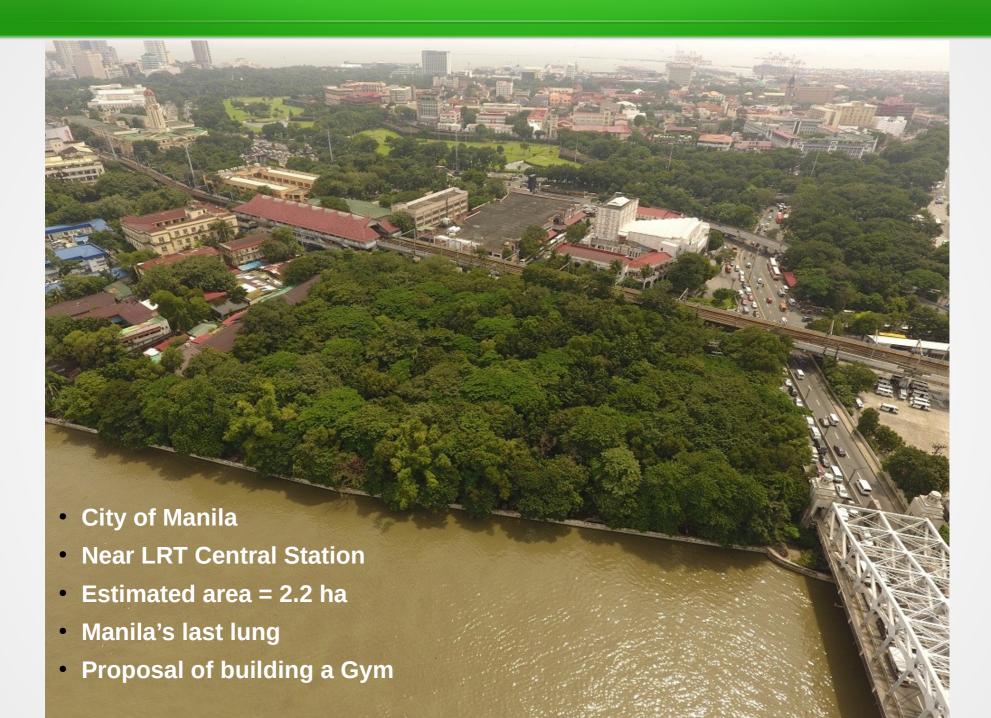


Arroceros Forest Park



Mapping and Survey Objectives

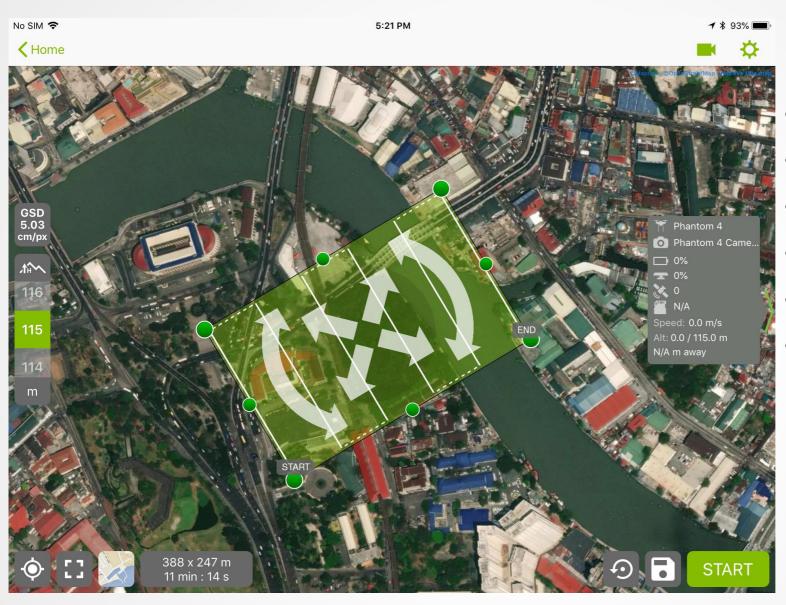
- To conduct a flyover of Arroceros forest park using an unmanned aerial vehicle (UAV) or drone
- •To provide aerial images, maps and spatial information to groups who are campaigning for the preservation of Arroceros Forest Park

