Developing exposure database

Data Needed:

- Administrative boundary (Admin_Madang_GCS.shp)
- Buildings (Buildings_Madang_PM.shp)
- Critical facilities (Health2011_ONG_GCS.shp,

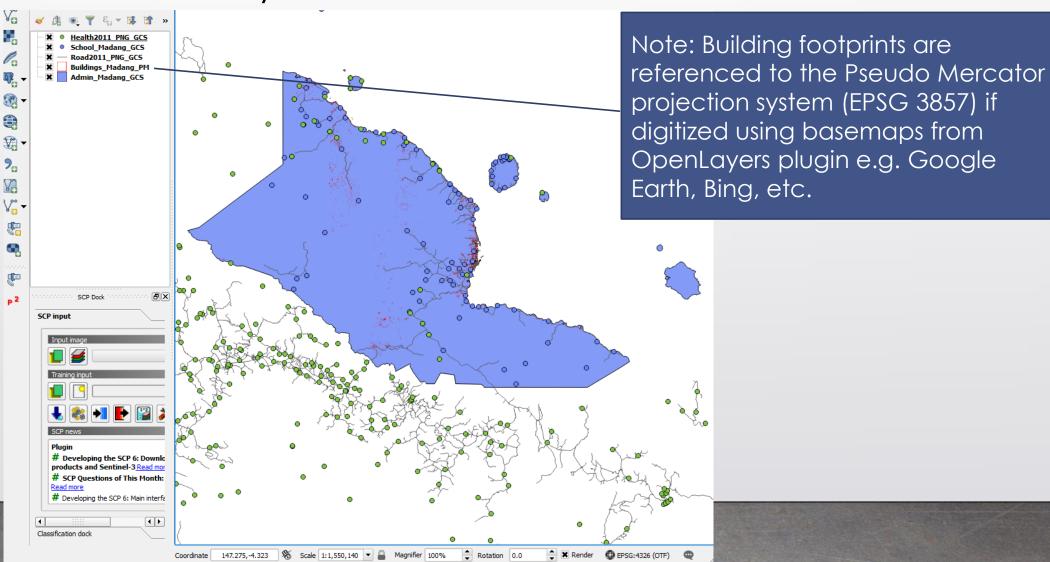
Road 2011_PNG_GCS.shp,

School_Madang_GCS.shp)

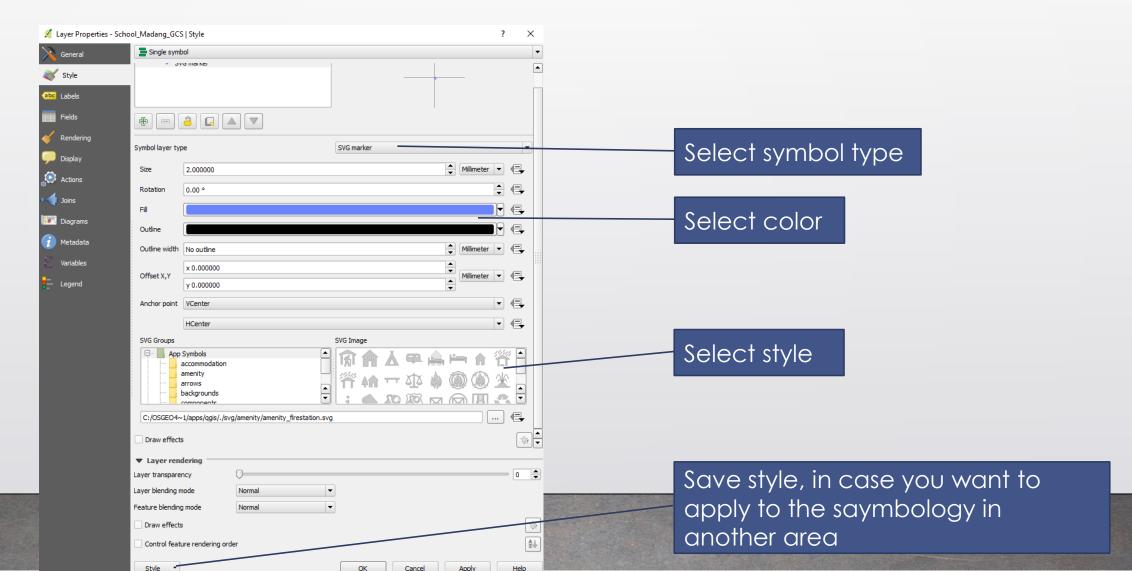
Plugin Needed:

