



Collect Earth

Multi-purpose land monitoring

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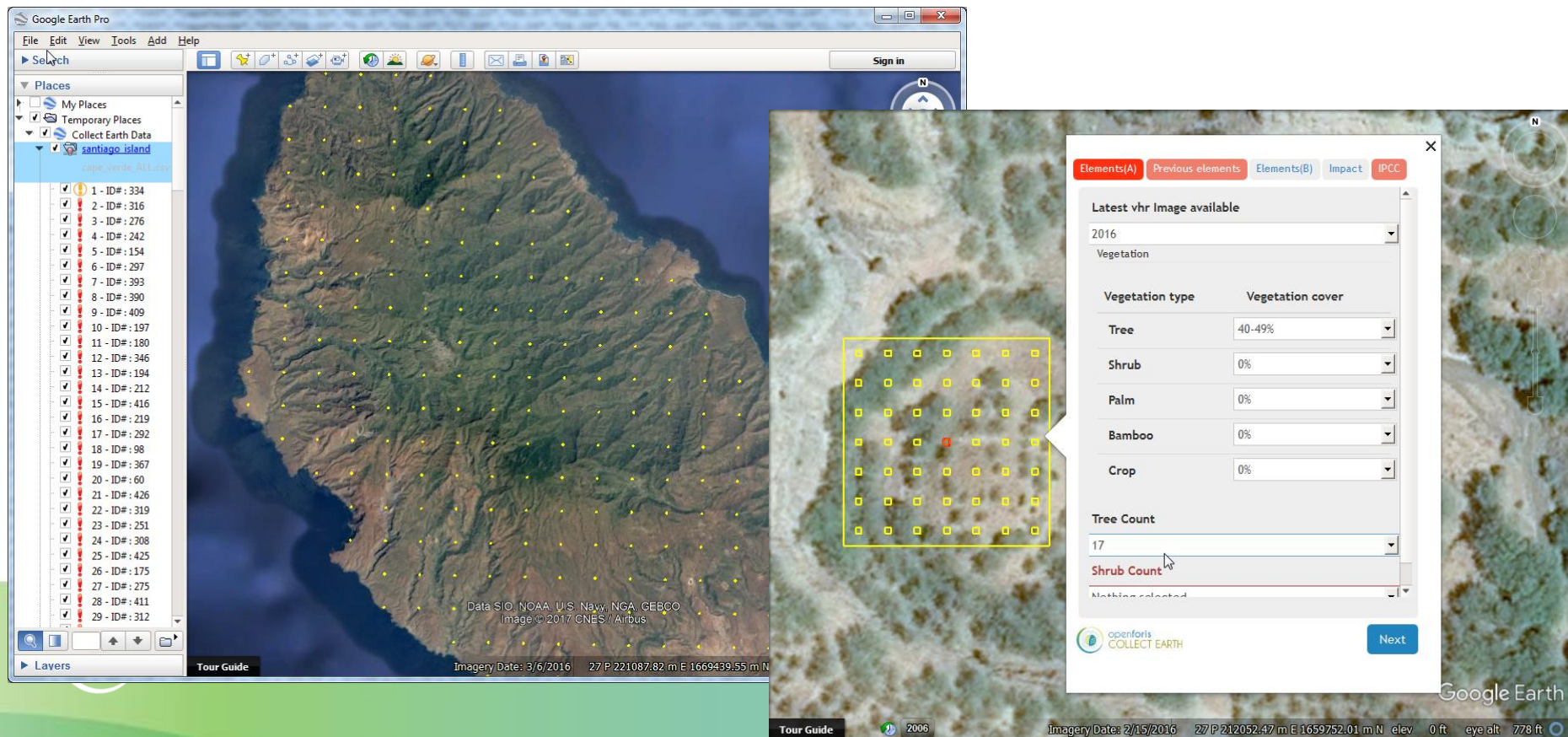


- Open Foris Initiative
 - **Data collection** : Collect, Calc, Collect Mobile, Collect Earth Online and Collect Earth
 - **Remote sensing & GIS** : [SEPAL](#) and [Earth Map](#)
- Free and Open Source Software
- Collect Earth developed from 2013, with over 20.000 downloads!



Augmented Visual Interpretation

- Data Collection tool integrated in Google Earth. Free access to Very High Resolution imagery.
- Multitemporal imagery thanks to Google Earth, Bing Maps and High Resolution Imagery from Google Earth Engine. [See video](#).