UAV/DRONES



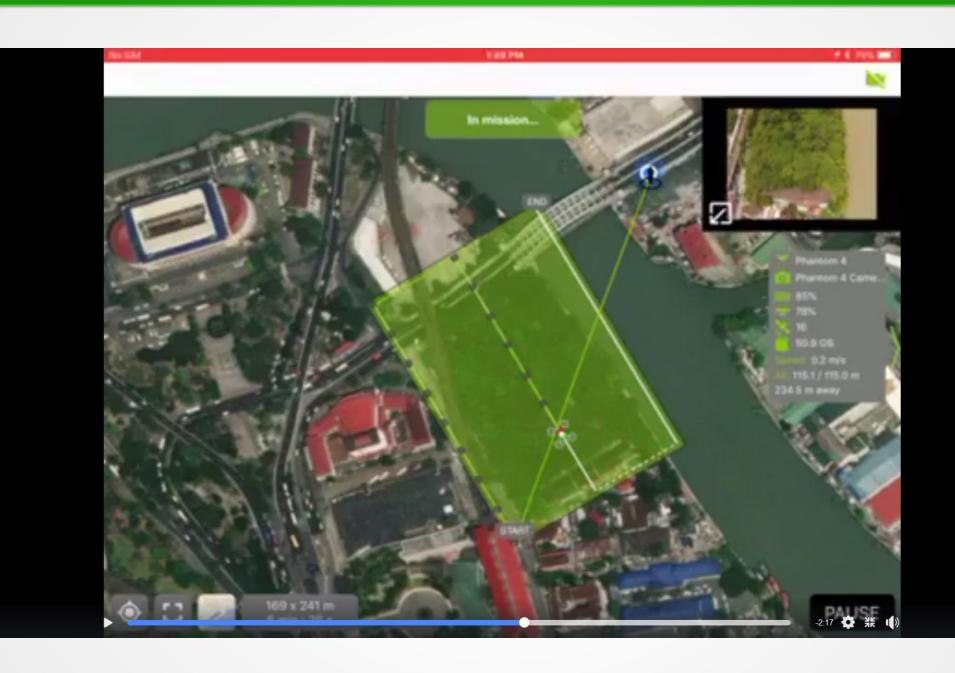
 An aircraft system that may be remotely controlled or flown autonomously through software controlled flight plans in their embedded systems working in conjunction with GPS (Global Positioning System).

Flyover Mission Plan



- 81 images
- Altitude 115 meters
- Flying time = 11 mins
- Are covered = 9.5 km2
- GSD = 5.03 cm/px
- Certified drone pilot