OpenLayers

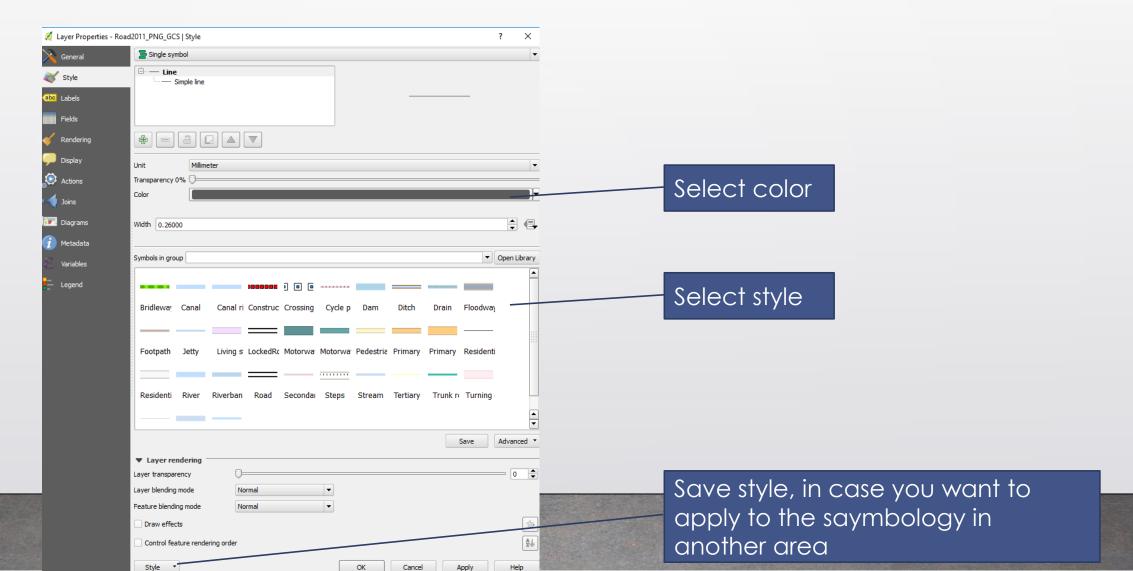
1. Load all data layers



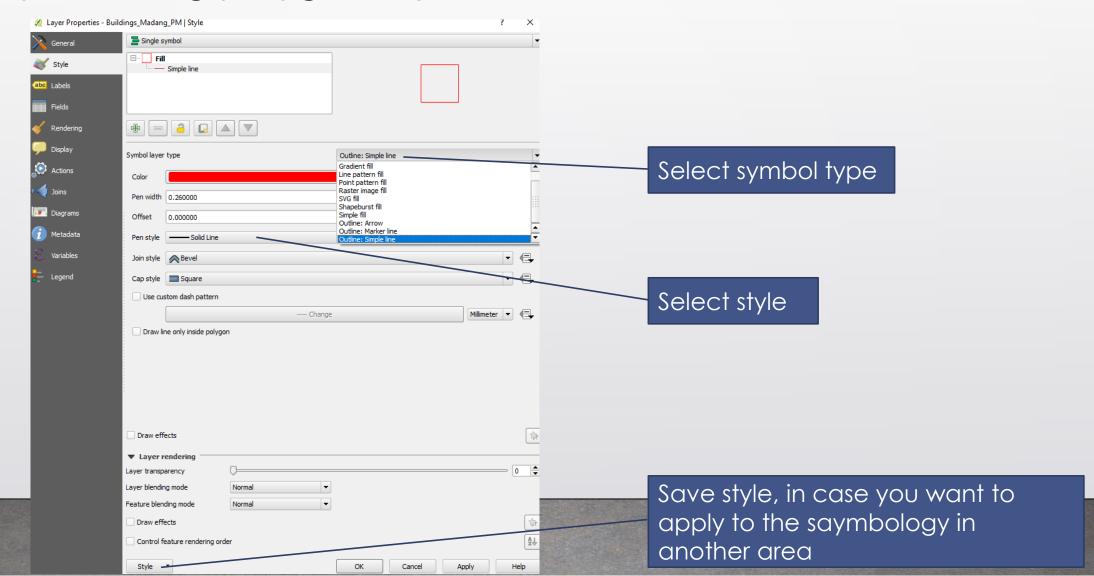
2. Symbolizing point layers



