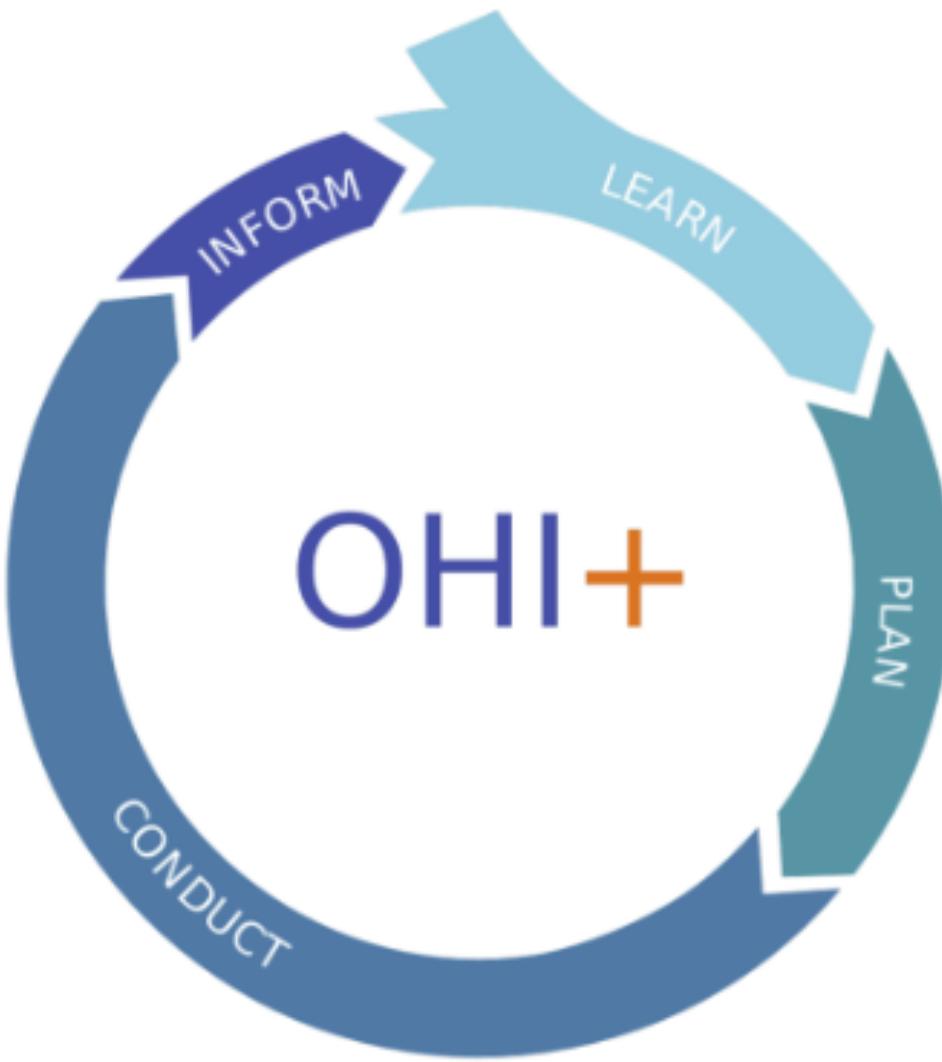
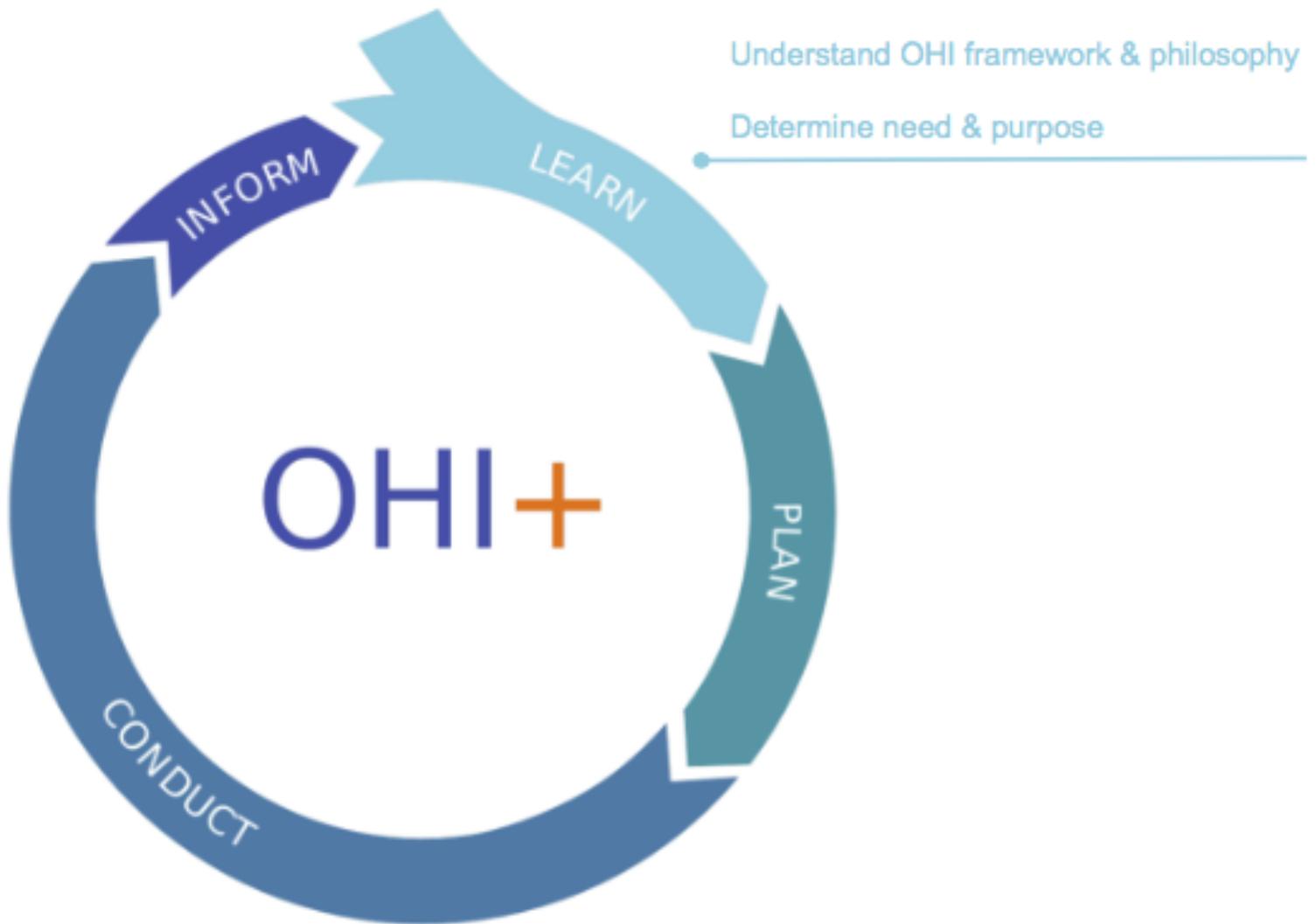