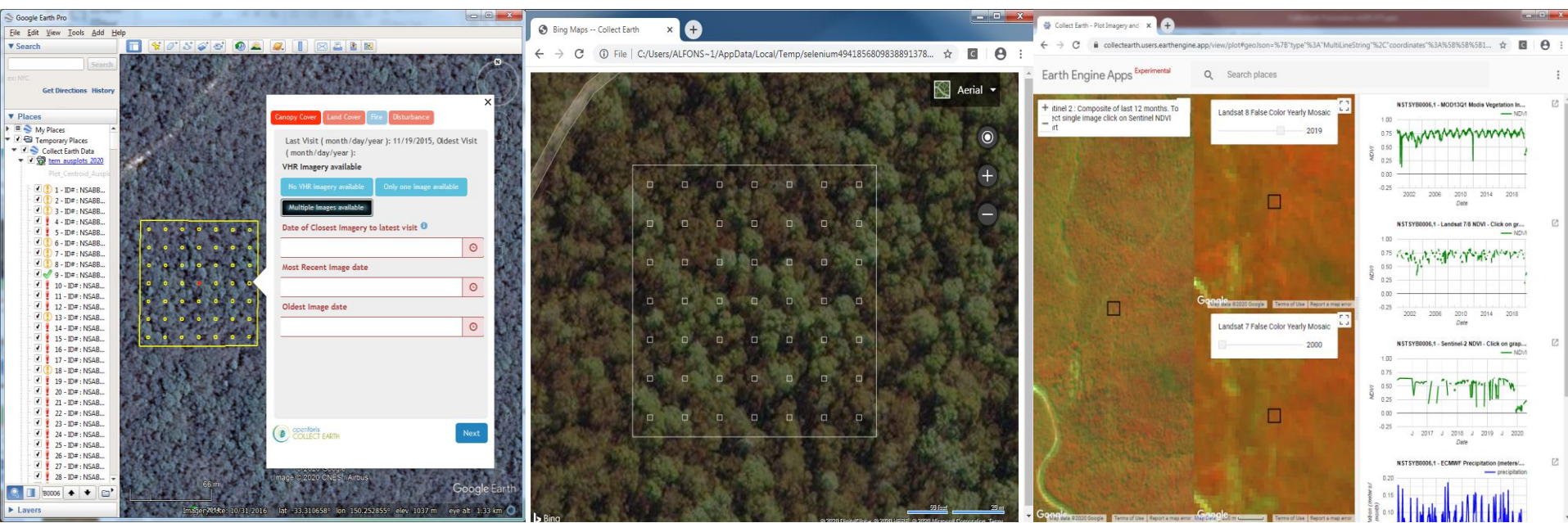


The screenshot shows the Google Earth Pro interface. On the left, the 'Places' panel lists various locations, including 'Santiago Island'. The main map displays a 3D view of a mountainous island with a grid of yellow sampling points. A yellow box highlights a specific area on the map. A pop-up window titled 'Elements(A)' is open, showing the 'Latest vhr Image available' for the year 2016. The window displays a table of vegetation data:

Vegetation type	Vegetation cover
Tree	40-49%
Shrub	0%
Palm	0%
Bamboo	0%
Crop	0%

Below the table, the 'Tree Count' is shown as 17, and the 'Shrub Count' is shown as 'Nothing selected'. The 'Next' button is visible at the bottom right of the pop-up window.

Geo-link with imagery sources



Extra-Imagery sources supported

Google Earth Engine (GEE App / Code Editor)

Bing Maps

Planet (Free NICFI Monthly basemaps / Purchased Daily Imagery)

Maxar SecureWatch (licensed)



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Google Earth Engine >20 Petabytes Data Catalog

