



**GROW
ASIA
PACIFIC**

CACOA

Using GIS tools to gain market access to Europe and a better
understanding the resources you have



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GAP works with communities, farmers and Governments in the Asian & Pacific regions to:

- Working throughout the Asia Pacific region we are working to increase knowledge around the farming of cacao.
- Training opportunities for farmers to improve livelihoods, and support environmental best practices
- Fiji, Vanuatu, Solomon Islands, PNG, Philippines, Samoa, Bougainville





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Helping to identify market access opportunities within New Zealand, Australia, Europe and the UK

Provide training relating to GIS use in the field, cacao production, grading, fermenting etc to increase the value of the cocoa

Based in New Zealand and the EU





- **Regulation on Deforestation-free Products (EUDR)**
- **Micro and small companies:** Implementation begins **June 30, 2026**
- **Large companies:** Implementation begins **December 30, 2025**

The main driver of deforestation is the expansion of agricultural land linked to the production of commodities like cattle, wood, cacao, soy, palm oil, coffee, rubber.



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- To meet the EUDR requirements, GIS tools such as Field maps, Survey 123 etc are ideal tools to gather the information relating the areas of production and Chain of Custody – (CoC)

Also allows for farmers, villages and other interested parties such as Governments to gather important information about what “is out there” and to be able to make better management decisions





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What information is required for EUDR compliance?

Area of production

- Point or a polygon indicating where the product is from e.g. **cacao, cattle, timber, oil palm, rubber, soy, coffee**
- The land where the commodity was grown/harvested **must not have been deforested after 31 December 2020. Sentinel 2 imagery from 31/12/2020**
- **GEOJSON file**
- Collecting **geolocation coordinates** of all plots of land (polygon-level for large farms) – Field maps
- Collecting **supply chain documentation** (ownership, harvesting, transport) – Survey123
- **Auditing of the data** – Survey123 and Dashboards



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Sharing and editing of the data can be handled by using Dashboards and Web experiences

Data can be shared between interested parties such as

- Government agencies,
- farmers
- exporters
- Importers
- Certification bodies e.g. CertLink in Vanuatu

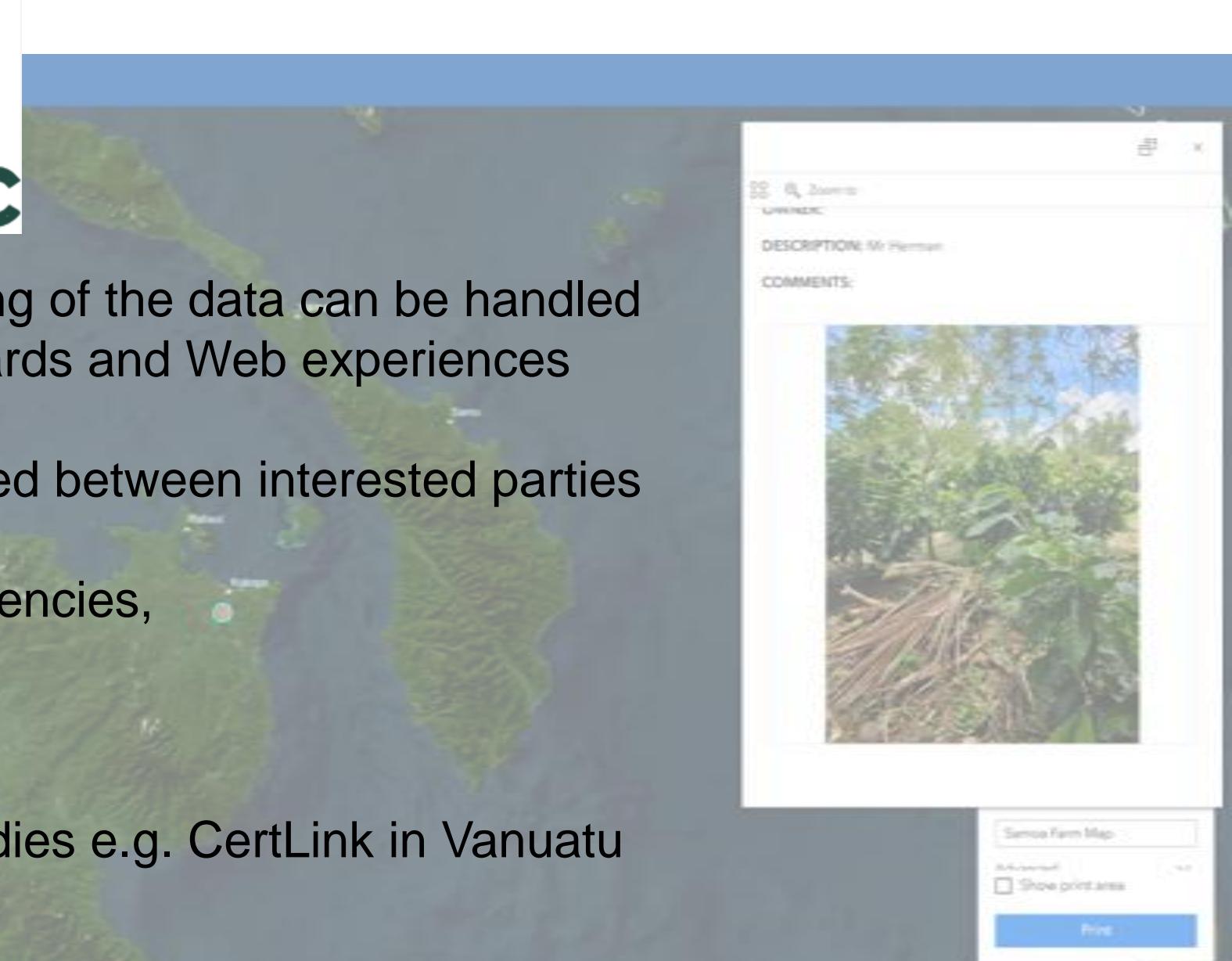
Cocoa Farms

Attribute Filter

Farmer ID Number is:

Name of the Farmer is:

Apply Reset





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What other information could be gathered?

