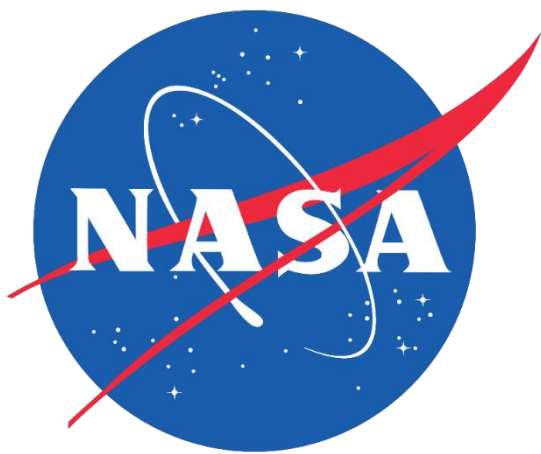
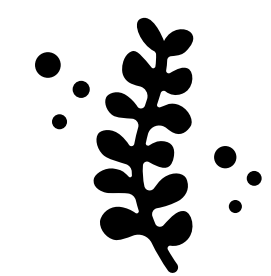


Hawai'i Urban Development

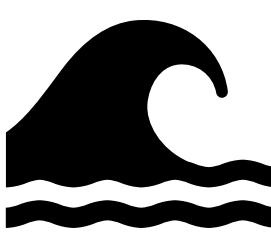


Mapping Urban Infrastructure and Linkages to Wastewater Impacts Across Hawai'i

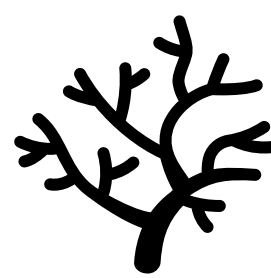
Cesspools and Contamination



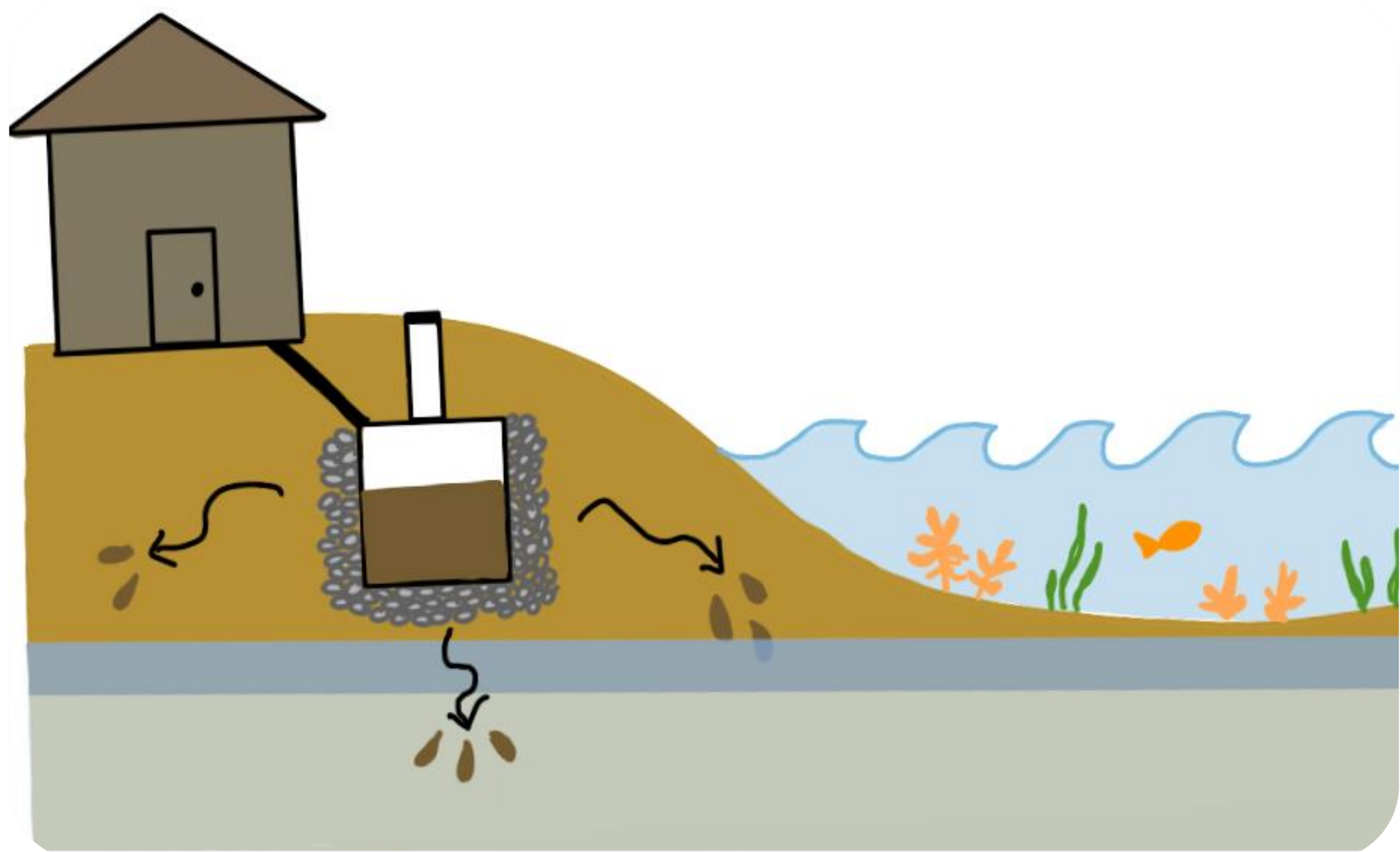
Risk of groundwater pollution, harming both coastal ecosystems and humans