Aerial Flight No 1

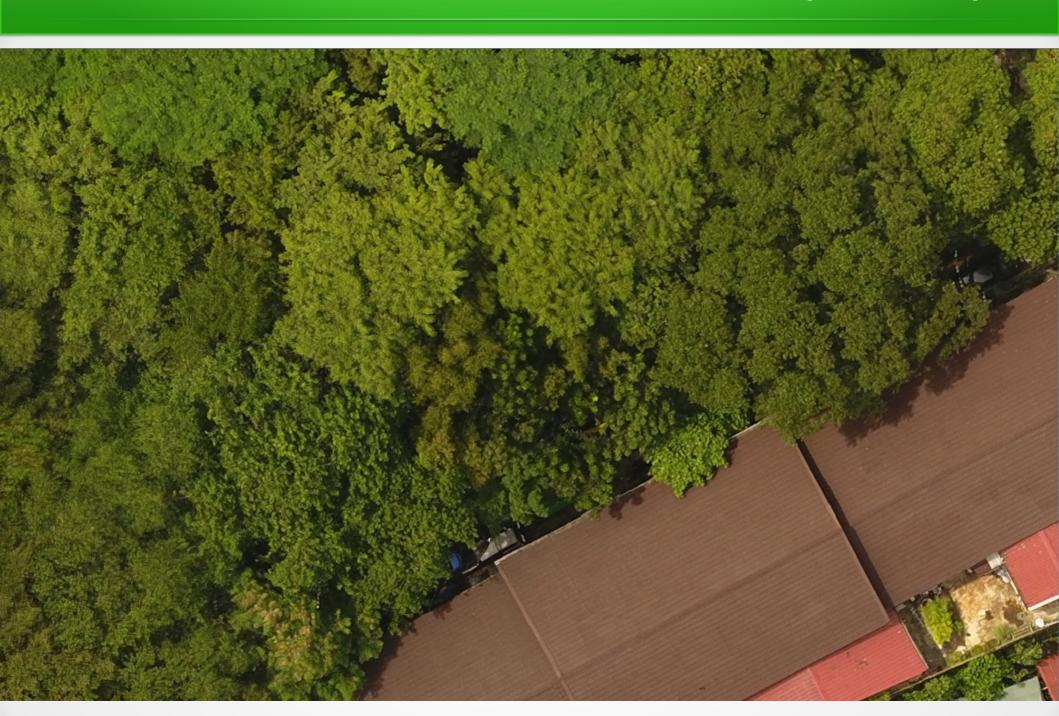


Actual Flyover

Sample Aerial Image 1/81



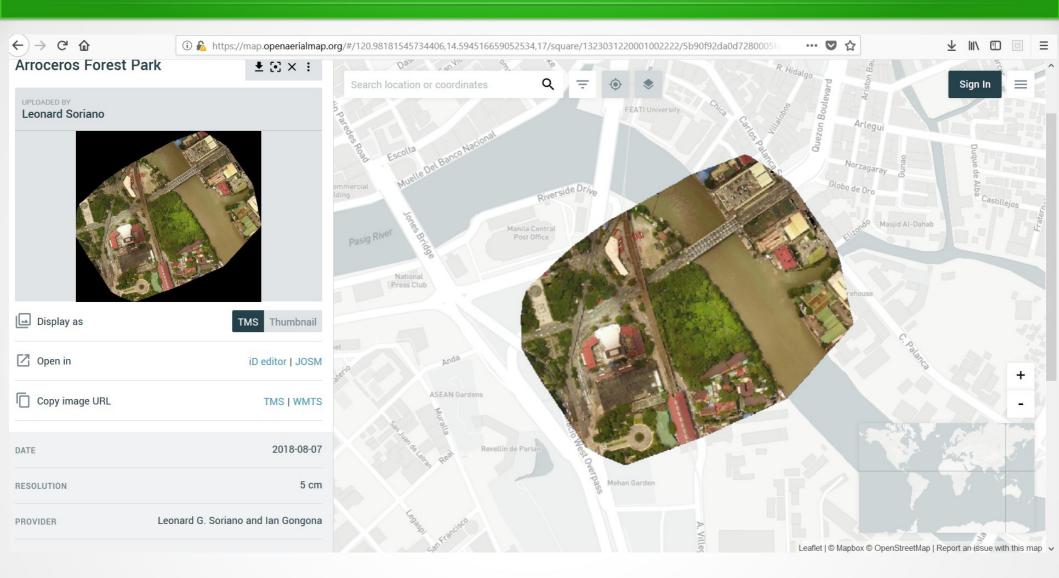
Zoom to Native Resolution (100%)