Imagery

Landsat 4-8	30m
MODIS	250m Daily Global
Sentinel-2	20m
Sentinel-1	10m SAR
JAXA,	

Geophysical

Digital Elevation
Land Cover
Surface Temperature

Weather Forecasts

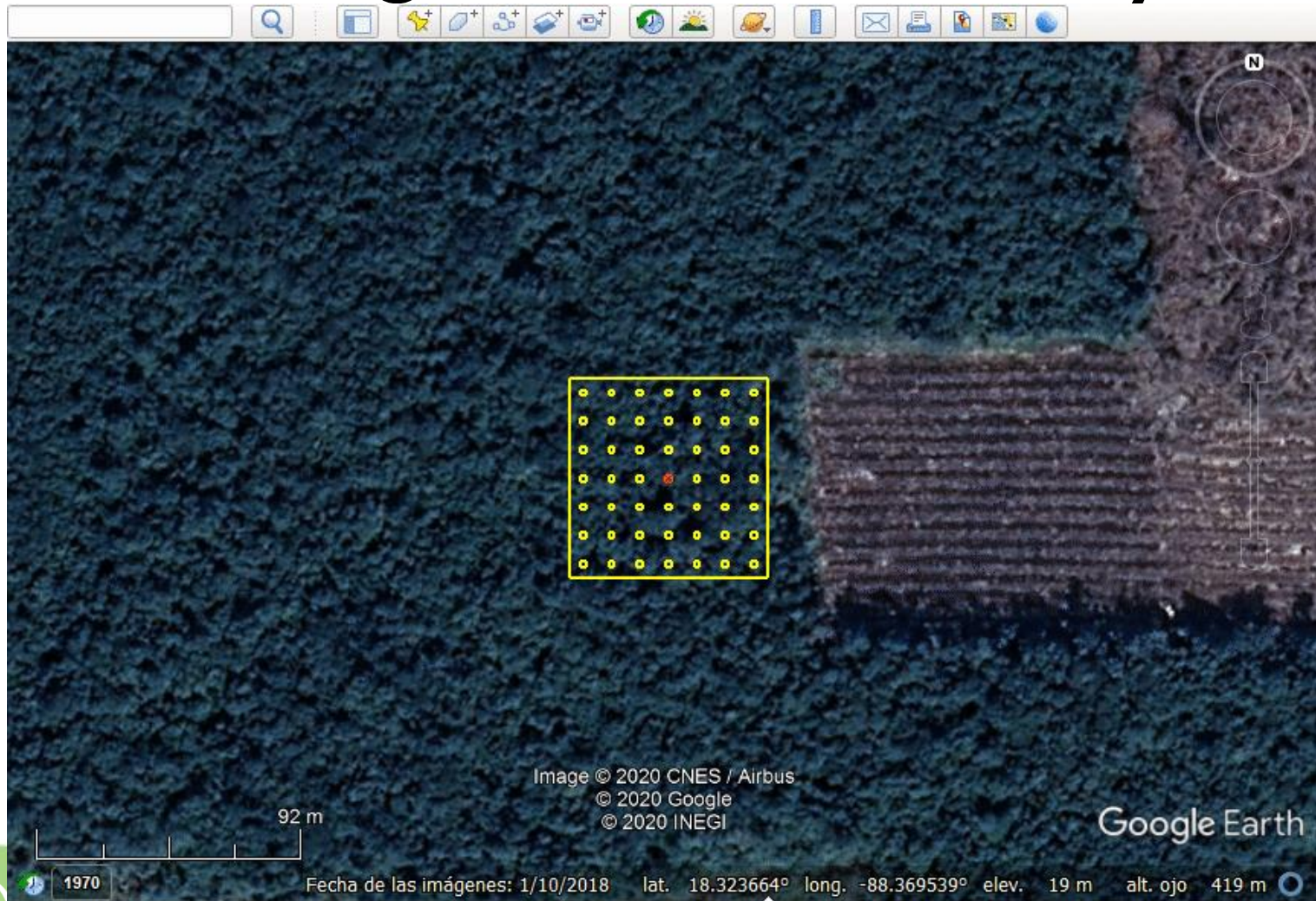
Climate Models



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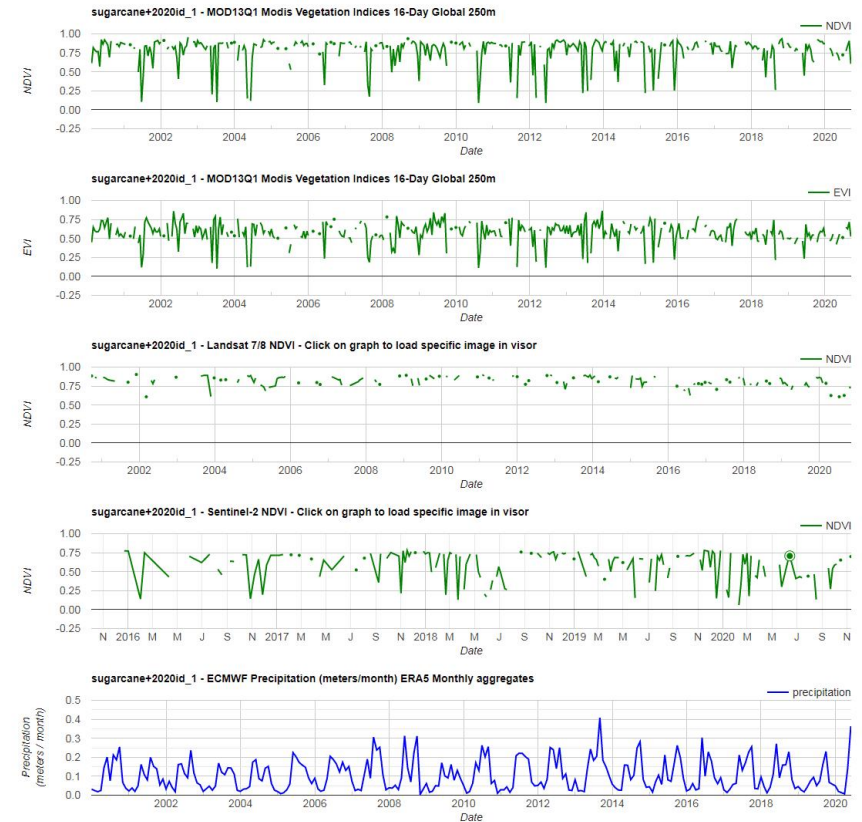
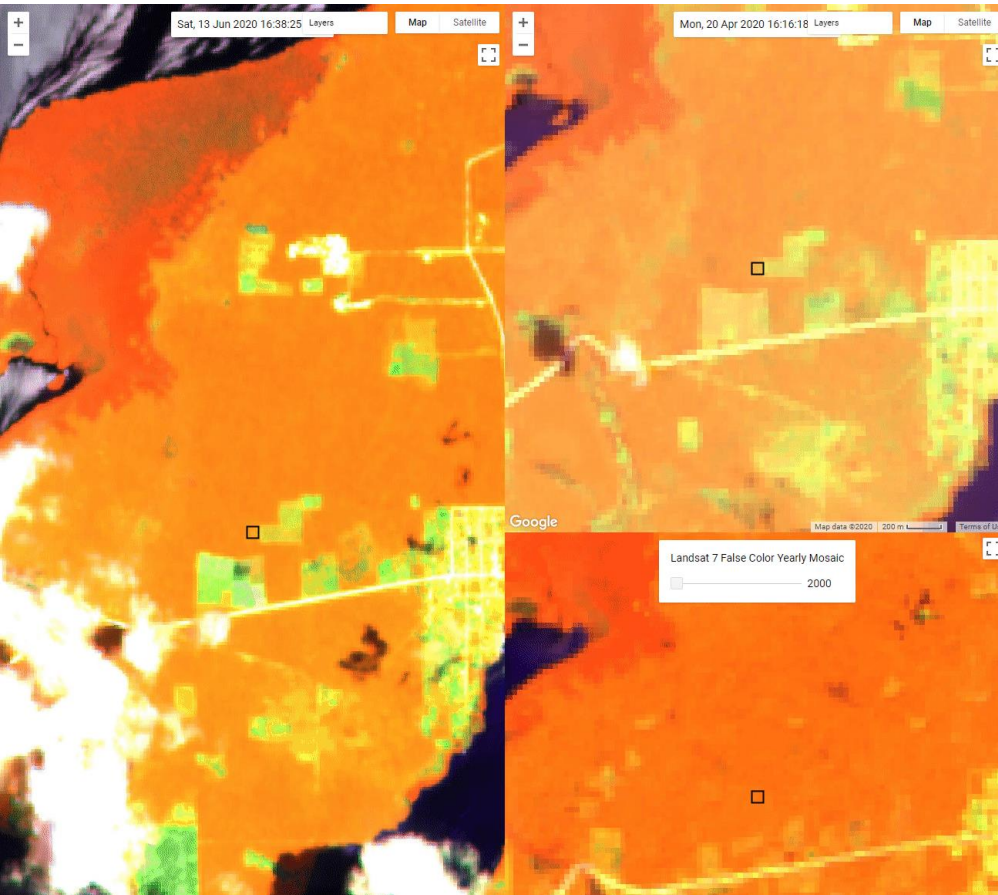
Google Earth History