OCEAN
HEALTH
INDEX™
+ = independent assessment

Assessments at any spatial scale:
political and ecological

Updated Jan 2016. For updated information visit ohi-science.org





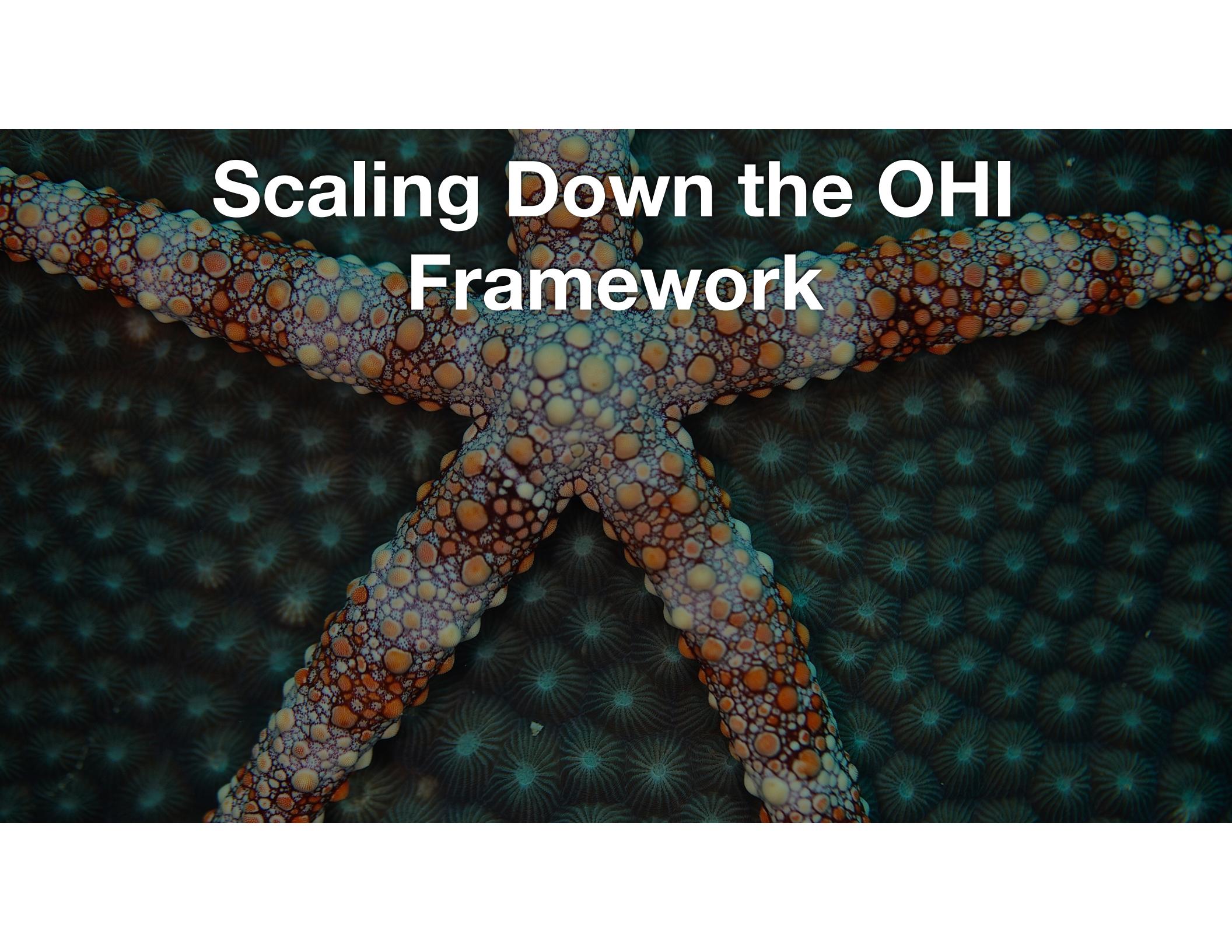
OUTLINE



OUTLINE

1. Introducing OHI+
2. Tailorablee Framework & Adaptations
3. Case Studies
4. Benefits & Applications
5. OHI+ Toolbox



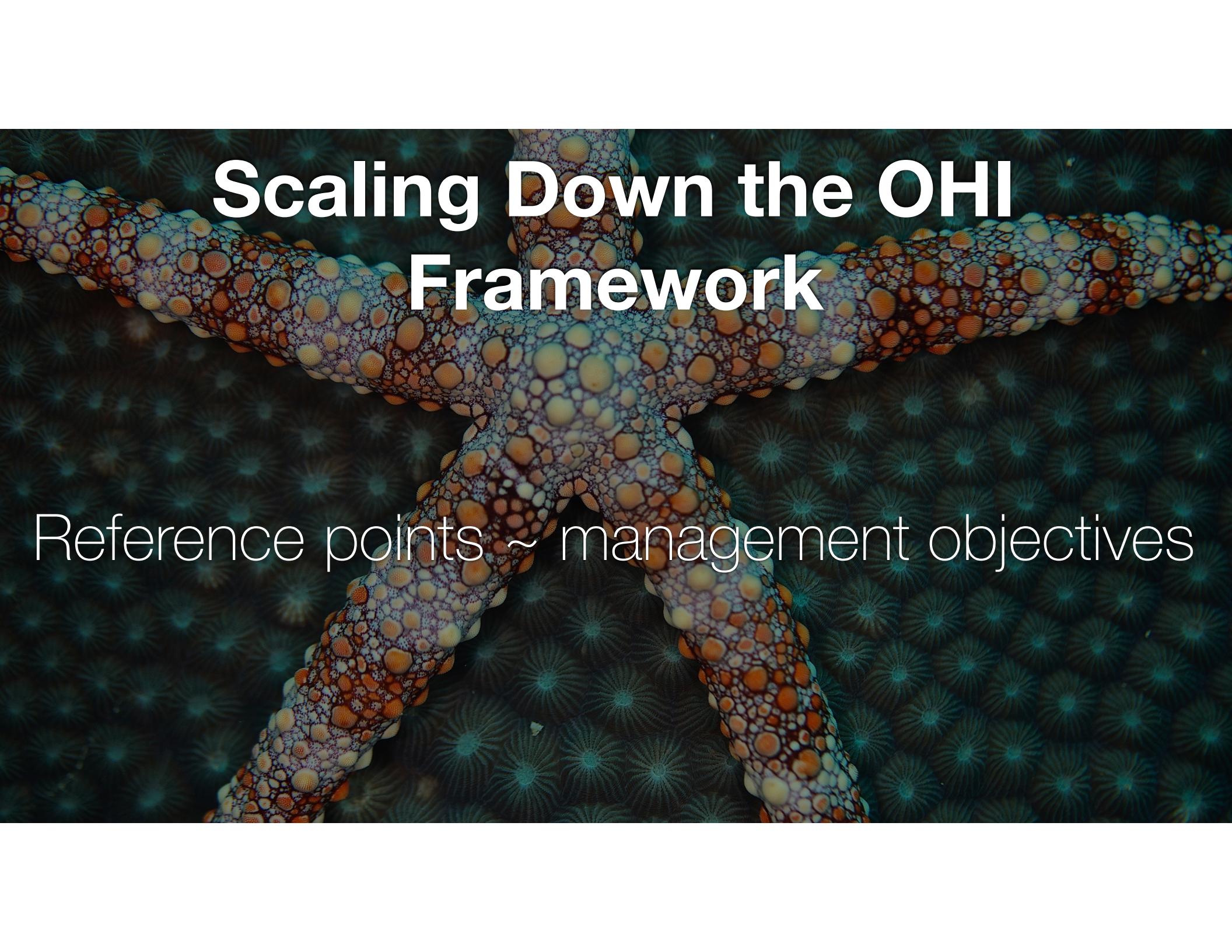


Scaling Down the OHI Framework

