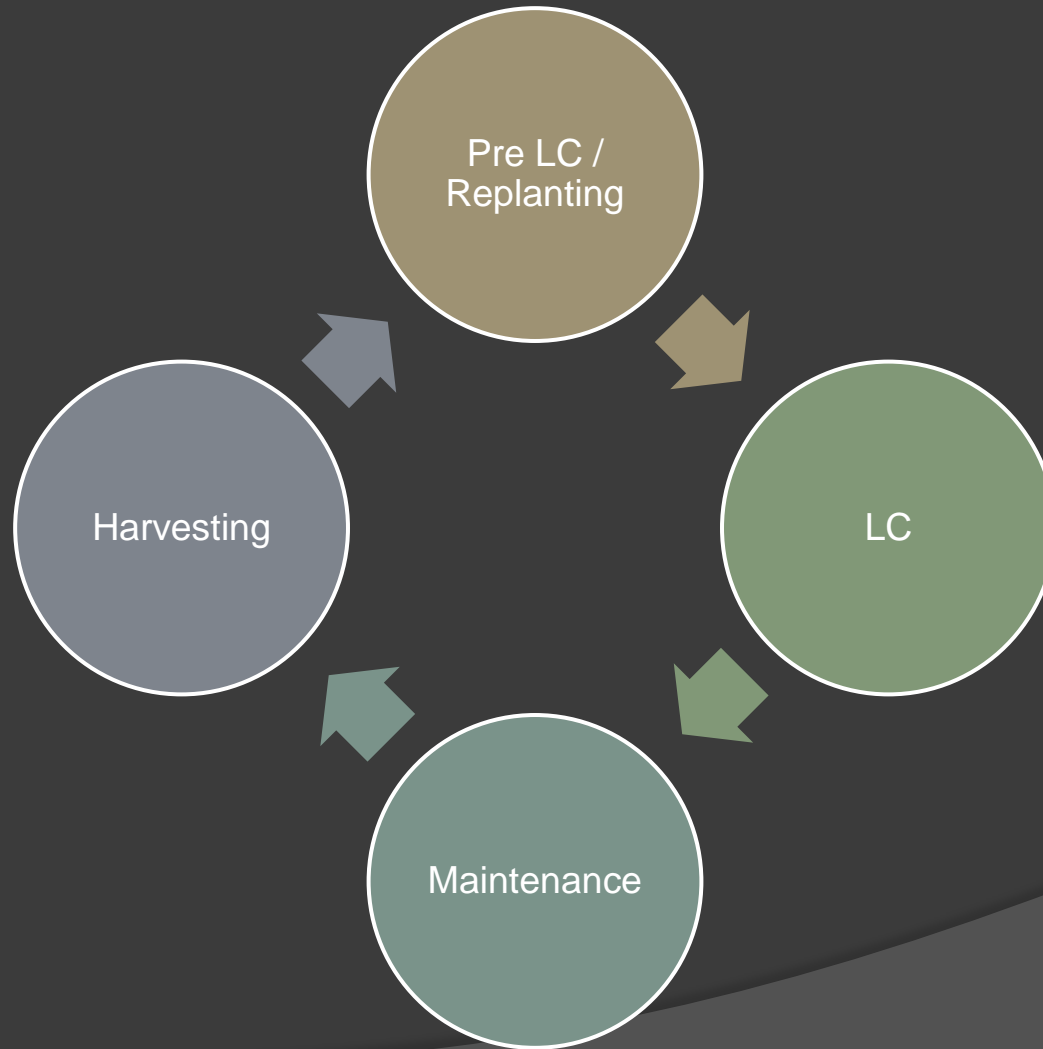


By. Susandi Kusuma

GEOSPATIAL APPLICATION FOR OIL PALM PLANTATION DEVELOPMENT CIRCLE

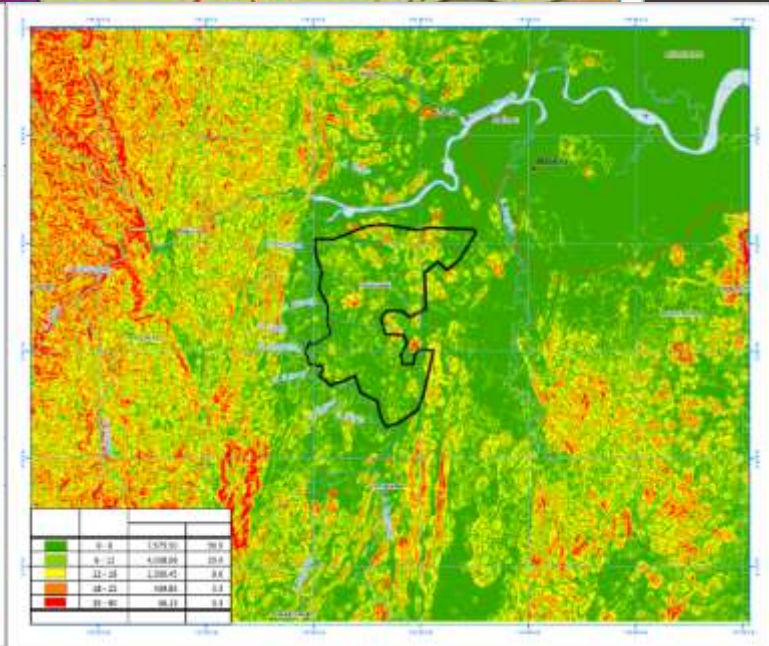
Plantation Development Circle



Desktop Analysis for Land Prospecting

- ① Location
- ① Topography
- ① Soil
- ① Rainfall
- ① Situation

Land Prospecting Map



Land Clearing

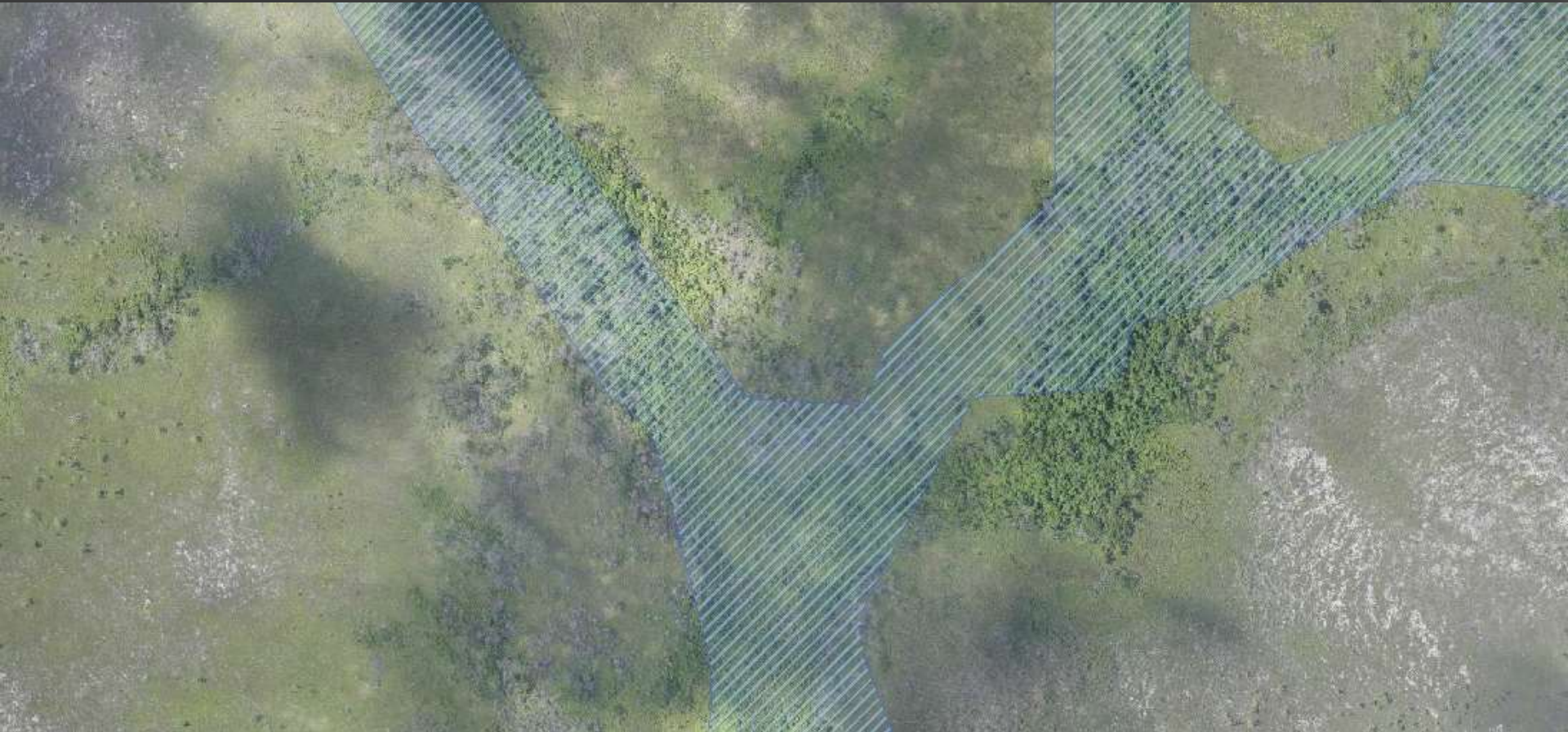
- Land History
- Plantation Layout Planning
- Land Clearing Monitoring
- Contract Claim Monitoring

Land Clearing



New Land

Land Clearing



Not Plantable

Land Clearing



Plan Road

Land Clearing



Plan Block

Land Clearing



Realization

Land Clearing



Realization

Inventory Mapping

- Planted Area
- Total of Palm & Stand Per Hectare
- Road Network
- Drainage Network

