

## Process Overview

And

Soil, Climate, and Topographical Data (InVEST SDR Model)



**Catchment Outlet** Land Sea Linkage

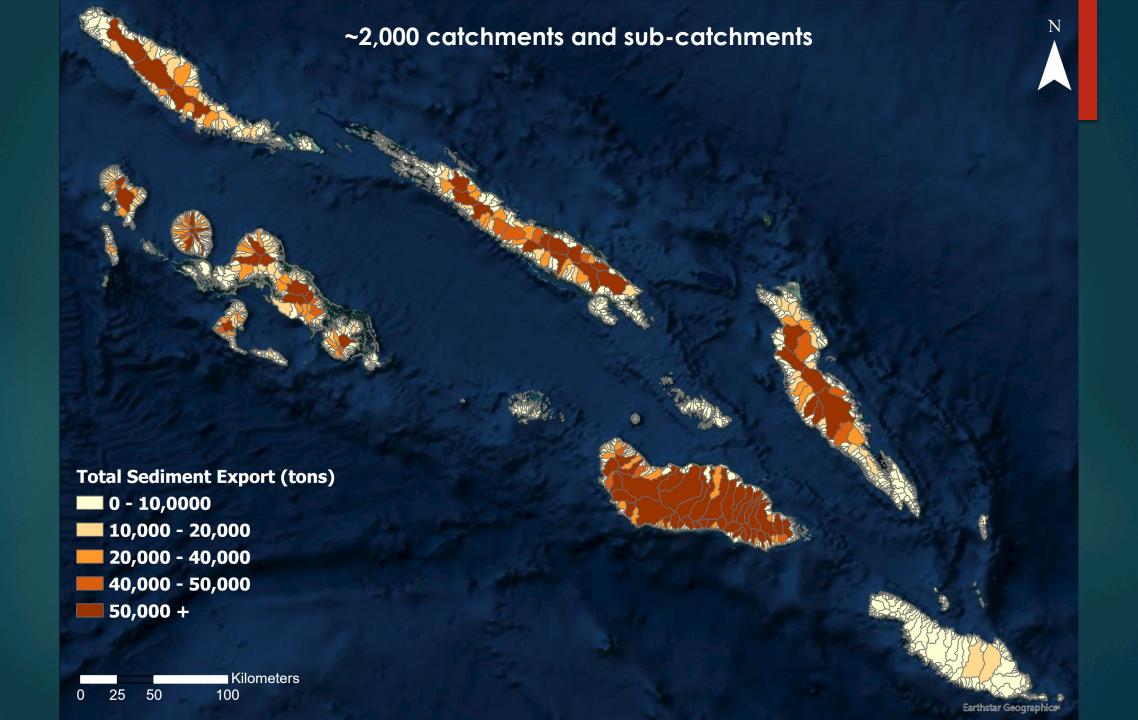


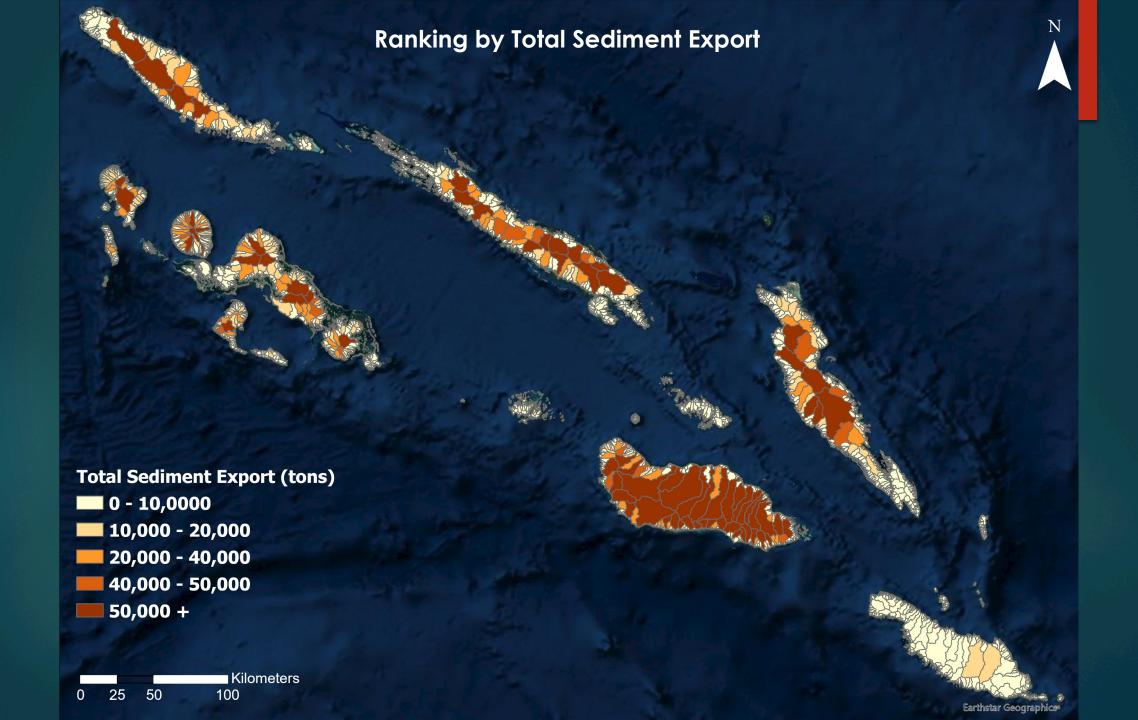
**Sediment Plume Model** Ocean Current, Depth, Time