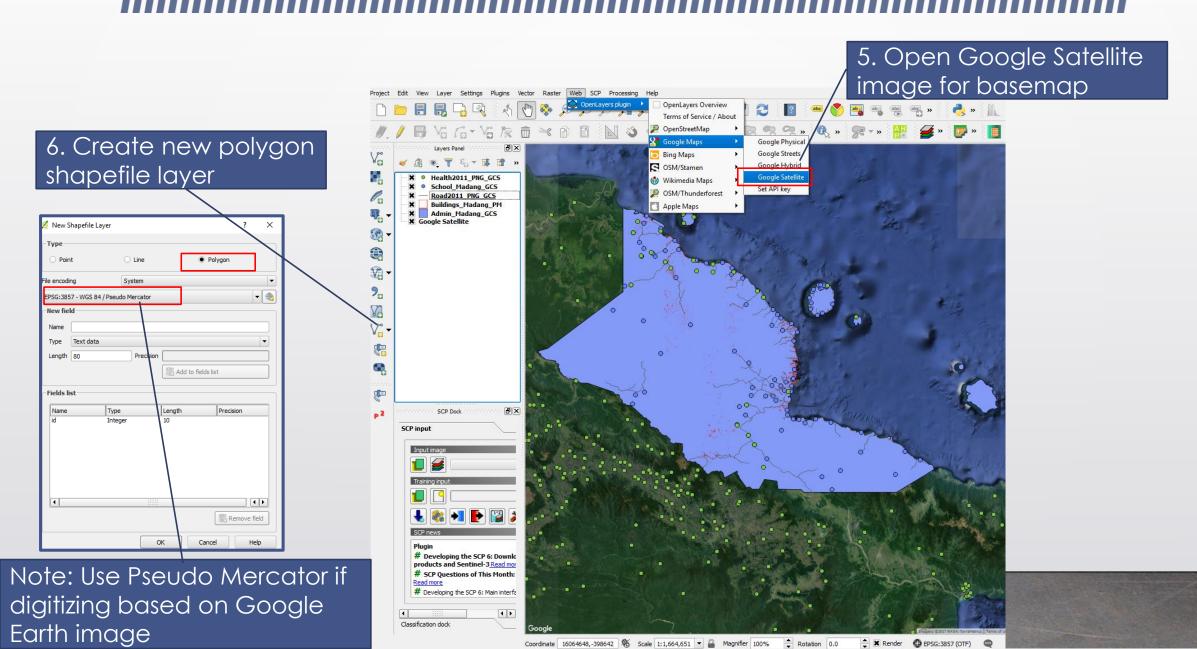
3. Symbolizing line layers



4. Symbolizing polygon layers

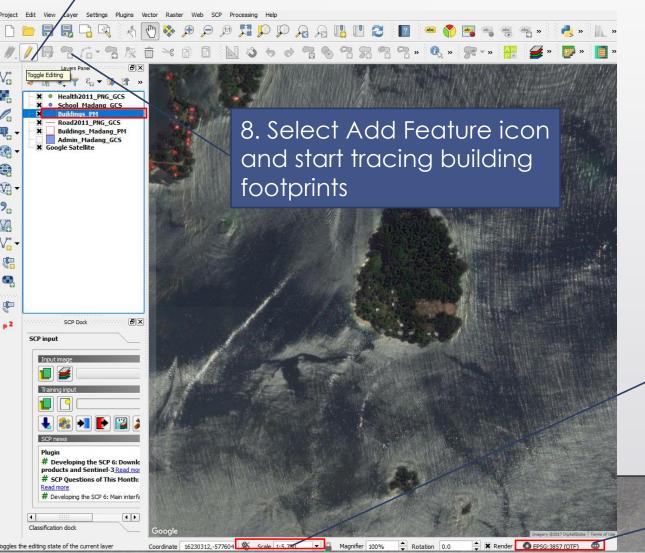


