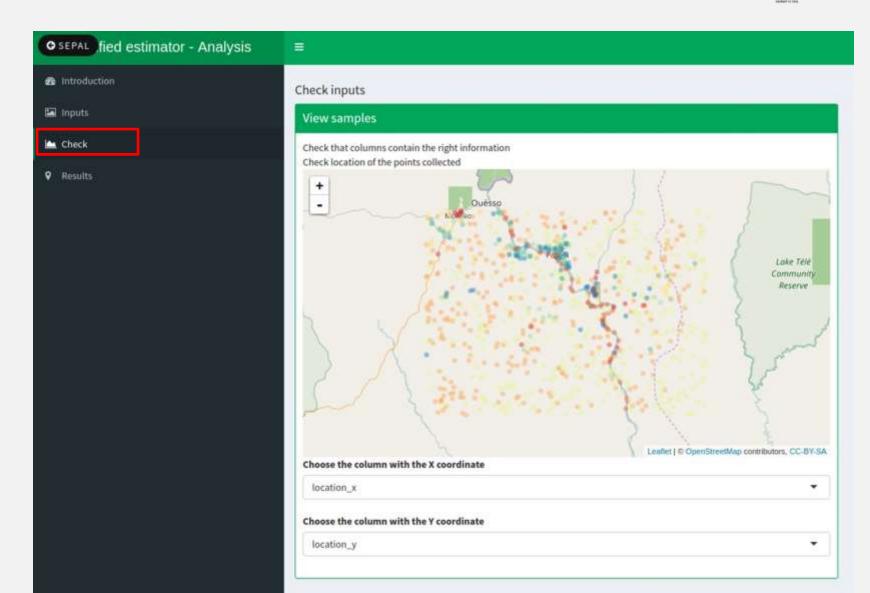


Check point location











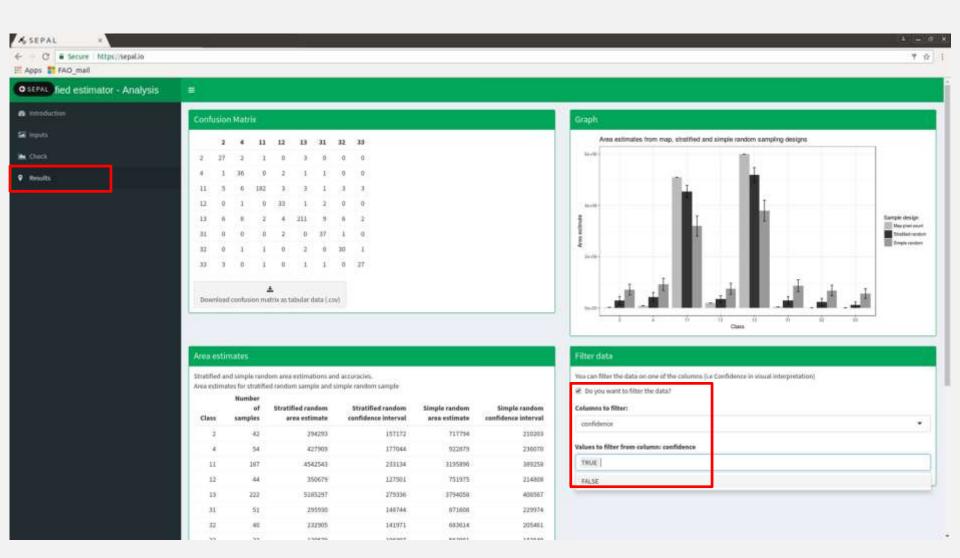
Get results and download







You can filter by one field (e.g. CONFIDENCE)





Get results and download

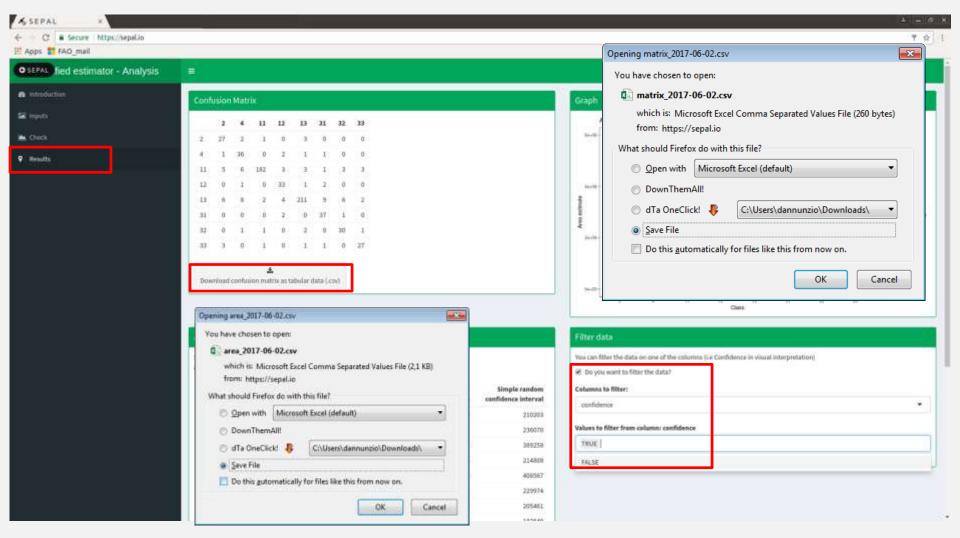






You can filter by one field (e.g. CONFIDENCE)

Download confusion matric and results











Thanks to Yelena Finegold

and
Erik Lindquist
Antonia Ortmann
Daniel Wiell

Please provide feedback, questions to:

http://www.openforis.org/support

Use the tag SEPAL