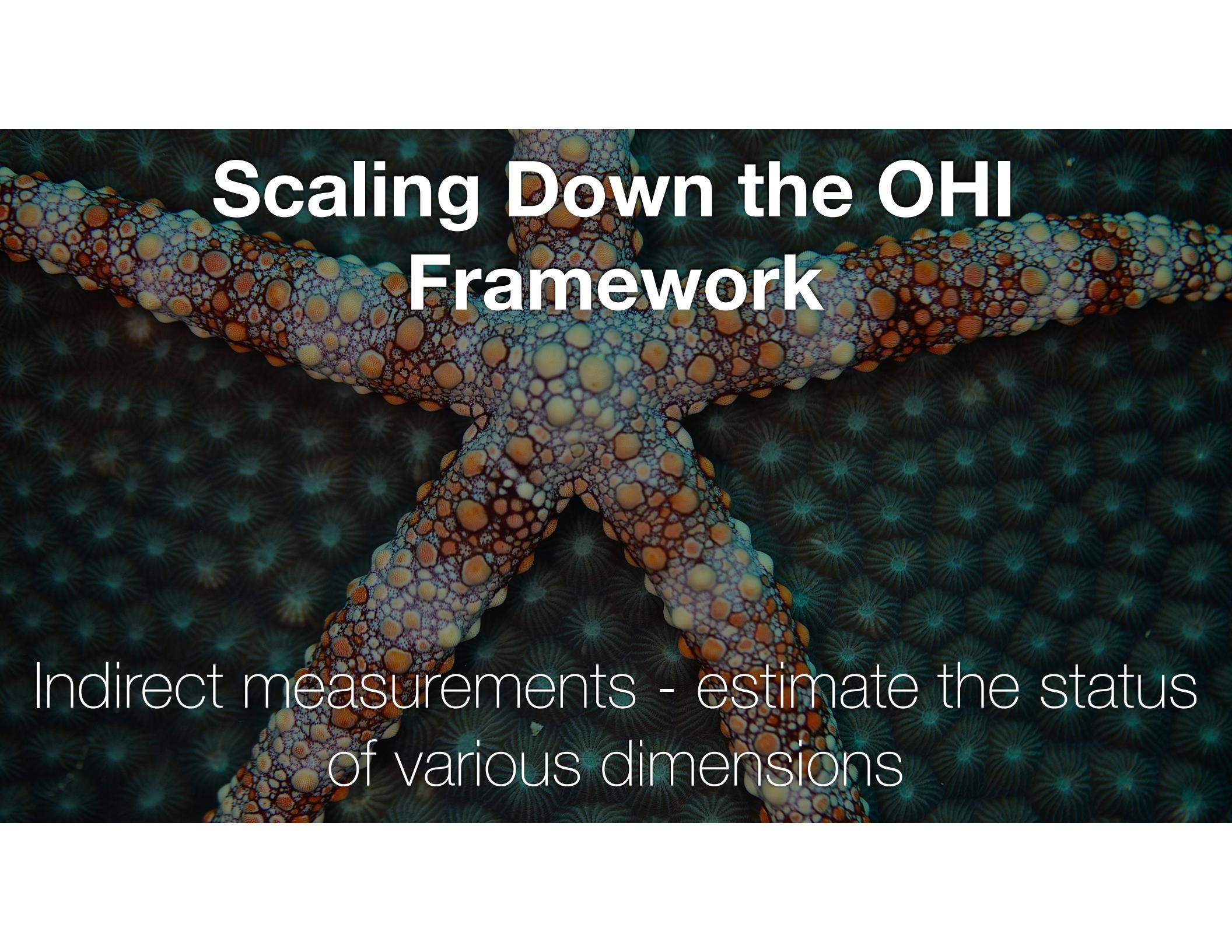
Scaling Down the OHI Framework

Marine aspects are more or less important

Scaling Down the OHI Framework



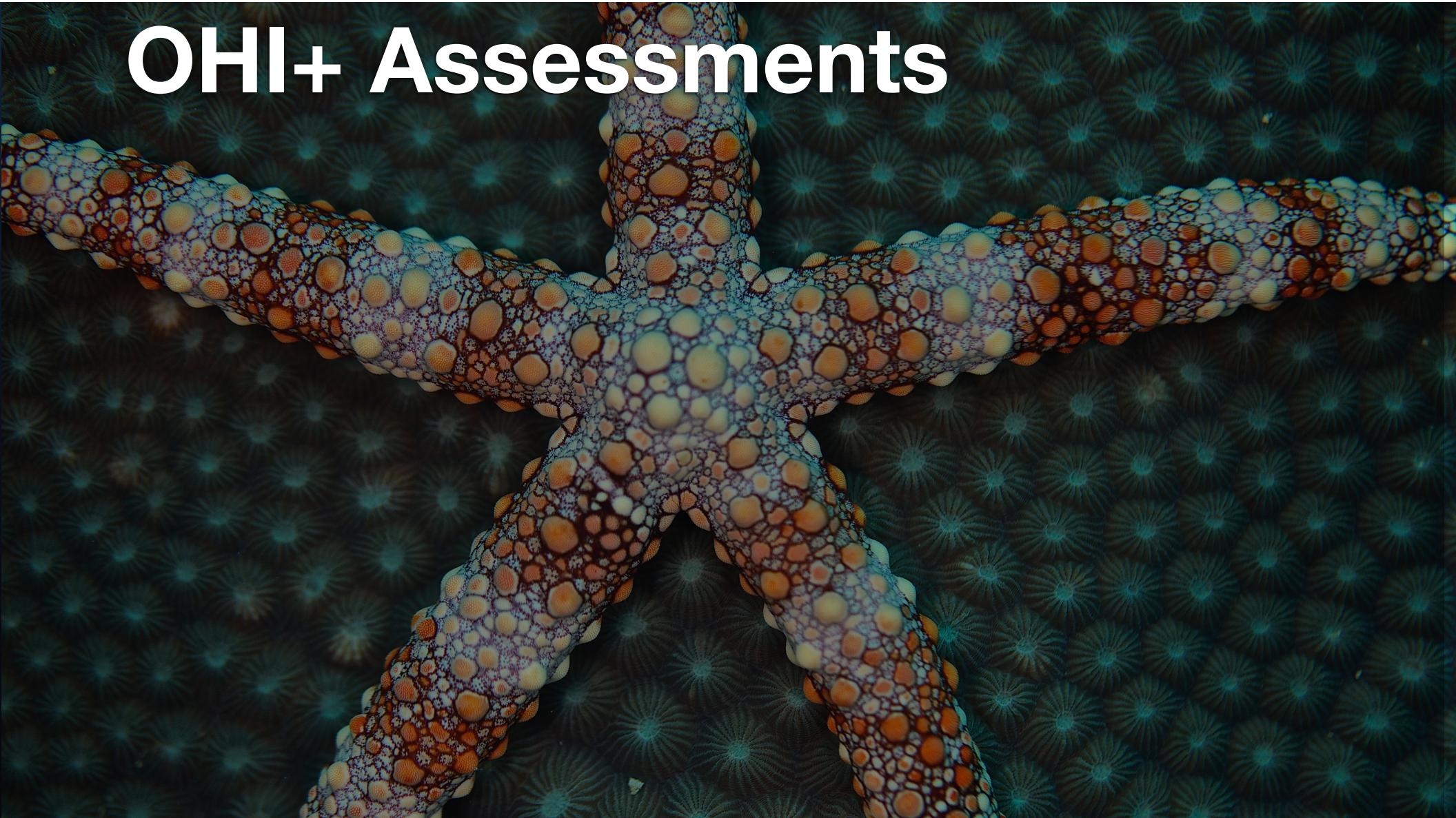
Reference points ~ management objectives



Scaling Down the OHI Framework

Indirect measurements - estimate the status
of various dimensions

OHI+ Assessments



OHI+ Assessments

scales smaller than global: countries, states, provinces,
eco-regions

OHI+ Assessments

scales smaller than global: countries, states, provinces,
eco-regions

At the scales where decisions are made

OHI+ Assessments

scales smaller than global: countries, states, provinces,
eco-regions

Relevant to local management

OHI+ Assessments

scales smaller than global: countries, states, provinces,
eco-regions

BALANCE: needs of people, economic
development, natural resources

Study area & regions

Global
assessments

vs.

