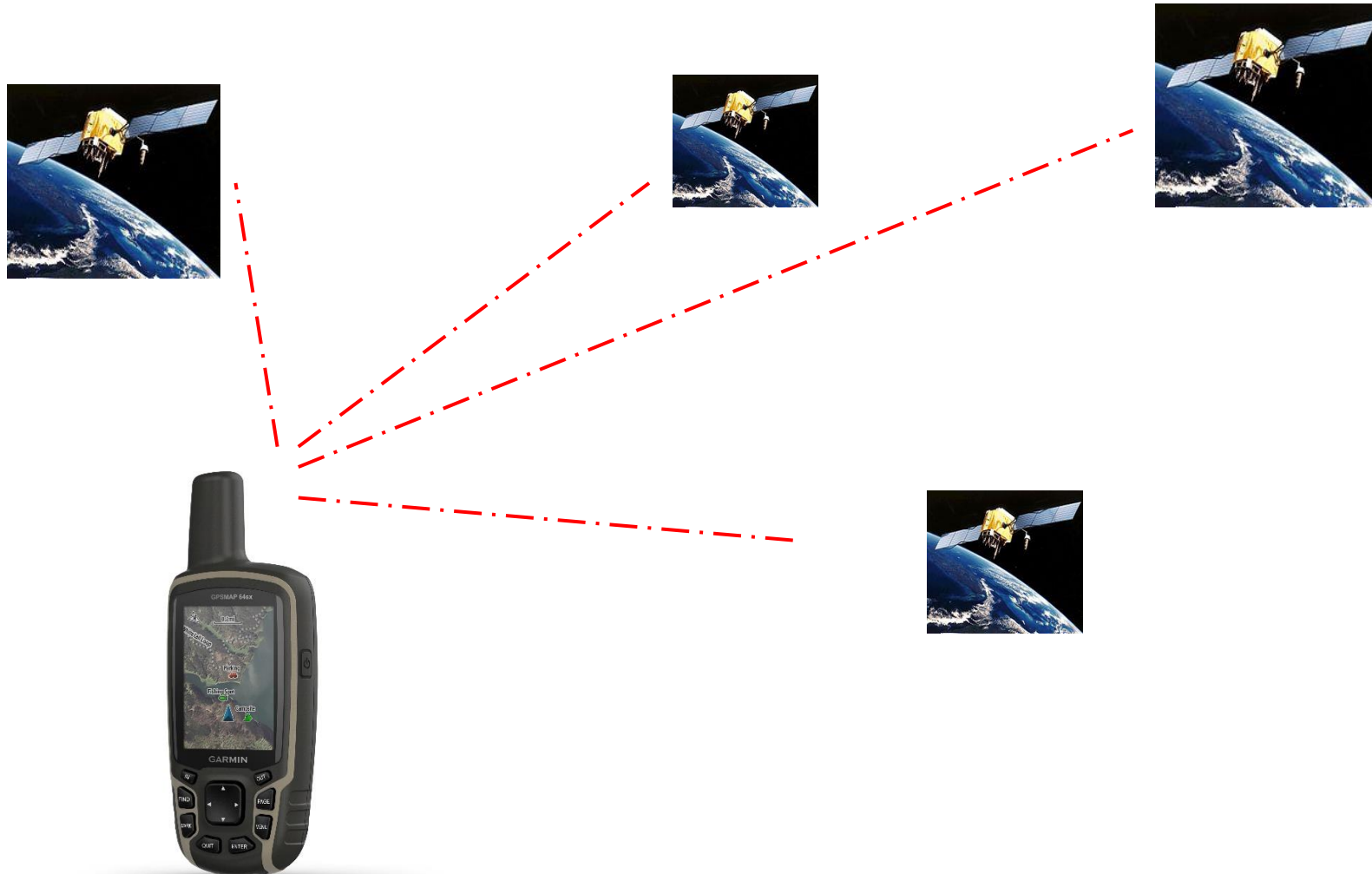
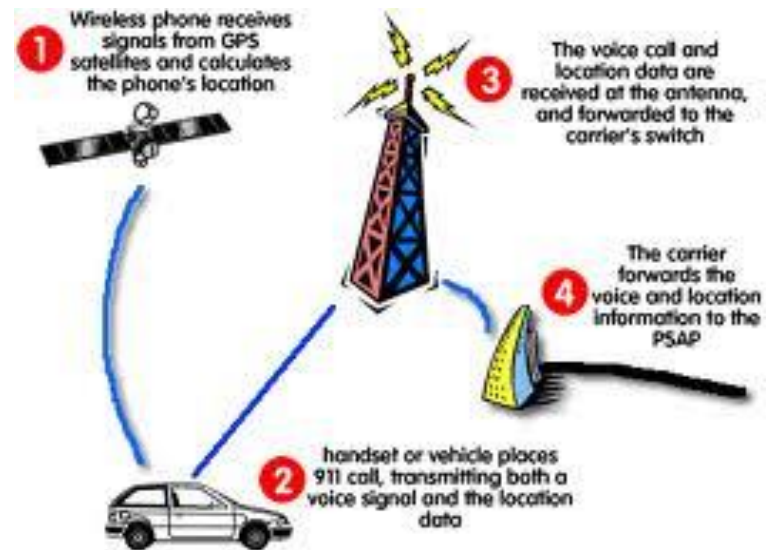
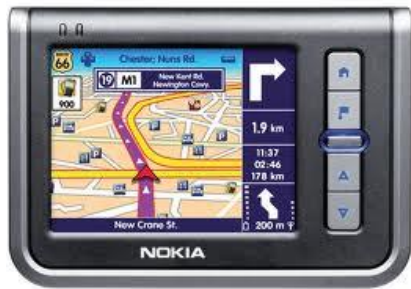