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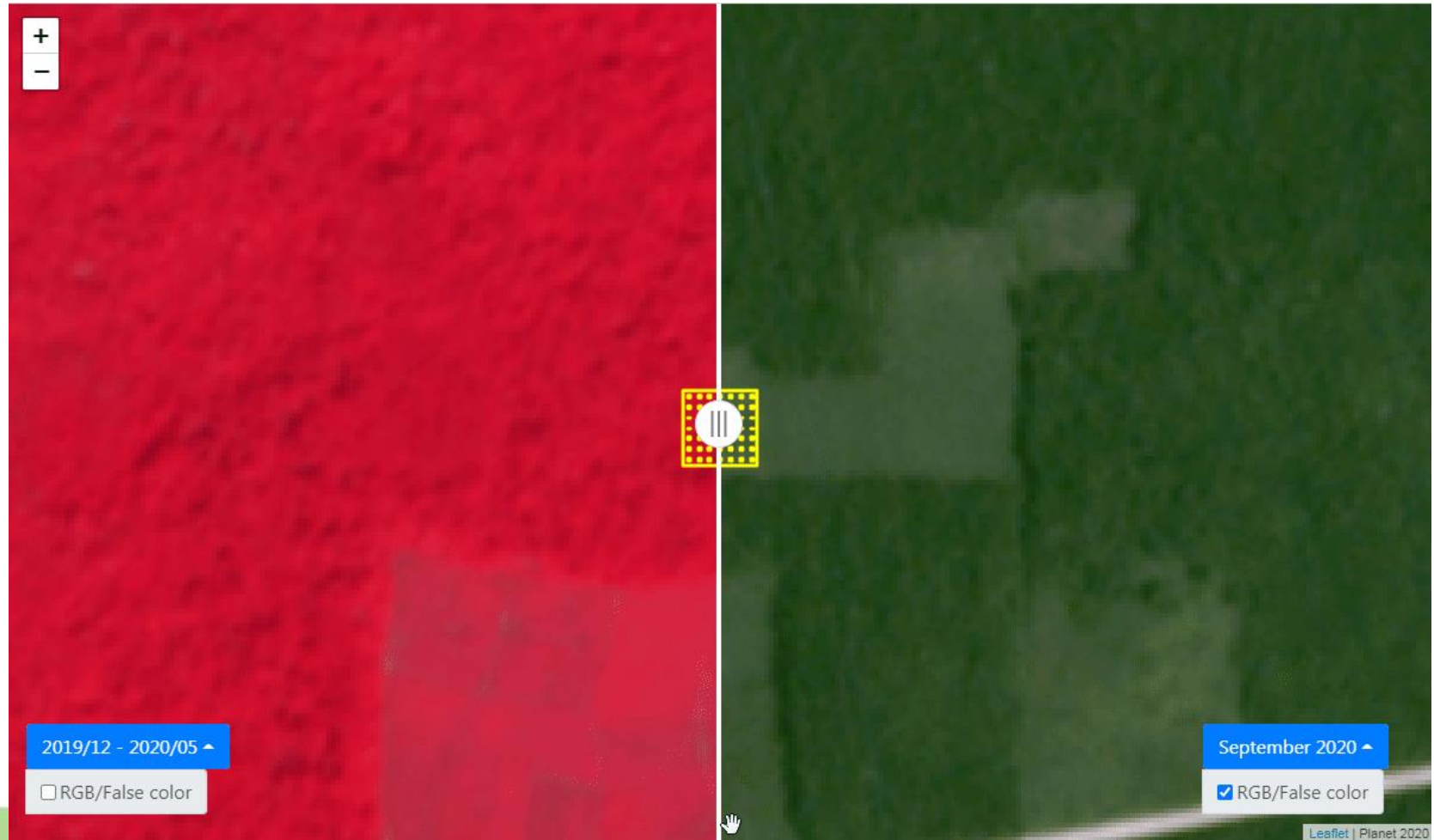
GEE History



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NICFI Planet Imagery

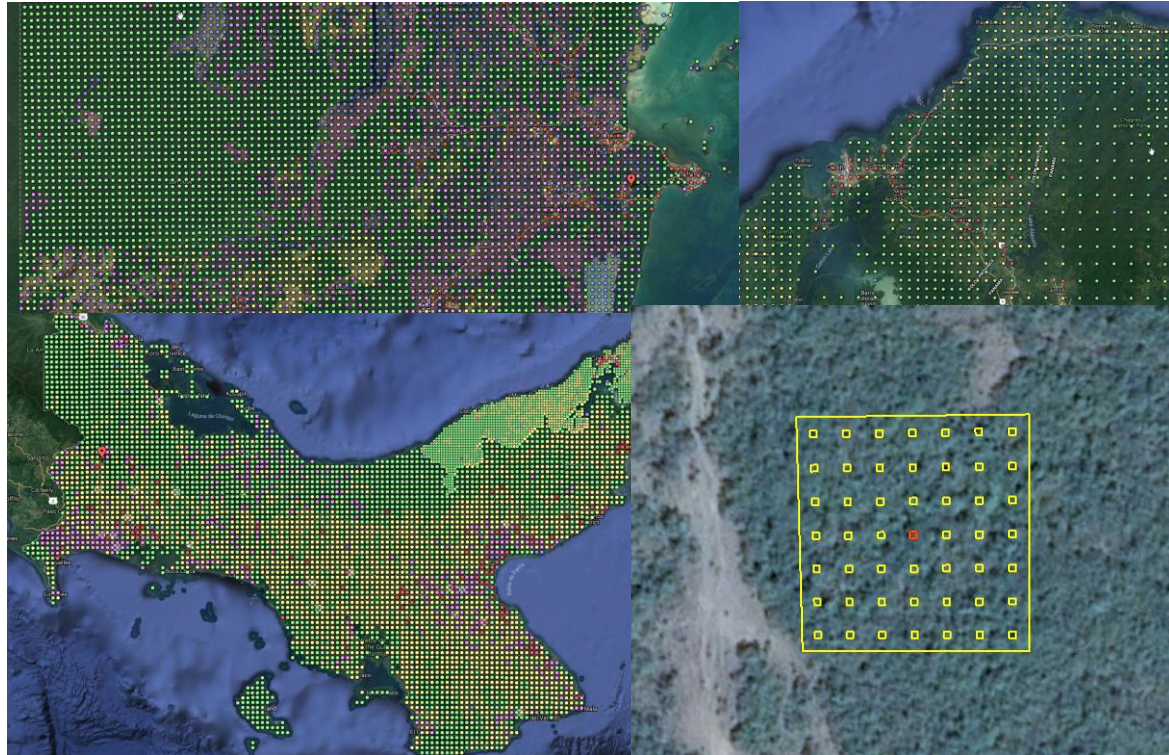


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Change in 2020 – not visible in Google Earth images