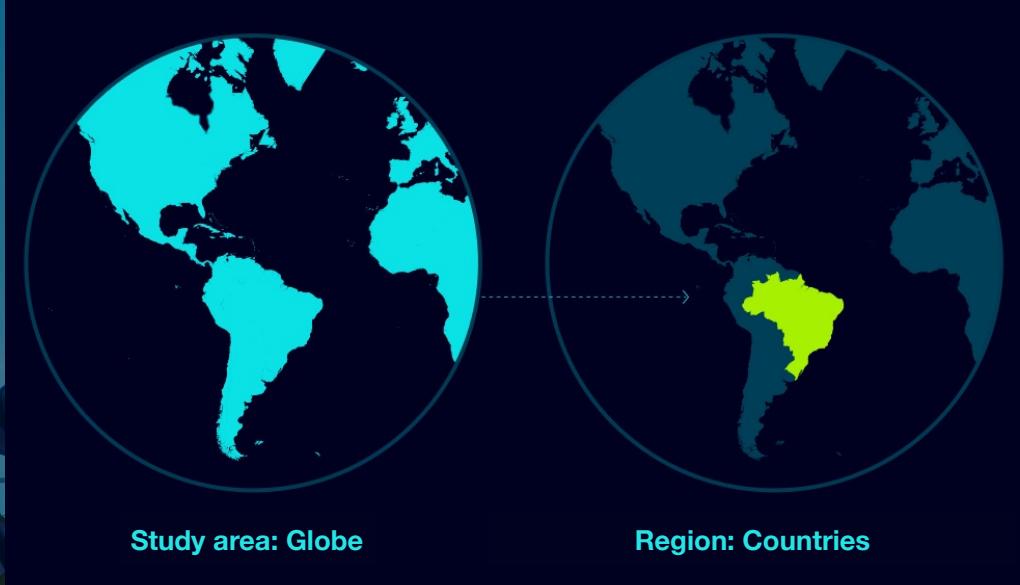
OHI+
independent
assessments

Study area & regions

Global
assessments

vs.

OHI+
independent
assessments



Study area & regions

Global
assessments

vs.