Inventory Mapping



Inventory Mapping



Boundary Verification

Inventory Mapping



Road Mapping

Inventory Mapping



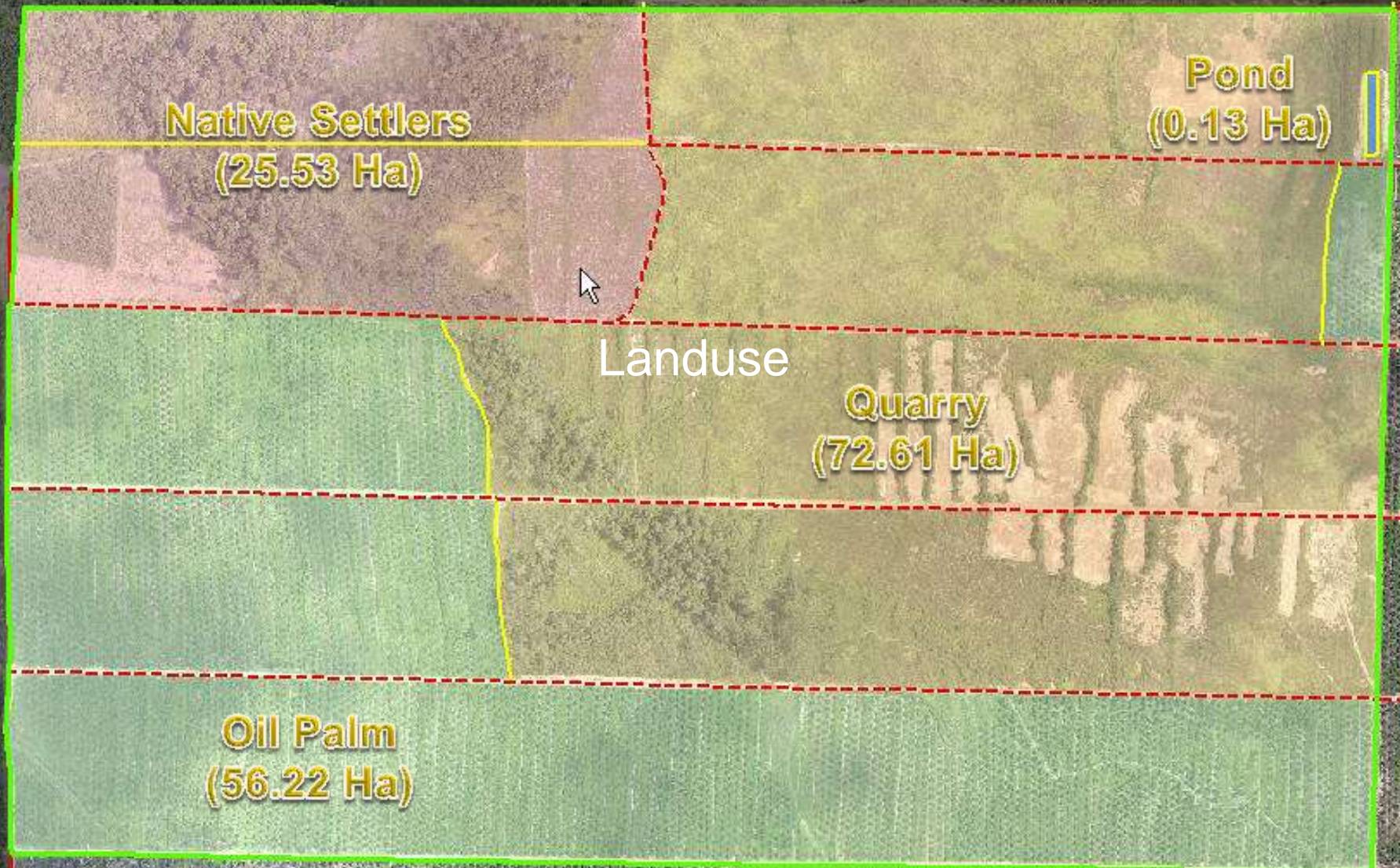
Block Boundary

Inventory Mapping

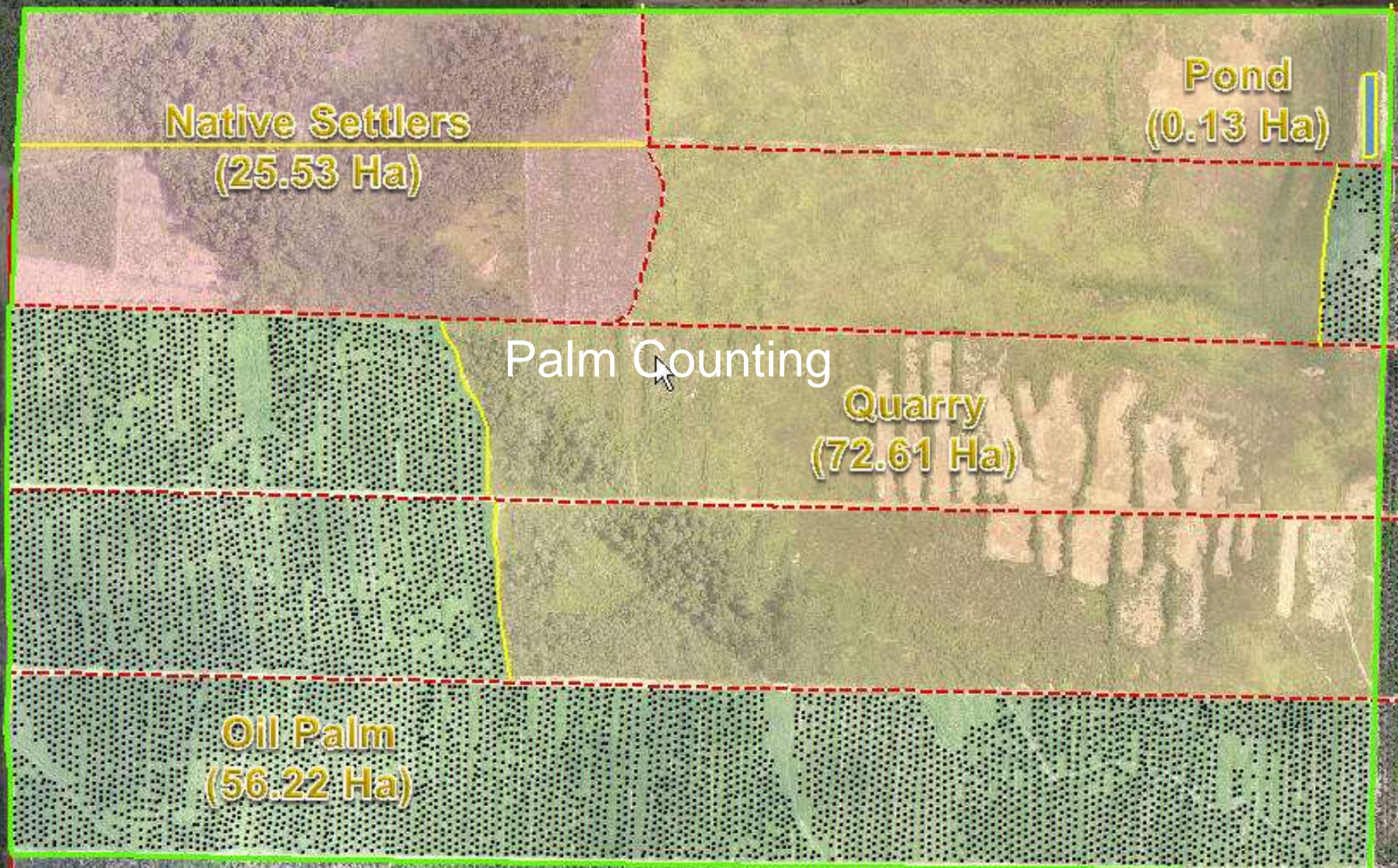


GPS Replacement
(On Screen Digitizing)

