Ridge to Reef Management
Collaborative knowledge construction and decision making for sustainable development

Drivers of Ecosystem Degradation
- Climate
- Population dynamics
- Industry
- Institutional and Socio-economic conditions

Support Collaborative Decision Making and Management
- Prioritize conservation areas at the national-scale that can benefit both terrestrial & marine environments
- Support local decision making by testing policy actions & estimating potential outcomes prior to implementation
- Provide information to foster dialogue between decision-makers
- Supports an iterative decision making process

Ridge to Reef Approach:
Testing Spatial Prioritization in Tropical Island settings

GOVERNANCE SYSTEM
- Resource use & management
- Environmental protection
- Development policies
- Segment or sector governance
- Negotiated agreements & multistakeholder groups
- Practices used by targeted stakeholders

Support Collaborative Decision Making and Management
- Define Problem
- Scenario Design
- Model Development
- Scenario Analysis
- Conservation Policy and Planning
- Action

Benefits of R2R approach
Vanuatu Spatial Prioritization Trial

InVEST SEDIMENT MODEL
+ PLUME MODEL
PREDICTIVE CORAL REEF MODELS

OUTPUTS: DISTRIBUTION MAPS
- Forest restoration zone
- Marine closure
- Potential recovery

Restore Native Forest
+1,330 ha

Restore/protect marine habitat
Up to 75 ha

Decreased 210 ton/yr of sediment

Restore/protect fish biomass
Up to 8.3 ton

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