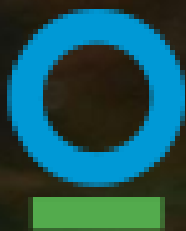


FRESHWATER HEALTH INDEX UPDATE

23 February 2022





Ecosystem Vitality

4 indicators
7 sub-indicators



Ecosystem Services

3 indicators
8 sub-indicators



Governance & Stakeholders

4 indicators
12 sub-indicators

Rating scale

Very critical

0 - 30

Critical

30 - 60

Regular

60 - 75

Good

75 - 90

Very good

90 - 100

INDICATORS OF FRESHWATER HEALTH

- Combination of remotely sensed, monitored, modeled and survey data
- Each indicator scaled from 0-100 for ease of interpretation
- Ecosystem Vitality and Ecosystem Services indicators can be modeled to assess scenarios

ECOSYSTEM VITALITY

Water Quantity

- Deviation from natural flow
- Groundwater storage depletion

Water Quality

- Suspended solids
- Total nitrogen
- Total phosphorus
- Other quality parameters of concern

Basin Condition

- Bank modification
- Flow connectivity
- Land cover naturalness

Biodiversity

- Species of concern
- Invasive & nuisance species

ECOSYSTEM SERVICES

Provisioning

- Water supply reliability
- Biomass for consumption

Regulation & Support

- Sediment regulation
- Water quality regulation
- Flood regulation
- Disease regulation

Cultural

- Conservation areas
- Recreation

GOVERNANCE & STAKEHOLDERS

Enabling Environment

- Water resources management
- Right to resource use
- Incentives & regulations
- Financial capacity
- Technical capacity