GPS Boundary Survey & Mapping



Global Positioning System (GPS)

- Unit that utilises Satellite Signals to pinpoint location on the earth.
- Technology used in Surveying, Telecommunication, Aviation, Shipping, and other many applications.
- It replaces chain and compass surveying.
- It makes surveying more efficient, easy and faster.



PROJECT GPS Default SETTING

- Distance in Metres and.
- Area in Hectares.
- DATUM should be set to WGS 84'.
- PROJECTION is set for Universal Transverse Mercator (UTM).

Data Collection

- Get geographical references(coordinates) of Location
 - Latitude (easting) and Longitude (northing)
- Elevation (height above sea level)
- Date
- Make WAYPOINTS

Make Waypoints

- Acquire satellite signal (3 or more is sufficient)
- Press “Mark”
- Fill in Details by punching in letters
- Scroll through and verify
- Store by pressing “OK”

Some Challenges of GPS

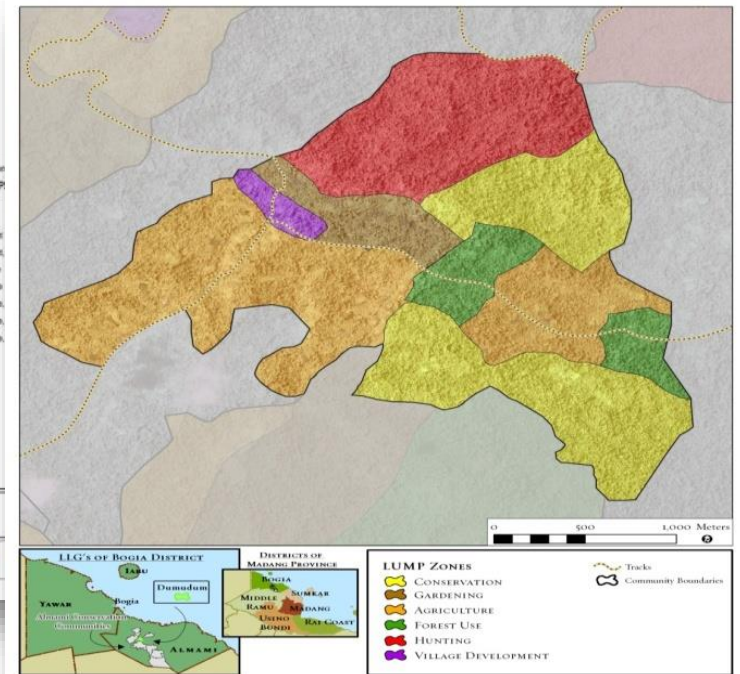
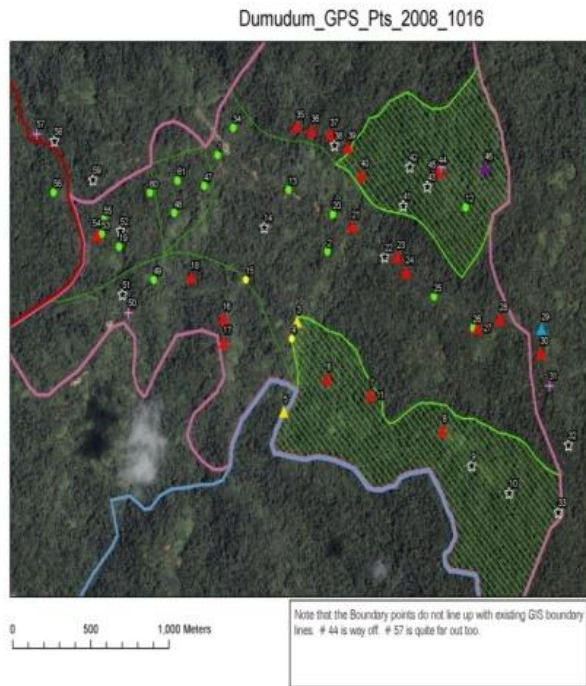
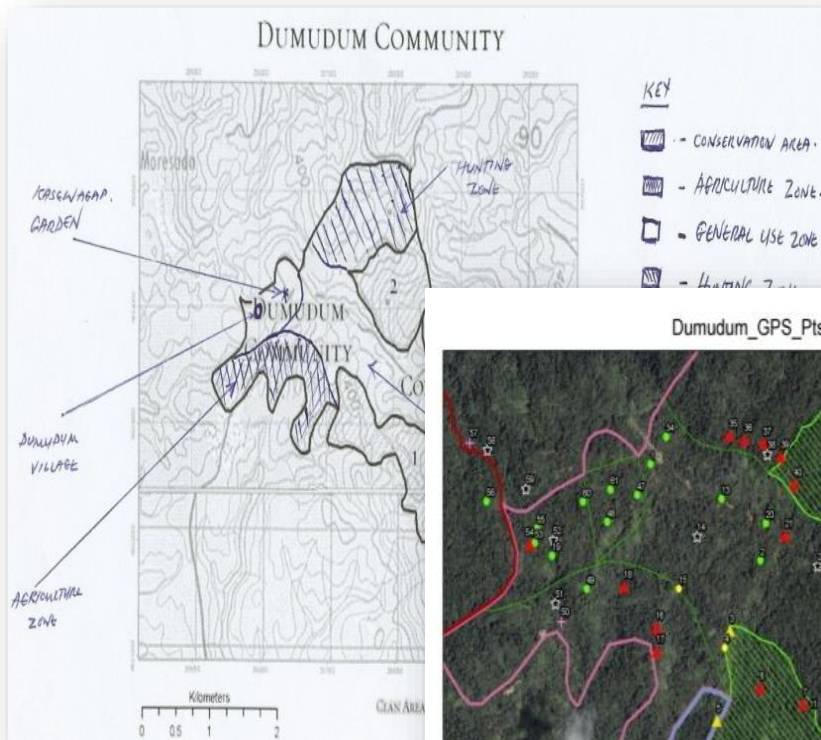
- Thick canopy
- Thick cloud cover
- Standing close to metallic objects.
- In creek beds with inclines on both sides.

You can access signal from a good position and walk to location, Climb trees and wait for signal to be acquired (however long) and walk away from metallic objects.

