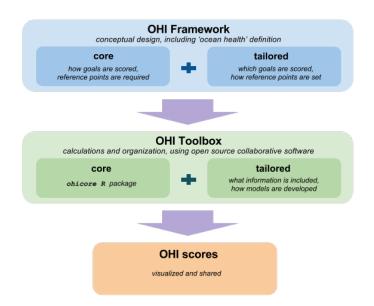
Introduction to Conduct Phase

Ocean Health Index

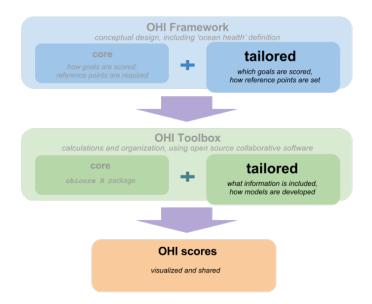
OHI-Science Team

January, 2016

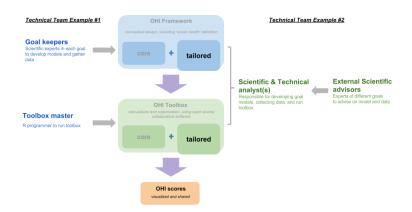
OHI Framework



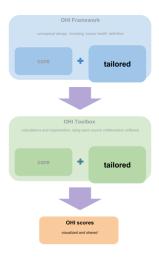
OHI Framework - Tailored



Technical Team Structure



Workflow



Workflow

Define Boundaries
Select and develop goal models
Gather data, pressures & resilience
Set reference points



Request an OHI+ repository
Format, store, and register data
Modify goal models
Calculate scores



Make flower plots Report results

Tailored Framework: Best Practices

- Conceptual planning, model building, and data gathering
- ► Keep in mind at all times these Best Practices (see publication) or Manual

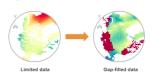
Build the conceptual framework

Which benefits does the ocean provide in your local area? What are key ecological, social, and economic characteristics and priorities? Identify these and build a conceptual framework before authoring existing information.



Remain true to the framework

Existing, available data can be limited or not ideal. But it is possible to fill gaps, use proxy data, or incorporate intermediate models. But stick to your conceptual framework and priorities to get a complete picture of ocean health.



Define spatial boundaries

The boundaries of your assessment should be a driven by the boundaries where information is reported and policy decisions are made.



Document and share the process

Methods developed and lessons learned through the assessment process should be shared with future assessments. Methods should be reproducible in one location through time and repeatable in different locations. This requires transparency and communication throughout the assessment.



Step 1: Define Spatial Boundaries

- Within which all assessments occur.
- Judicial boundaries at decision-making scales are preferred



1. Start with land-based boundaries



2. Draw offshore buffers for each region



3. Offshore buffers overlap



4. With the Thiessen Polygon approach, the overlap is divided...



Step 2: Select Goals and Develop Goal Models

Ten commonly assessed goals (insert Lauren's figures later)

Conceptual and Practical guidance for each goal (Manual - Appendix 1)

- ▶ understand each goal, stick to the definition but think creatively how to represent each goal (Best Practice #1 and #3)
- how to work different goals together
- evaluate reference point, pressures, resilience while collecting data
- send data and develop models using templates (Appendix 2 & 3)

Step 3: Gather Data, Pressure, and Resilience

- Gather open-access data that will be updated regularly
- ▶ Data for Status, Pressures, and Resilience for each goal
- Use appropriate temporal and spatial scales
- High quality data collected by respected organizations under certain protocol
- If can't find ideal data, use proxy data or gapfill

Tailored Toolbox

Now you have

- defined spatial boundaries
- developed goal models
- collected data

You can request an **Assessment Repository** and start using the **Toolbox**

- ► Repository is where all the data are stored, managed, and calculations occur
- Github-based
- Toolbox is the software packages for calculations
- Github and R based
- open-source

Step 4: Format, Store, and Register data

- Toolbox require specific formats
- long formats
- rescaled to 0-1
- Registered to be called upon during calculation

Step 5: Modify Goal Models and Calculate Scores

Calculate: Status, Trend, Pressure, and Resilience Report results using template

Main Resources

- ▶ ohi-science.org: main site for all OHI+ related topics
- ▶ Manual: conceptual and technical guidance for each step
- ► **Forum**: on-line community for OHI+ practitioners to connect and learn from each other
- ► Turorials: presentations
- Contact our team: info@ohi-science.org