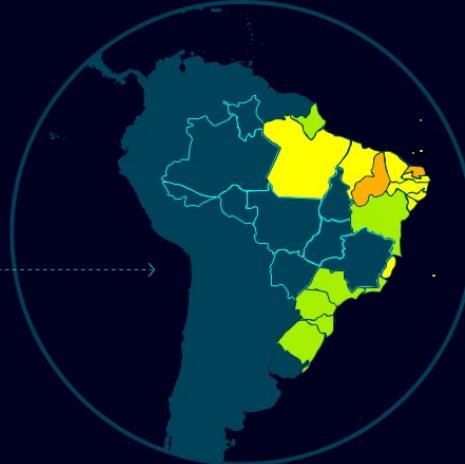
OHI+
independent
assessments

Study area: Country

Region: States

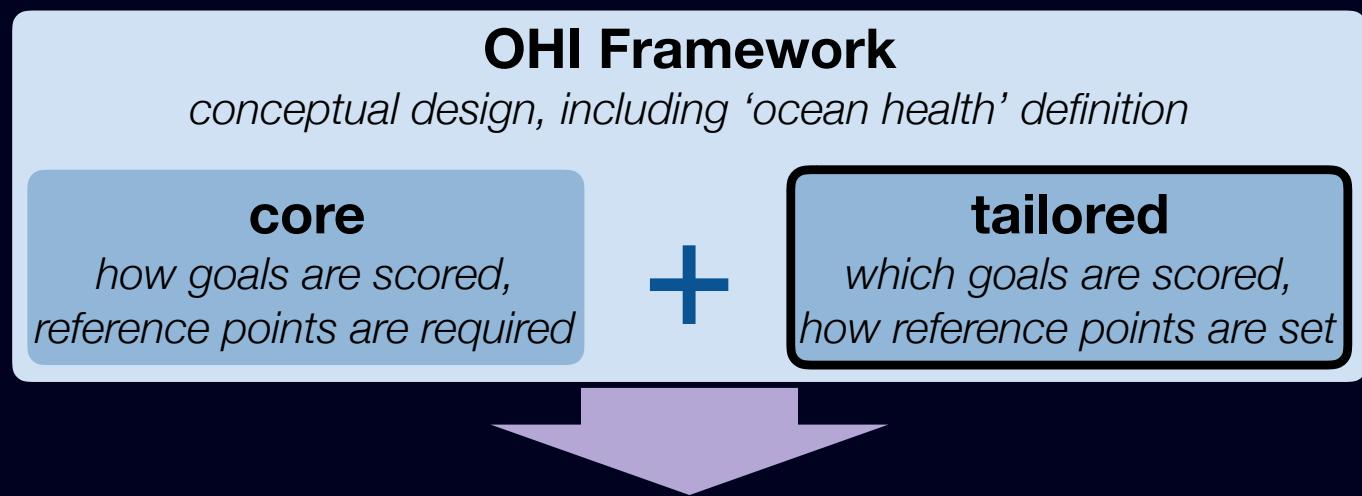
Study area: Globe

Region: Countries

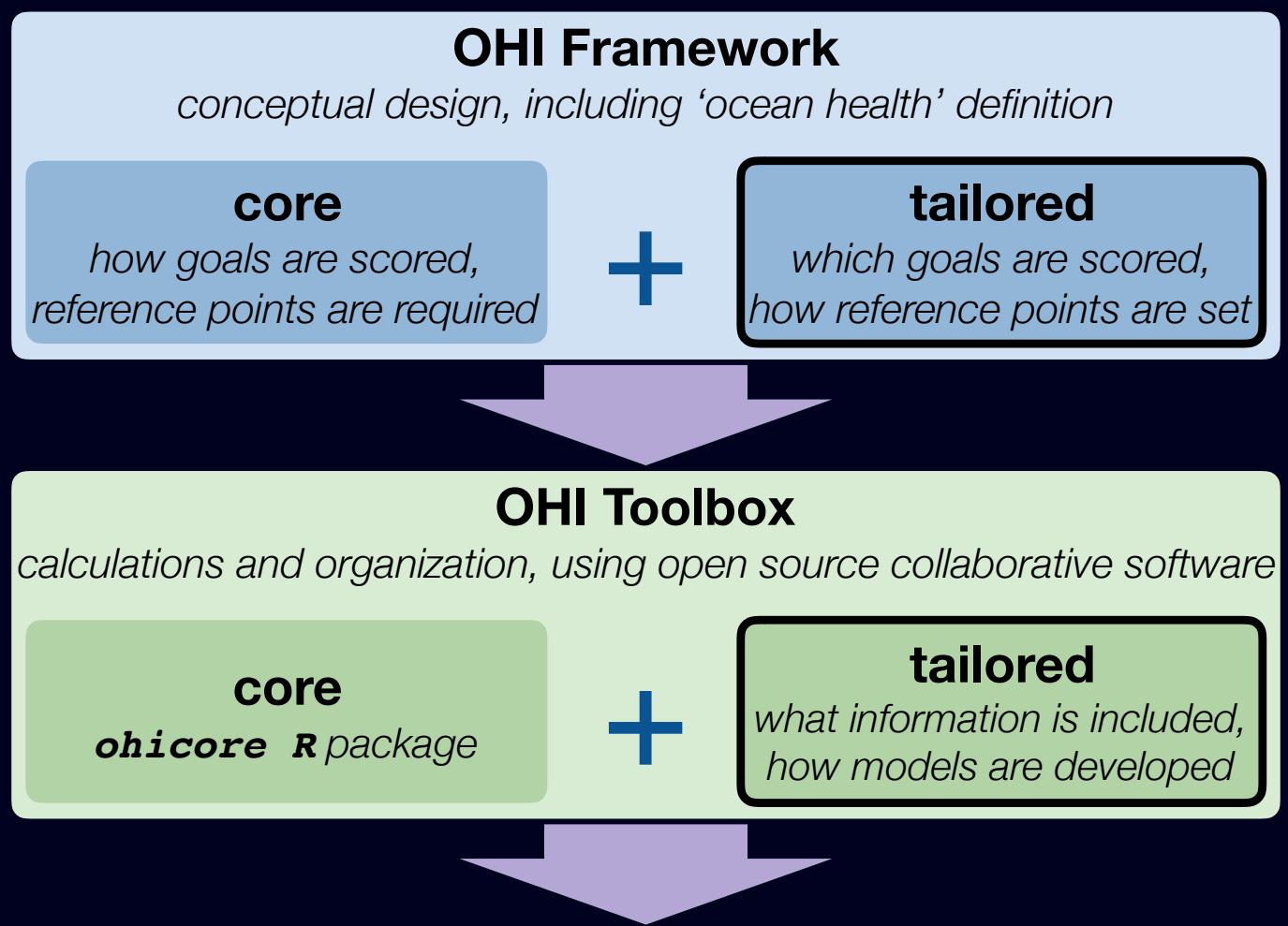


CORE +
TAILORABLE
framework

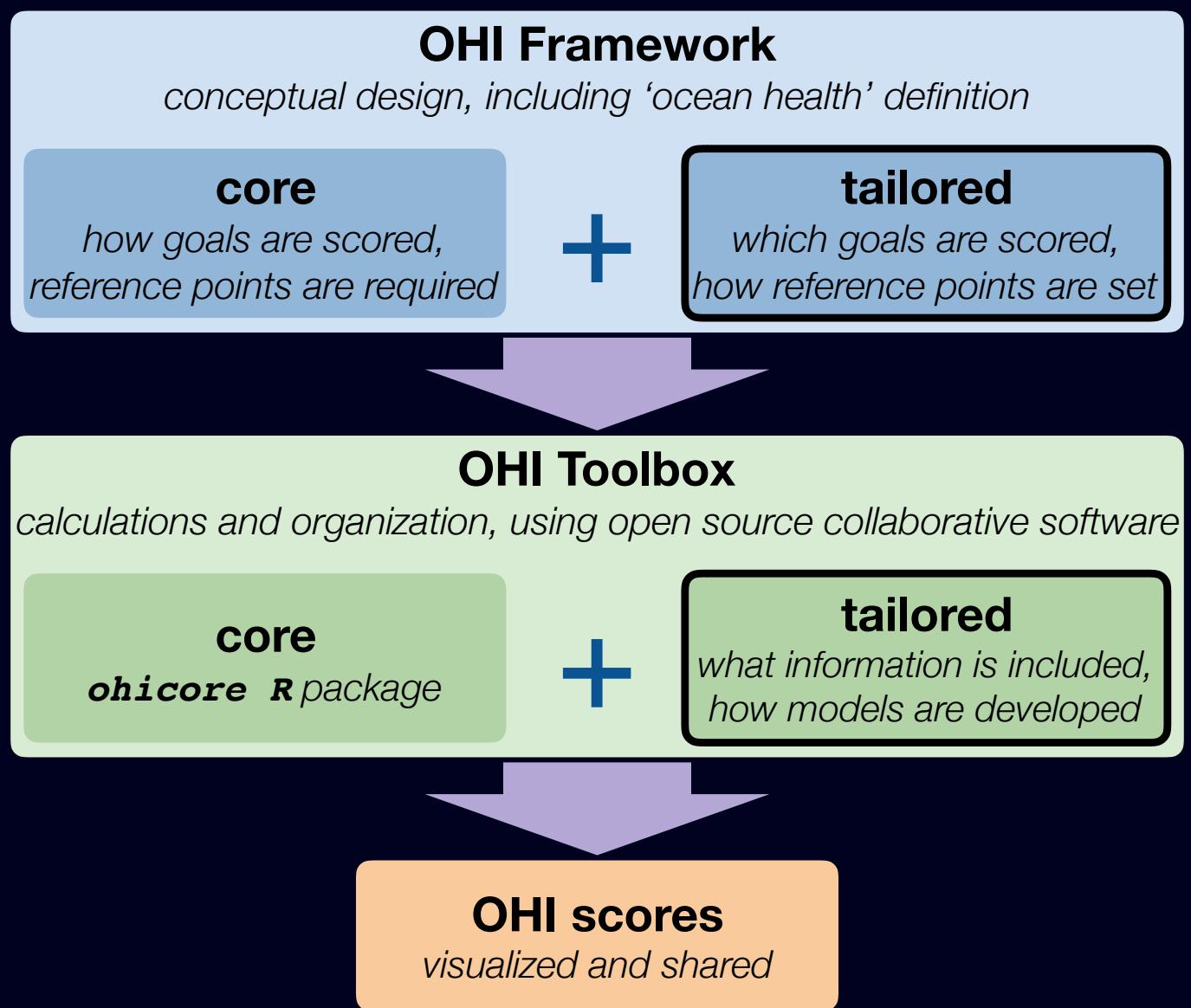
CORE + **TAILORABLE** framework



CORE + TAILORABLE framework



CORE + TAILORABLE framework



Adapting the Ocean Health Index



Adapting the Ocean Health Index

Add or exclude goals

Adapting the Ocean Health Index

Locally relevant goal models

Adapting the Ocean Health Index



Stakeholder set reference points

Adapting the Ocean Health Index