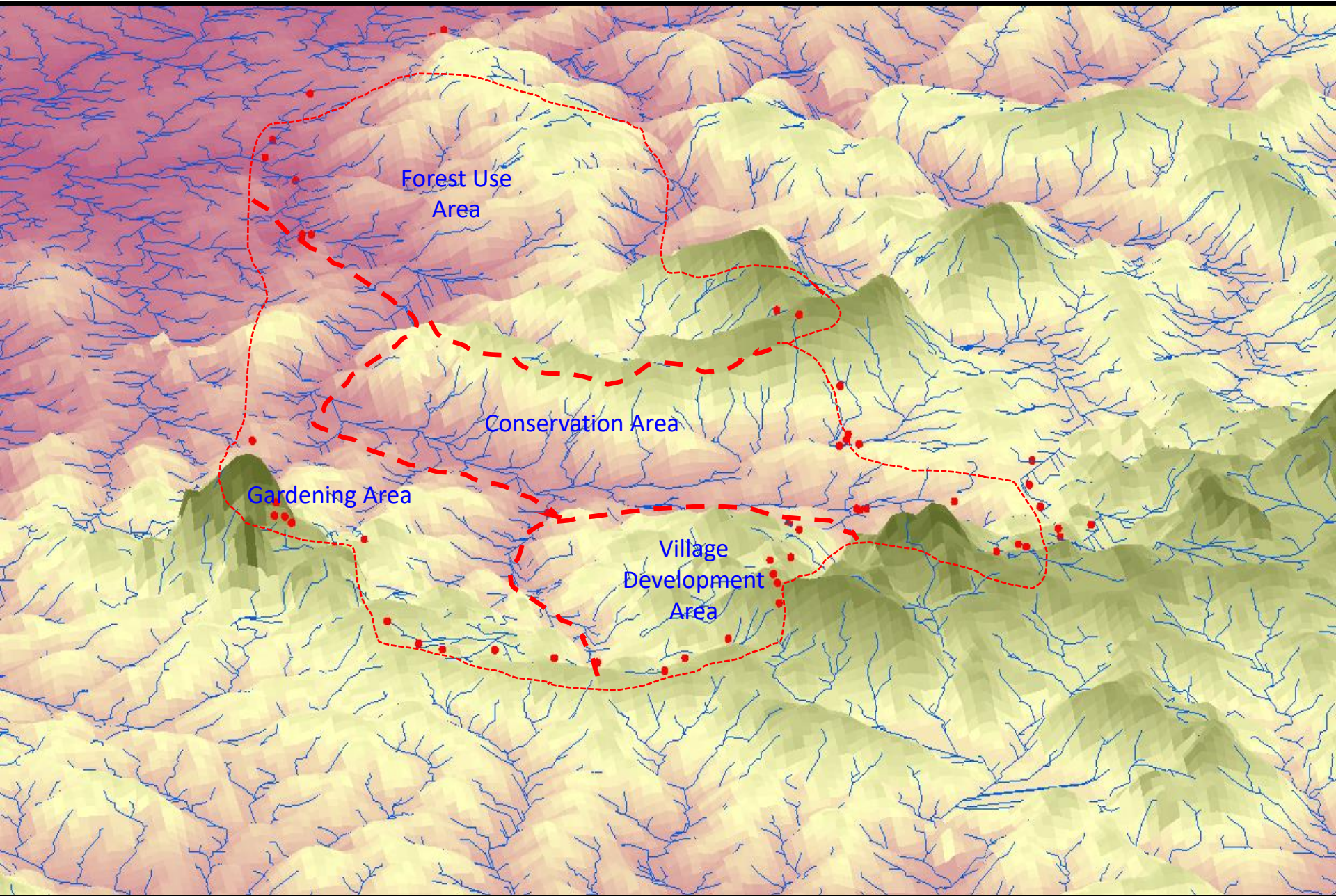
Community/Ward Boundary Demarcation and Land Use Planning

