

## Drone for Environment Monitoring and Change Detection of Tapi River

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## **Materials and Methods**

200 m.

Study site

- Take top-viewed photos from 90 meters high above ground.
- Measure the width of bridge or building.

200 m.

- Add each image as a map by ICE.
- Count the number of houses/factories along the Tapi river.
- Overlay the map of the same site but difference time by PS.
- Measure the width of Tapi River by PS.
- Calculate the color of water near houses/factories and without house/factory by Mathematica.







Site 2 Naklieng bridge





Site 5 Pakseaw bridge





Site 6 Toongnamai (end) bridge

Site 7 Toongnamai (begin) bridge



Site 7 Yangkom (end) bridge