Sampling approach



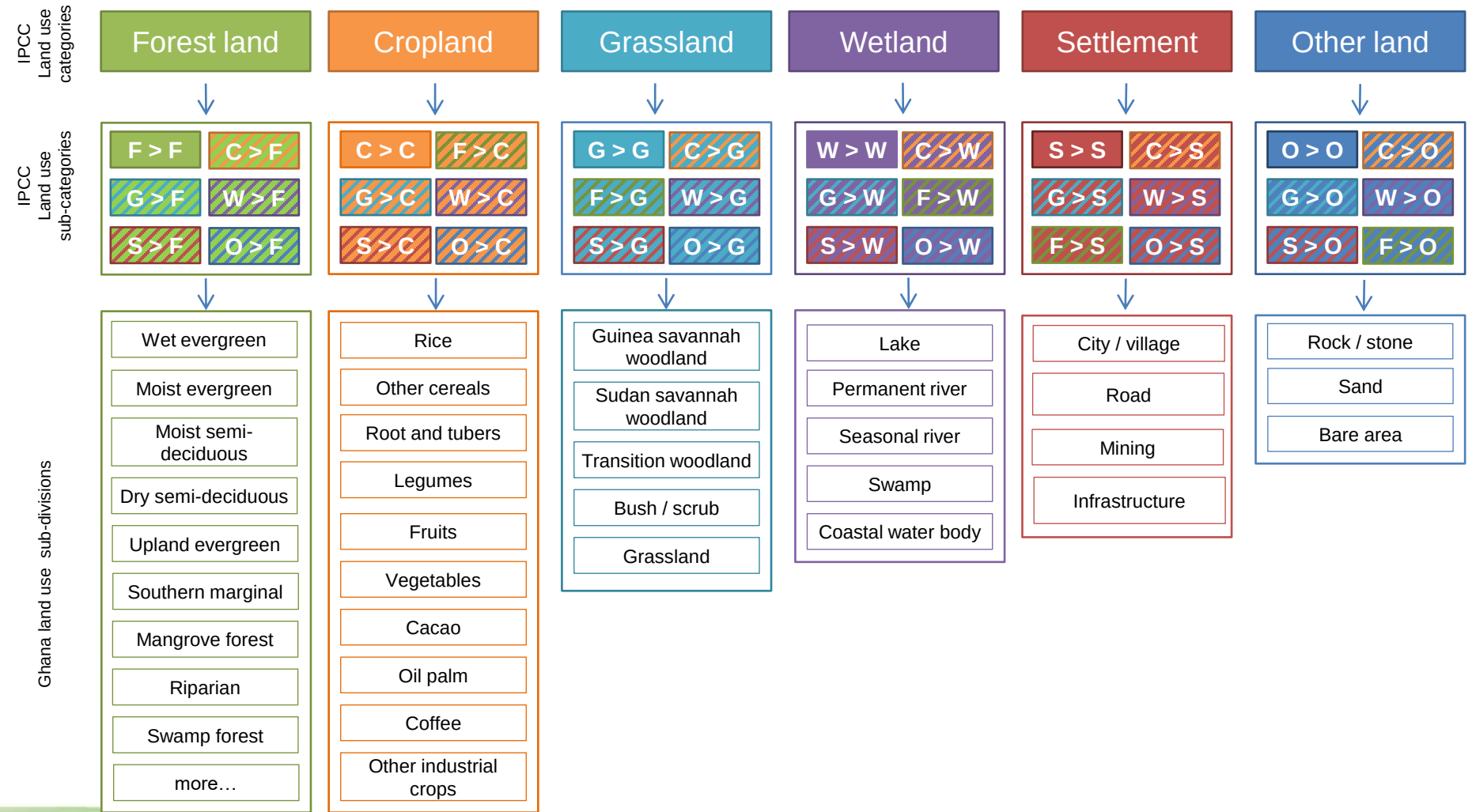
Systematic, Random or Stratified
Sampling design is independent from the survey
[GEE TOOL TO GENERATE GRIDS](#)



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IPCC Land Representation



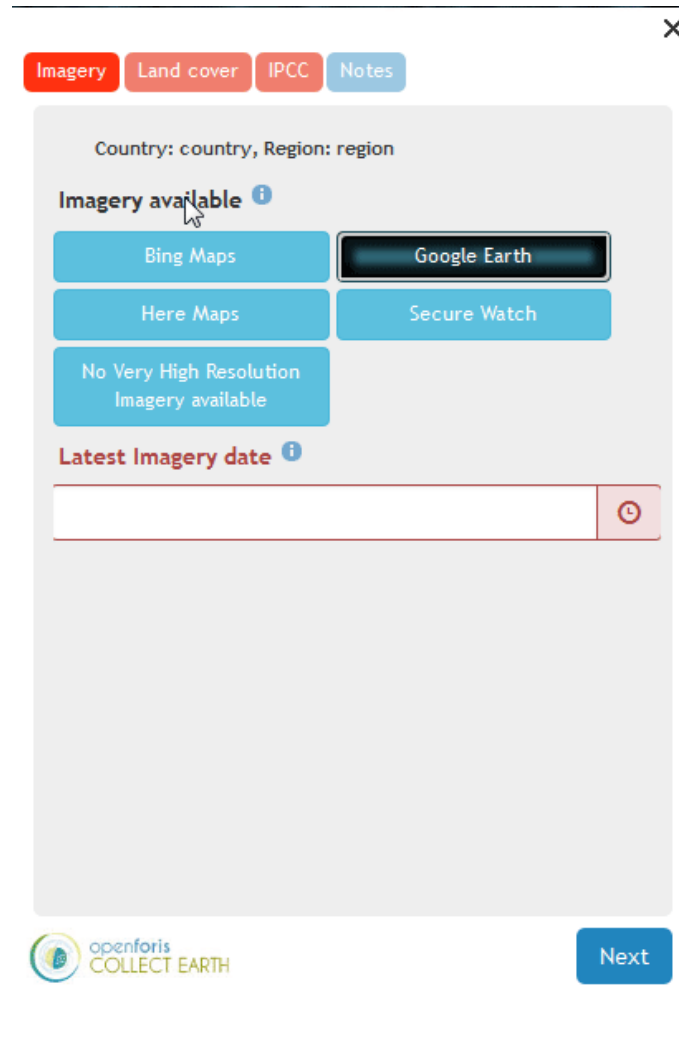
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Collect Earth use cases