Digitizing building footprints



Digitizing building footprints

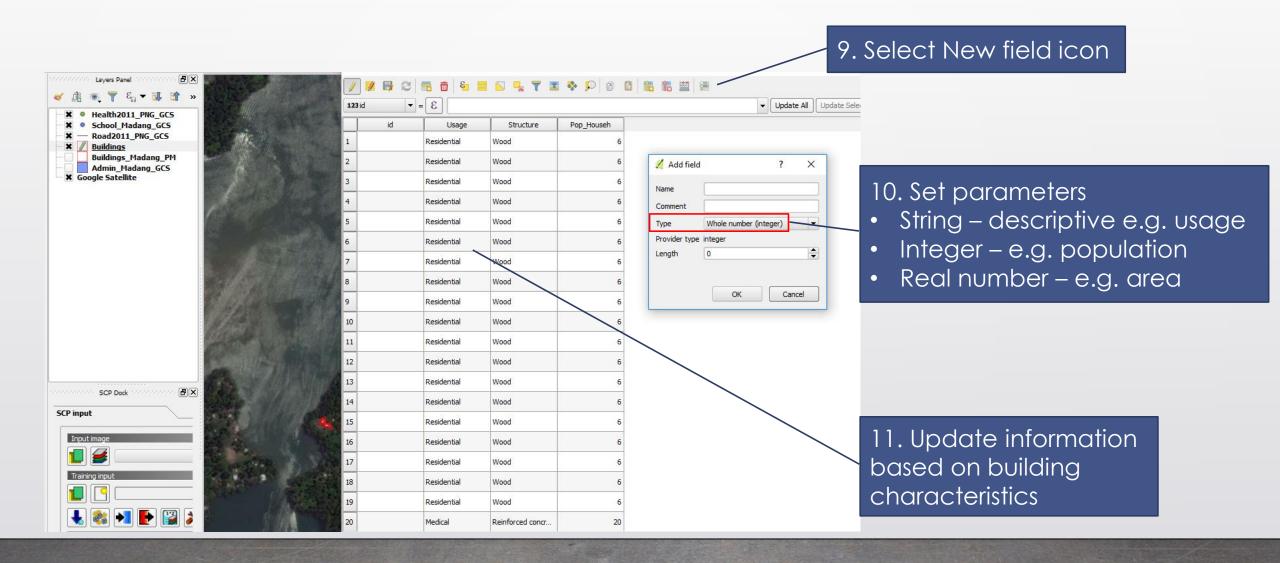
7. Click on layer to edit and click on toggle editing