Tools Used

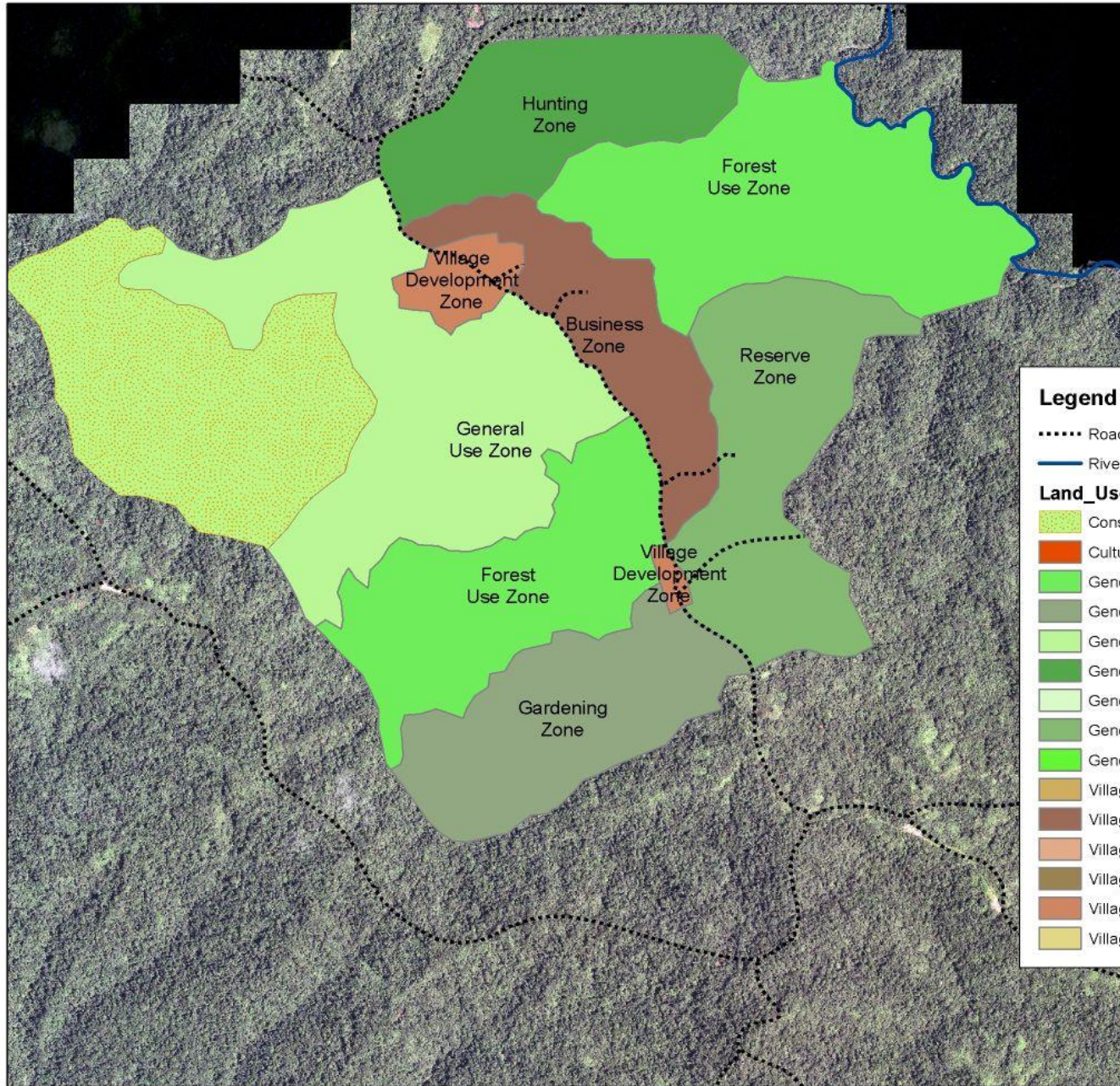
- Participatory sketch mapping.
- GPS data collection.
- Basic Spatial Analysis and GeoProcessing (GIS)



Community Land-use Map



Avipa Clan Land Use DRAFT

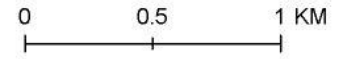


Legend

- Roads
- Rivers

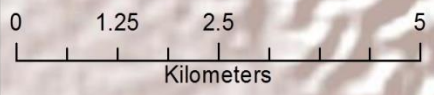
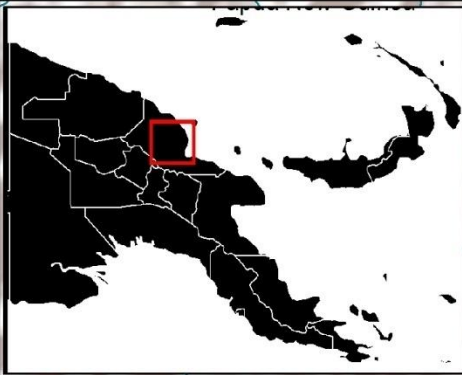
Land_Use, Land_Use_2

- Conservation , <Null>
- Culture , Sacred Site
- General Use , Forest Use Zone
- General Use , Gardening Zone
- General Use , General Use Zone
- General Use , Hunting Zone
- General Use , Hunting Zone / Reserve Zone
- General Use , Reserve Zone
- General Use , Village Development Zone, Business Zone
- Village Development , Agricultural Zone
- Village Development , Business Zone
- Village Development , Cash Cropping
- Village Development , Settlement
- Village Development , Village Development Zone
- Village Development , Village Development Zone, Business Zone



