FAO – SEPAL

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

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www.fao.org/forestry

Collaborators

- Government of Norway
- KSAT
- AMA
- USGS
- European Commission
- Google
- many others…

SEPAL Objectives

Improve data access and delivery of (pre)processed satellite data and forest information products to enable developing countries to build the autonomous capacity to monitor their forest-related REDD+ activities.

SEPAL

Bring the data

(and algorithms, software and recipes)

to the people

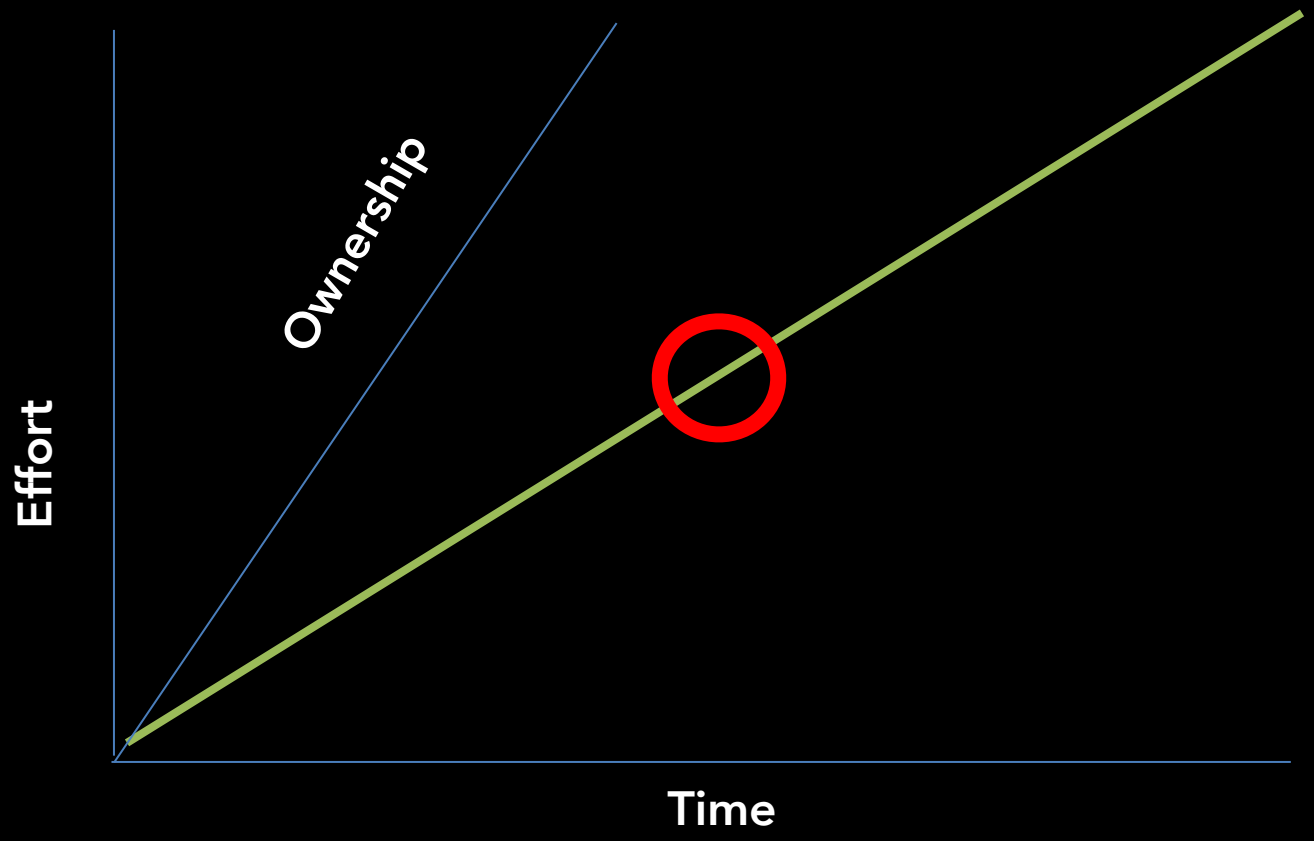
SEPAL

I hear and I forget

I see and I remember

I do…and I understand

SEPAL



What is it?