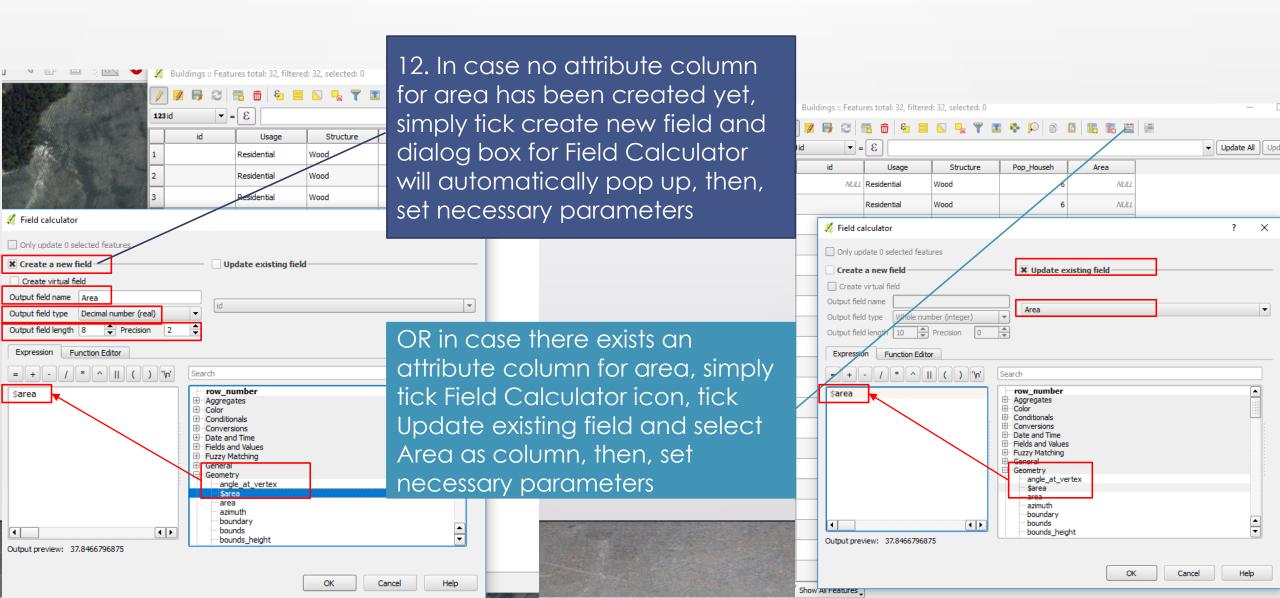
Note: Scale should be smaller or equal to 1: 2,500 to avoid shifting errors