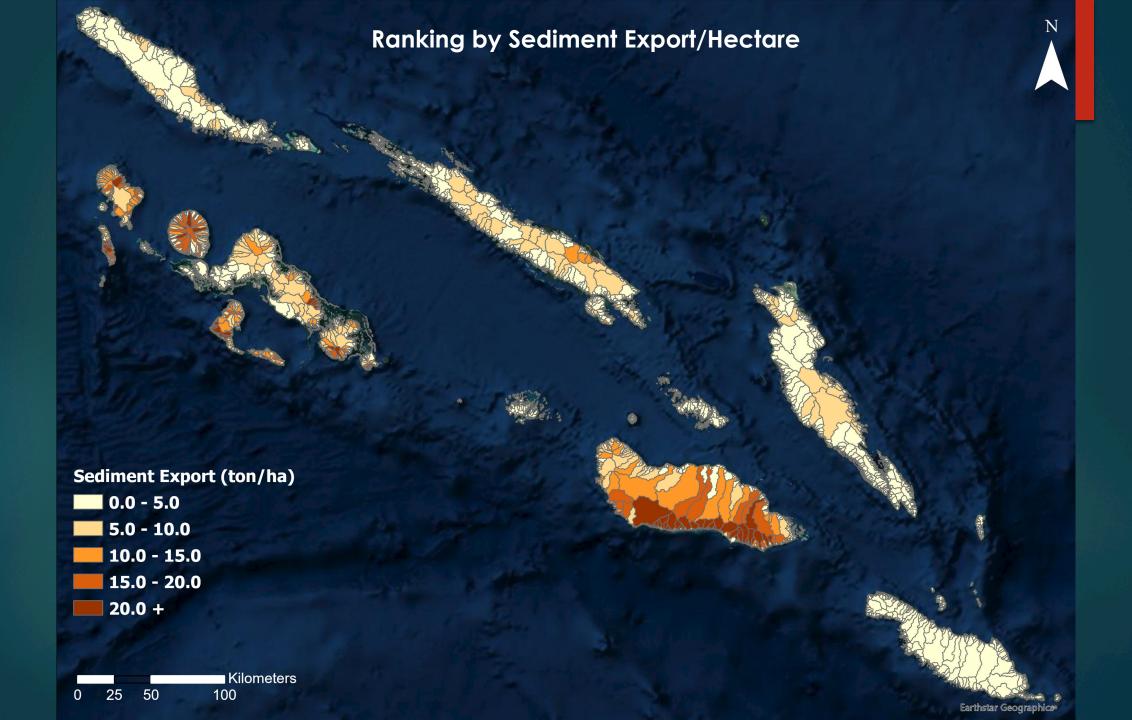
Sediment Load At Outlet

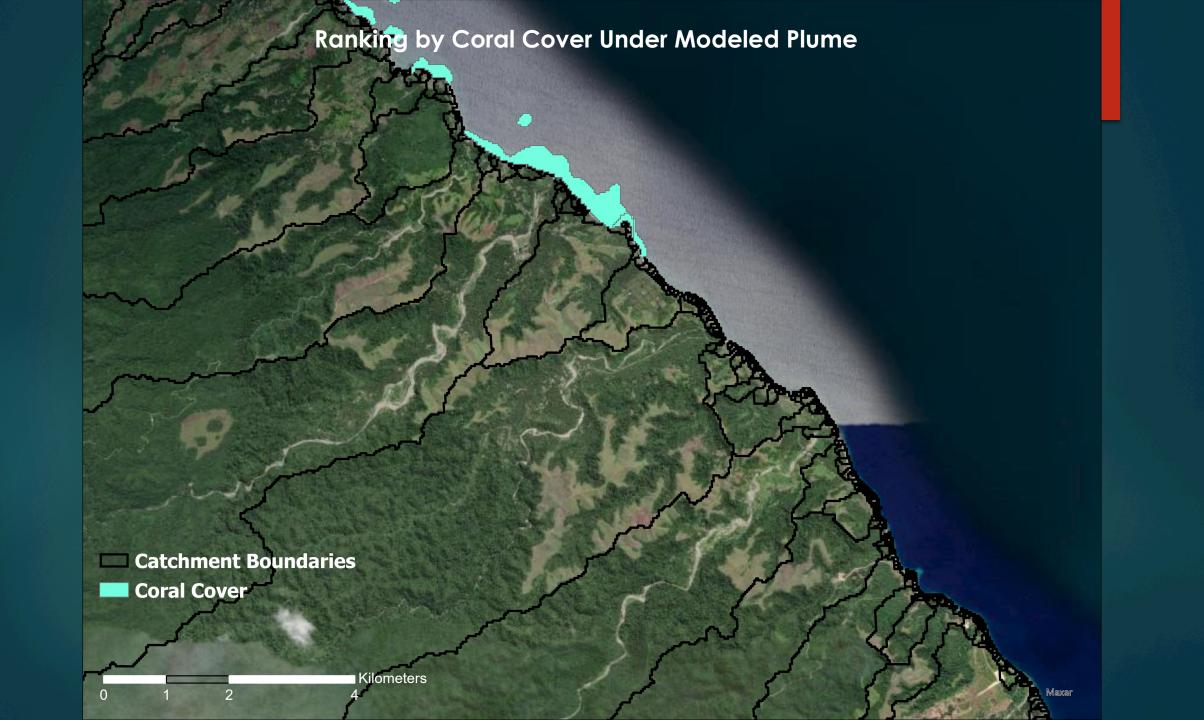


