



**CACOA**

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



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







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.*





**GROW  
ASIA  
PACIFIC**

- 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)

Cocoa Farms

Attribute Filter

Farmer ID Number is

Name of the Farmer is

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

Search

OWNER:

DESCRIPTION: NANOKOVOKO VILLAGE

COMMENTS: At least one person harvesting beans. Dan purchased 1 kg of dry beans of the farmer. Fermentation and drying facilities



Seneca Farm Map

Advanced

☐ Show print area



# 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



# GROW ASIA PACIFIC

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

Search

DESCRIPTION: Mr. Herman

COMMENTS:



Samoa Farm Map

Unauthenticated

☐ Show print area





**GROW  
ASIA  
PACIFIC**

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







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



## 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

A screenshot of a mobile application interface titled "Samoa Koko". The form is divided into two main sections: "Location" and "Site". The "Location" section includes a title "Samoa Koko Survey Form", a label "Location of the site" with a map icon, and a date field labeled "Date of the Survey" showing "Tuesday, November 2...". The "Site" section is titled "Village" and lists eight options: Asau, Aopo, Auala, Falealupo, Falelima, Letui, Neiafuuta, Neiafutai, Sataua, and Tufutafoe. A green checkmark is visible at the bottom right of the form.A screenshot of a mobile application interface titled "Cocoa Chain of Custody". The form includes a "Unique ID" section with a label "Use this number on the tag" and a text input field for the "ID Number". Below this is a "Date of beans delivery" section with a red asterisk, a label "When did the beans arrive at the Vaai Plantation?", and two input fields for "Date" and "Time". The "Farmer ID" section has a red asterisk, a label "What is the farmer's number?", and a text input field. The "Type of delivery" section has a red asterisk, a label "Were the beans delivered as pods, wet beans or dry beans?", and two checkboxes for "Cacao Pods" and "Wet beans". A green checkmark is visible at the bottom right of the form.





## 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**

*¥ The talk tomorrow will include showing a dashboard that fits a phone*

# CACAO DASHBAORD





Andrew.Blakie@spsbiota.co.nz