Note: Coordinate system used is Pseudo Mercator EPSG 3857

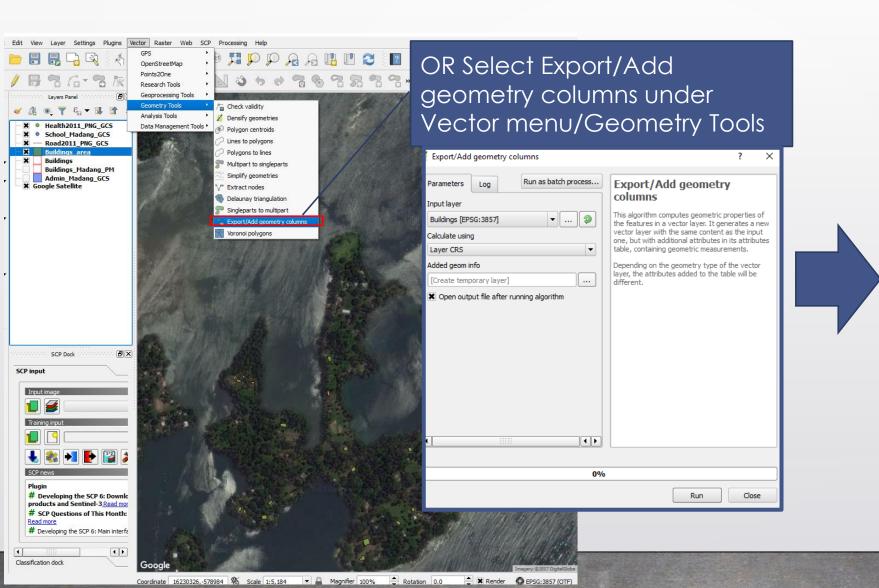
Updating building attributes

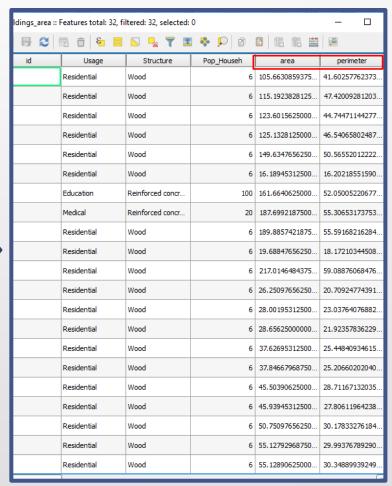


Calculating building footprint area

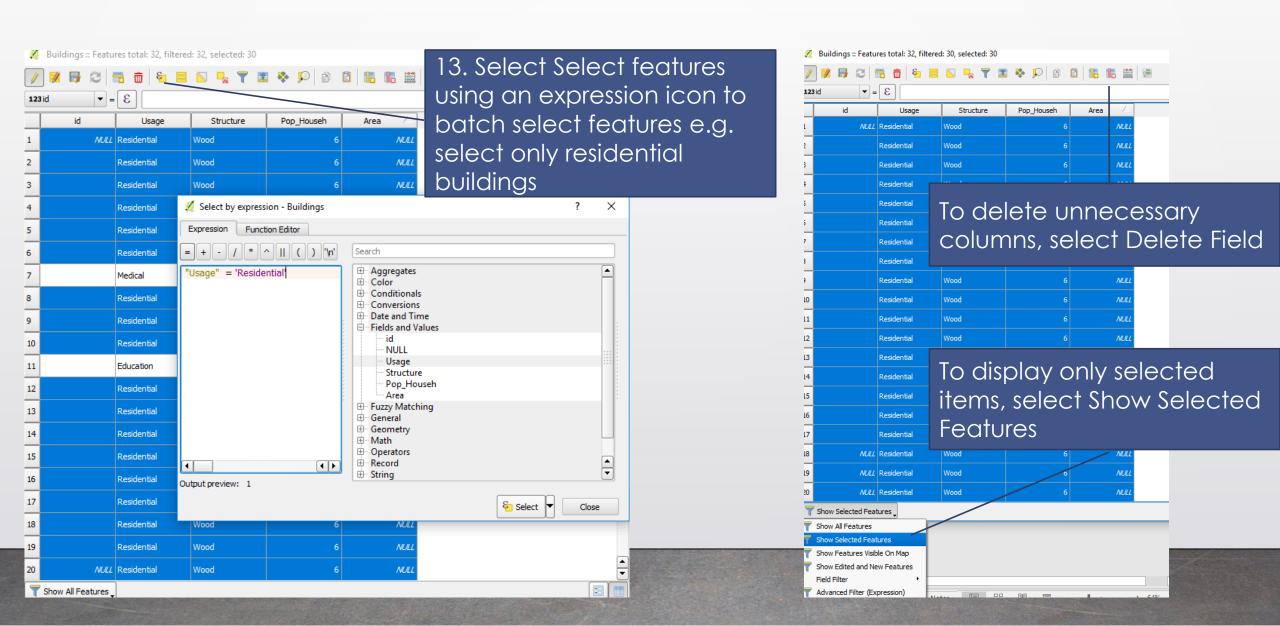