Farmer details – create a farmer profile

Number of trees, age of trees, tree varieties

Production – pods, wet beans, dried beans

Drying and grading facilities

Hygiene, pest and diseases found

Other crops e.g. bananas, coconut



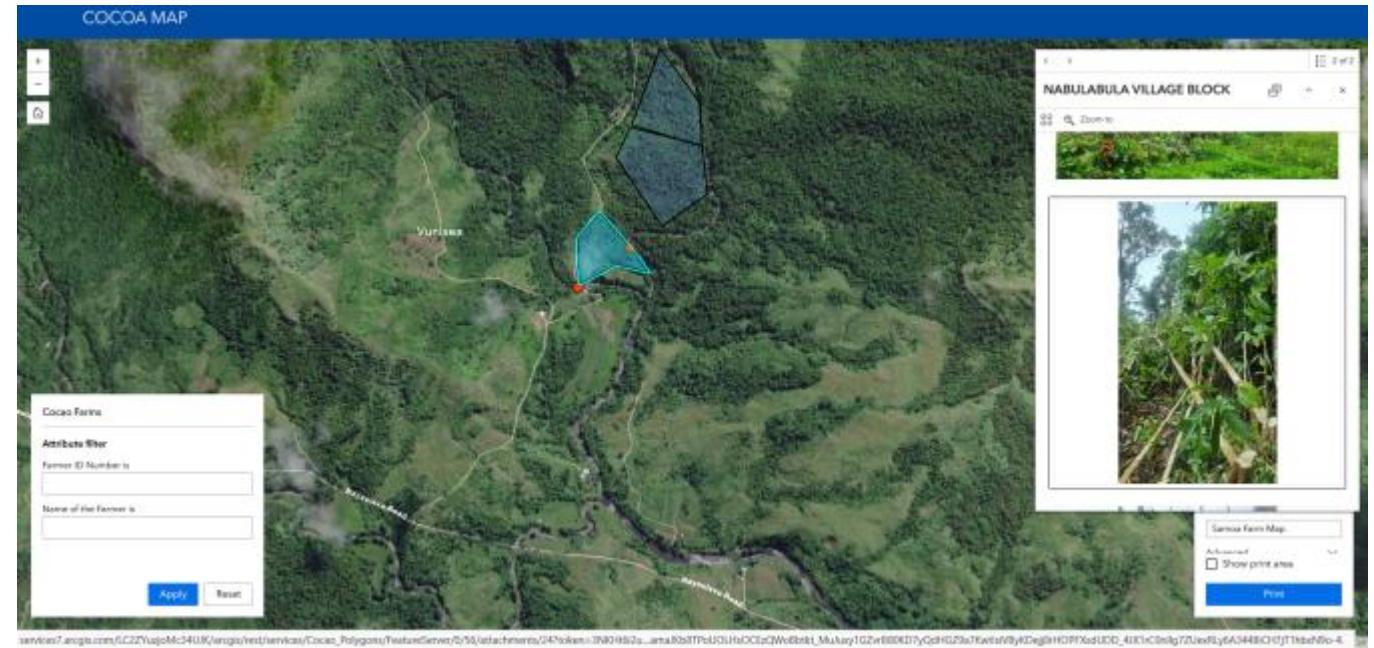


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How could you use GIS tools to gather the information?

Field maps can record the locations (**SPATIAL data**) and farm details (**WHAT data**) and collect images etc

- Number of trees, age of trees, tree varieties
- Production – pods, wet beans, dried bean
- Drying and grading facilities
- Hygiene, pest and diseases found
- Other crops e.g. coconut, cassava etc



Field maps works online and offline

OR



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Use Survey123

Have a Survey123 form which is setup to gather the information required

Form is customised to record the information you require

Same process for Chain of Custody CoC information

Survey123 works online and offline



Sharing the information

The information gathered e.g. farmer details can be private or public, options for a "view" so people have filtered information

- Farmers can see their information via a portal using a phone or "PC" or a PDF etc
- Information can be shared with other interested parties e.g. Governments, importers or exporters (Chain of Custody information, quantities or varieties)
- Can be shared with other third parties e.g. NGOs, auditors, extension officers or advisors etc
- Meets the requirements of EUDR for all the commodities

The goal being that people have relevant and up to date data which will help them make better informed business decisions

CACAO DASHBOARD

COCOA DASHBOARD FILTERED FOR SAMOA

Village: None

Number of Farms: 180

Search...

Village: Other
Acres: 2.00
Other crops:
Banana,Coconut,Papaya,Breadfruit,Citrus,Yams
Number of trained staff: 1
Dry weight of the beans: 37

Village: Sataua
Acres: 2.00
Other crops: Banana,Coconut,Citrus,Breadfruit
Number of trained staff: 1
Dry weight of the beans: 8

Village: Sataua
Acres: 3.00
Other crops: Coconut,Breadfruit,Citrus,Taro,Cassava
Number of trained staff: 1
Dry weight of the beans: 120

Village: Sataua
Acres: 3.00
Other crops: Coconut,Cassava,Breadfruit,Citrus,Papaya

Total Kg Dry Weight Beans: 11448 Kg

Acres of Cocoa: 1309.5 Acres

Trained Staff: 114 (No) 61 (Yes)

Earthstar Geographics | Esri, TomTom, Garmin, FAO, NOAA, USGS

Powered by Esri

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