Weighing Goals

Weighing Goals

Goal	Global
Food Provision	0.10
Artisanal Opportunity	0.10
Natural Products	0.10
Carbon Storage	0.10
Coastal Protection	0.10
Coastal Livelihoods & Economies	0.10
Tourism & Recreation	0.10
Sense of Place	0.10
Clean Waters	0.10
Biodiversity	0.10

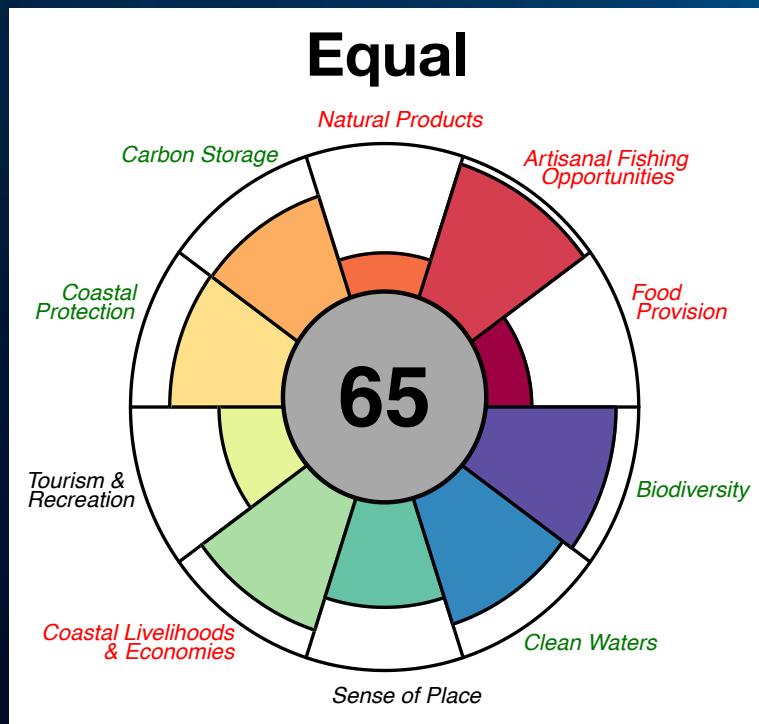
Weighing Goals

Goal	Global	Conservationist
Food Provision	0.10	0.05
Artisanal Opportunity	0.10	0.05
Natural Products	0.10	0.05
Carbon Storage	0.10	0.15
Coastal Protection	0.10	0.15
Coastal Livelihoods & Economies	0.10	0.10
Tourism & Recreation	0.10	0.05
Sense of Place	0.10	0.10
Clean Waters	0.10	0.15
Biodiversity	0.10	0.15