Calculating building footprint area

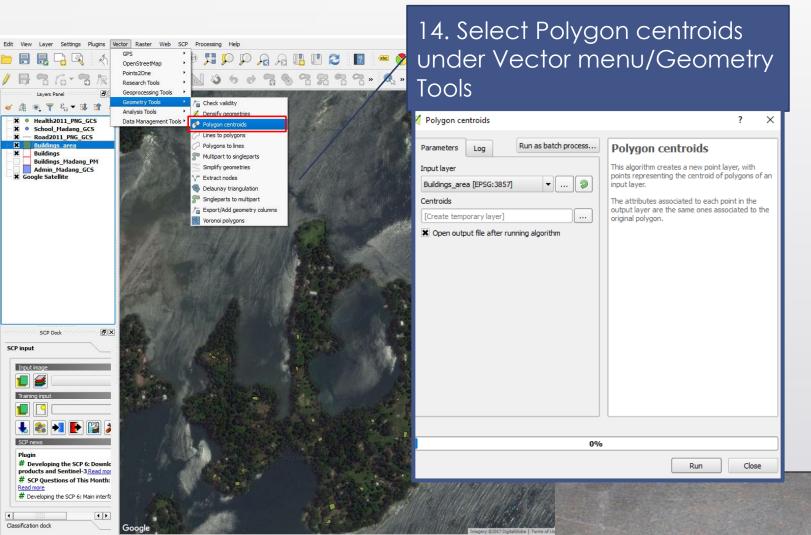




Selecting features using expression



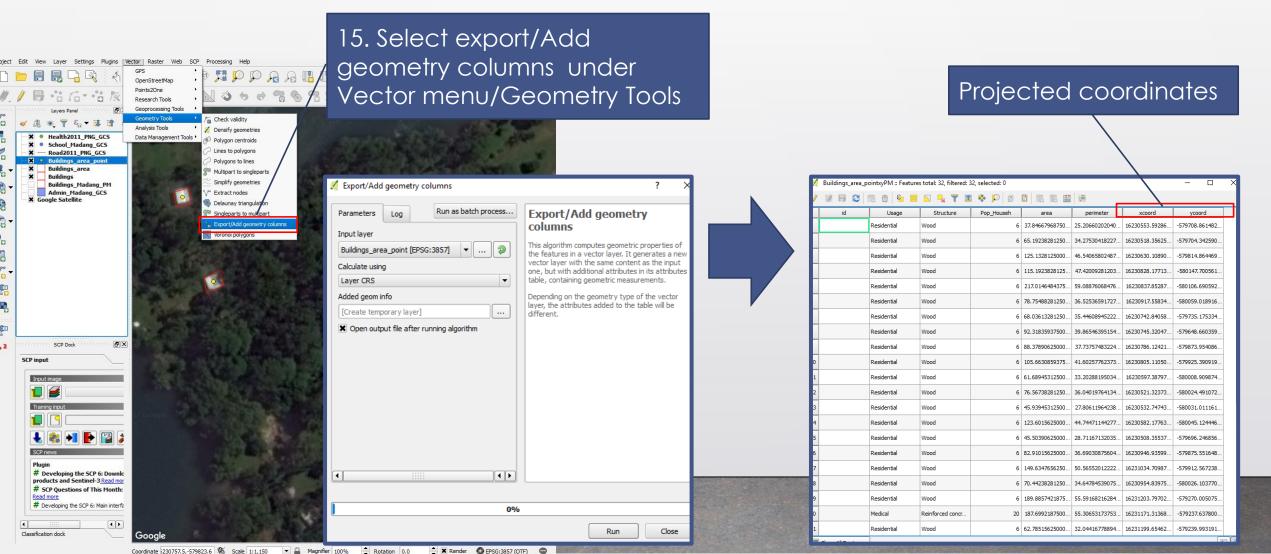
Converting building footprint (polygon) to centroid (point) and calculating projected coordinates