- SEPAL is a cloud-based platform for autonomous land monitoring - a catalyst
- Open source
- Easy query, access and processing of earth observation data
- Expandable with user scripts
- A ‘barrier buster’: Analysis Ready Data, Supercomputing power, Maintenance and Dependencies

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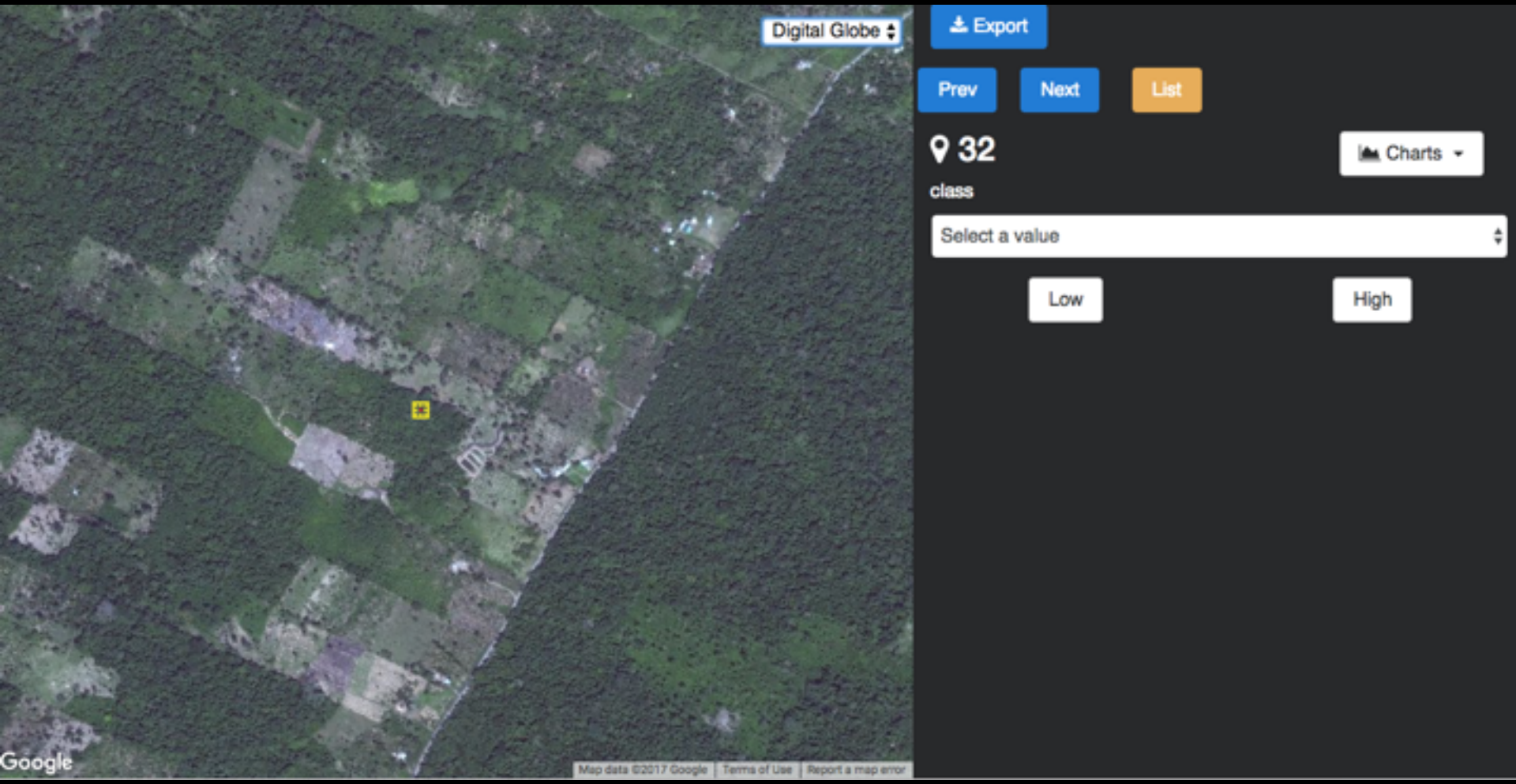
SEPAL

- Create composites / mosaics of Landsat and Sentinel
- Process RADAR data
- Classification and change detection
- Image segmentation
- Time-series analysis
- Sample-based area estimation
- Compliant with GFOI Methods and Guidance

Planet integration for Reference Data

DG integration for Reference Data



SEPAL Conclusion

- Improve connection between data / users / information products for REDD+
- Increase production speed of products required for MRV
- Open, flexible system for rapid and standardized image processing
- Building national capacity for autonomous creation of national statistics

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

https://sepal.io