Inventory Mapping

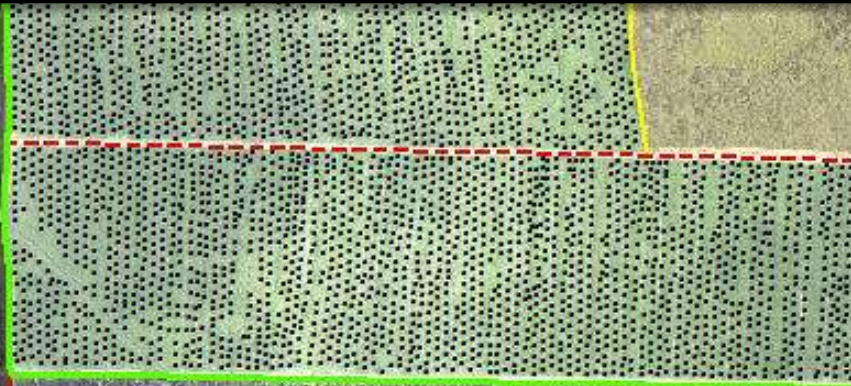
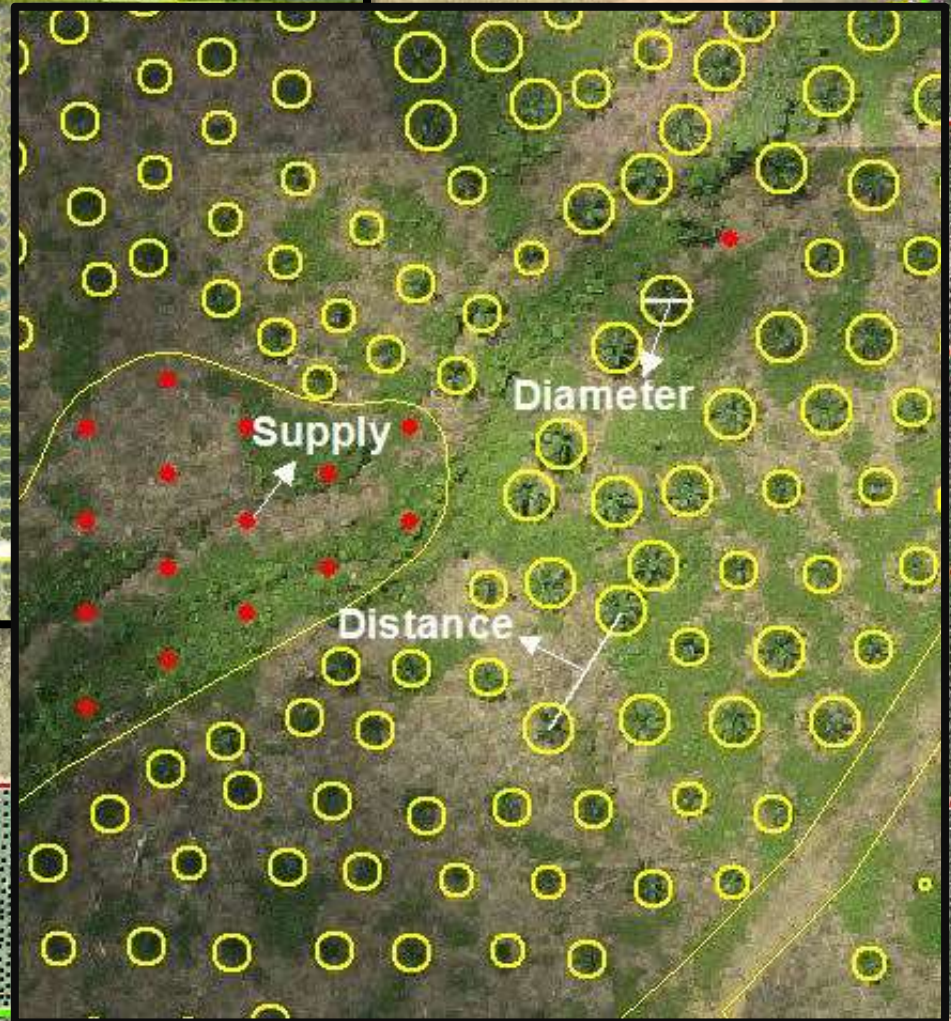


Inventory Mapping



Inventory Mapping

Palm Counting



Division : 3
 Ownership Status : PLASMA
 Month Planted : 04, 2007
 Survey Stage : 8
 Material : Lonsum