Sea level rise increases the risk of old, failing cesspool systems contaminating nearby environments



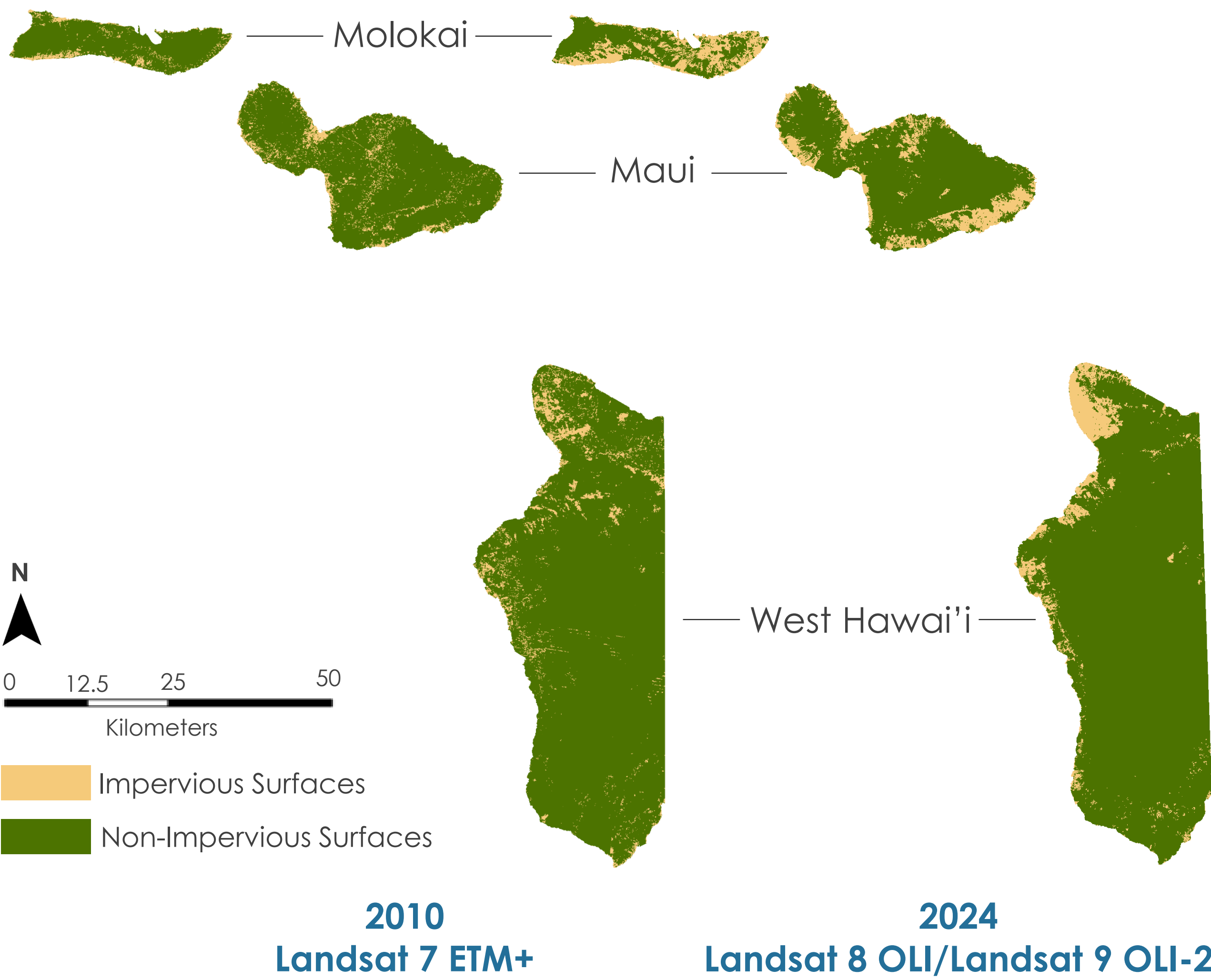
Raw sewage threatens Hawai'i's coral reefs, one of the most biodiverse ecosystems in the world



