

RSPO CB INTERPRETATION FORUM

DAY 2: 24 AUGUST 2022



RSPO CB Interpretation Forum

New Planting Procedure (NPP) 2021

Medan, Indonesia
24 August 2022



Agenda



Time	Topic	PIC
9.15 am	Ice-Breaker: How well do you know NPP?	Freda Manan (RSPO)
9.30 am	Video Presentation: Introduction to NPP	Freda Manan (RSPO)
9.45 am	NPP 2021: Overview	Freda Manan (RSPO)
10.05 am	NPP Completeness Check by the Secretariat	Zaidee Tahir (RSPO)
10.30 am	Break	All
10.45 am	NPP Verification: Group Exercise	Facilitated session
11.15 am	NPP Verification: Group Presentation	Facilitated session
12.15 pm	Discussion: Gap Analysis - Actions Relating to NPP	Wan Muqtadir (RSPO)
12.30 pm	Lunch	All

Let's test your knowledge about NPP.

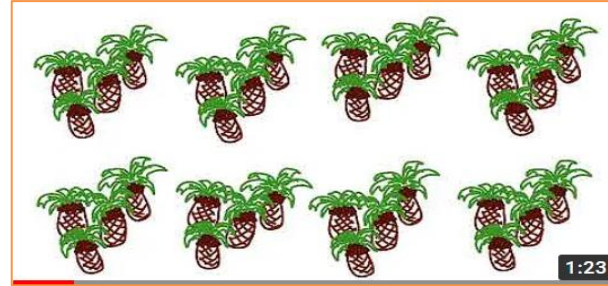
**Scan this QR code or go to
menti.com, key in code 8851 0664
and answer 5 simple questions.**



Video Presentation



[Video 1: NPP Introduction](#)



[Video 2: What is NPP?](#)

Verification for NPP that is submitted to the RSPO secretariat should also consider compliance with national legal requirements.

Indonesia
Izin Usaha Perkebunan



3:16

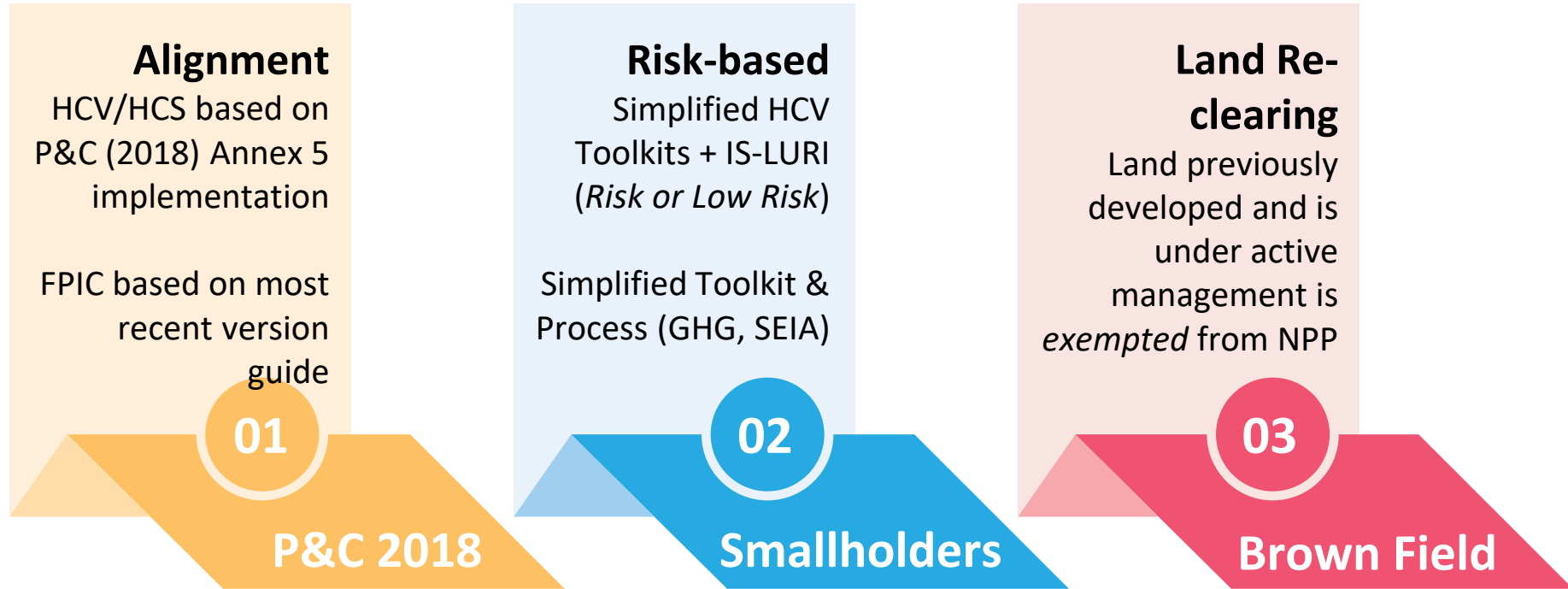
[Video 3: How does the NPP work?](#)

NPP 2021: Overview





Key Changes: NPP 2021





Key Changes: NPP 2021 (Cont'd)

Practicality

6 months grace period
(grower can choose
NPP 2015 or NPP
2021)

*Case Registry -
Assessment challenges*

04

Transition

CB Roles

CB verification is
the key with better
clarification on key
elements, except
for LOW RISK
Smallholder
development.

05

Verification

Submissions

30-day comment
period is made
mandatory for all
NPP submissions.

06

NPP Process

NPP 2021 Tour



2. Assessments

- Assessor(s) competencies ●
- Assessments validity ●
- Internal versus independent ●

4. Submissions

- Submission processes ●
- 30-day comment period ●
- Management of comments ●

1. Introduction

- What is NPP
- When does NPP applies and does not
- Smallholders NPP
- Sanctions

3. Verification

- P&C qualified auditors & RSPO CB
- Compliance to assessments & process requirements
- Field verification guidance



New Planting Procedure consists of a set of processes that involve *assessments* to be conducted by growers followed by a *verification* by certification bodies (CB) prior to any new oil palm development, from 1 January 2010.

(EXCEPT Independent Smallholders pursuing RSPO Independent Smallholder Standard)

1. New Planting Procedure

NPP area

Must be calculated based on the development permit or land deed. The area (ha) of a permit or land deed cannot be separated into several different NPP reports.

Commencement of New Development

NPP is to be verified by CB and subject to a 30-day public comment period. New development can **ONLY** commence with approved NPP and subject to applicable legal requirements being met.

Validity

Approved NPP is deemed valid as long as assessment findings are still valid.

Sanction

Sanctioned areas will not be able to trade FFB produced from the sanctioned areas as Certified FFB for the first three (3) years of certification. Sanction will be reported in the relevant Certification Assessment by responsible CB

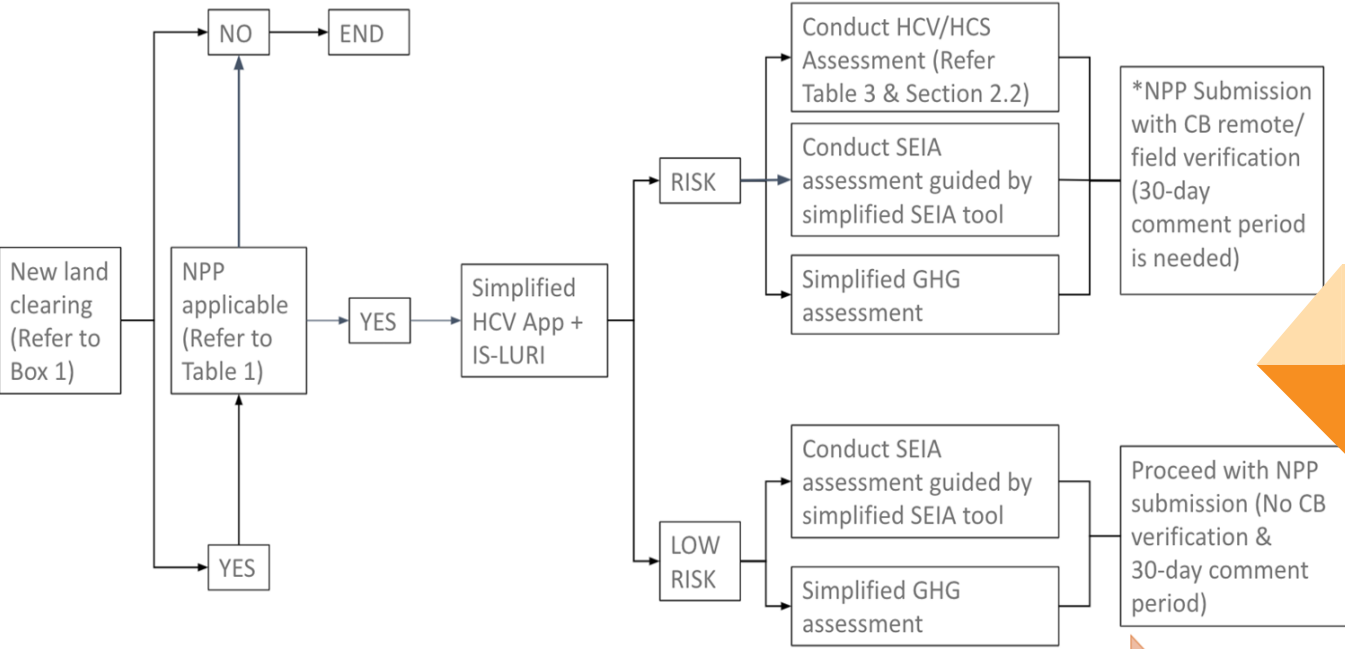


		NPP Does Not Apply	NPP Applies	
1	New development by non-RSPO member.	✗	✓	RSPO members have a majority shareholding in and/or management control (Refer to Certification System).
2	New development that took place before 1 January 2010.	✗	✓	It is a new land acquisition by RSPO members.
3	The area falls within an RSPO certified management unit.	✗	✓	The area falls outside of RSPO certified areas.
4	New development planned on Land Re-clearing of actively managed areas	✗	✓	New development planned on abandoned Land Re-clearing (>3 years)
5	New development with completed and approved NPP by the company and/or previous owner.	✗	✓	It is a new area of smallholder(s), either through existing group member(s) or new recruitment: <ul style="list-style-type: none"> a) managed by own appointed Group Manager; OR b) certified or supported by company under company's supply base
6	Replanting: replacing oil palm with a subsequent oil palm crop.	✗		



Smallholders NPP

Smallholders pursuing P&C: smallholders certified through company supply base/ group certification



- Stakeholder Engagement and FPIC process guided by RSPO FPIC Guide
- **LUCA (in accordance with Section 2.4)**

Risk-based Approach + Simplified Toolkits

Note: This Presentation Slides is used as the material for this CB Forum. Always refer to NPP 2021 Document for reference

2. Assessments



SEIA

- Internal assessment ≤500ha
- Independent assessment >500ha
- Assessment can be older than 3 years

1. Accordance to National regulations.
2. P&C 2018 Annex 2 for Criteria 3.4 (*National Interpretation)

FPIC

FPIC is a process and to be guided by RSPO FPIC Guide

Soil & Topography

- Internal assessment is allowed
- Assessment can be older than 3 years

Areas to be identified: marginal & fragile soils, steep terrains, riparian buffers and peatlands (*National Interpretation)

GHG

- Internal assessment is allowed
- Assessment older than 3 years are to be updated

Accordance with RSPO GHG Assessment Procedure for New Development, Version 4.

LUCA

- Internal assessment is allowed
- Assessment has to be current (less than 2 year old)

Accordance with Annex 3: LUCA Guidance of RSPO Remediation and Compensation Procedure.

2. Assessments (Cont'd)



HCV /HCS

- HCVN ALS Licensed Assessor
 - Refer to Section 1.3 of the HCVNs “HCV-HCSA Assessment Manual” for requirements of the HCV-HCSA assessment team competencies.
 - Standalone HCSA assessment: HCSA registered practitioners affiliated with HCSA registered organisations. (refer to HCSA website for latest list of qualified practitioners)
 - Guided by RSPO Interpretation of Indicator 7.12.2 and Annex 5 of P&C 2018
- HCV-HCSA assessment obtained a ‘satisfactory’ status by a HCVN Quality Panel remains valid regardless of the year of the assessment
 - Standalone HCSA Assessment: Assessment must undergo the HCSA peer review process AND the final version of the HCSA assessment summary available at the HCSA website.
 - The newest HCV-HCSA assessment findings (if any) overrides the previous report and will be used.