BLOCK DETAIL MAP
PT. JAYA MAJU MAKMUR
 Kelontan Estate



Block:
B042



Planting Variance			
Type	Survey	Existing	Var.
Planted	11,08	18,00	-4,94
Palm Count	1,800	1,818	-312
SPH	145	120	25

Estimate Vacant Points	
Vacant Point	108
SPH	185

Canopy Size (TH HM)		
Canopy Size	Qty	%
1 meter	0	0
2 meter	0	0
3 meter	0	0
4 meter	0	0
5 meter	1	0
6 meter	2	0
7 meter	1	0
8 meter	14	1
9 meter	78	5
>9 meter	1,507	94
Total	1,800	100

Landuse Classification	
Landuse	No.
Planted	11,08
Vacant	0
Forest	0
Bare Soil	0
Shrub	0
Nursery	0
Emplacement	0
Quarry	0
Road	0.87
Native Gardens	0
Encroachment	0
Settlement	0
Cultivated Area	0
Other Oil Palm	0
Pond	0
Total	11,83

Accept Reuse

CC by:

Approve by:

Update by:

Block Detail Map

Evaluation & Follow Up Action Map



Parameters	Follow Up Action
Block Boundary	<input type="checkbox"/> Revise <input type="checkbox"/> Boundary Survey
Supply	<input type="checkbox"/> Supply <input type="checkbox"/> In Filling
Flood	<input type="checkbox"/> New Drain <input type="checkbox"/> Desilting
Cover Crop	<input type="checkbox"/> Replanting <input type="checkbox"/> Manuring
Yellow Palm	<input type="checkbox"/> Manuring <input type="checkbox"/> Drainase
Conservation	<input type="checkbox"/> Pegging
Road	<input type="checkbox"/> New Road <input type="checkbox"/> Road Surfacing

Enterprise GIS

- Survey Job Management
- Oil Palm Harvesting
- Online Map
- Mobile Application

Online Map Select Area

BANDAR PINANG ESTATE | PRODUCTION -> YIELD THIS MONTH -> JANUARY 2013

SELECT AREA

Region: REGION 1 - SUMATERA UTARA

Company: PT. BANDAR SUMATERA INDONE

Estate: BANDAR PINANG ESTATE

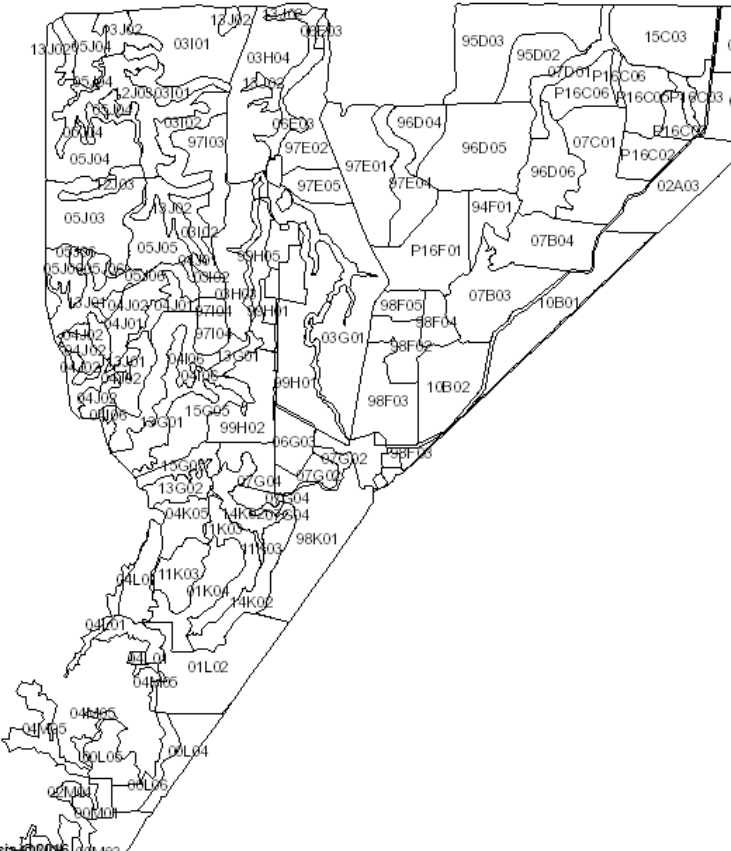
Select

LEGEND

Best View Using Google Chrome - Online Map Sipef v1.0.1, Made By Sipef Indonesia

Online Map Theme & Sub Theme

BANDAR PINANG ESTATE | PRODUCTION -> YIELD THIS MONTH -> JANUARY 2013



SELECT BLOCK VERSION

Block Version: 2016

Block version: Indicated year version of block, you must select the block version to combine with your query

THEME SELECTION

Oil Palm: || Rubber:

Theme: PRODUCTION

Sub Theme: **YIELD THIS MONTH**

Period: YTM BUDGET VS ACTUAL

Month: JANUARY Year: 2013

Query

Note:
Don't forget to select Estate Commodity (Oil Palm or Rubber) for every query you perform.

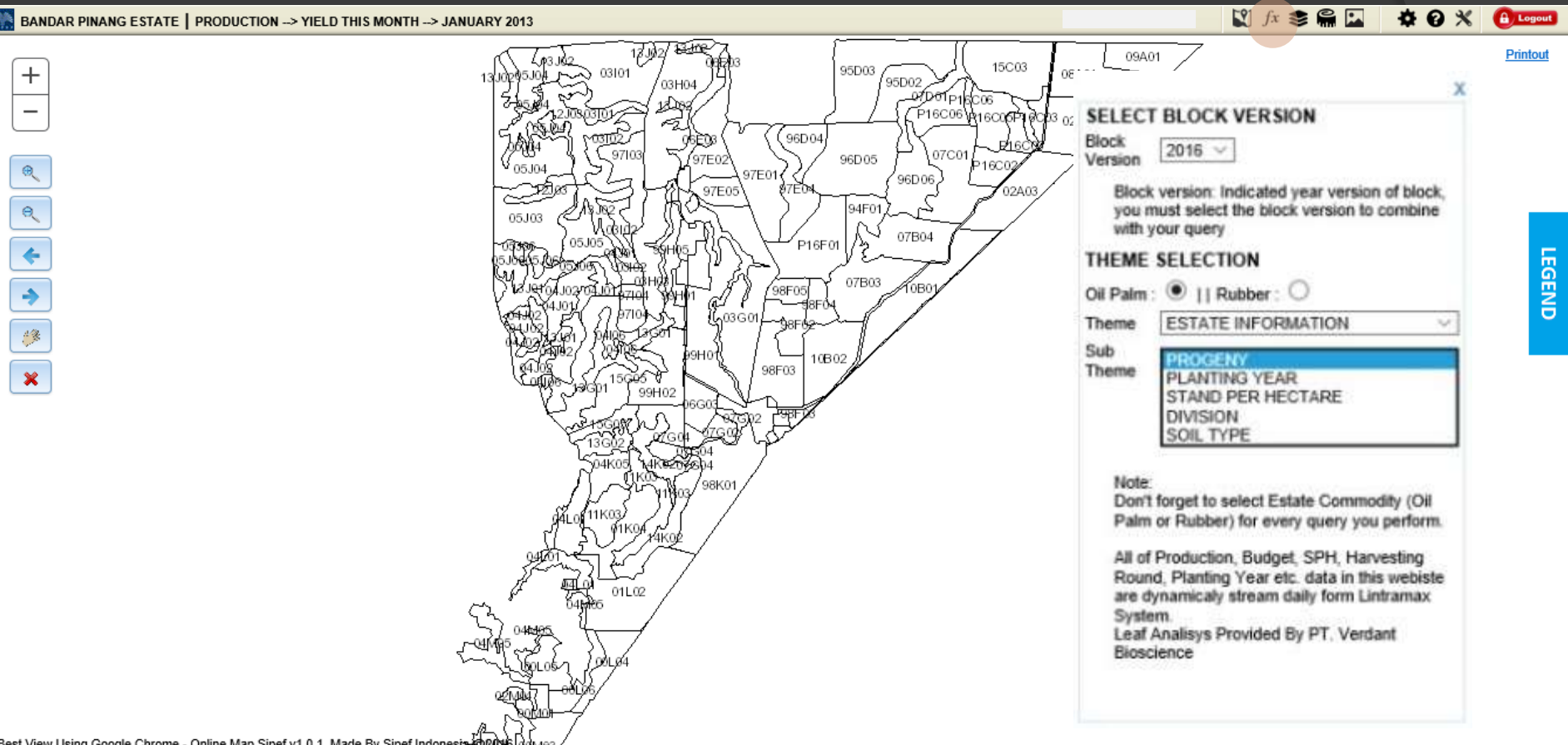
All of Production, Budget, SPH, Harvesting Round, Planting Year etc. data in this website are dynamically stream daily form Lintramax System.
Leaf Analysis Provided By PT. Verdant Bioscience