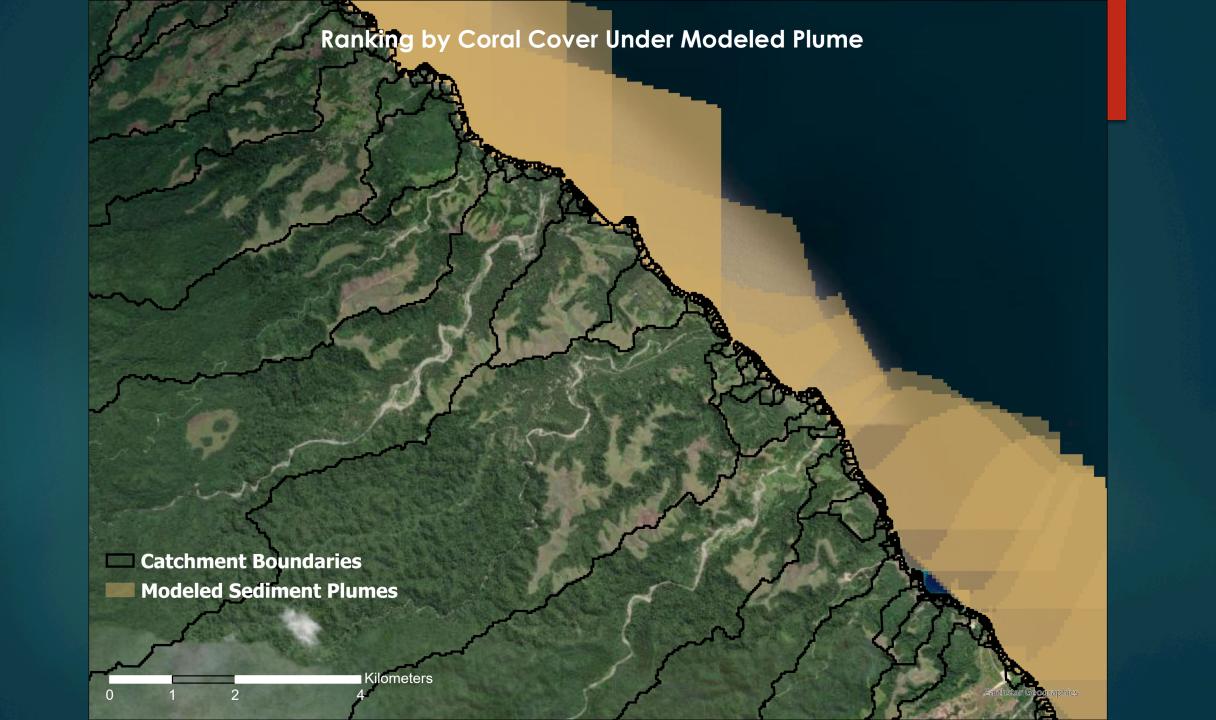
Spatial Prioritization for Interventions or Future Protection