3. Reporting & Verification



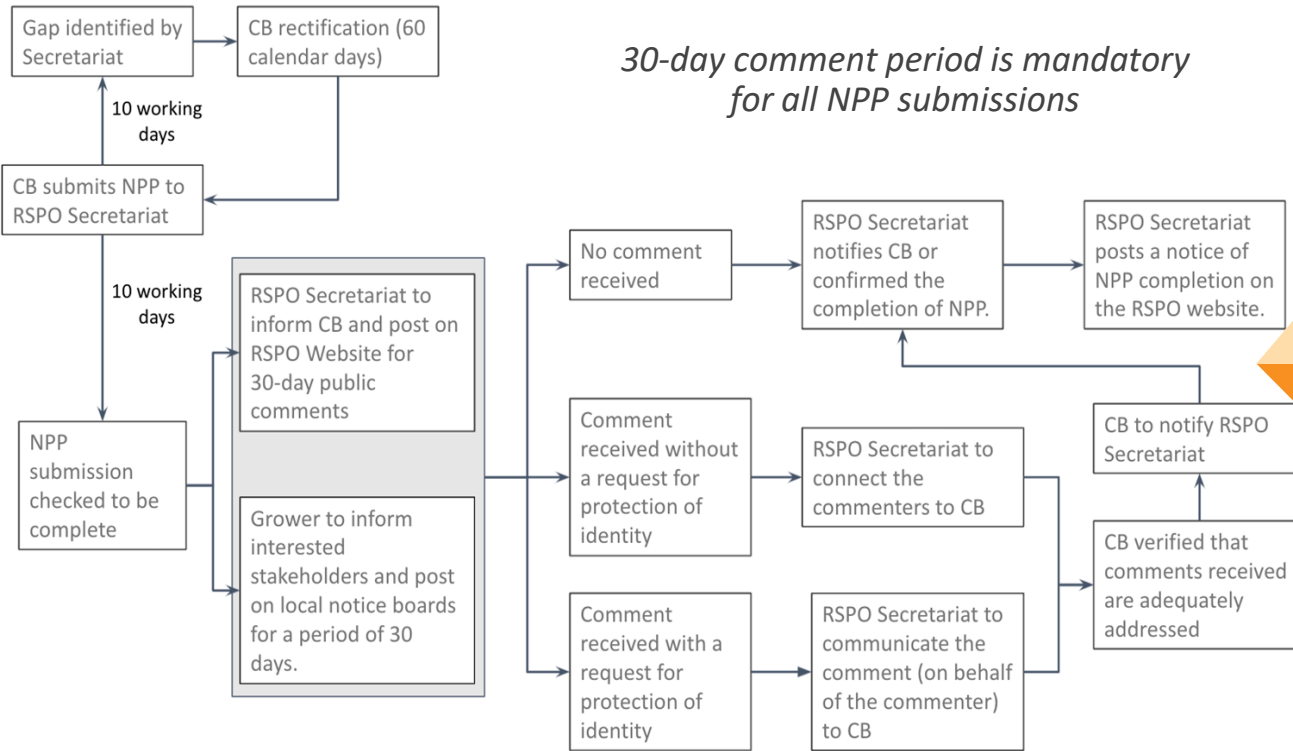
01	Who to verify	<ul style="list-style-type: none">• P&C qualified lead auditor (by RSPO CB)• No conflict of interest• As required RSPO Certification System for P&C and RSPO Independent Smallholder Standard (2020)
02	What to verify	<ul style="list-style-type: none">• Compliance to assessment requirements• Passed assessment quality check (i.e. HCV/HCS)• No inconsistency across assessment and management regime
03	Field Verification	<ul style="list-style-type: none">• Mandatory if it is within risk area (i.e. near HCV)• Verification elements outlined• Local expert can be appointed based on lead auditor discretion

30-day comment period is mandatory for all NPP submissions

4. NPP Submissions

The final NPP report shall contain:

- NPP notification statement
- Summary of assessment reports
- Summary of integrated management plans
- Relevant digital map (shapefiles)



Respect any request (from commenter(s)) for protection of identity

NPP 2021 Completeness Checklist

August 2022



Objectives



New Planting Procedure Outlook
2021



To ensure completeness of NPP
2021 document submission



To discuss the challenges in
completing NPP 2021

Content



01

Facts of NPP

02

NPP Notification Statements

03

NPP Summary of Assessment Reports

04

NPP Summary of Integrated Management Plans

Facts of NPP (as of July 2022)



199

Total Approved NPP



1,615,497 ha

Total NPP Area
(Jan 2010 to July 2022)

327,227 ha

Total HCV Area
(Jan 2010 to July 2022)



Backlog

NPP 2015: **2** in Review

NPP 2021: **1** in Public Comments

Average Days
Taken For NPP
Completion

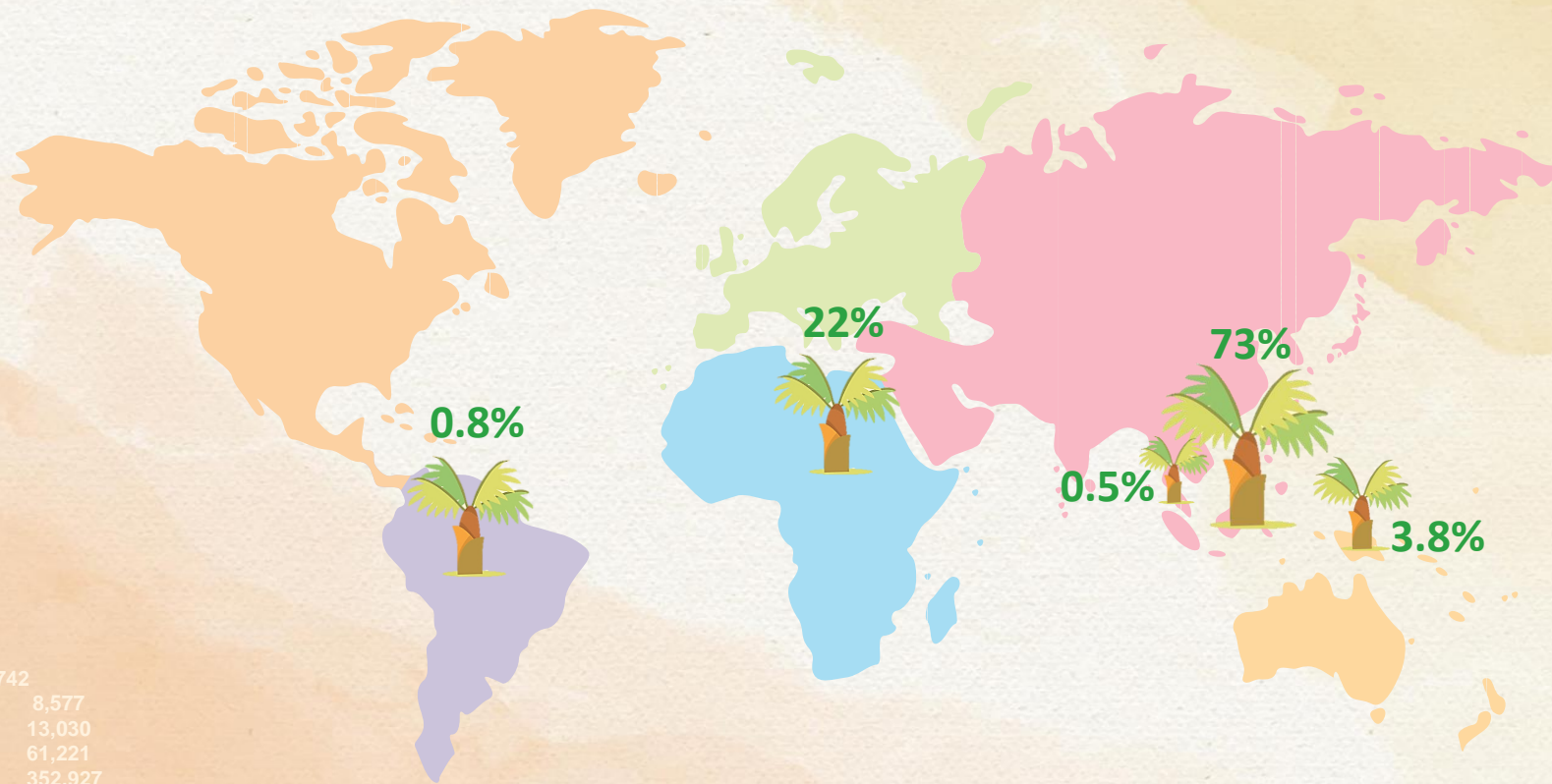
111

65

2015

2021

NPP BY REGION (as of July 2022)



Indonesia	1,179,742
Malaysia	8,577
LATAM	13,030
RoW	61,221
Africa	352,927

NPP: Reminder



1

Your verification should:

- Comprehensive
- Professional quality
- In compliance with relevant P&C

2

Not just fulfilling the audit checklist and desktop verification

3

Be alert if the company have complaints against them or not

4

Notification Statement

Summary of Assessment

Integrated Management Plan

5

SHAPEFILES!

NPP Notification Statement



Item
Reference Number
Country
RSPO Membership Number refer to https://rspo.org/members/all
Name of Subsidiary
Name of Management Unit
Name(s) of Estate(s) covered under this management plan
Location of NPP area (Country, State, District)
Address of NPP area
Business/operation Permit Reference Number and Issuing Authority:
Size information (ha) - Total area as per permit:
Size information (ha) - Area for new planting:
Size information (ha) - HCV area
Size information (ha) - HCS Forest
Size information (ha) - peatland area
Size information (ha) - Steep Terrain
Size information (ha) - Riparian Buffer
Size information (ha) - Marginal and Fragile Soil
Projected GHG emissions (in tonne CO ₂ e, tCO ₂ e/tFFB, or tCO ₂ e/tCPO)
Geospatial Coordinates (Degree Minutes and Seconds)
Boundary Maps - Include clear relevant legends, title, scale
Areas and proposed time for new planting
Summary of the NPP Verification by CB
Acknowledgement by RSPO Member
Confirmation by Certification Body
Signatures

→ Can be left blank if no subsidiary involved in the NPP

→ Land permit covers the whole planting period

→ Add new row as Other Areas
eg. non-HCS conservation area

→ Indicate which version of NPP GHG calculator was used

→ Ensure correct date under signature

NPP Summary of Assessment



ITEMS

Reference Number

Country

RSPO Membership Number refer to <https://rspo.org/members/all>

Section 1: General Information

Does it have information on types of assessment conducted?

Does it have information on the location?

Does it have information on permits?

Does it have information on the rights to use the land?

Does it include land clearing plans? (land use & time plan for new planting)

Section 2: Maps

Boundary Maps owned by the company


Proposed NPP area Maps

Proposed NPP area Maps overlay with HCV and HCS areas

Does the concession area size match with HCVN public summary

Does all the maps are clearly made and readable?

Does the maps include legends suitable to describe the area?

 minimum 300 dpi resolution

NPP Summary of Assessment



ITEMS

Section 3: SEIA

Does it describe the methodology used? (following national regulation? NI?)

Does it describe the people involved in the process?

is there a date on when the assessment was conducted? period from when to when

Does it describe the findings?

date of assessment

name of assessor

Assessor Designation and Company

Is the assessment was done internally or using external? (if more than 500 ha. = external)

Section 4: HCV-HCSA Assessment; OR ALS HCV and Standalone HCSA assessment

Does it give reference to the full report?

Does it describe the methodology used? (which toolkit used)

Does it describe the people involved in the process? (consultation/assessor)

Is there a date on when the assessment was conducted? period from when to when

Does it describe the findings? (including total conservation area)

ALS Satisfactory Date Obtained (ALS HCV & HCV-HCSA assessment)

Name of Assessor

ALS Number

HCSA peer review completion date and link to HCSA summary report (HCSA website)

is the assessment was done internally or using external?



- Assessment older than 3 years must be reviewed
- Social, Health & Environment Impact



Competent internal assessor; at least 3 assessments, expert in remote sensing, mapping and social aspects.



- New land clearing after 15 November 2018 must be preceded by HCV-HCSA Assessment.
- As per HCVN QP feedback
- Include activities related to FPIC (land tenure, land use and social baseline studies)

NPP Summary of Assessment



ITEMS

Section 5: FPIC

Does it describe about stakeholder mapping? (participatory?)

Does it describe the methodology used?

Does it describe the people involved in the process?

Is there a date on when the FPIC process begins? period from when to when

Does it describe the findings?

Is the assessment was done internally or using external?

Has the plan has been accepted by the affected right holders?

Section 6: Soil & Topography

Has identification of soil been made?

Does it describe about sampling points?

Does it describe about steep terrain? (if any)

Does it describe the methodology used?

Does it describe the people involved in the process?

Is there a date on when the survey was conducted? period from when to when

Date of assessment

Name of assessor

Assessor Designation and Company

Is the assessment was done internally or using external?



- Ensure development plan accepted by land owners.
- Evidence of communication and consent.



- Survey report can be older than 3 years.
- Describe marginal, fragile soils, riparian buffer, steep terrain and peatlands

NPP Summary of Assessment



ITEM

Section 7: Greenhouse Gas (GHG)

Does it describe the use of GHG Calculator for new development?

Does it identify significant sources and types of emissions?

Does it describe the methodology used?

Does it describe the people involved in the process?

Date of assessment

Name of assessor

Assessor Designation and Company

Is the assessment was done internally or using external?

Section 8: Land Use Change Analysis (LUCA)

Is there a map for the range of Nov 2005 – Nov 2007

Is there a map for the range of Dec 2007 – Dec 2009

Is there a map for the range of 1 Jan 2010 – 9 May 2014

Is there a map for the range of 9 May 2014 – 15 Nov 2018

Is there a map for the range of 15 Nov 2018 – Current (not more than two years)

Does it describe the methodology used? image processing information (geometric and radiometric correction) and image classification type (supervised, unsupervised, object-based)

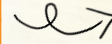
Does it describe the people involved in the process?

Date of assessment

Name of assessor

Assessor Designation and Company

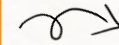
Is the assessment was done internally or using external?



- Carbon stock for proposed development and to minimised.
- Assessment not more than 3 years



If maps not clear, choose next best date between date range.



Not more than 2 years of NPP submission

NPP Summary of Assessment



ITEM

Section 9: Conclusions

Does it mentioned on how the findings from above is translated into management plans?