Collect Earth facilitates the analysis of high and very high resolution satellite imagery for a wide variety of purposes, including :

- Support **multi-phase National Forest Inventories**
- **Land Use, Land Use Change and Forestry (LULUCF)** assessments
- Monitoring **forest restoration** / baseline setting (GGW)
- **Accuracy assessment** of existing maps
- Monitoring **agricultural land and urban areas**



The screenshot shows the 'Imagery' selection step in the Collect Earth interface. At the top, there are four tabs: 'Imagery' (selected), 'Land cover', 'IPCC', and 'Notes'. Below the tabs, there is a form with the following elements:

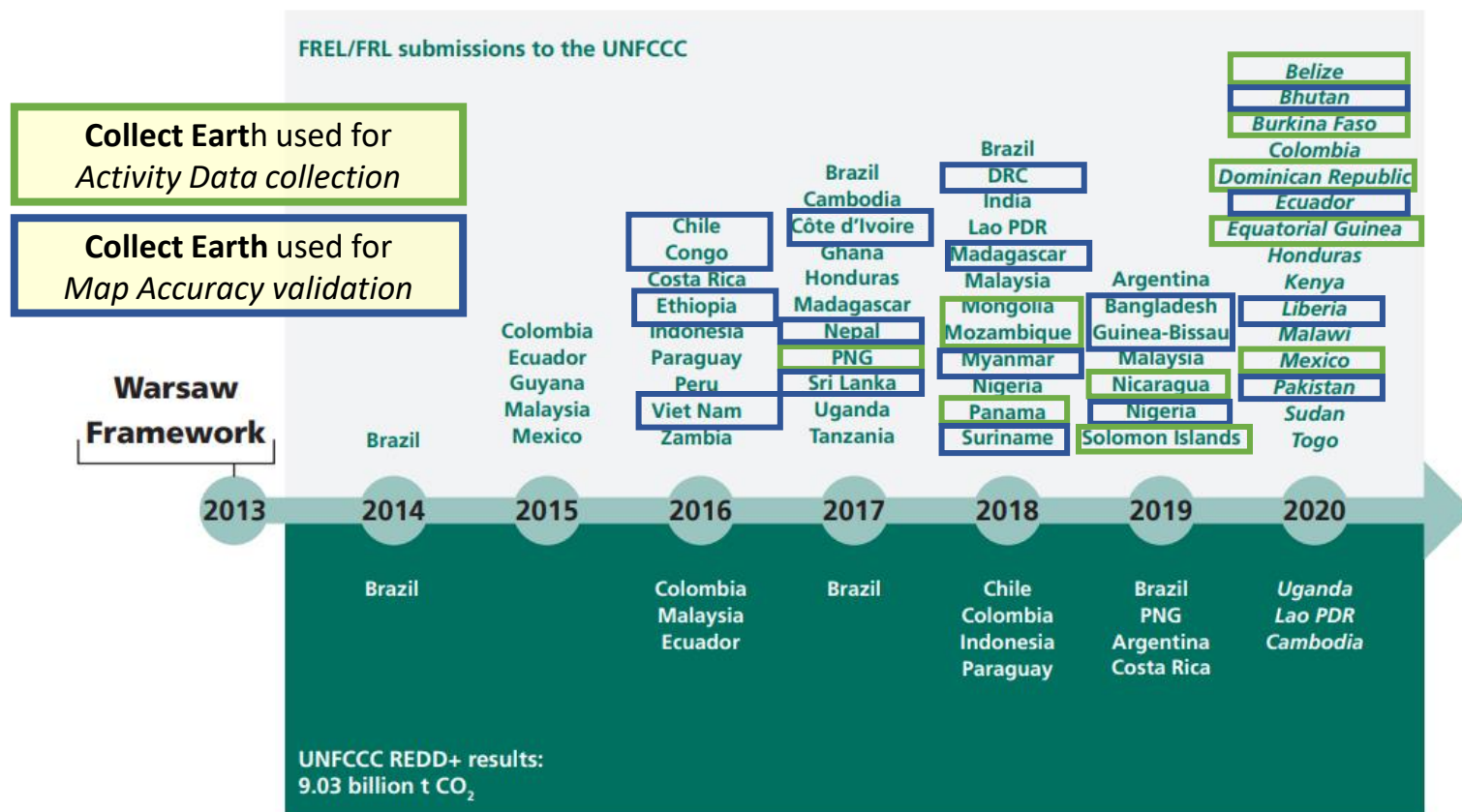
- A close button (X) in the top right corner.
- Fields for 'Country: country' and 'Region: region'.
- A section titled 'Imagery available' with an information icon (i).
- Four buttons for selecting imagery sources: 'Bing Maps', 'Google Earth' (highlighted with a black border), 'Here Maps', and 'Secure Watch'.
- A button labeled 'No Very High Resolution Imagery available'.
- A section titled 'Latest Imagery date' with an information icon (i).
- A text input field for the date, followed by a red circular button with a clock icon.
- At the bottom left, the 'openforis COLLECT EARTH' logo.
- At the bottom right, a blue 'Next' button.