LEGEND

Best View Using Google Chrome - Online Map Sipef v1.0.1, Made By Sipef Indonesia

Online Map Theme & Sub Theme

BANDAR PINANG ESTATE | PRODUCTION -> YIELD THIS MONTH -> JANUARY 2013



SELECT BLOCK VERSION
Block Version: 2016

Block version: Indicated year version of block, you must select the block version to combine with your query

THEME SELECTION
Oil Palm: || Rubber:

Theme: ESTATE INFORMATION

Sub Theme:
PROGENY
PLANTING YEAR
STAND PER HECTARE
DIVISION
SOIL TYPE

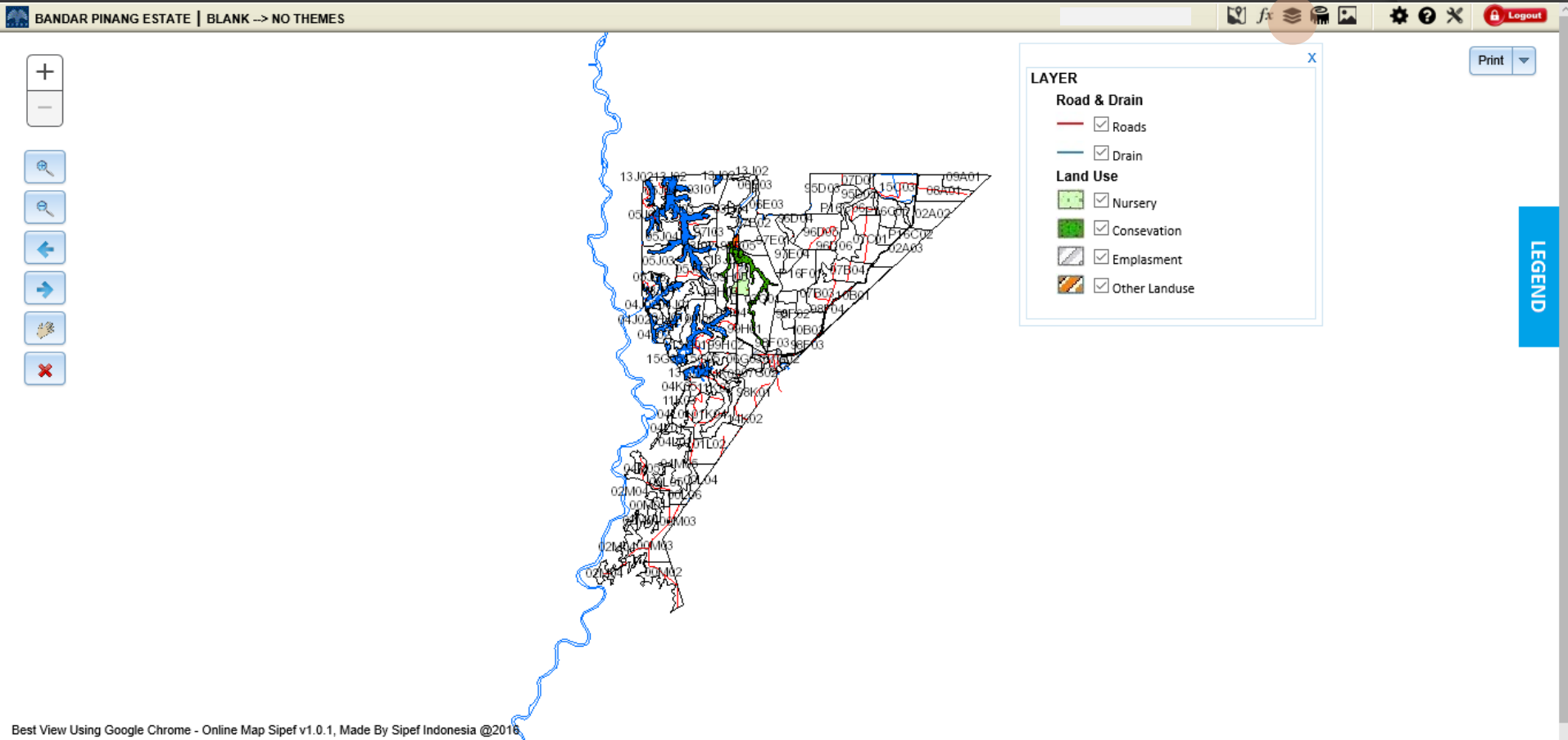
Note:
Don't forget to select Estate Commodity (Oil Palm or Rubber) for every query you perform.

All of Production, Budget, SPH, Harvesting Round, Planting Year etc. data in this website are dynamically stream daily form Lintramax System.
Leaf Analysis Provided By PT. Verdant Bioscience

Best View Using Google Chrome - Online Map Sipef v1.0.1, Made By Sipef Indonesia

Online Map Layers

BANDAR PINANG ESTATE | BLANK --> NO THEMES



The screenshot displays a web-based map application. The main map area shows a detailed layout of roads (red lines) and drains (blue lines) within a triangular-shaped estate. Land use is indicated by different colors: green for nurseries, dark green for conservation, grey for emplasment, and orange for other land use. The map is overlaid with a grid of alphanumeric coordinates. On the left side, there is a vertical toolbar with icons for zooming in (+), zooming out (-), search (magnifying glass), pan (arrows), and a close button (X). On the right side, a 'LAYER' window is open, listing the following layers and their status:

Category	Layer Name	Status
Road & Drain	Roads	<input checked="" type="checkbox"/>
	Drain	<input checked="" type="checkbox"/>
Land Use	Nursery	<input checked="" type="checkbox"/>
	Consevation	<input checked="" type="checkbox"/>
	Emplasment	<input checked="" type="checkbox"/>
	Other Landuse	<input checked="" type="checkbox"/>

Below the map, there is a footer text: "Best View Using Google Chrome - Online Map Sipef v1.0.1, Made By Sipef Indonesia @2016".