Do the company acknowledge the issues?

Does the company mentioned about prioritising the issues to be address?

Section 10: Confirmation of Reports


All findings are accepted by the grower?

Date of Completion

Signature

Name

Position

 DO NOT FORGET!

NPP: Integrated Management Plan



Reference Number
Country
RSPO Membership Number refer to https://rspo.org/members/all
Does the company make reference to the management plan
Name(s) of estate(s) covered under this management plan
Key findings of the various assessments (e.g., potential minor environment and/or social risk requiring mitigation actions; total conservation areas).
Key mitigation and monitoring regime, covering both the environmental and social aspects
Evidence of FPIC and key agreements with local communities (if any).
An action plan describing operational actions consequent to the findings of the various assessments, referencing the grower's relevant operational procedures.
Name of Person Responsible
Designation
Signature
Date

→ Make reference to the management plan that CB should check in the next audit

→ Include timeline for the mitigation & monitoring regime

→ Pictures of stakeholders engagement sessions, signed agreements

→ Ensure correct date



Best Practices

- Keep growers in the loop. To show transparency.
- Manage record keeping properly (version, filename and etc)
- **DOUBLE TRIPLE** check before submitting (typo, foreign language and etc.)



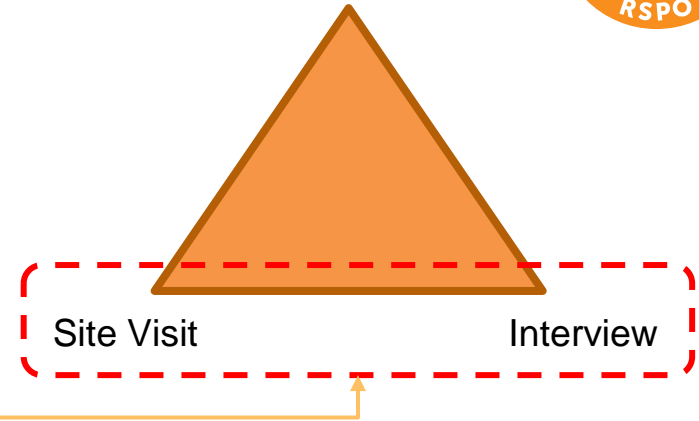
Break (15 minutes)

NPP Verification: Group Exercise



1. Break into 6 groups. Each group will be **assigned one** of the following assessments.
 - i. SEIA
 - ii. FPIC
 - iii. Soil and Topography
 - iv. GHG
 - v. LUCA
 - vi. HCV/HCS
2. Nominate **one person to fill in the sample template**. Discuss what questions should be asked when conducting site visit and interviews during your verification of the assessment.
3. Please email your group's template to nppsubmission@rspo.org

Reports/Assessments



Scan this code for the sample assessments and template



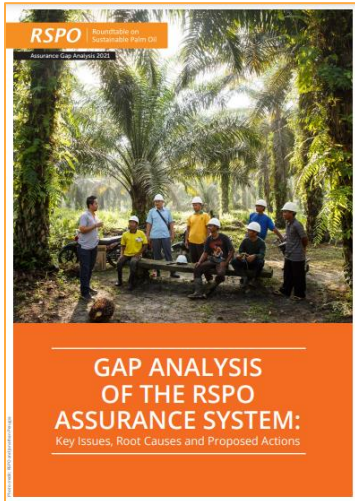


- Each group to present findings from the previous discussion (10 min each).
 - i. SEIA
 - ii. FPIC
 - iii. Soil and Topography
 - iv. GHG
 - v. LUCA
 - vi. HCV/HCS

Discussion: Gap Analysis - Activities Relating to NPP



- The Gap Analysis Report was created with the aim of identifying gaps in the RSPO Assurance Systems, analysing the root causes and finding solutions for improvement.
- 3 operational workstreams were identified; Workstream 1 - Strengthen Assurance System, Workstream 2: Monitoring Compliance and Workstream 3: Embed MEL to Create Impact
- The following are activities that are being conducted by the Secretariat in relation to NPP:
 - Coordinate daily hotspot monitoring, HCV monitoring and NPP Monitoring.
 - Ensure through sample checks that all concessions are declared by members to the Secretariat and mapped on RSPO databases. Full implementation of remote concession monitoring for evidence of land use change/deforestation and fires, and investigation protocols if any incidences are detected.
 - A thorough review of the processes for enforcing NPP compliance and ensuring effective verification by CBs, to identify weaknesses and training needs to be addressed, and to agree on an effective oversight programme by ASI.
 - A thorough review of a sample of certification units to evaluate the ongoing measures to monitor and manage identified HCV/HCS areas, and any related assessment issues.



MAPPING THE PLOT BOUNDARY USING AVENZA APP, QGIS & GOOGLE EARTH

24 August 2022
Aryaduta Medan



Outline



1. Introduction on GIS (5 mins)
2. Create basemap (10 mins)
3. Plot Mapping Using Avenza App (10 min)
4. Field practice (60 mins)
5. Boundary editing, area calculation, and visualization in Google Earth (30 mins)
6. Plot verification (30 mins)

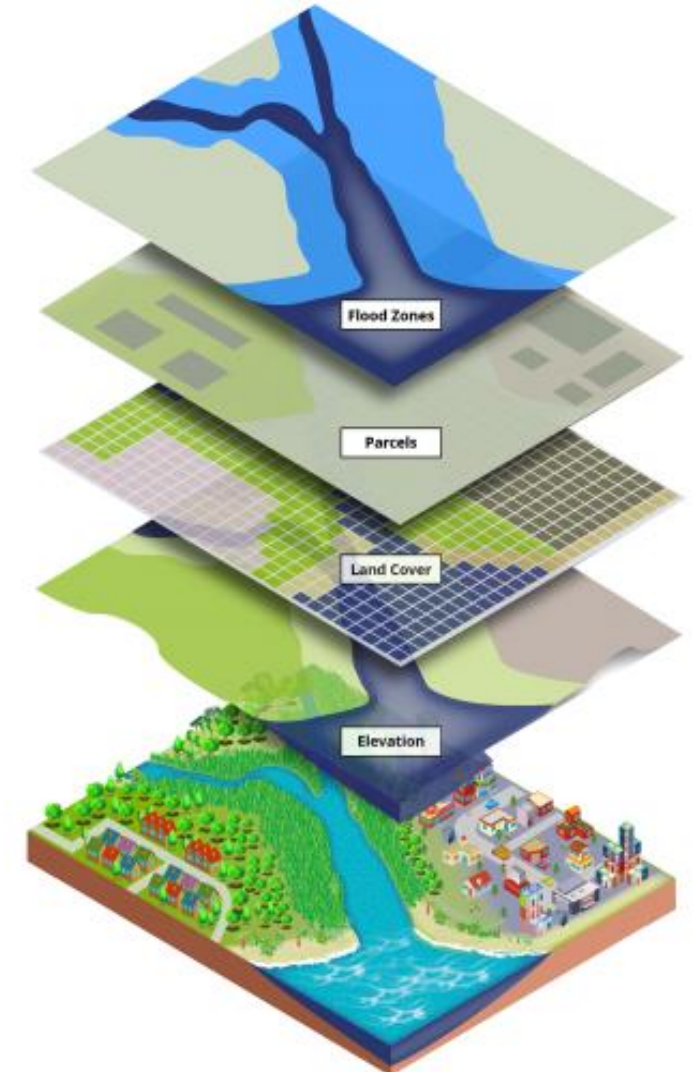
What is GIS?

Geographical Information System

- computer-based tool that examines spatial relationships, patterns, and trends in geography.
- Geographic Information Systems (GIS) store, analyse, and visualise data for geographic positions on Earth's surface.

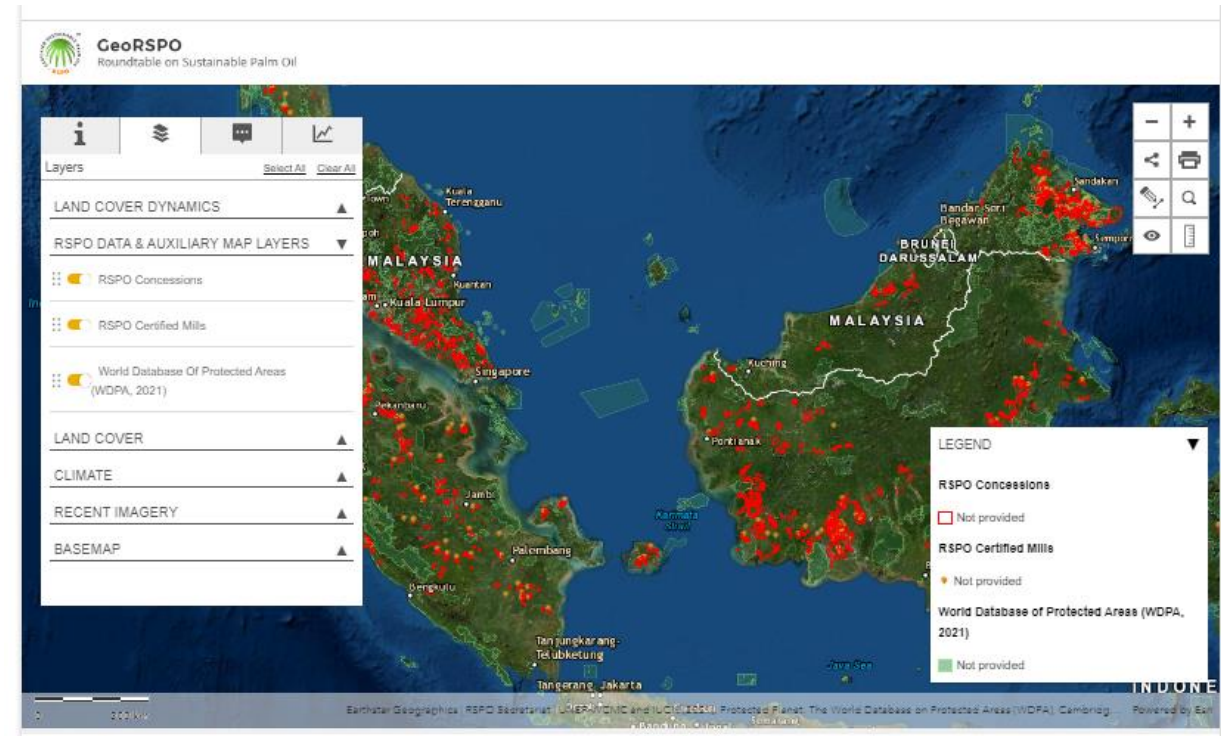
Input data can be:

- Concession boundary
- Location – overlap with
- HCV/ Peat/ Slope/ Riparian
- Owner / RSPO member
- Membership information



GIS - *Why does it matter?*

- Compliance with the requirements set by certification schemes for the sustainable has to be evidenced by growers wishing to become certified
- A lot of the required data is tangible information
- Some certification requirements can be validated using GIS since they refer to maps, areas, or field observations that need to be verified
- embrace new technologies



GeoRSPO (<https://rspo.org/geo-rspo>), a public web mapping platform that displays oil palm concessions and certified mill locations. In regards to auditing, the data and the analysis tools that comes with GeoRSPO can help auditors plan and prepare for an audit.



How GIS can be used in the Certification Audit (Grower)

Example of criteria based on the RSPO Principles and Criteria 2018 - Auditor's Checklist

Criteria	Indicator	Checklist
2.1 There is compliance with all applicable local, national and ratified international laws and regulations.	2.1.3 Legal or authorised boundaries are clearly demarcated and visibly maintained , and there is no planting beyond these legal or authorised boundaries.	Ground verification of boundary markers using GPS should be conducted. Priority should be on boundaries with other estates, community areas, protected area and rivers
2.3 All FFB supplies from outside the unit of certification are from legal sources.	2.3.1 (C) For all directly sourced FFB, the mill requires: - Information on geo-location of FFB origins	b. Has the mill identified the geo-locations of FFB origins of its FFB suppliers? c. How does the mill tracked the geo-locations?
4.4 Use of the land for oil palm does not diminish the legal, customary or user rights of other users without their free, prior and informed consent.	4.4.3 (C) Maps of an appropriate scale showing the extent of recognised legal, customary or user rights are developed through participatory mapping involving affected parties (including neighbouring communities where applicable, and relevant authorities)	Actual ground verification showing the accuracy of the dispute map should be conducted
4.8 The right to use the land is demonstrated and is not legitimately contested by local people who can demonstrate that they have legal, customary, or user rights.	4.8.4 For any conflict or dispute over the land, the extent of the disputed area is mapped out in a participatory way with involvement of affected parties (including neighbouring communities where applicable)	



How GIS can be used in the Certification Audit (ISH)