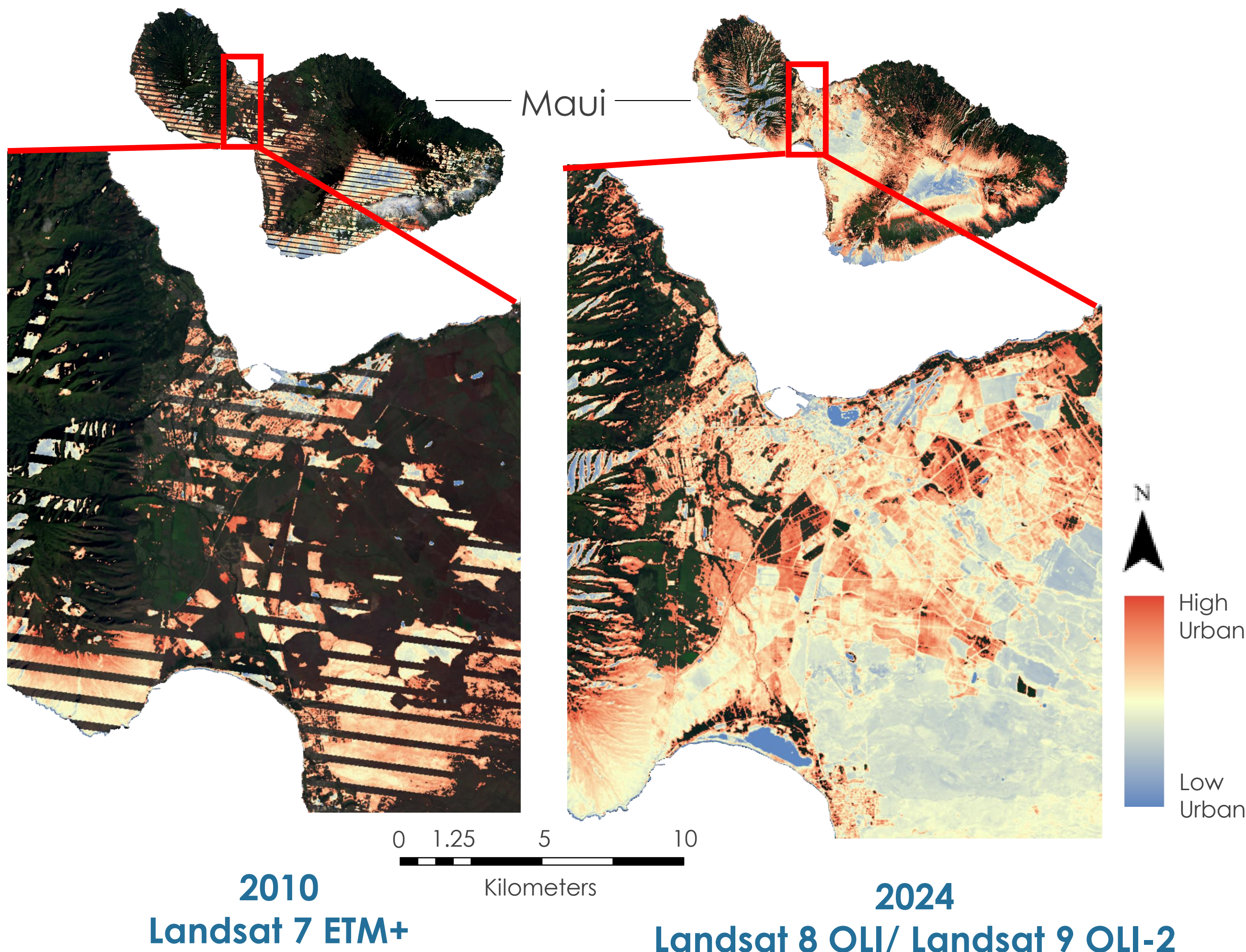
Cesspool wastewater infiltrating various water resources