LEGEND

Online Map Imagery

BANDAR PINANG ESTATE | BLANK --> NO THEMES

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📍 fx 🗄️ 🗺️ 🖨️ ⚙️ ? ✂️ Logout

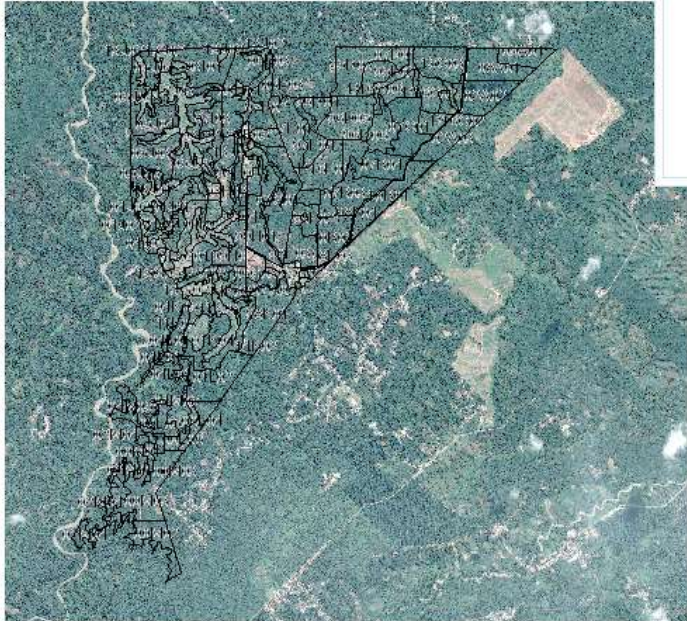
Print

IMAGERY

Sattelite Imagery

Geo EYE - July 2014

Note:
To look the Imagery clearly without disturb by any color, please select blank theme from function theme-->blank-->no theme



LEGEND

Online Map Block Information

BUKIT MARADJA ESTATE | BLANK -> NO THEMES

Print

LEGEND

Information Windows

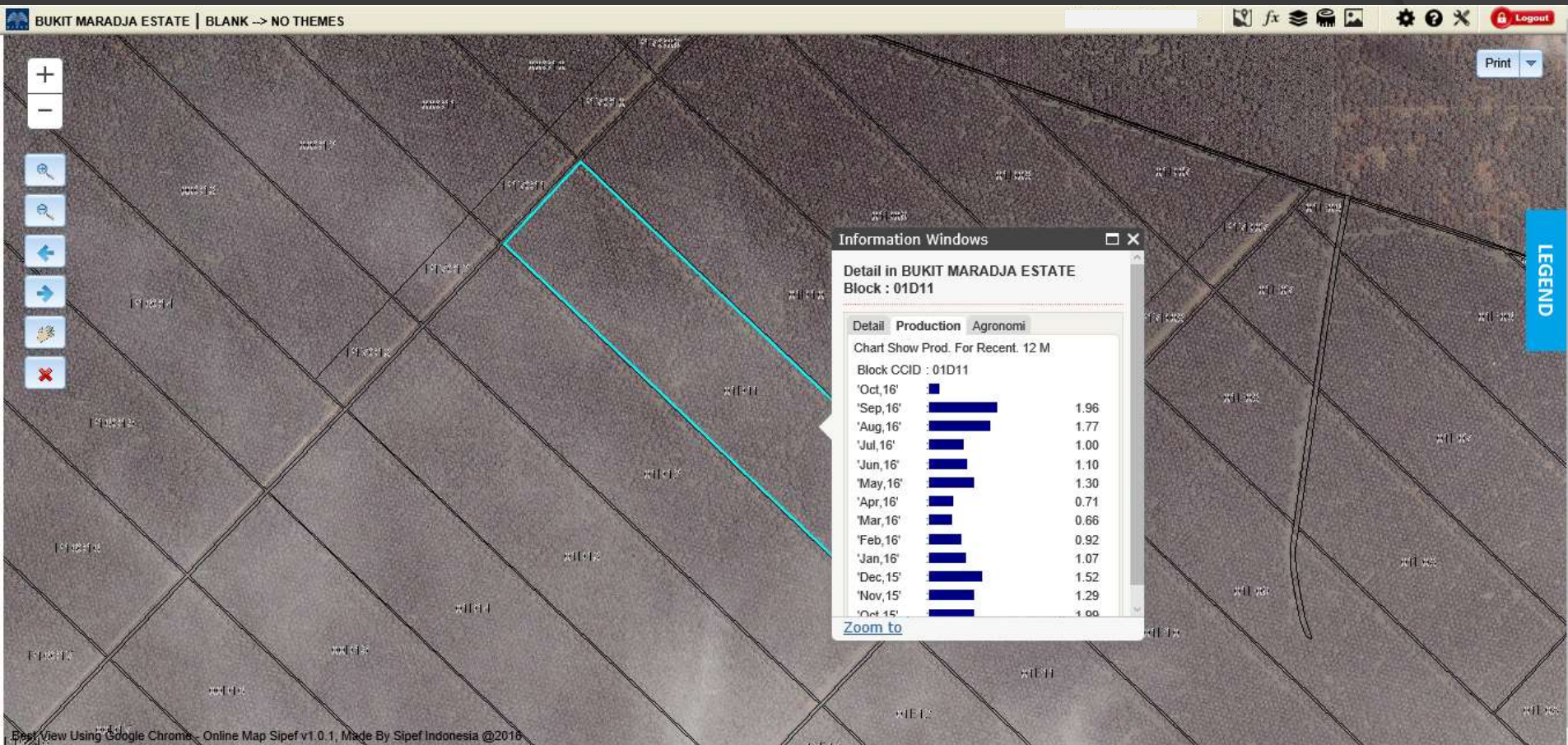
**Detail in BUKIT MARADJA ESTATE
Block : 01D11**

Detail	Production	Agronomi
Estate Name	: BUKIT MARADJA ESTATE	
Division	: DIVISION NO.04	
Block CCID	: 01D11	
Block Size (Ha)	: 19.38	
Planting Material	: BLRS	
Planted Year	: 2001	
Total Stand	: 1222	
Stand perHa	: 63	
Maturity Status	: MATURE	
NO THEMES		
Block CCID	: undefined	
NO THEMES	: undefined	

[Zoom to](#)

Best View Using Google Chrome - Online Map Sipef v1.0.1, Made By Sipef Indonesia @2016

Online Map Block Information



Online Map Block Information

The screenshot displays a web-based map interface for 'BUKIT MARADJA ESTATE'. The map shows a grid of land blocks, with one block highlighted in cyan. An 'Information Windows' popup is open, providing details for 'Block : 01D11'. The popup includes tabs for 'Detail', 'Production', and 'Agronomi'. The 'Agronomi' tab is active, showing soil type, terrain, and harvest category. Below this, a 'Leaf Analisis' section lists various nutrient levels and their status, each accompanied by a color-coded square.