RSPO Independent Smallholder Standard Auditor's Checklist - 2020

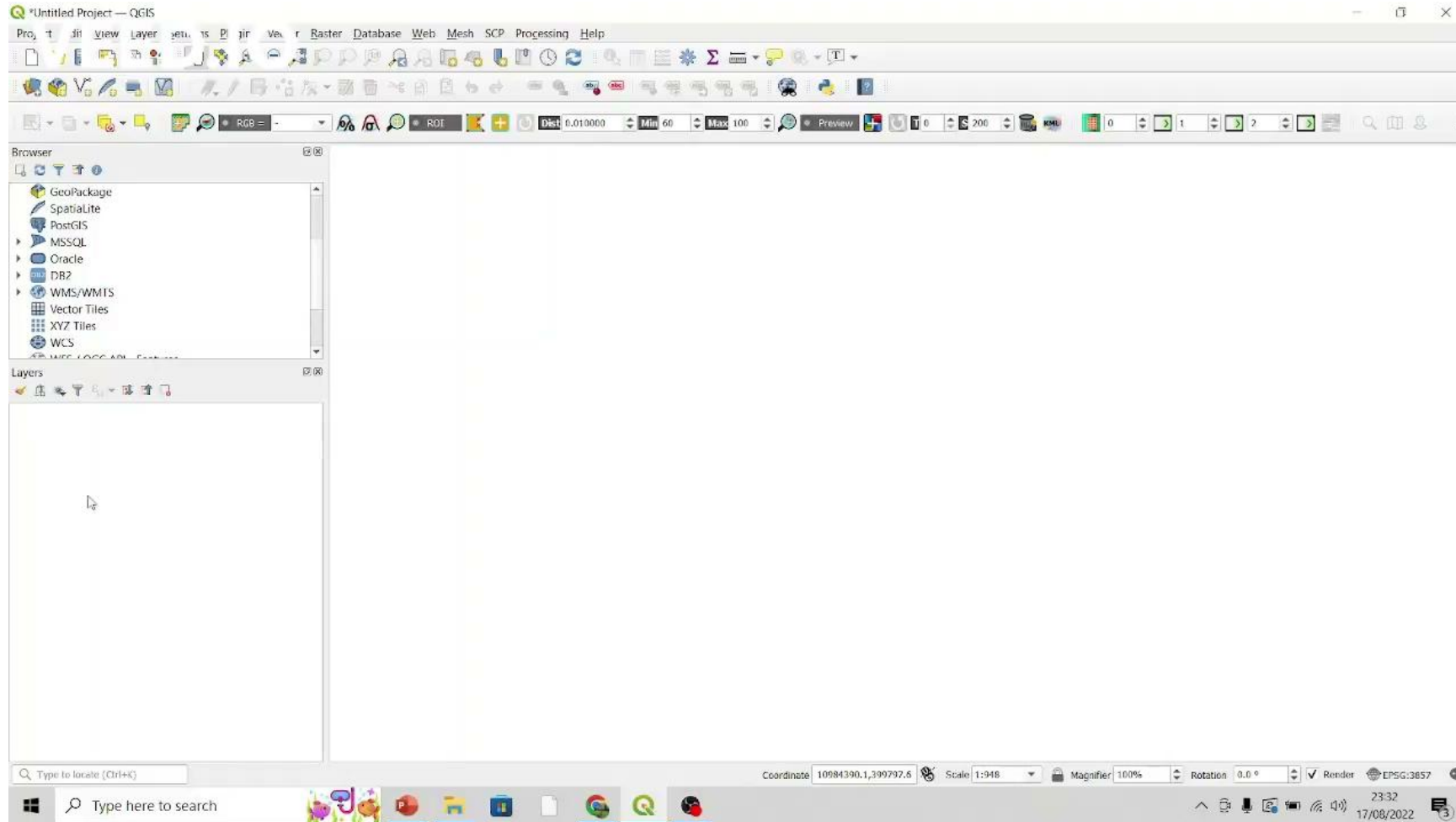
Criteria	Indicator	Checklist
<p>2.1 Smallholders have legal or customary rights to use the land in accordance with national and local laws and customary practices.</p>	<p>2.1 MS B Smallholder plots are clearly and visibly demarcated and maintained and the smallholders are operating only within these boundaries.</p>	<p>5. Have any boundary overlaps been verified by an authorised officer ?</p> <p>Note: This is applicable to land applications according to requirements of the final stage of approval as per national or local laws.</p>
<p>2.4 Smallholder plots are located outside of areas classified as national parks or protected areas, as defined by national, regional or local law or as specified in National Interpretations.</p>	<p>2.4 E Smallholder plots are located outside areas classified as national parks or protected areas as defined by national, regional or local law or as specified in National Interpretations (Ref 1.1.E, Annex 2).</p>	<p>auditor to verify through onsite visit if there is areas classified in the indicators.</p>
<p>4.2 Where the existing smallholder plot has been planted and cleared after November 2005 or is on an area identified as HCS forests after November 2019 up to the eligibility period, a remediation and compensation process appropriate for smallholders based on Land Use Change Analysis (LUCA) will be applicable (Reference preamble).</p>	<p>4.2 MS A Group members develop a plan to identify the maximum area for on-site remediation of HCVs lost since 2005 and HCS forests lost since November 2019, through a participatory process. and the plan is submitted to the RSPO.</p>	<p>1. Have the group members identified areas for remediation ? If yes, has the plans for remediation been submitted to RSPO.</p> <p>Note: Auditor to verify if plans have been submitted to RSPO.</p>
	<p>4.2 MS B An RSPO-approved plan to remediate for HCVs lost since 2005 and HCS forests lost since November 2019 is implemented.</p>	<p>2. Can the group member demonstrate evidence of implementation of the RSPO approved plan ?</p> <p>Note: Auditor to verify on site.</p>



2. Create the basemap (offline map)

Create the Basemap -> Offline map

Basemaps serve as a reference map on which you overlay data from layers and visualize geographic information. Creating the basemap can be done using an open source GIS software, i.e. QGIS. The steps to create the basemap within QGIS can be accessed through the video link below:



Basemaps' reference:

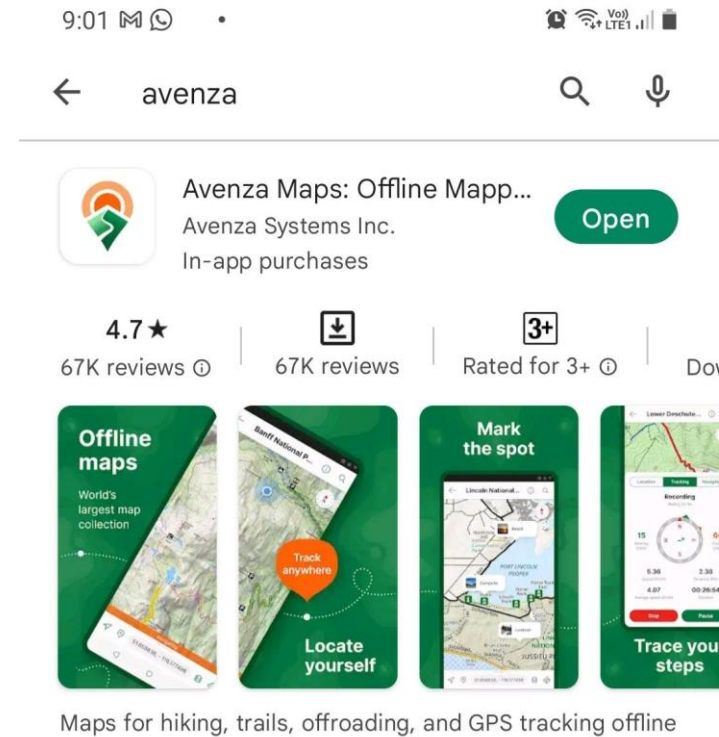
<https://gis.stackexchange.com/questions/20191/adding-basemaps-from-google-or-bing-in-qgis>



3. Boundary/plot Mapping Using Mobile App

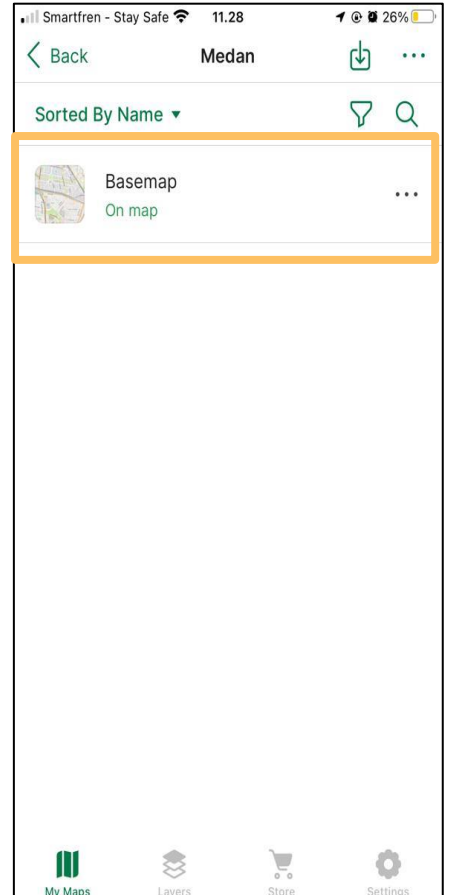
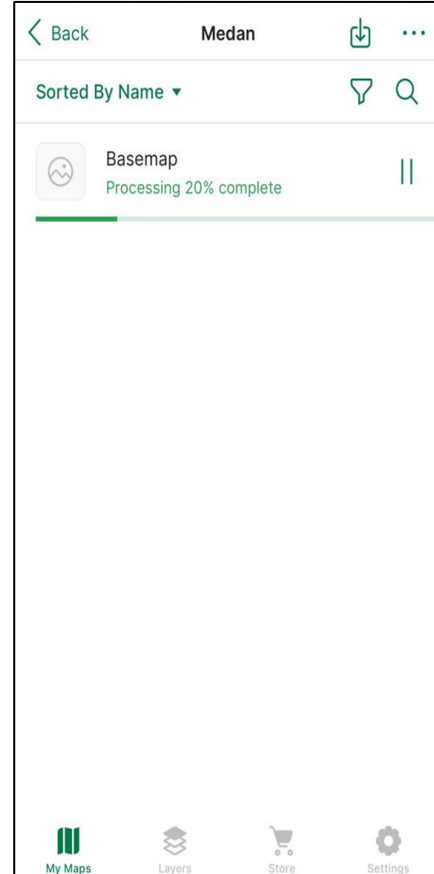
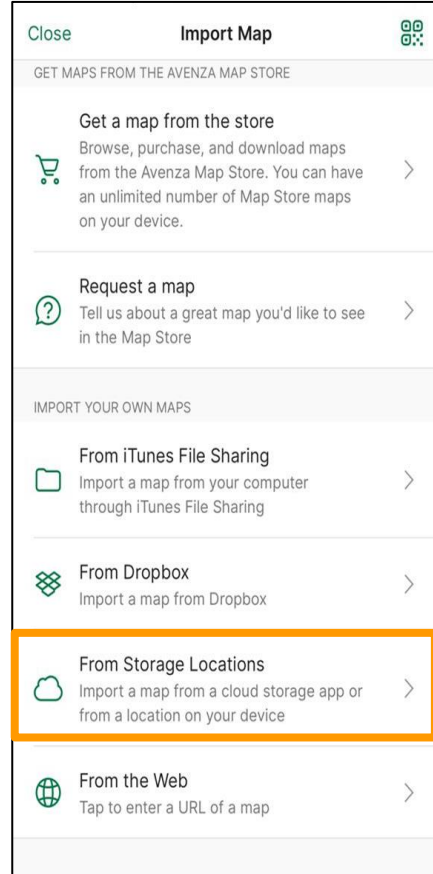
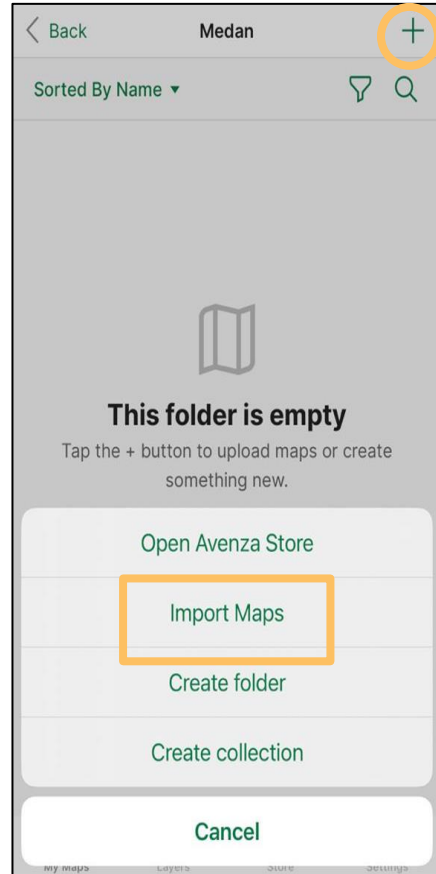
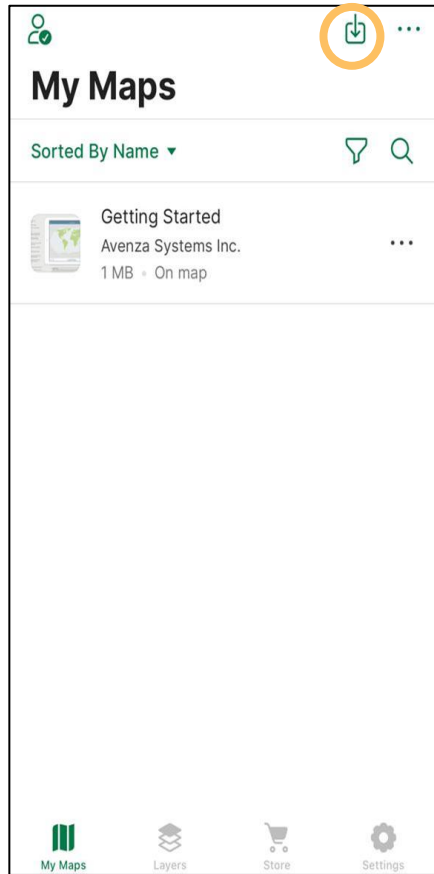
What is Avenza Map

Avenza Maps™ is a mobile map app that allows you to download maps for offline use on your iOS and Android smartphone or tablet. Use your device's built-in GPS to track your location on any map. Plot and record information about locations, import and export placemarks, and measure distance and area.

