openforis

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FREE OPEN-SOURCE TOOLS FOR EFFECTIVE NATURAL RESOURCE MONITORING

OPEN FORIS SET OF TOOLS WERE SPECIFICALLY DESIGNED FOR

- Forest Inventories
- Socio-economic, agricultural and natural hazard assessments
- Land-use change and emissions reporting
- Desertification and deforestation monitoring

Ground-based data collecting and processing tools

Arena: Cutting-edge online platform for storing, managing, and analysing data from forest inventories and other field data collection campaigns. This cloud-based tool allows for customizable data structures, as well as multilingual and multicycle data management. The platform facilitates user-friendly integration of data recording, querying, validation, access to high-resolution satellite imagery, and simultaneous processing.

The fast, new generation data collection tool **Arena Mobile** works with Arena and runs on Android and iOS devices.

Collect: Desktop tool for designing and managing any type of field survey data, enabling users to follow a simple data entry and cleansing workflow, as well as to collect better-quality data. The tool handles multiple data types and includes complex check rules to reduce data errors.

Widely used Android app **Collect Mobile** is deployed with this system for field data recording, such as biophysical, socioeconomic or biodiversity surveys.

Satellite-based information accumulation, visualization and query tools

Collect Earth: User-friendly tool for augmented visual interpretation, providing easy access to historical satellite imagery and high-resolution aerial imagery. The tool facilitates the collection of land-use and land-cover change (LUCC) data, following IPCC guidelines, crucial for UNFCCC and UNCCD reporting.

Collect Earth Online: Web-based platform that facilitates crowd-sourced data collection for land monitoring and assessment. The platform combines multiple sources of satellite imagery, enabling users to gather data through visual interpretation, track LUCC changes, and support environmental analysis, all in a smooth and collaborative environment.

Earth Map: Intuitive web-based platform that democratizes access to climatic and natural resource data. Powered by Google Earth Engine, the platform provides robust tools for visualizing and analysing environmental information, empowering decision-making, project formulation, and effective natural resource management.

SEPAL: Cloud computing platform that enables autonomous processing of geospatial data for customized land and forest monitoring by anyone, anywhere. The platform empowers users to process satellite data, create maps, and detect LUCC, while also providing many other functions critical to effective land management without the need for coding skills.

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