BUKIT MARADJA ESTATE | BLANK → NO THEMES

Print

LEGEND

Information Windows

Detail in BUKIT MARADJA ESTATE
Block : 01D11

Detail Production Agronomi

Lintramax Agronomy

Soil Type : MINERAL SOIL
Terrain : FLAT AREA
Harvest Category : NORMAL PALM

Leaf Analisis

N_ACTUAL	: 2.78 %	■
P_ACTUAL	: 0.153 %	■
K_ACTUAL	: 0.84 %	■
MG_ACTUAL	: 0.22 %	■
B_ACTUAL	: 9.6 ppm	■
N_STATUS	: E	■
P_STATUS	: O	■
K_STATUS	: O	■
MG_STATUS	: E	■

[Zoom to](#)

Best View Using Google Chrome - Online Map Sipef v1.0.1, Made By Sipef Indonesia @2016

Mobile App Field Statistics

Main Menu

Field Statistics

Harvest Management

Maps

Change Area

Home

Logout

Field Statistics

Harvesting Statistics

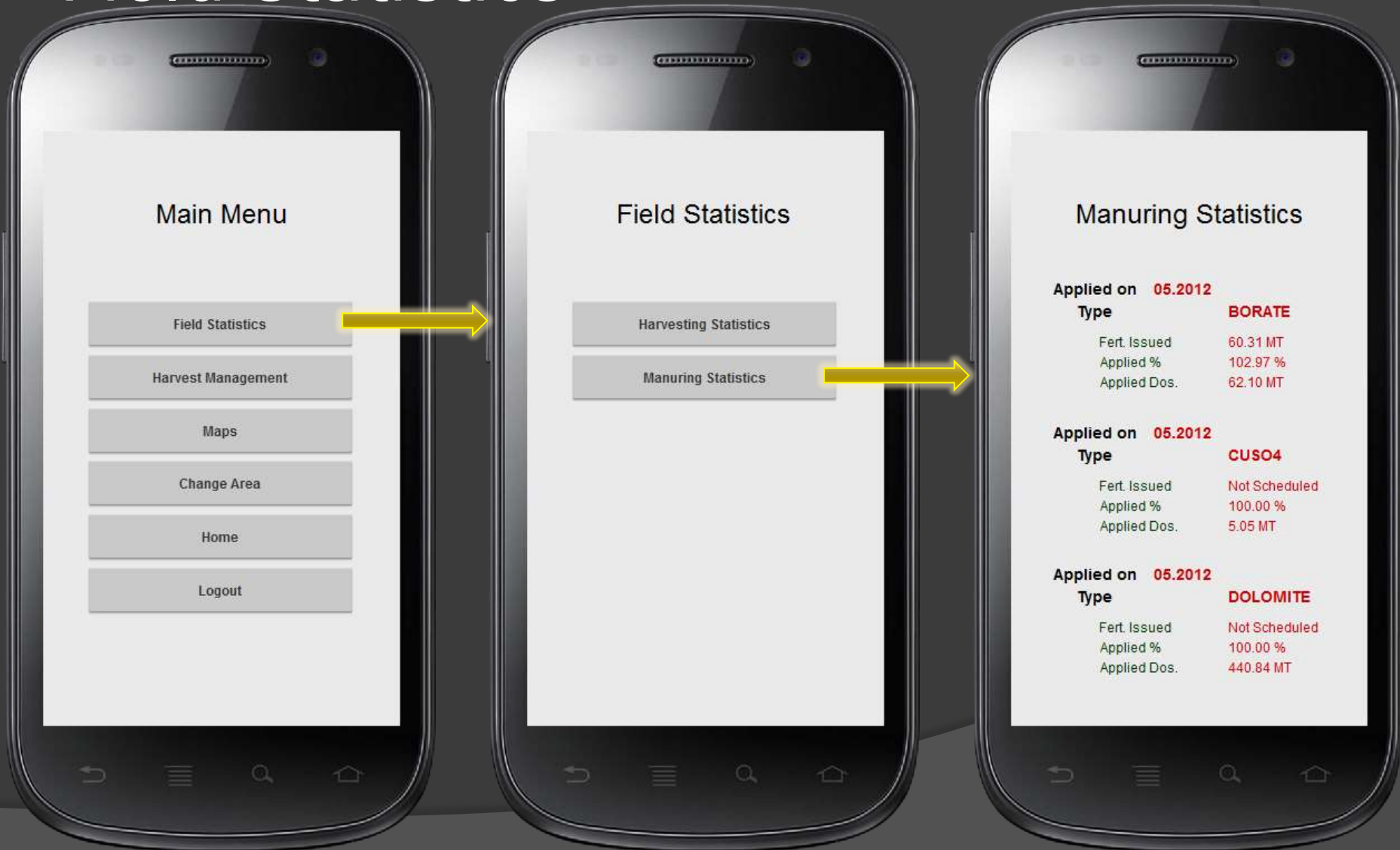
Manuring Statistics

Field Statistics

Harvesting Statistics

Month	FFB (Mt)	Yield (Ha)
05.2012	21,054.76	13.05
04.2012	20,409.40	12.65
03.2012	11,858.43	7.35
02.2012	9,357.67	5.80
01.2012	4,130.28	2.56

Mobile App Field Statistics



Mobile App Harvest Management

Main Menu

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Maps

Change Area

Home

Logout

Harvest Management

Todate Restan

Restan Aging

Month To Date FFB Production

FFB Delivered Days

Harvest Management

Todate Restan

Days	Bunches	MT
36	33	0.19
34	55	0.33
32	58	0.19
31	151	0.74
30	94	0.43
29	550	2.62
28	2,650	12.72
18	628	4.70
17	2,475	17.08
15	100	0.64
13	58	0.18
11	525	2.75

Mobile App Harvest Management

Main Menu

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Home

Logout

Harvest Management

Todate Restan

Restan Aging

Month To Date FFB Production

FFB Delivered Days

Harvest Management

Restan Aging

Last Data Update : **05/07/2012**

Total Restan : **85,567 Bunches**

Days	Bunches	MT
36	33	0.19
34	55	0.33
32	58	0.19
31	151	0.74
30	94	0.43
29	550	2.62
28	2,650	12.72
18	628	4.70

Mobile App Harvest Management

Main Menu

Field Statistics

Harvest Management

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Change Area

Home

Logout

Harvest Management

Todate Restan

Restan Aging

Month To Date FFB Production

FFB Delivered Days

Harvesting Management

Month To Date FFB Production

Delivered

Last Data Update : 14/05/2012

Date	: 14/05/2012
Today	: 741.84 MT
Month To Date	: 6,622.05 MT
Year To Date	: 61,176.38 MT