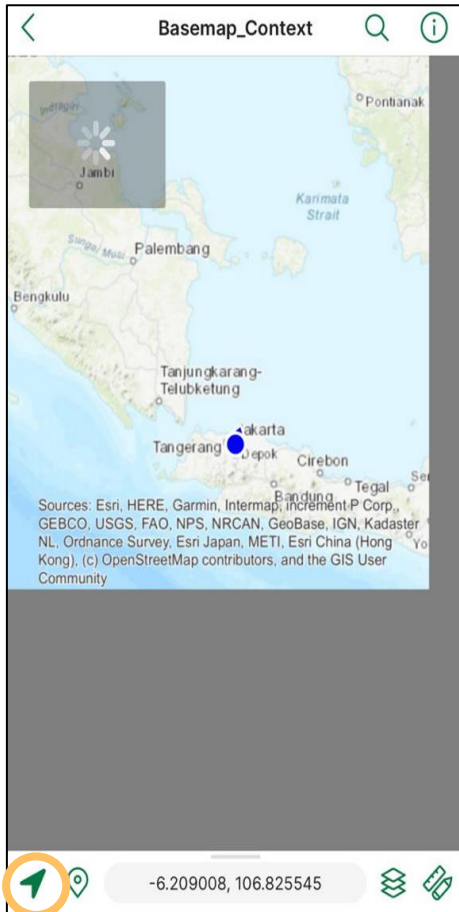


Avenza Basic Features – Importing Basemap

Only 3 maps will be able to use the tools contained within Avenza Maps (location, placemark creation, tracking, etc.), except have a subscription.



Avenza Basic Features – Adding Placemark




Cancel Add Placemark Submit


PLACEMARK NAME

Point 1

INFORMATION

Style  >

Photos




Description Not Set >

Location -6.208996, 106.825557 >

Time 17.08.2022 at 12:37

ATTRIBUTES

 Layer Parent Layer/Schema Edit Move

Editing the placemark mark - example: Point 1

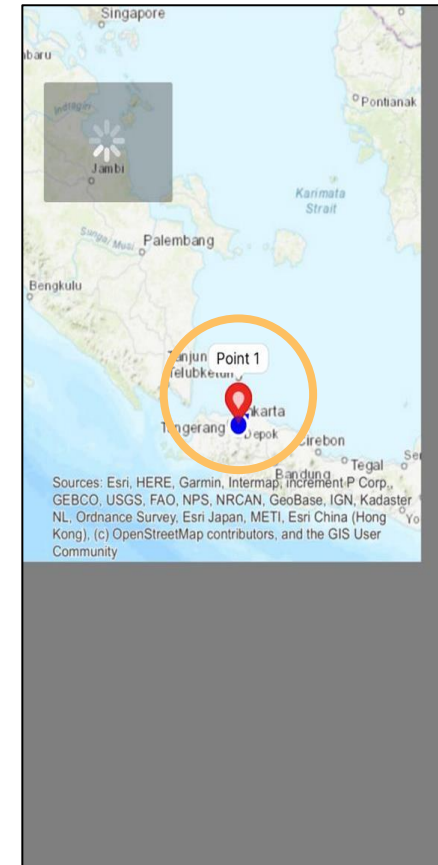
Customize the symbology

Adding photos

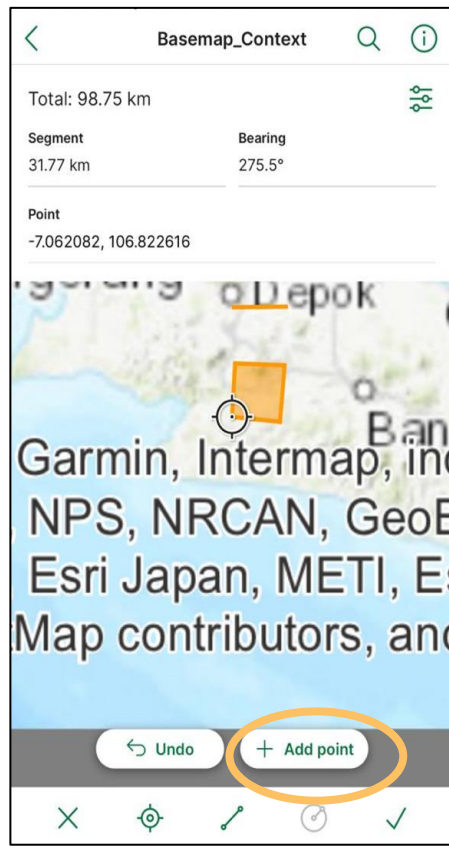
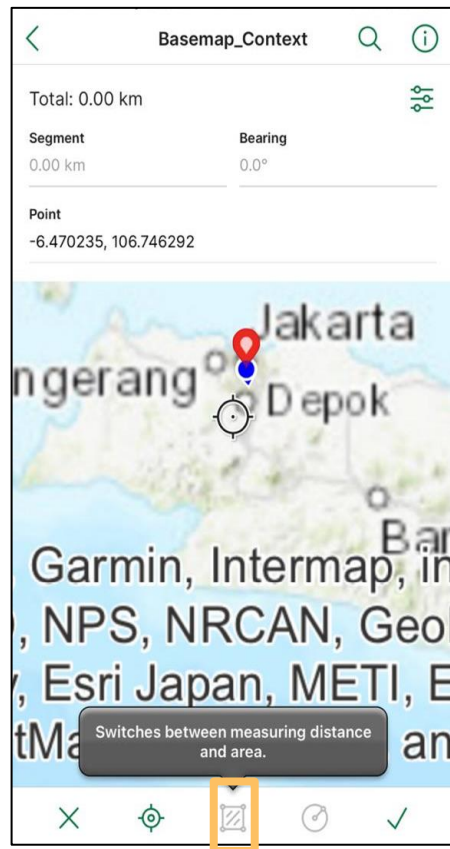
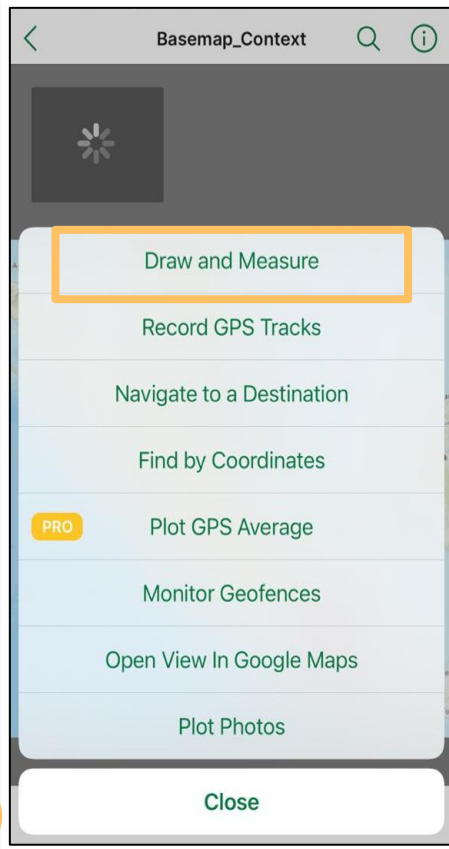
Adding description

Location and time will automatically provided by the application

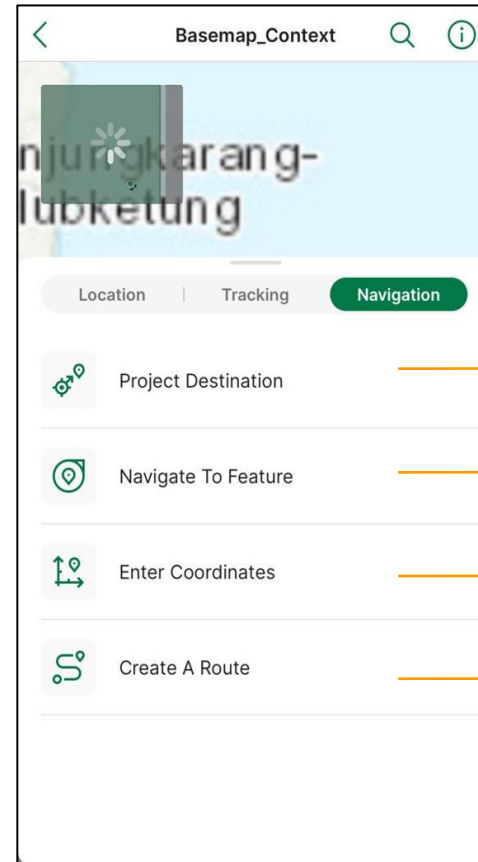
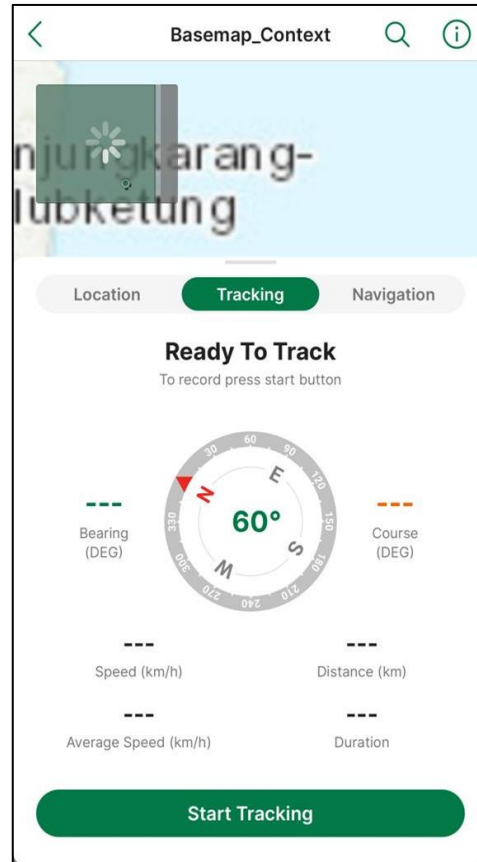
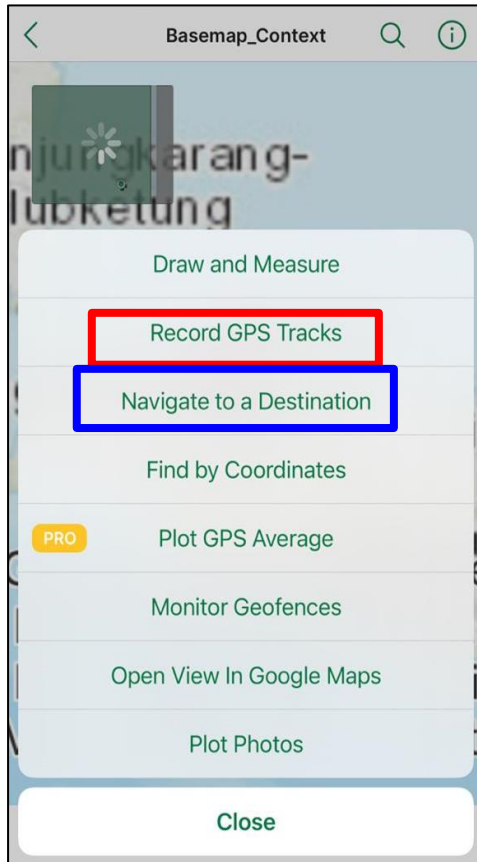
Customize attribute scheme



Avenza Basic Features – Draw and Measure



Avenza Basic Features – Tracking and Navigation



Allows users to choose their destination based on heading and the desired distance you wish to travel

Navigate to feature based on a map feature

To allow users to specify the desired coordinate


To navigate along a series of lines that form your route until you reach your destination


Avenza Basic Features – Attribute Scheme



Edit Placemark

PLACEMARK NAME
Point 1



INFORMATION
Style  >



Photos


Description Not Set >

Location -6.208996, 106.825557 >


Time 17.08.2022 at 12:37


ATTRIBUTES
Layer Parent Layer/Schema  


 

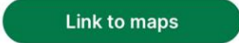

Edit Layer


All features are added to the layer

PLACEMARKS
Default Icon  >
Enter default placemark name here

TRACKS AND LINES
Default line style  >

AREAS
Default area style  >


LINKED MAPS
Linked to: Medan
 

ATTRIBUTE SCHEMA
 Add a New Attribute

Attribute



NAME
Group

TYPE
String

PICK LIST
 Add a New Pick List Value


Pick list has predefined attribute values to choose from. It is optional.