Map by Nate Peterson
 The Nature Conservancy
 Pacific Island Countries Program
 17 July, 2008

WANANG LAND USE MAP



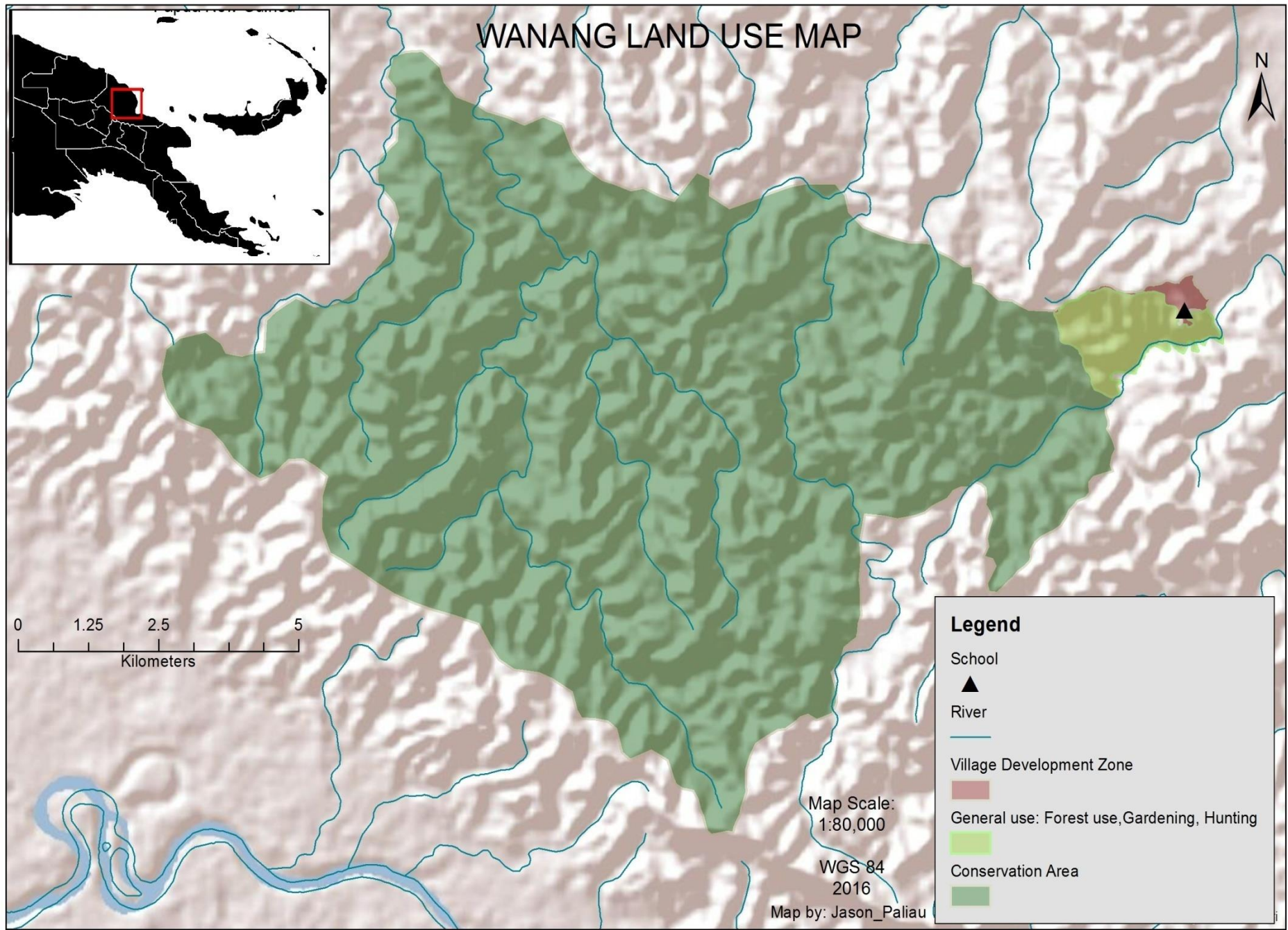
Legend

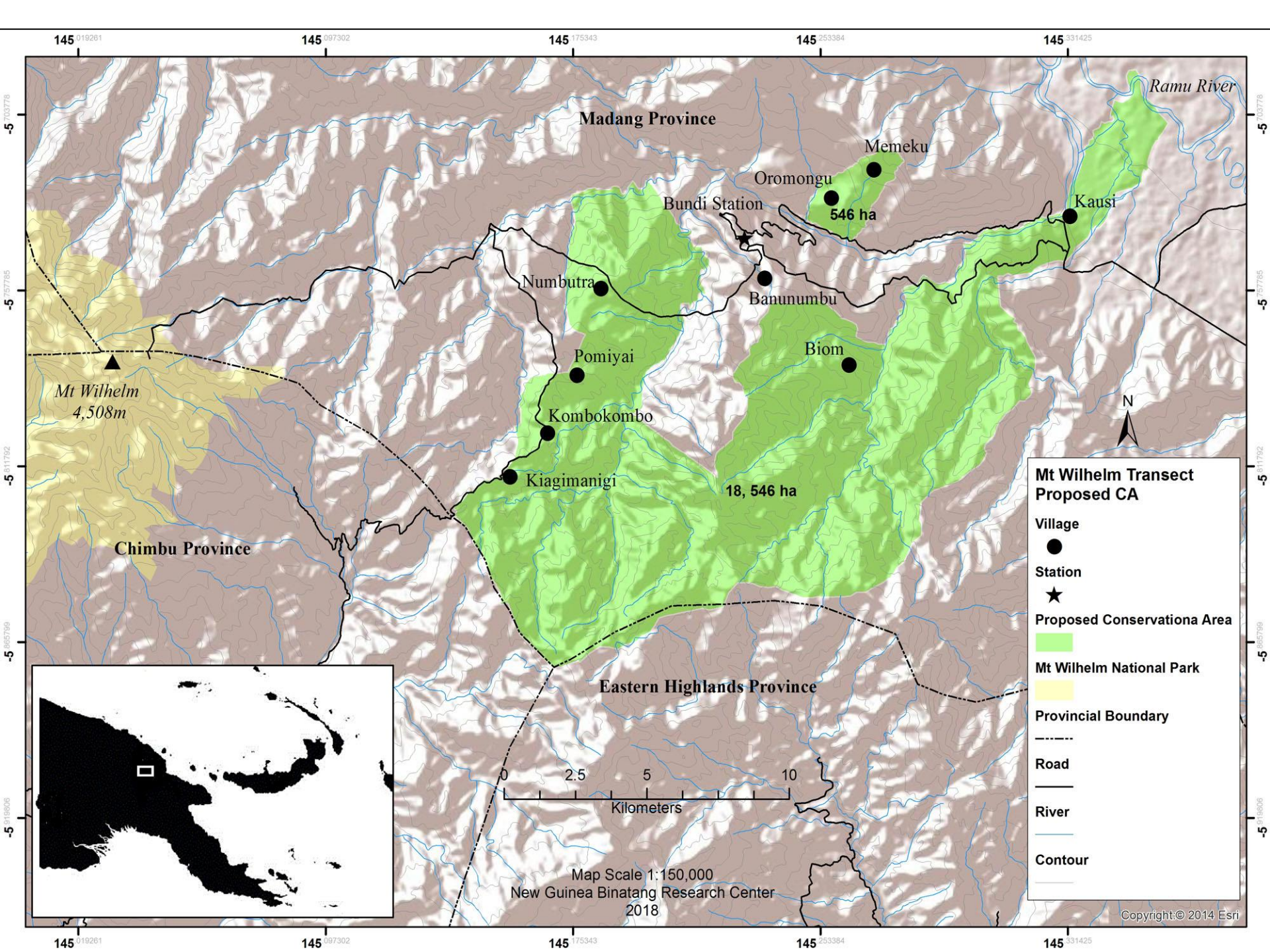
- School ▲
- River —
- Village Development Zone ■
- General use: Forest use, Gardening, Hunting ■
- Conservation Area ■

Map Scale:
1:80,000

WGS 84
2016

Map by: Jason_Paliau





Em Tasol!