Stakeholder Engagement

- Information access
- Engagement in decision-making processes

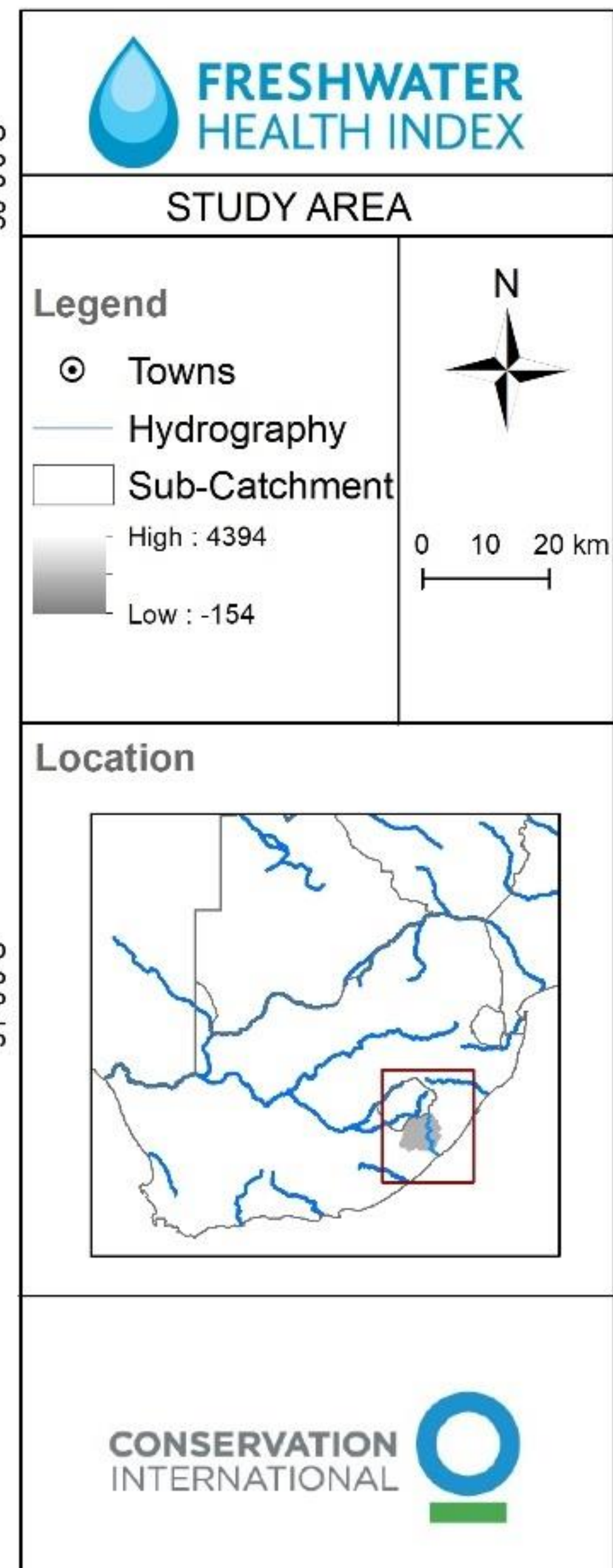
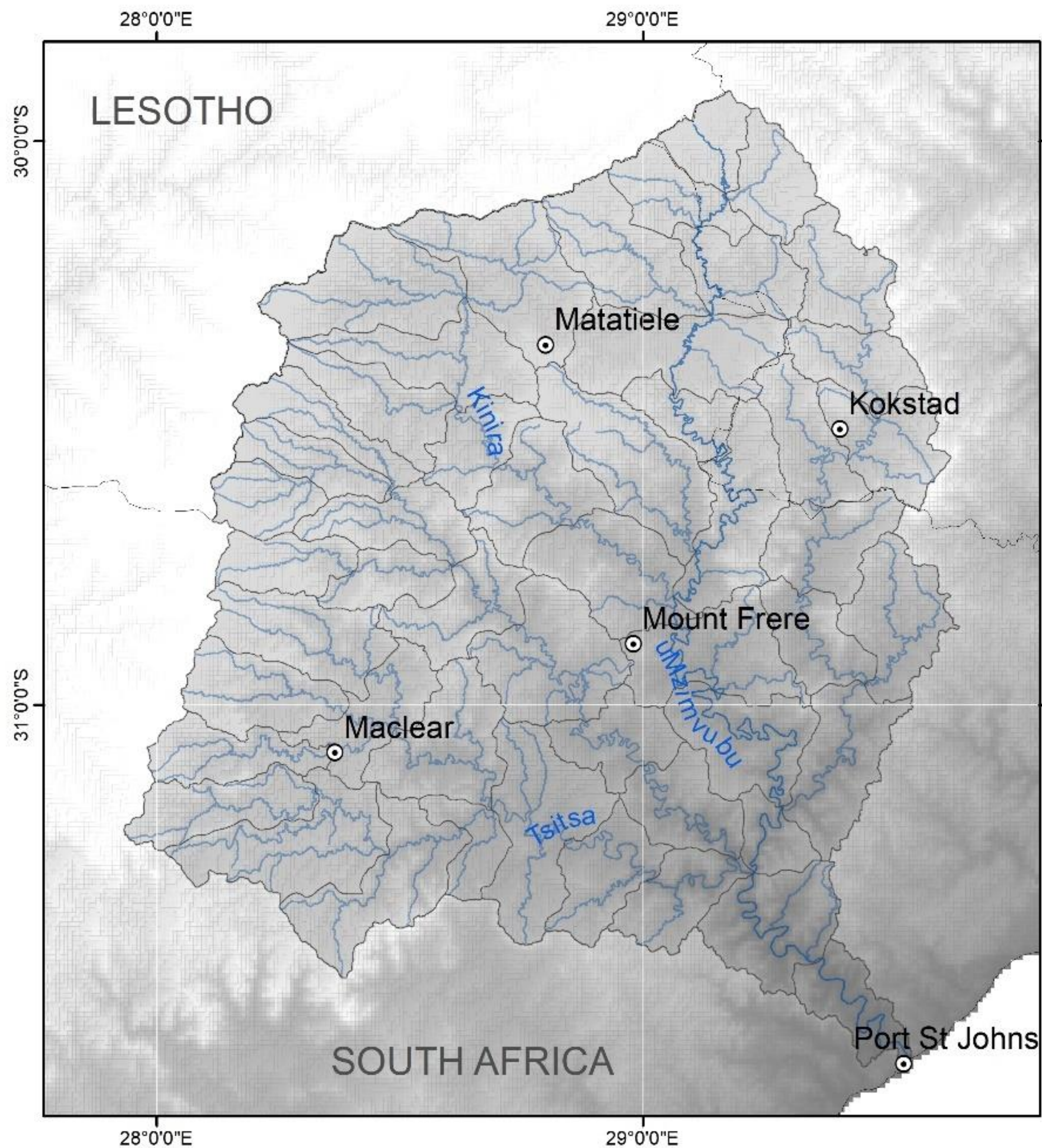
Vision & Adaptive Governance