[← Back](#) **Edit Layer** [Edit](#)


Default icon  

Enter default placemark name here

TRACKS AND LINES

Default line style  [>](#)

AREAS

Default area style  [>](#)

LINKED MAPS



Linked to: Medan


[Link to maps](#) [Unlink from all](#)

ATTRIBUTE SCHEMA


[+ Add a New Attribute](#)

Number	Integer	>
Group	String	>

[Close](#) **Edit Placemark**  

Style  [>](#)

Photos




Description Not Set [>](#)



Location -6.208996, 106.825557 [>](#)

Time 17.08.2022 at 12:37

ATTRIBUTES

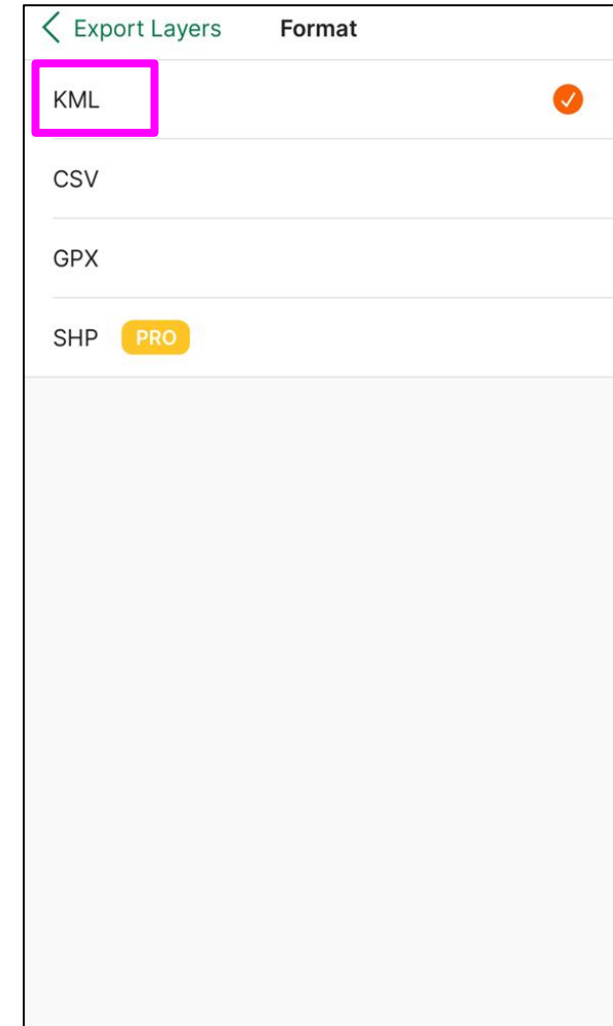
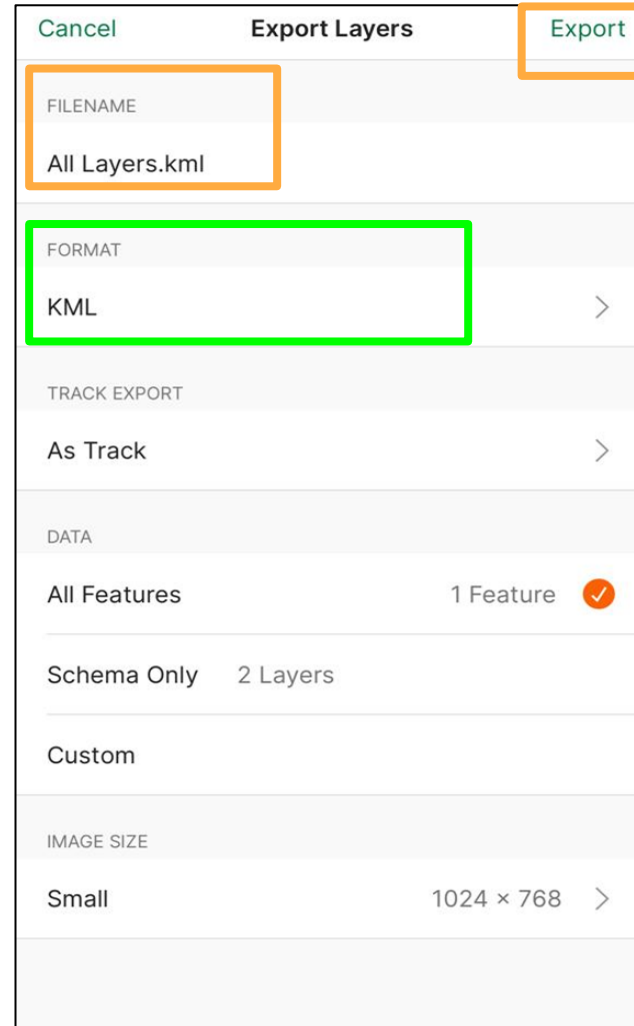
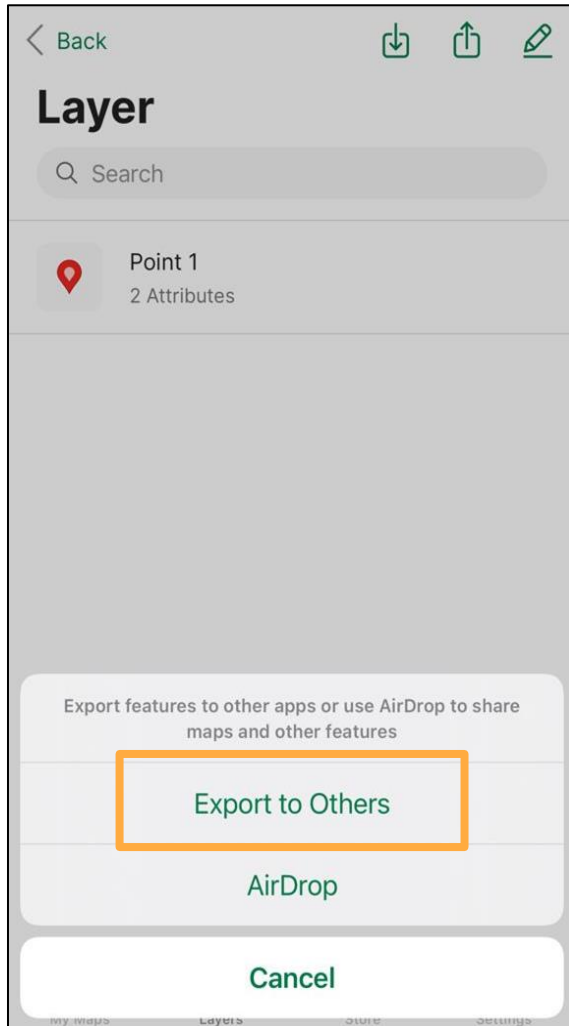
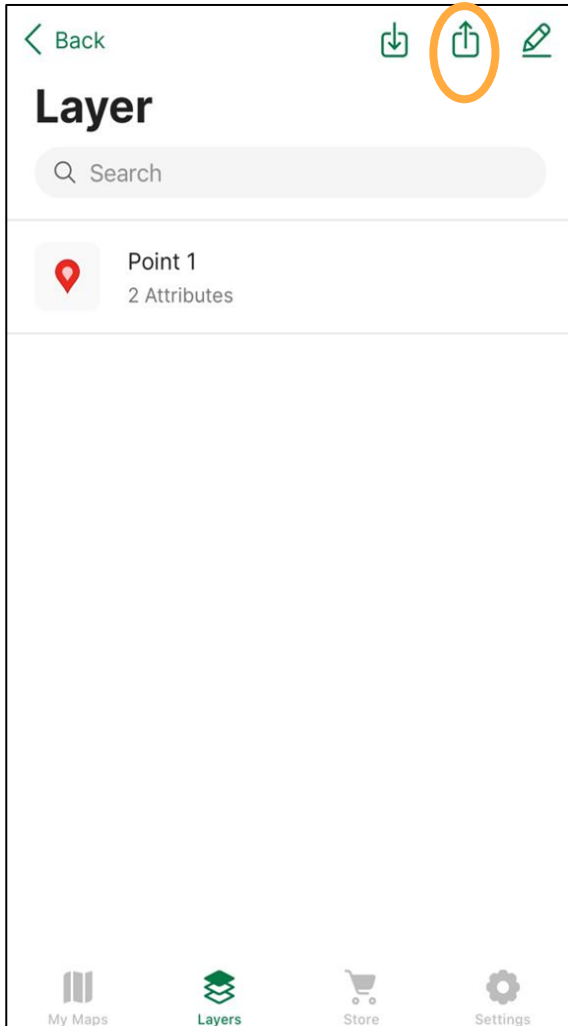
 **Layer** [Edit](#) [Move](#)
Parent Layer/Schema

Number	1	>
Group	KUD Makmur Jaya	>

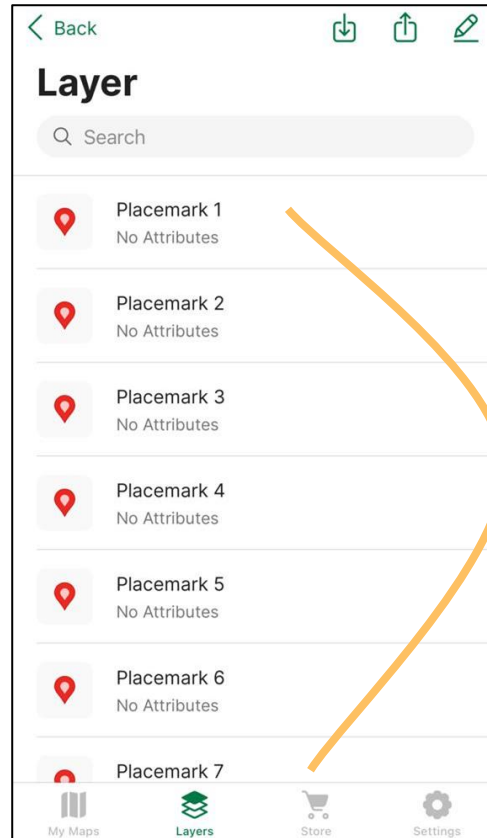
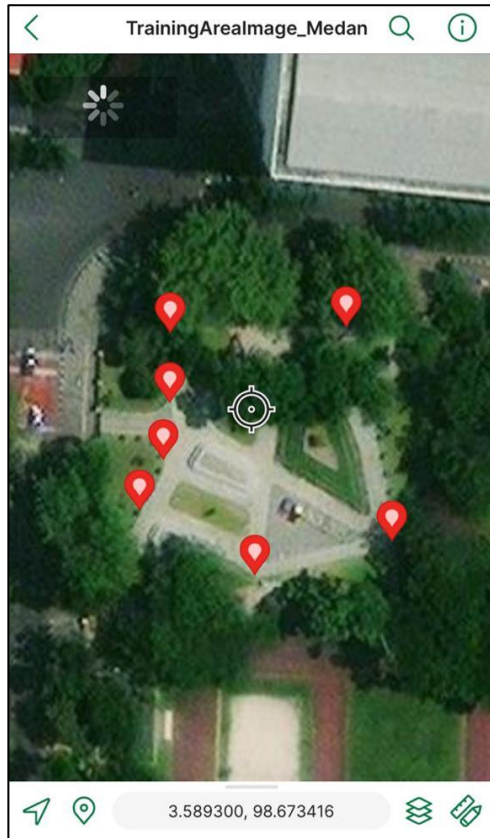
 



Avenza Basic Features – Exporting Map Features



Example – Mapping the Points of Garden/Park



Collecting placemarks in the garden

Plotting Exercise

Scenario:

Local community has raised a complaint against your certified management unit, PT Kartika Fitry. They claim that the unit has taken their land for planting. The land is adjacent to the management unit. You are appointed to investigate this allegation.

Share your findings in the next session

- Does the boundary clearly demarcated?
- Is there any planting beyond these legal boundary?
- Is there any pictorial evidence?





Plotting Exercise - Criteria 2.1 and 4.8

Criteria	Indicator	Checklist
2.1 There is compliance with all applicable local, national and ratified international laws and regulations.	2.1.3 Legal or authorised boundaries are clearly demarcated and visibly maintained , and there is no planting beyond these legal or authorised boundaries .	Ground verification of boundary markers using GPS should be conducted. Priority should be on boundaries with other estates, community areas, protected area and rivers
4.8 The right to use the land is demonstrated and is not legitimately contested by local people who can demonstrate that they have legal, customary, or user rights.	4.8.4 For any conflict or dispute over the land, the extent of the disputed area is mapped out in a participatory way with involvement of affected parties (including neighbouring communities where applicable)	Actual ground verification showing the accuracy of the dispute map should be conducted

training topic highlighted in this session - CB Forum Medan 24 August 2022



Software Installation

- 1. QGIS - Basemap production**
- 2. Avenza - Data collection**
- 3. Google Earth Pro - Plot verification**



Grouping session

1. Tika (physical)
2. Fitry (physical)
3. Fani (online)



Data Collection Session (60 mins)