Mobile App Harvest Management

Main Menu

Field Statistics

Harvest Management

Maps

Change Area

Home

Logout

Harvest Management

Todate Restan

Restan Aging

Month To Date FFB Production

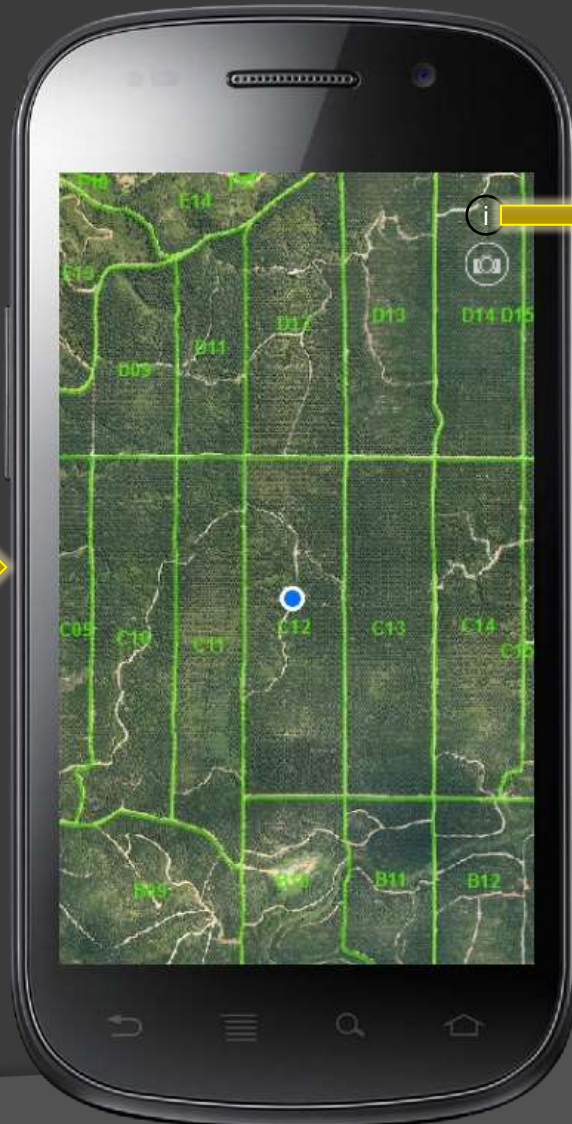
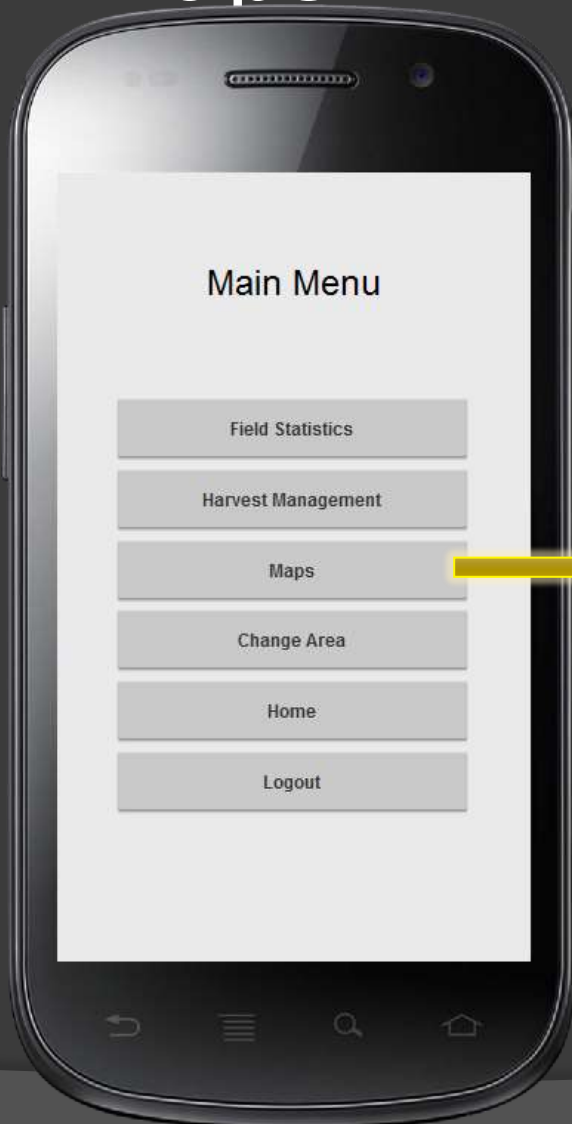
FFB Delivered Days

Harvesting Management

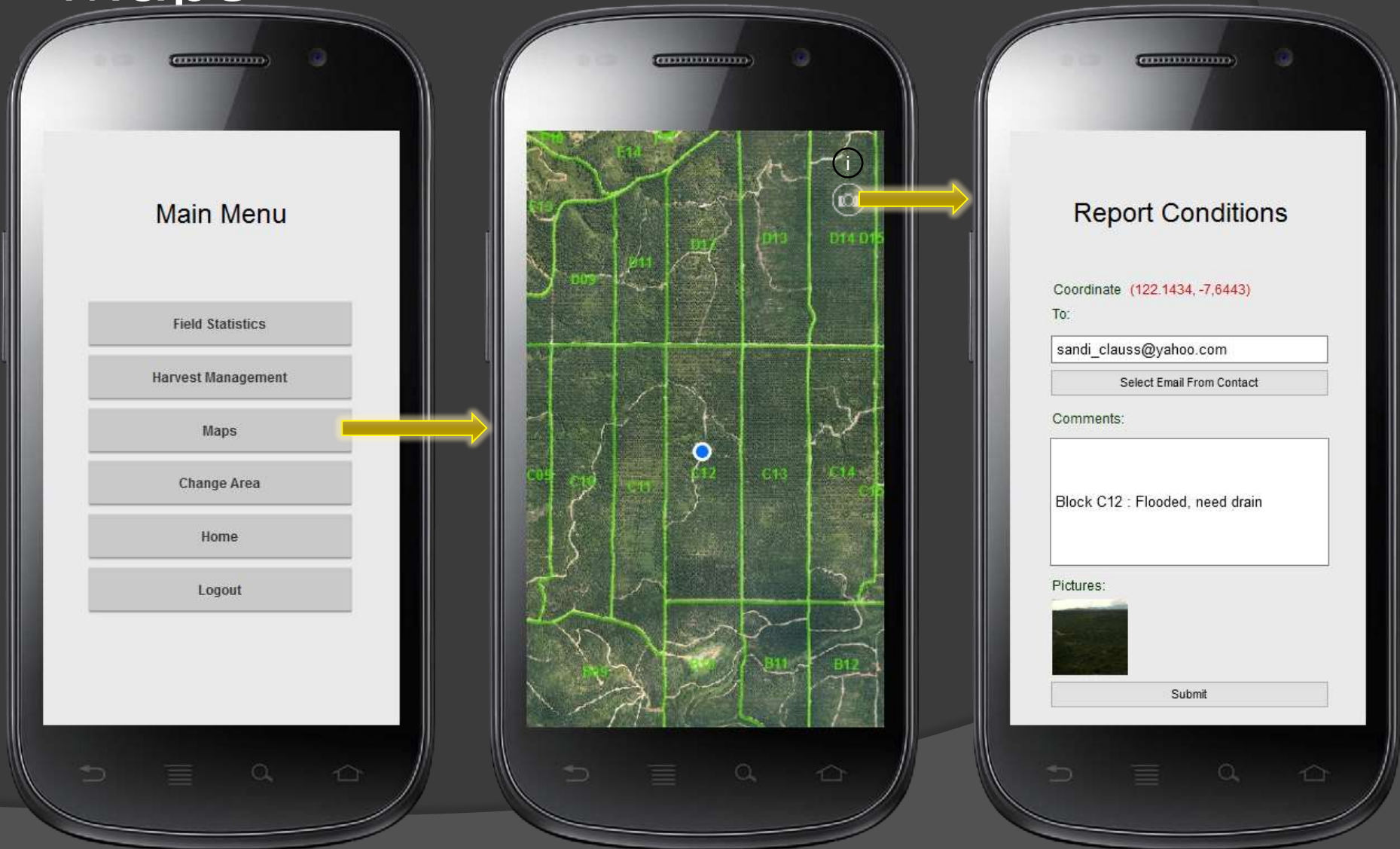
FFB Delivered Days

Category	Mass (Kg)	Percentage (%)
0 Days	265,516	58.9
1 Days	177,120	39.3
2 Days	8,049	1.8
3 Days	2,234	4.5

Mobile App Maps



Mobile App Maps



Thank You

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