- Strategic planning & adaptive management
- Monitoring & learning mechanisms

Effectiveness

- Enforcement & compliance
- Distribution of benefits
- Water-related conflict



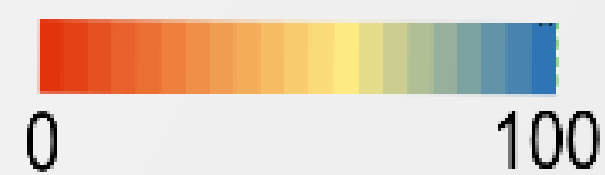
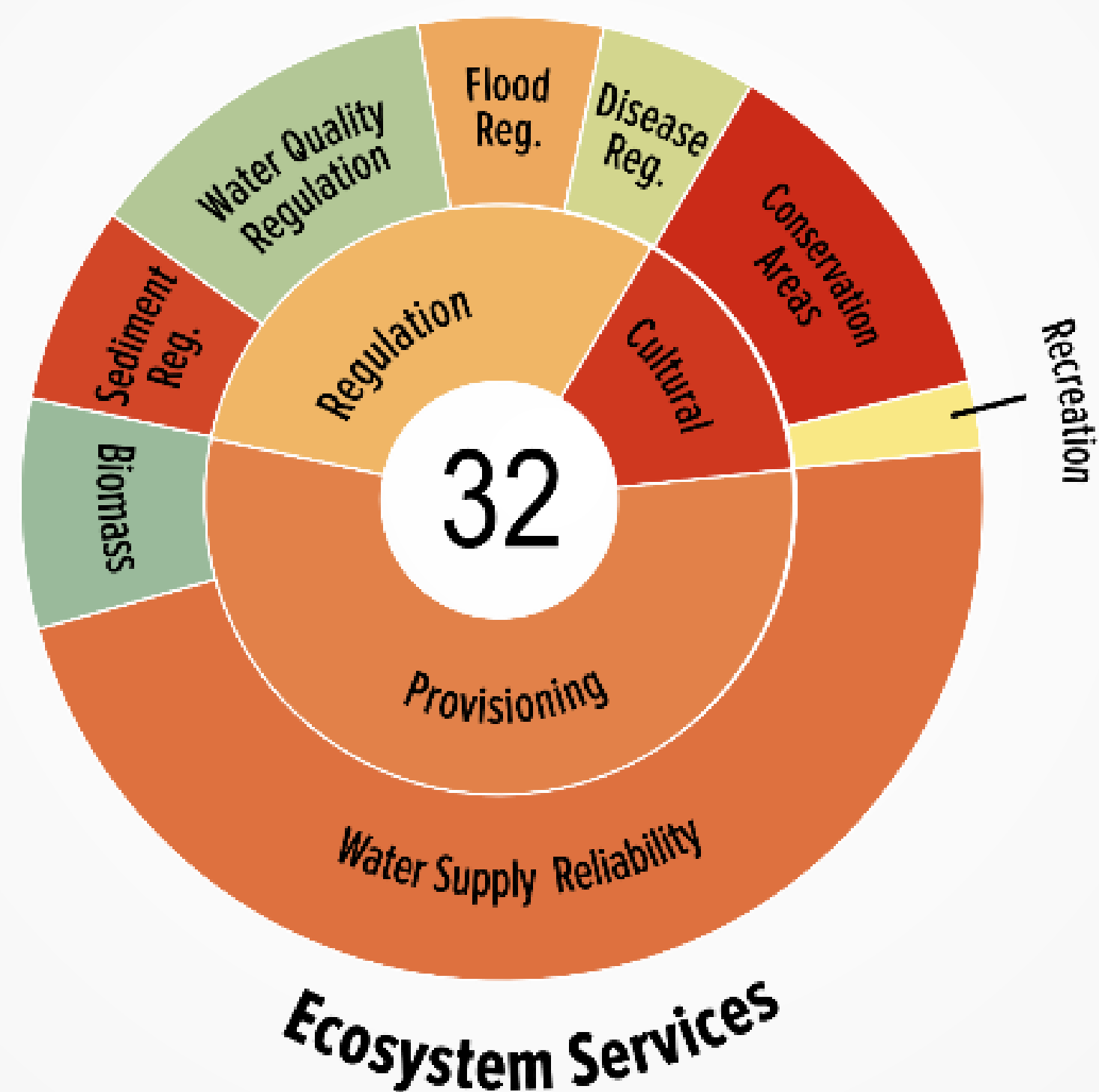


PROGRESS TO DATE

- Started with desktop data collection in April 2020
- Two stakeholder workshops to track down missing/better data, ground-truth, and better understand priorities
- Draft final report end of 2021 showing scores for Ecosystem Vitality, Ecosystem Services and Governance & Stakeholders
- Upcoming stakeholder workshop March 2022 to discuss results and deliberate next steps



RESULTS



WHAT DO WE DO WITH THIS INFORMATION?

- ✓ Designed to engage multiple stakeholders – from catchment management organizations and water utilities, to regional and national ministries, corporations and NGOs.
- ✓ Working together, users can evaluate scenarios, understand the trade-offs of certain decisions, prioritize actions and communicate about catchment health with a broad audience.
- ✓ Come to the final stakeholder workshop!



THANK YOU