- **Online support is available for online participants**

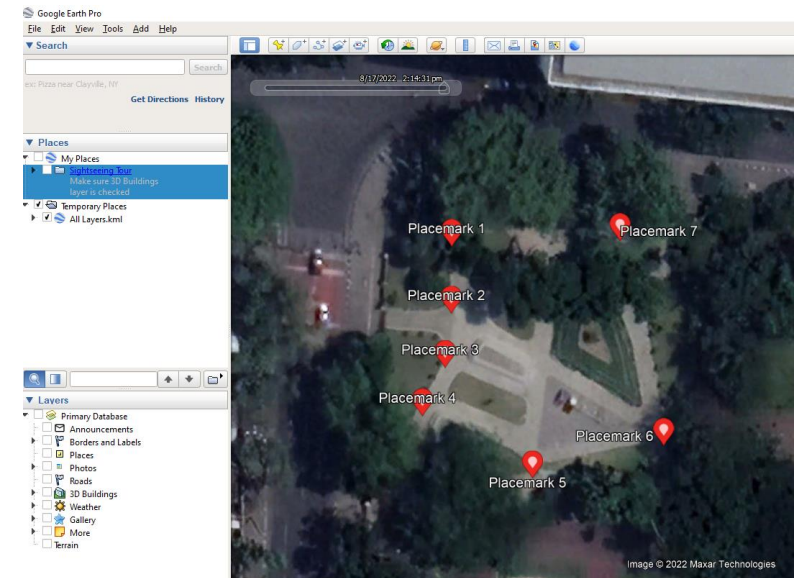
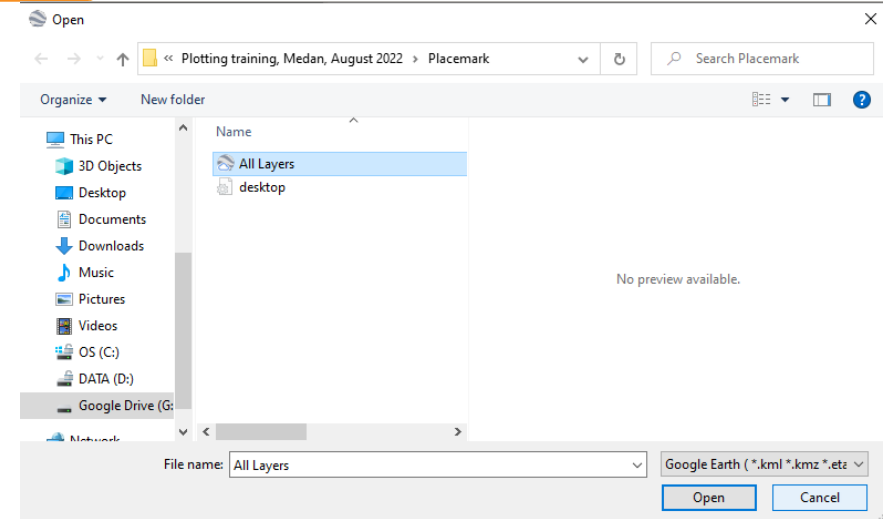
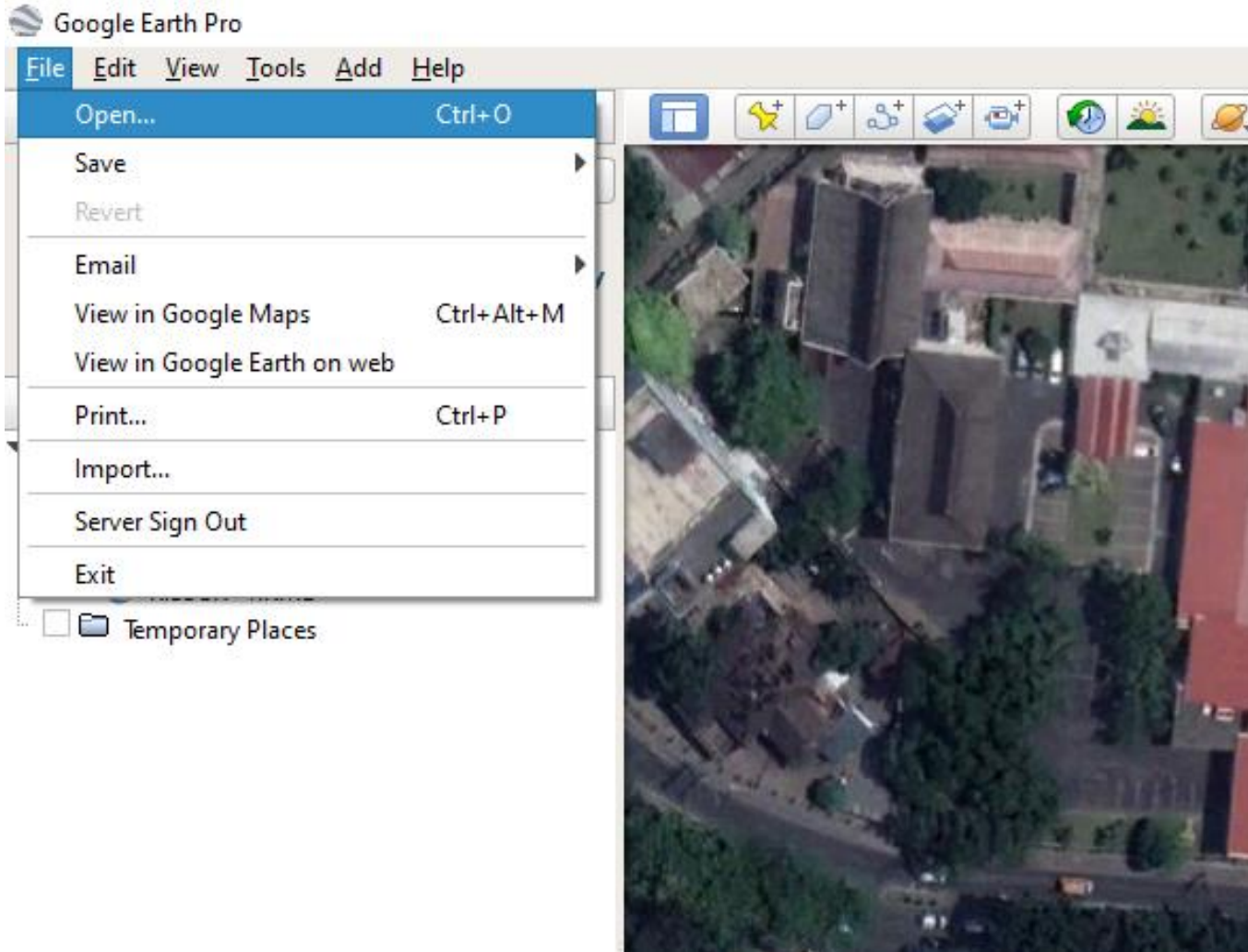


Plot verification Session



4. Boundary editing, & area calculation in Google Earth.

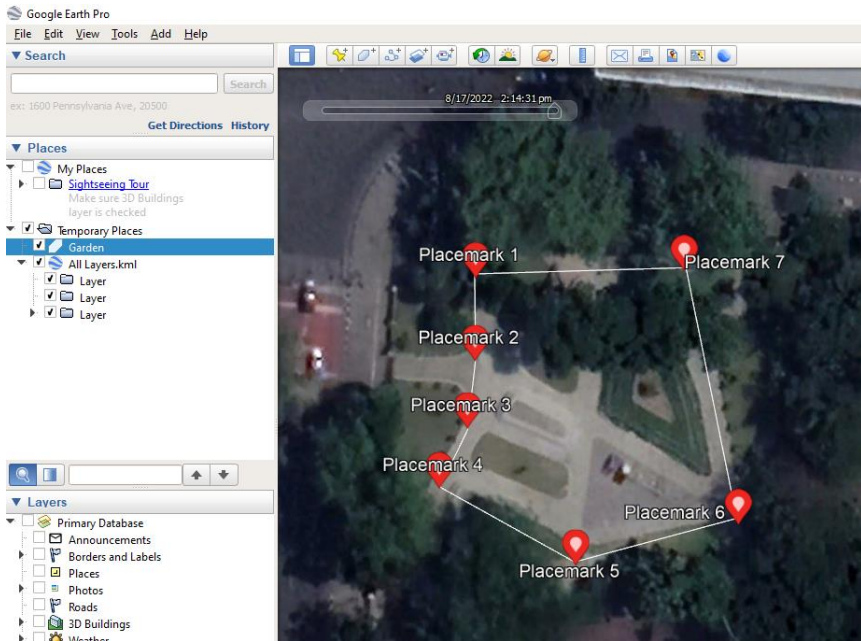
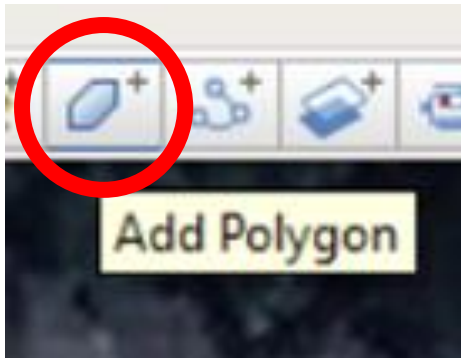
Step 1 – Download the kml points in Google Earth



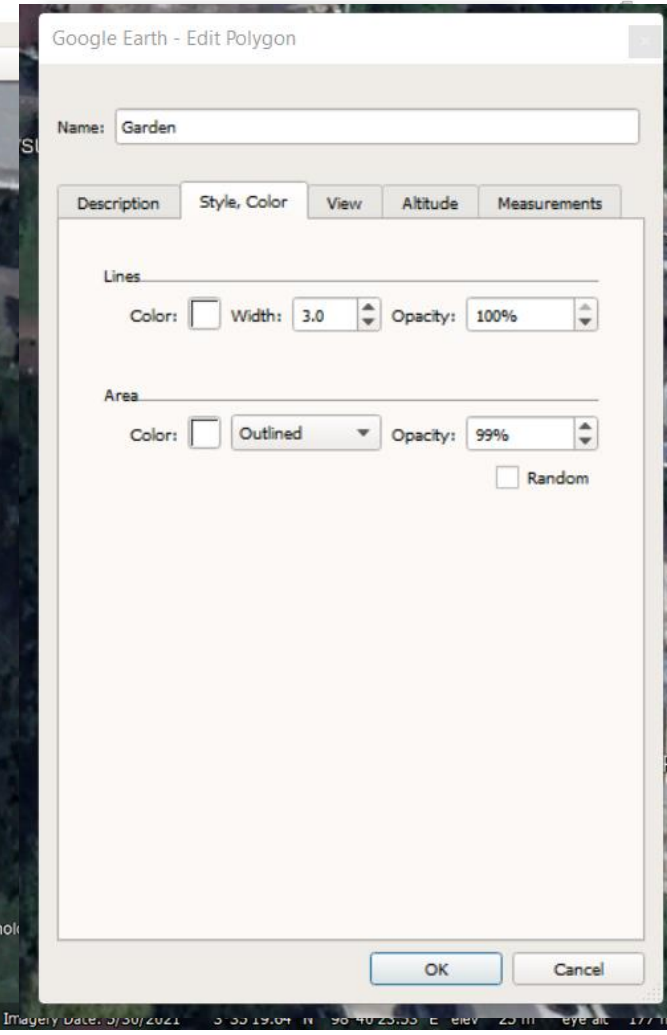
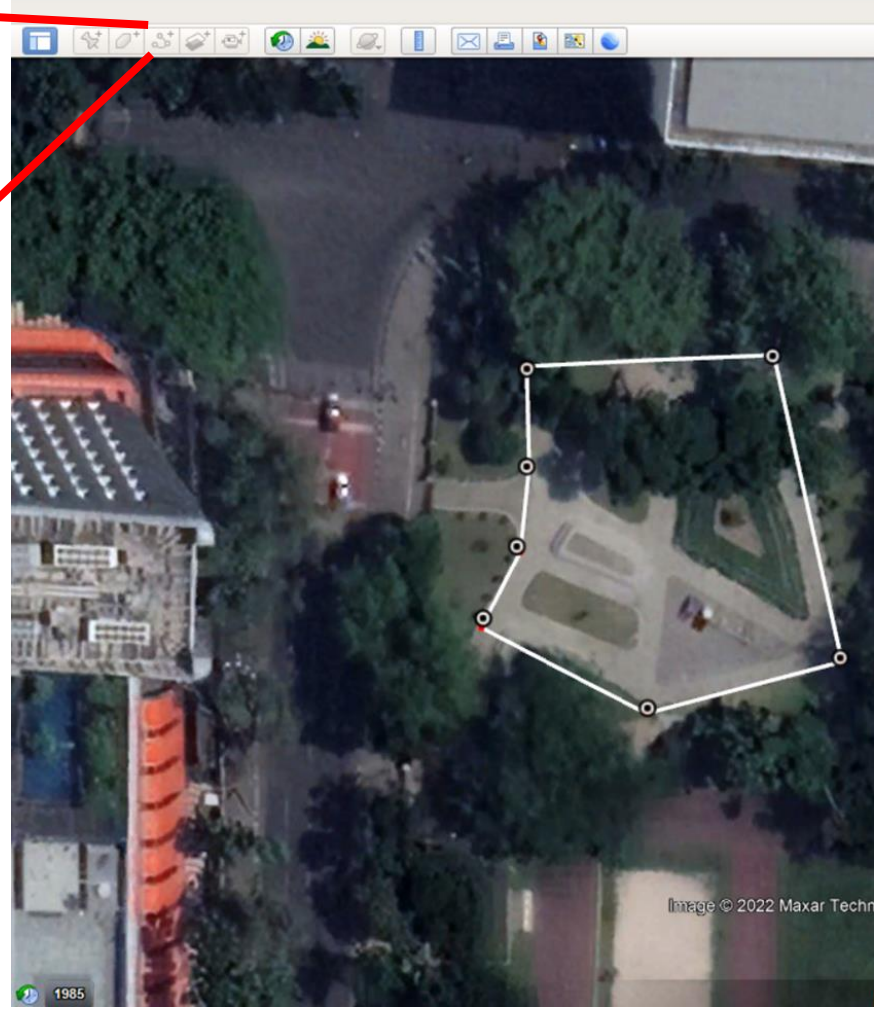
1. Import data