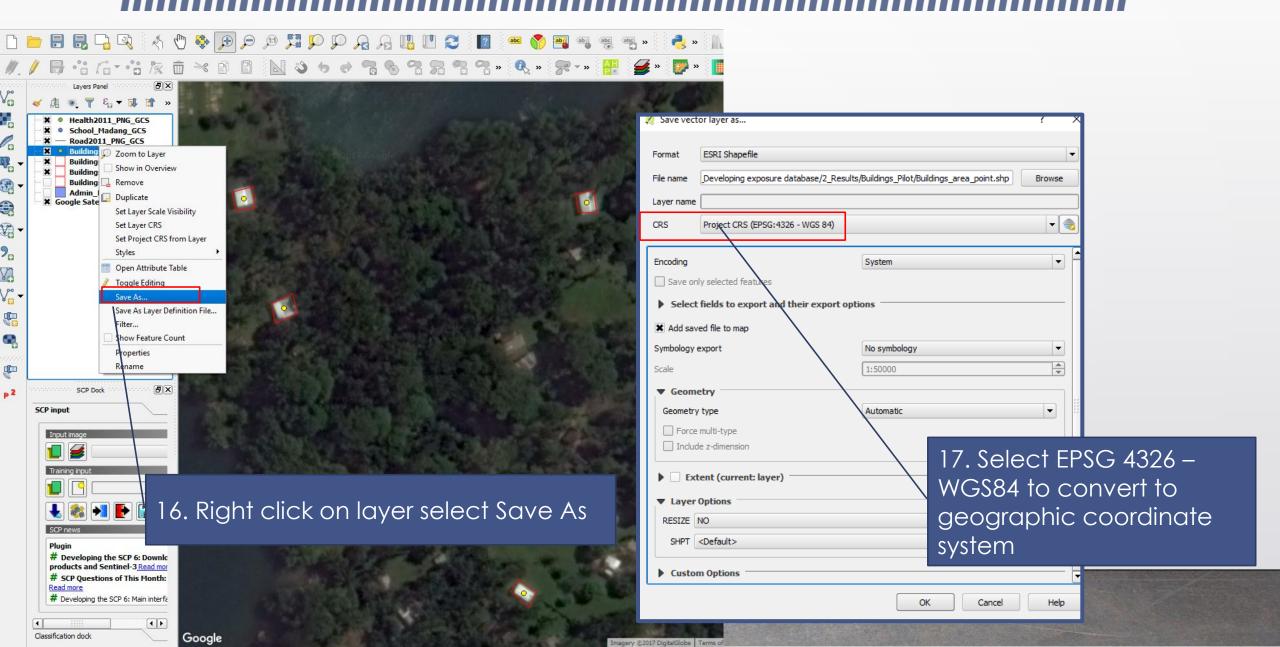
▼ 🚇 Magnifier 100%



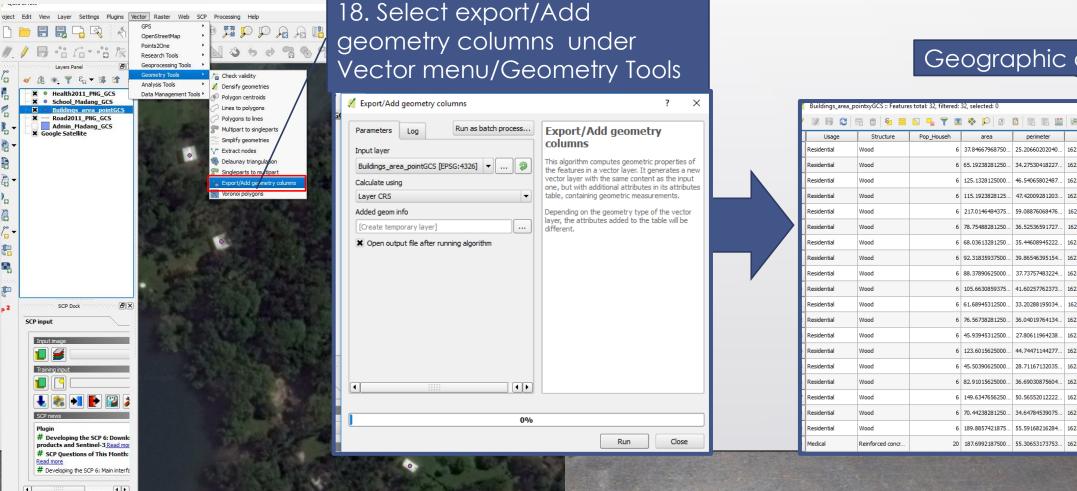
Converting building footprint (polygon) to centroid (point) and calculating projected coordinates



Reprojecting vector layer to GCS and calculating coordinates



Reprojecting vector layer to GCS and calculating coordinates



Classification dock

Geographic coordinates

16230553.59286..

16230518 35625

16230917.55834

16230805, 11050...

16230521.32373...

ycoord

-579708.861482...

-579704 342590

-580059.018916

-579648.660359

-579925,390919.

-580024, 491072.

-570606 246856

145.8015436219...

145.8012270860

145.8040102543

145.8048131794

145.8032659403

145,8038030433...

145,8012537434...

145,8011372466

145.8058655695

-5.20045807002

-5 2004176432

-5,2043839890

-5.2035906320

-5.20239517733

-5.2032817413

Thank you