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FREL Submissions



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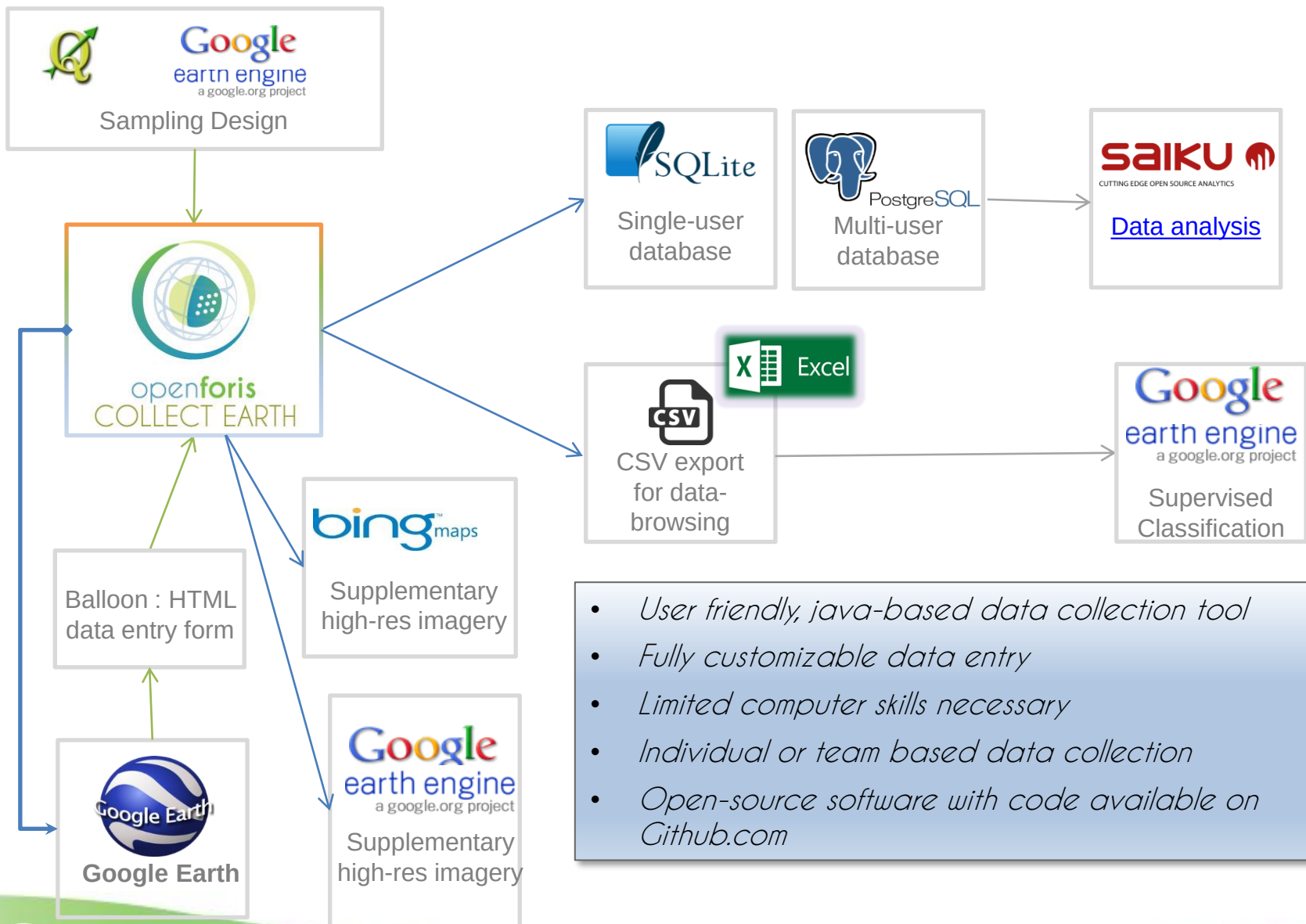


It is DEMO TIME!



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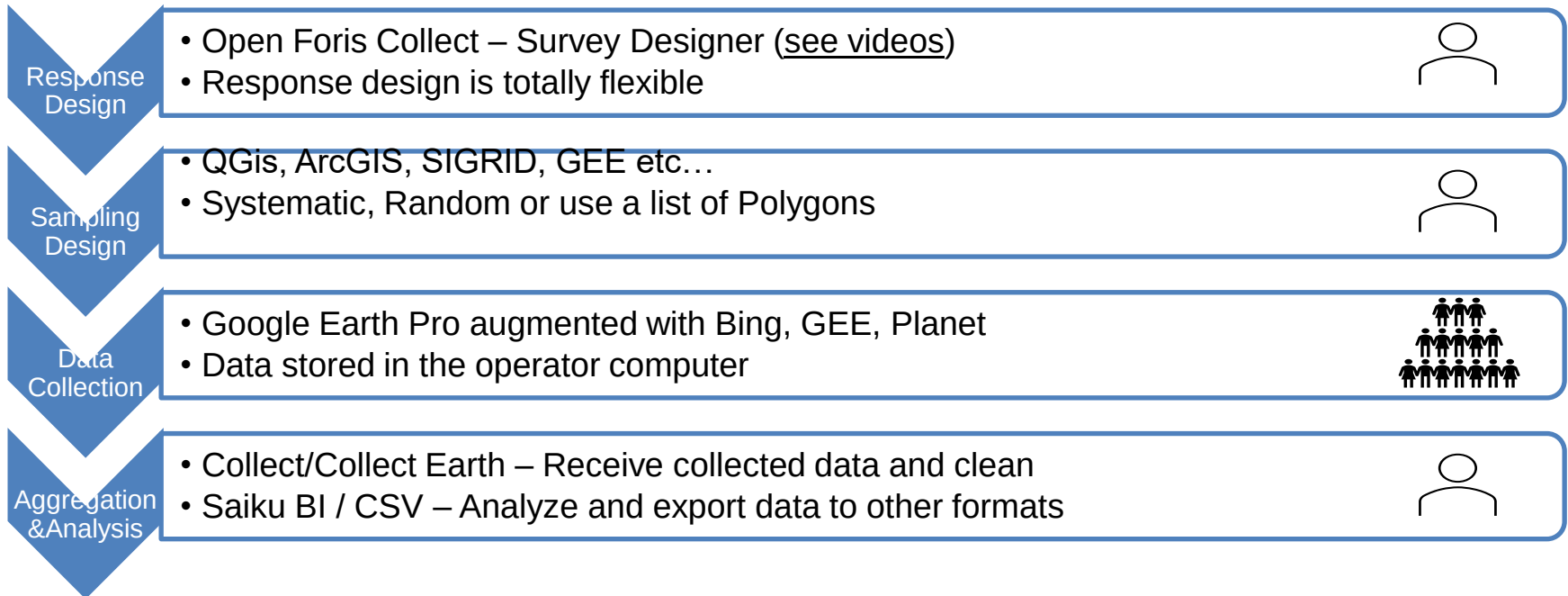
- User friendly, java-based data collection tool
- Fully customizable data entry
- Limited computer skills necessary
- Individual or team based data collection
- Open-source software with code available on Github.com