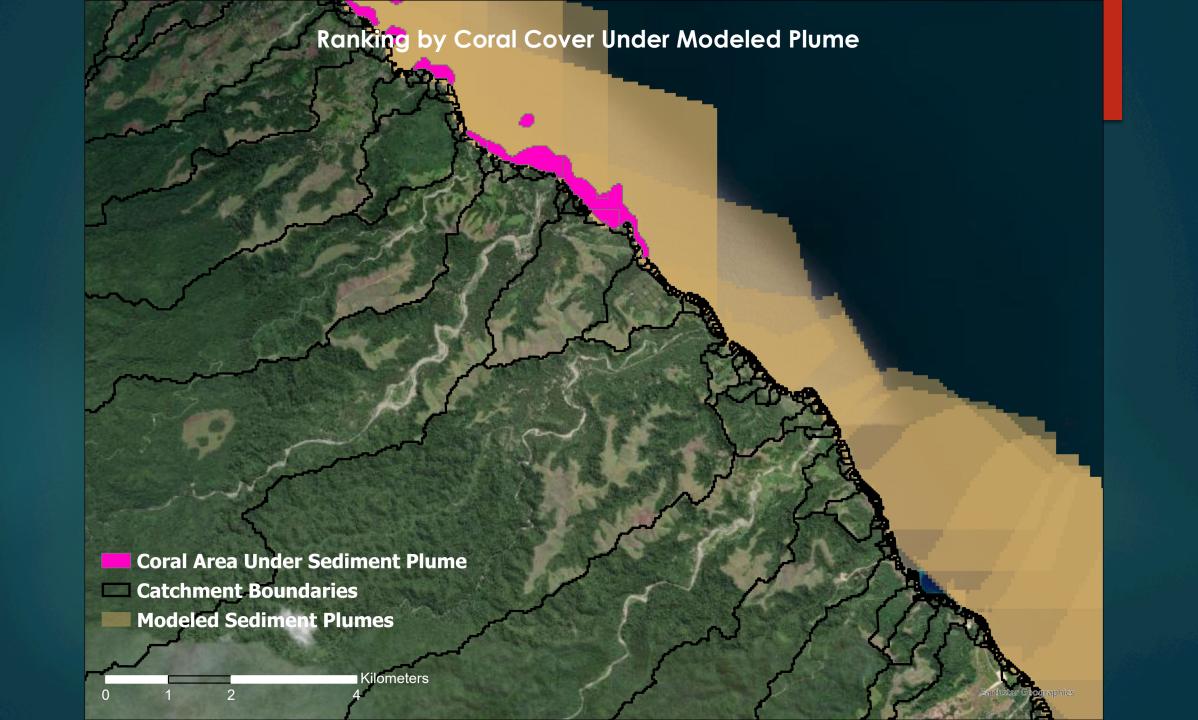


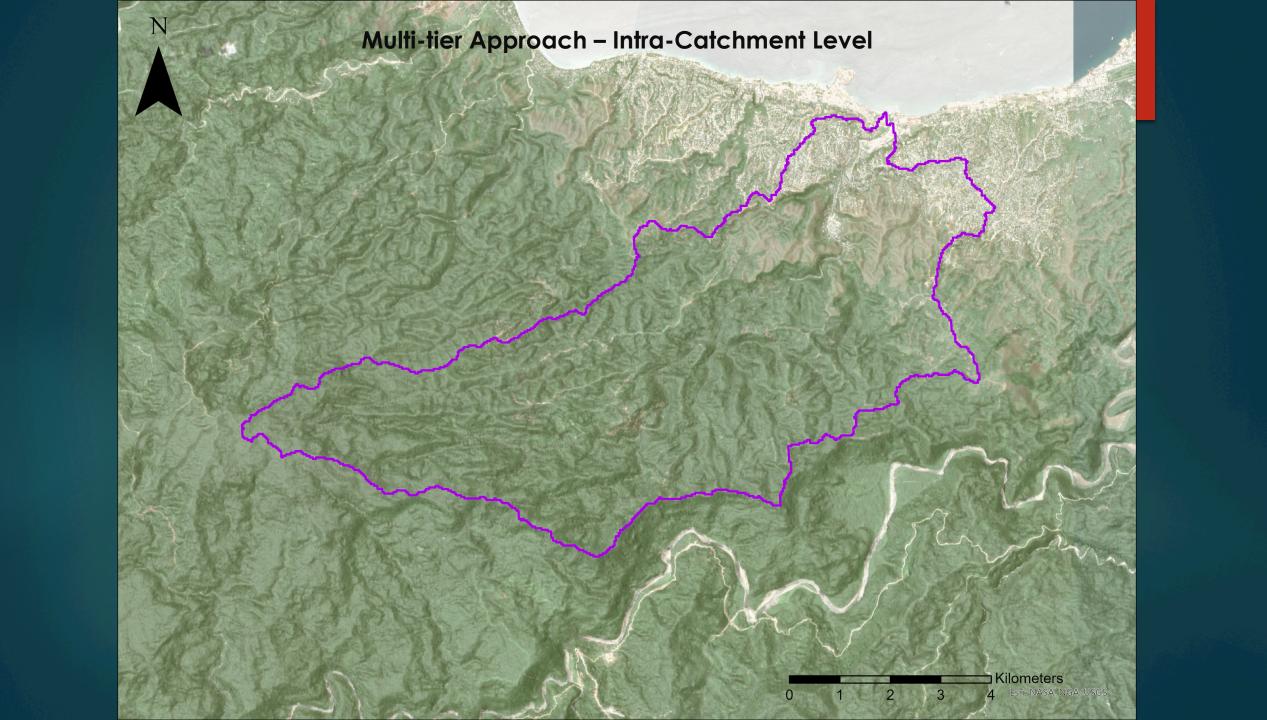


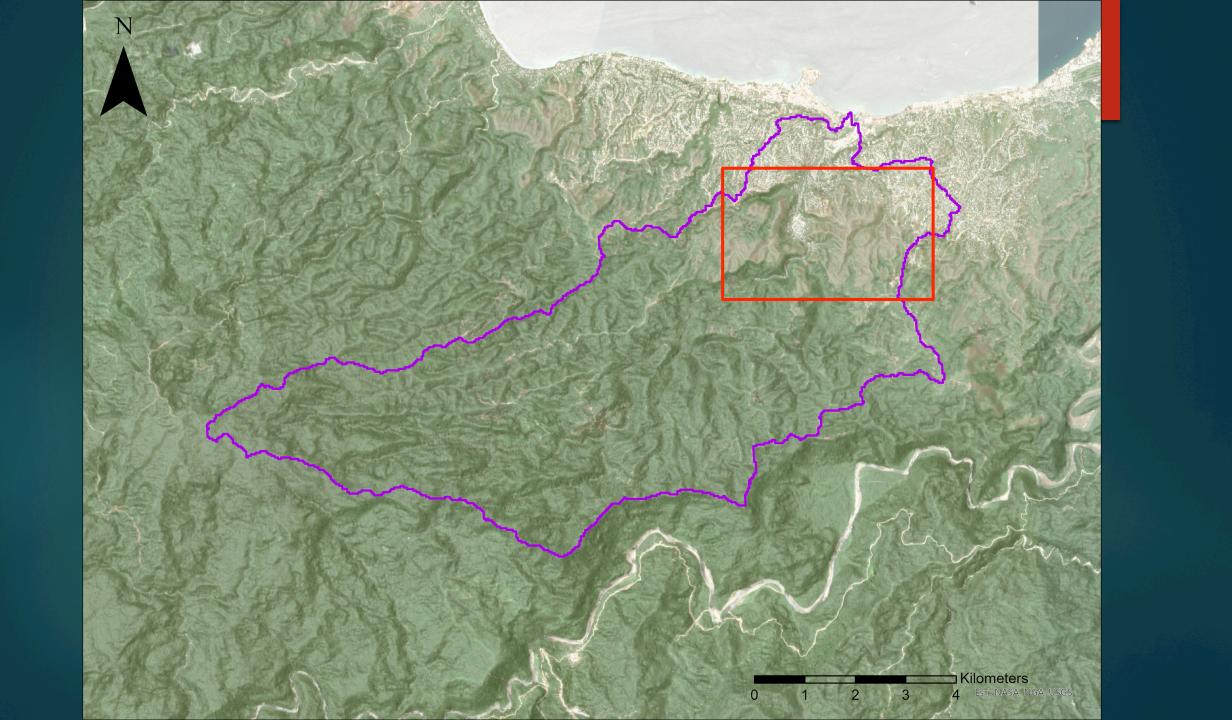


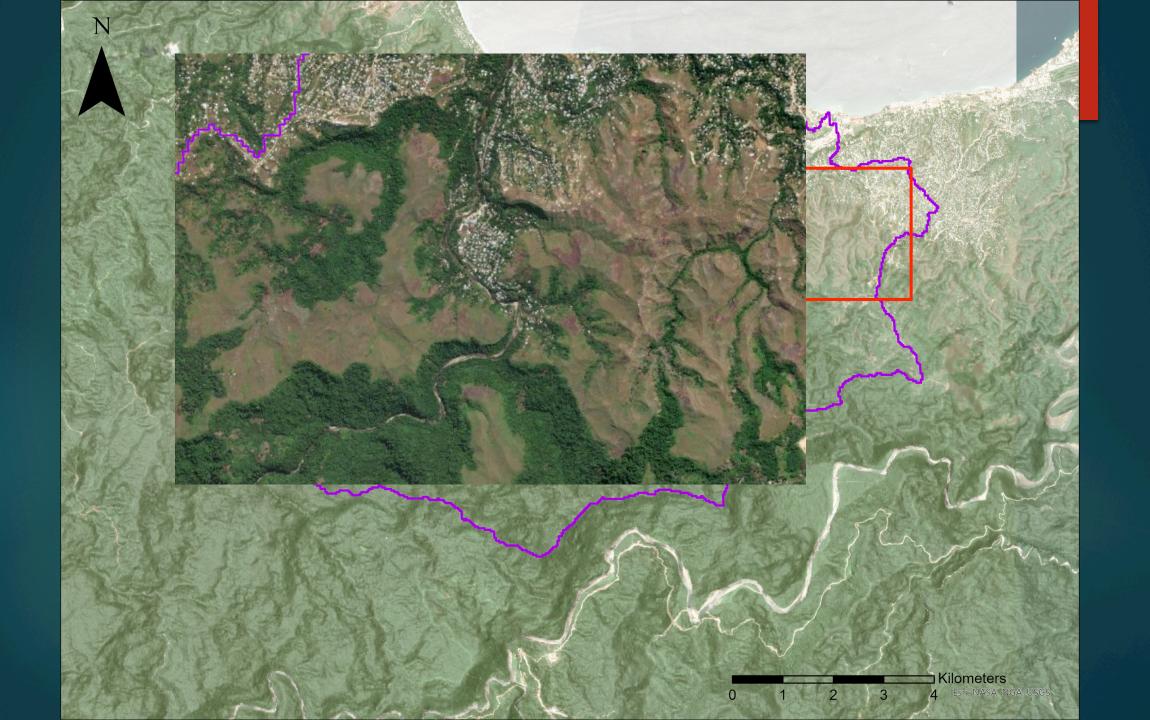