Credit: Gwenyth Greco

Impervious Land Cover Classification



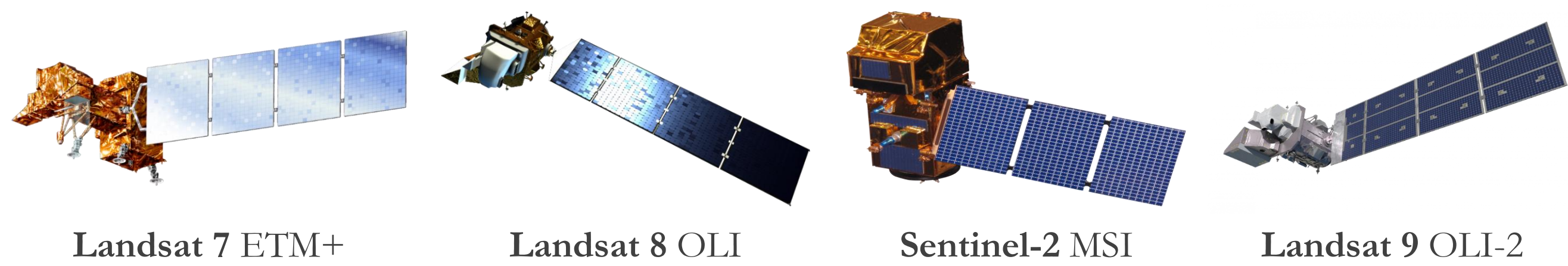
Normalized Difference Concrete Condition Index (NDCCI) of Kahului, Maui



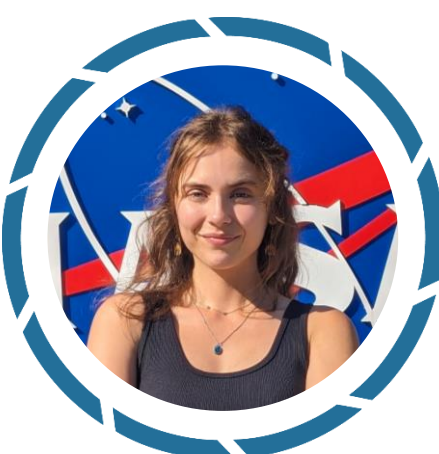
Takeaways

- ▶ The complexity of Hawai'i's landscape and its land uses can present limiting factors to classification models and calculating indices
- ▶ Cloud and barren land presence poses an important limitation on imagery acquisition and processing in the areas of interest

Earth Observations



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