Step 2 - Create a polygon

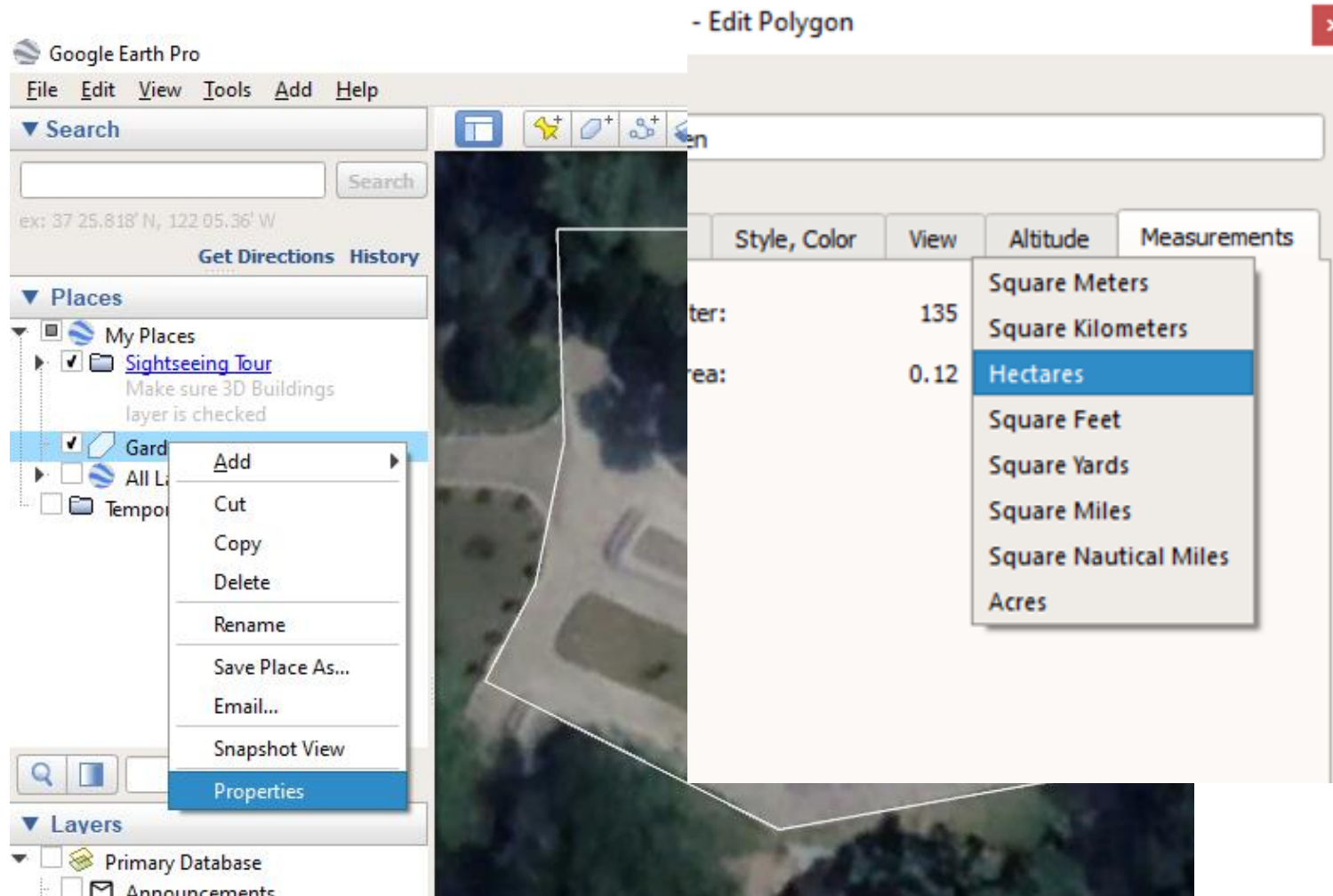
1. Add polygon



2. Customize the polygon's style (Color line, width line, outlined area) and start to digitize the plot



Step 3 - Calculate the area



Google Earth Pro - Edit Polygon

File Edit View Tools Add Help

Search

ex: 37 25.818' N, 122 05.36' W

Get Directions History

Places

- My Places
 - Sightseeing Tour
 - Garden

Context Menu:

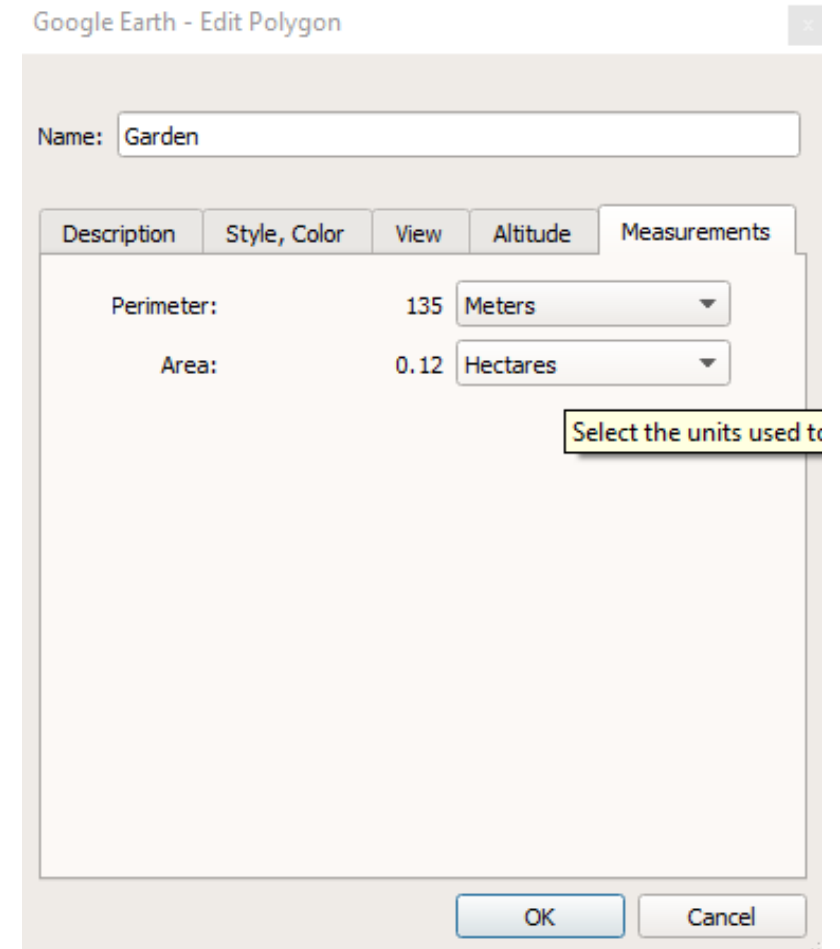
- Add
- Cut
- Copy
- Delete
- Rename
- Save Place As...
- Email...
- Snapshot View
- Properties

Measurements Tab:

Perimeter:	135
Area:	0.12

Unit Selection Menu:

- Square Meters
- Square Kilometers
- Hectares**
- Square Feet
- Square Yards
- Square Miles
- Square Nautical Miles
- Acres



Google Earth - Edit Polygon

Name: Garden

Measurements Tab:

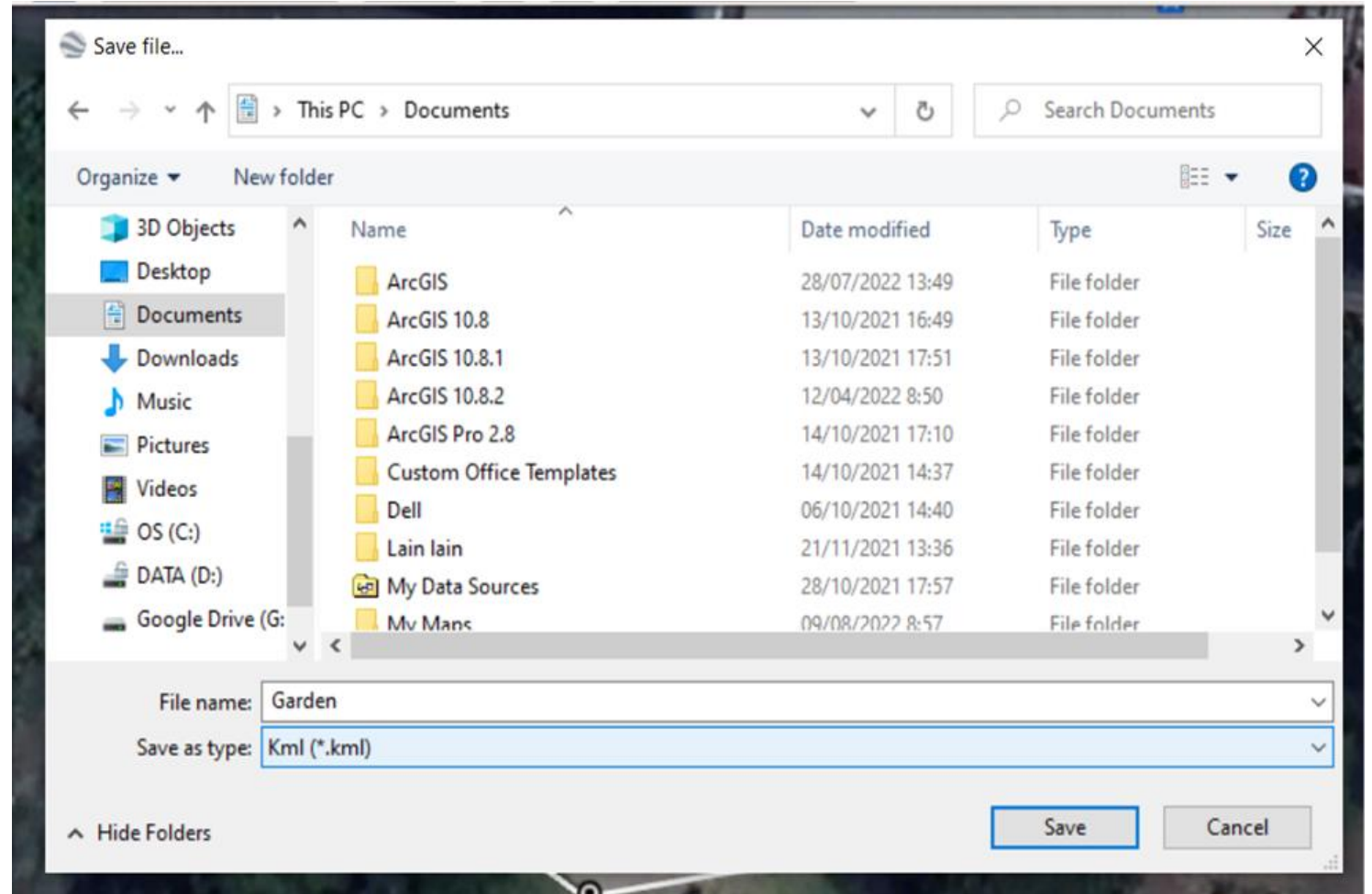
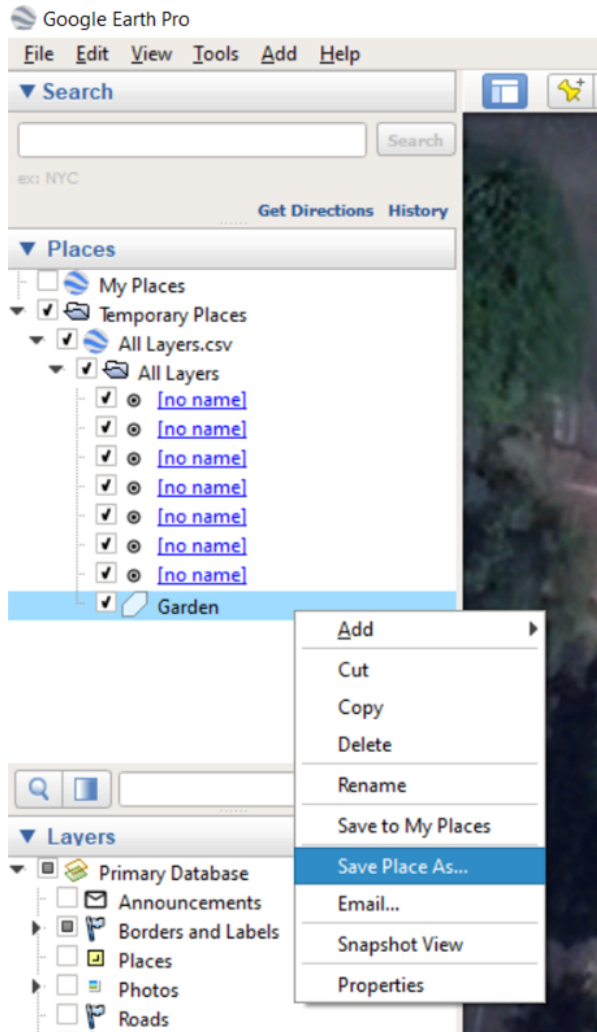
Perimeter:	135	Meters
Area:	0.12	Hectares

Tooltip: Select the units used to

Buttons: OK, Cancel

Step 4 – Save the Polygon

1. Right click and choose the ‘Save place as’



2. Save the polygon in desired folders and choose which format type (.kml or .kmz), both can be opened in the GIS software

Recap - Plotting Exercise

In class (introduction and step by step guideline)

1. Creating Folder and Collection (if needed)
2. Create the basemap for offline map
3. Boundary / plot mapping using mobile apps.

Plotting (points) exercise in the field using **Avenza**

1. Go to garden/park
2. Map the garden area -> plotting some points by adding placemarks

Upload the plotting points, create and edit the polygon, calculate the area, and plot visualization within the **Google Earth** app

1. Back to venue
2. Export the layer to the user phone storage
3. Open Google Earth Pro
4. Import the file to the GE Pro
5. Create a polygon on the GE Pro
6. Save the polygon



“

Q & A Session

”



“

RSPO GIS Unit email
maps@rspo.org

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