Orthomosaic Image



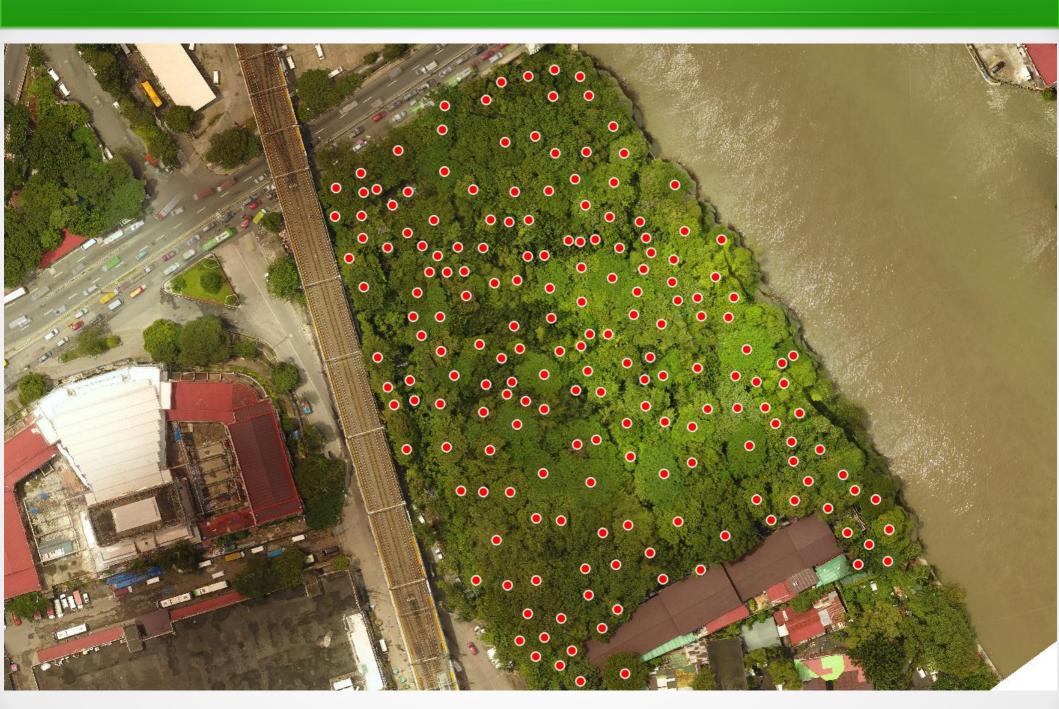
Open Aerial Map



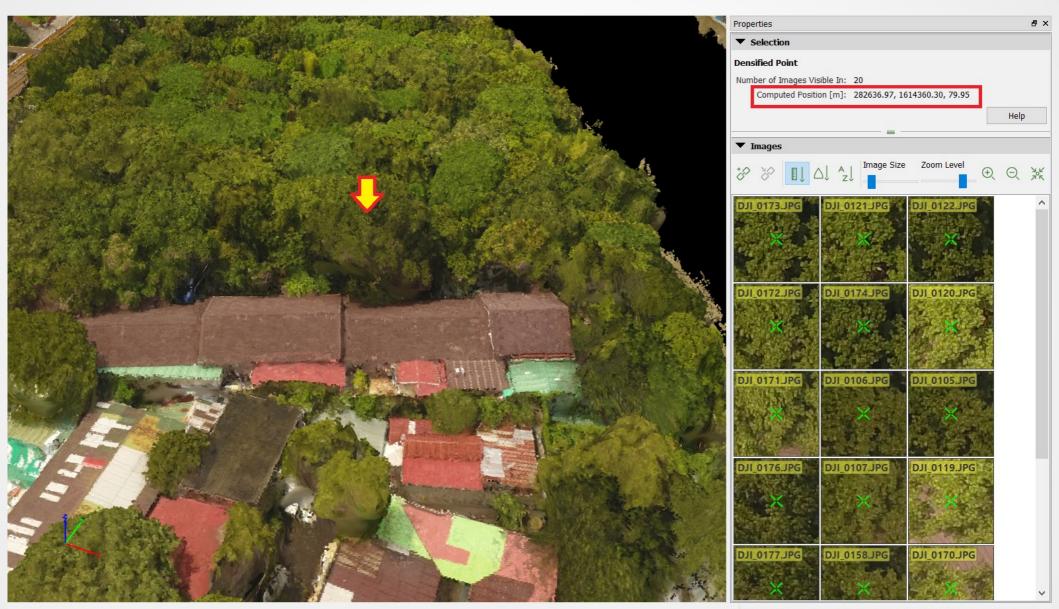
OpenAerialMap (OAM) is a set of tools for searching, sharing, and using openly licensed satellite and unmanned aerial vehicle (UAV) imagery.

https://map.openaerialmap.org/#/120.98181545734406,14.594516659052534,17/square/1323031220001002222/5b90f92da0d7280005fab355?_k=nypdhb

Tree Count Estimate

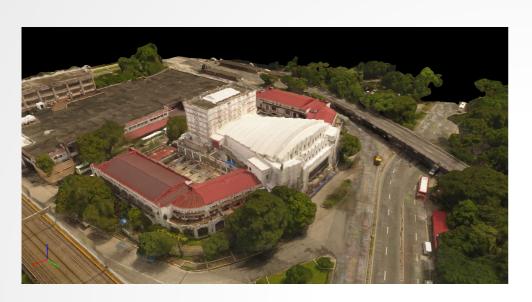


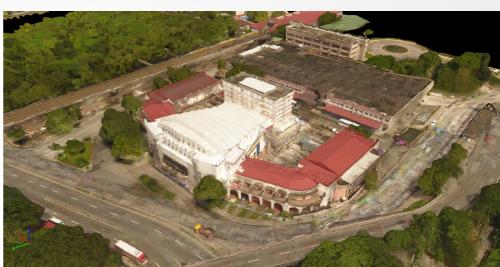
Tree Height Estimates



WGS 84 / UTM zone 51N (egm96) - (282636.97, 1614360.30, 79.95) [m]

3D Rendering of Metropolitan Theater









Next steps?

- Conduct of forest inventory of Arroceros to quantify above ground biomass
- Expand and scale up the study on urban forest to other parts of Metro Manila
- Carry out survey and mapping for the public interest
- Continue supporting open data

Thank you for listening!

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