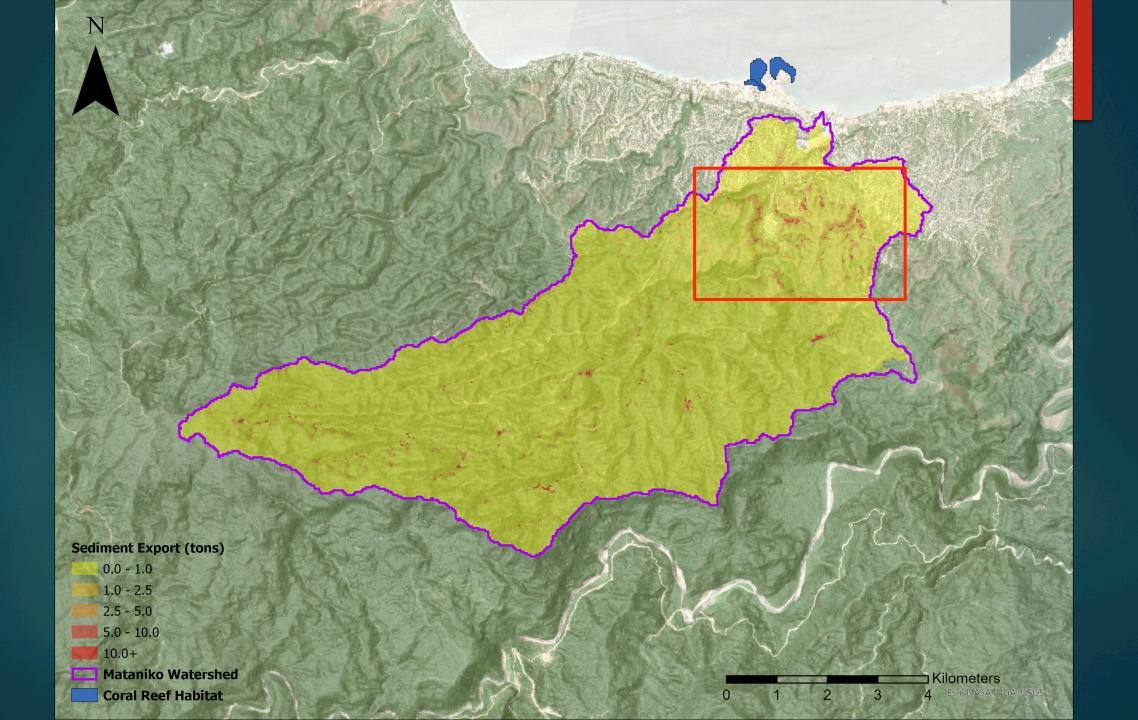


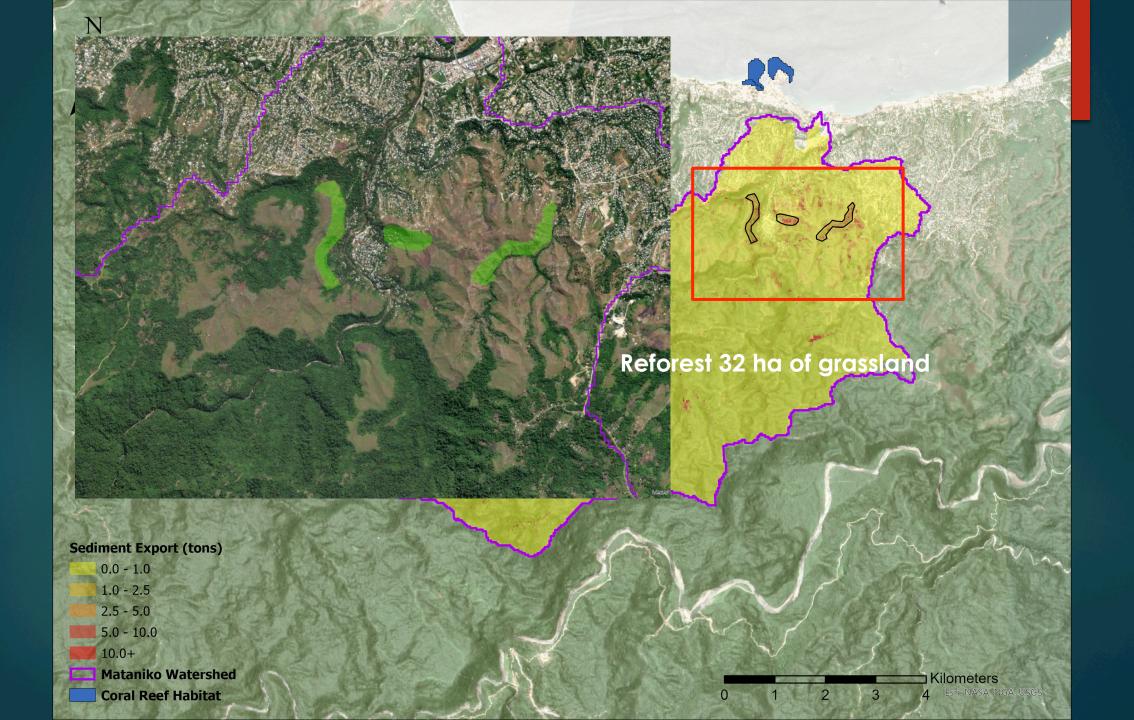


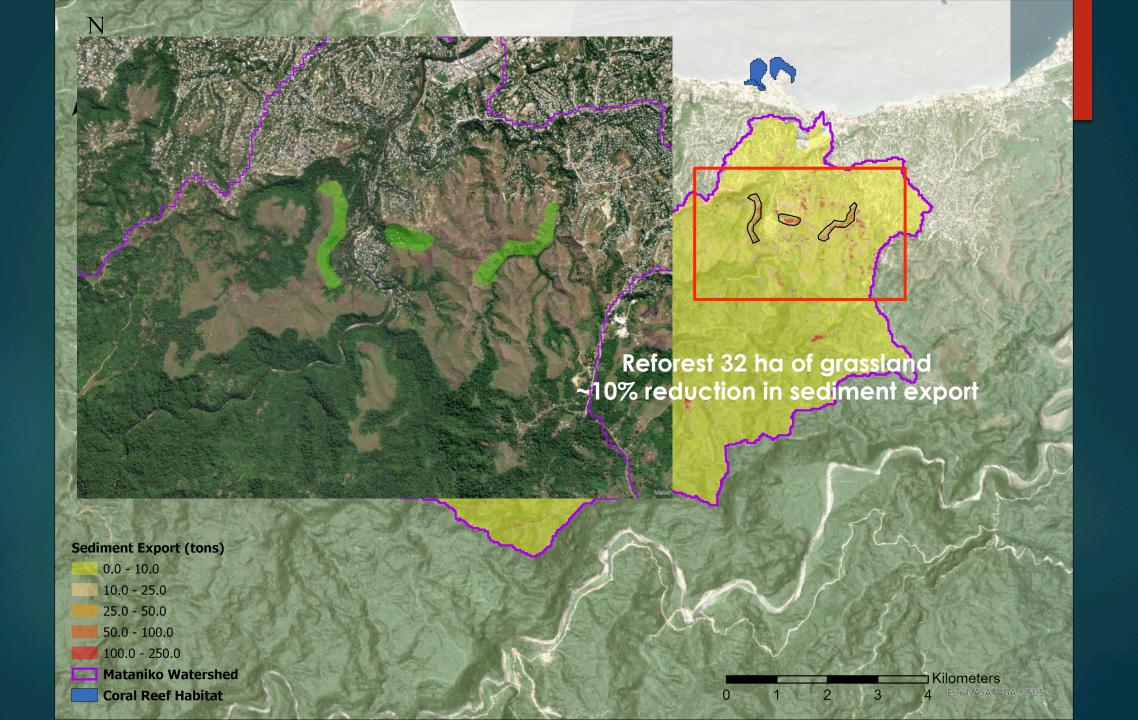


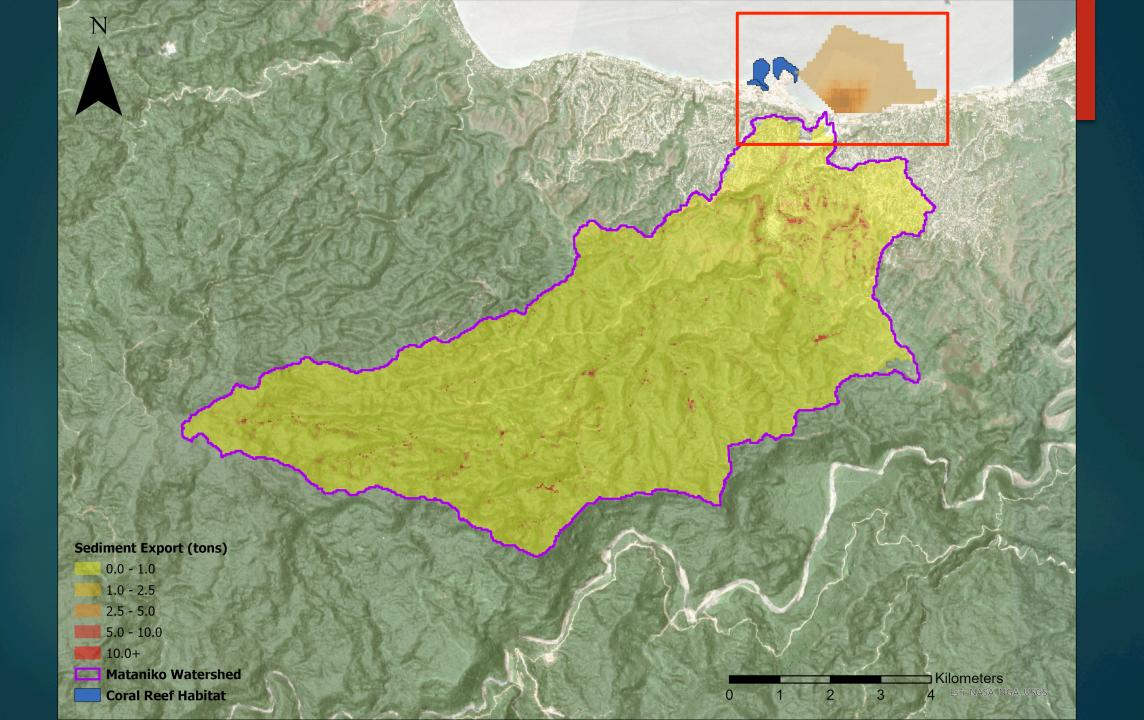














- Multi-tier approach for R2R prioritization
  - Catchment identification
  - Specific sites for interventions/ protection
- Models are not reality assumptions can lead to misrepresentation
  - Calibration and validation from field data are essential

- Sediment model (InVEST SDR) is supported by documentation, user forums, and datasets (user friendly)
- Plume models may require technical or GIS support to implement (workflow from this project)
- Input and final Interpretation from local stakeholders is key