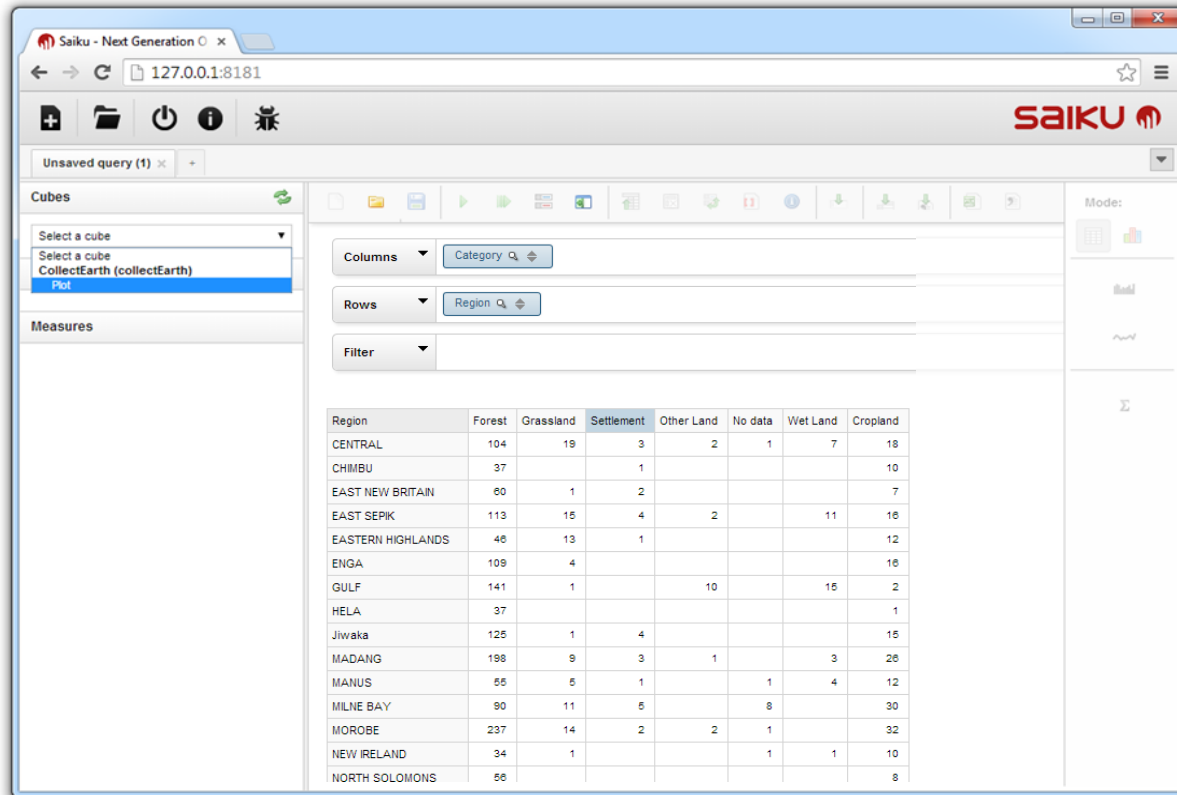
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Workflow



Saiku



■ CENTRAL ■ CHIMBU ■ EAST NEW BRITAIN ■ EAST SEPIK

Settlement



Grassland



Forest



- Fast, intuitive and flexible data analysis
- Powerful tool for data quality control
- Data export to Excel, CSV and PDF
- Produce colorful and informative charts and graphs with a few clicks
- Export graphics to JPG, PNG or other formats

Start using it!

Open Foris Support forum

The screenshot shows the Open Foris Support forum interface. At the top, there are tabs for 'questions', 'tags', 'users', 'badges', and 'unanswered', along with a search bar and a 'ask a question' button. Below this, a search bar is labeled 'ENHANCED BY Google'. The main content area is titled 'All Questions' and features a list of questions with their respective vote counts, answer counts, and view counts. The questions include: 'How to run the Open foris collect source code from Github?', 'geometry attribute in CSV without Fusion Table?', 'How to load polygon sample data in Collect Earth', 'Free access to Planet Data Labs', 'Updating Collect is not working', 'Collect login fails after update from 3.2.6', 'GEE Window not opening', 'Calc error double workspace name', 'How to use the new PLANET monthly imagery in Collect Earth?', and 'Real implementation to see or Sample Site'. On the right side, there is a 'welcome to Open Foris Support' message, a '821 questions 1606 answers' summary, and a 'Recent tags' section listing various tags like 'earthmap', 'collectearthonline', 'sepal', 'windows', 'geospatialtoolkit', 'saiku', 'collectmobile', 'openforis', 'collectearth', 'calc', 'collect-mobile', 'mobile', 'earth', and 'collect'.

Tutorials

Download the User Manual in PDF

1	Key Features
2	Installation
3	Assessing Land Use
4	Saiku
5	Grid generation through Google Earth Engine
6	QGIS
7	Synergies

The screenshot shows the Collect Earth YouTube channel page. The channel has 236 subscribers and a 'SUSCRIBIRSE' button. The page is divided into sections: 'PÁGINA PRINCIPAL', 'VIDEOS', 'LISTAS DE REPRODUCCIÓN', 'CANALES', 'DEBATE', and 'ACERCA DE'. The 'Videos subidos' section displays a list of videos with their titles, view counts, and upload dates. The videos include: 'Collect Earth - Grid Generator', 'Collect Earth survey incorporating ancillary data...', 'Generating plot location in Google Earth', 'Collect Earth : Using the Google Earth Engine Explor...', 'Open Foris Collect : Installation and execution', and 'Creating a new Collect Earth survey'. The 'Listas de reproducción creadas' section shows a playlist titled 'Collect Earth - How to go from idea to reality' with a duration of 38:56.

Videos in YouTube



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Thank you!

Any questions?

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