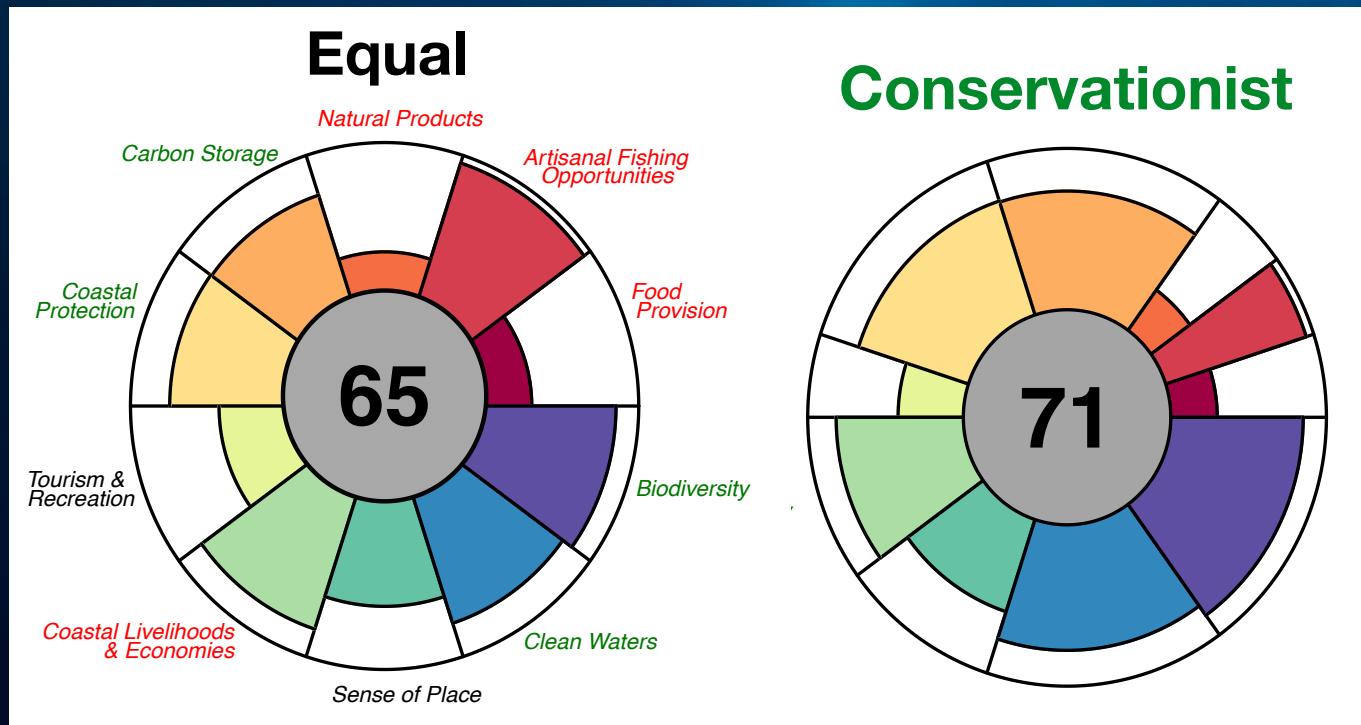
Weighing Goals

Goal	Global	Conservationist	Strongly Extractive
Food Provision	0.10	0.05	0.18
Artisanal Opportunity	0.10	0.05	0.18
Natural Products	0.10	0.05	0.18
Carbon Storage	0.10	0.15	0.03
Coastal Protection	0.10	0.15	0.09
Coastal Livelihoods & Economies	0.10	0.10	0.18
Tourism & Recreation	0.10	0.05	0.09
Sense of Place	0.10	0.10	0.03
Clean Waters	0.10	0.15	0.03
Biodiversity	0.10	0.15	0.03

Weighing Goals

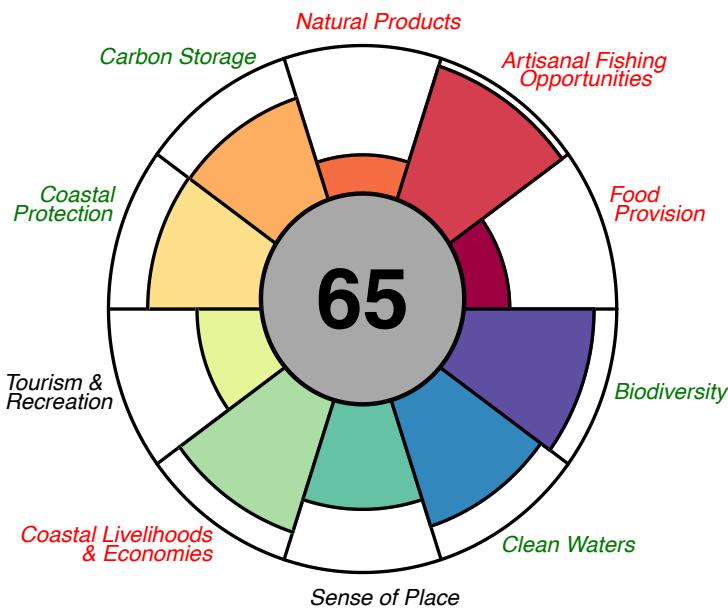


Weighing Goals

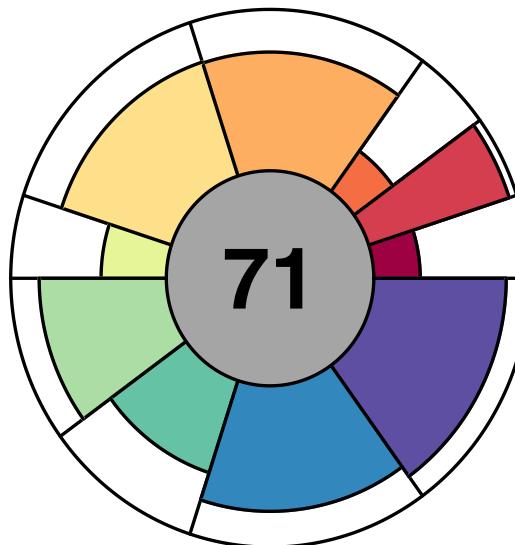


Weighing Goals

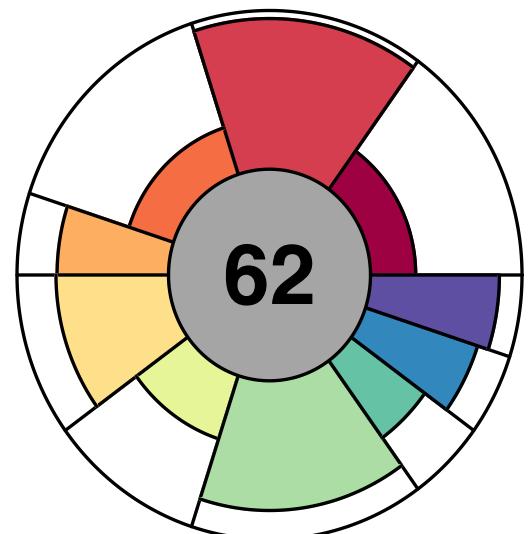
Equal



Conservationist



Extractionist



Modifying Goal Models



Modifying Goal Models

Capture goal philosophies in a different way



Modifying Goal Models

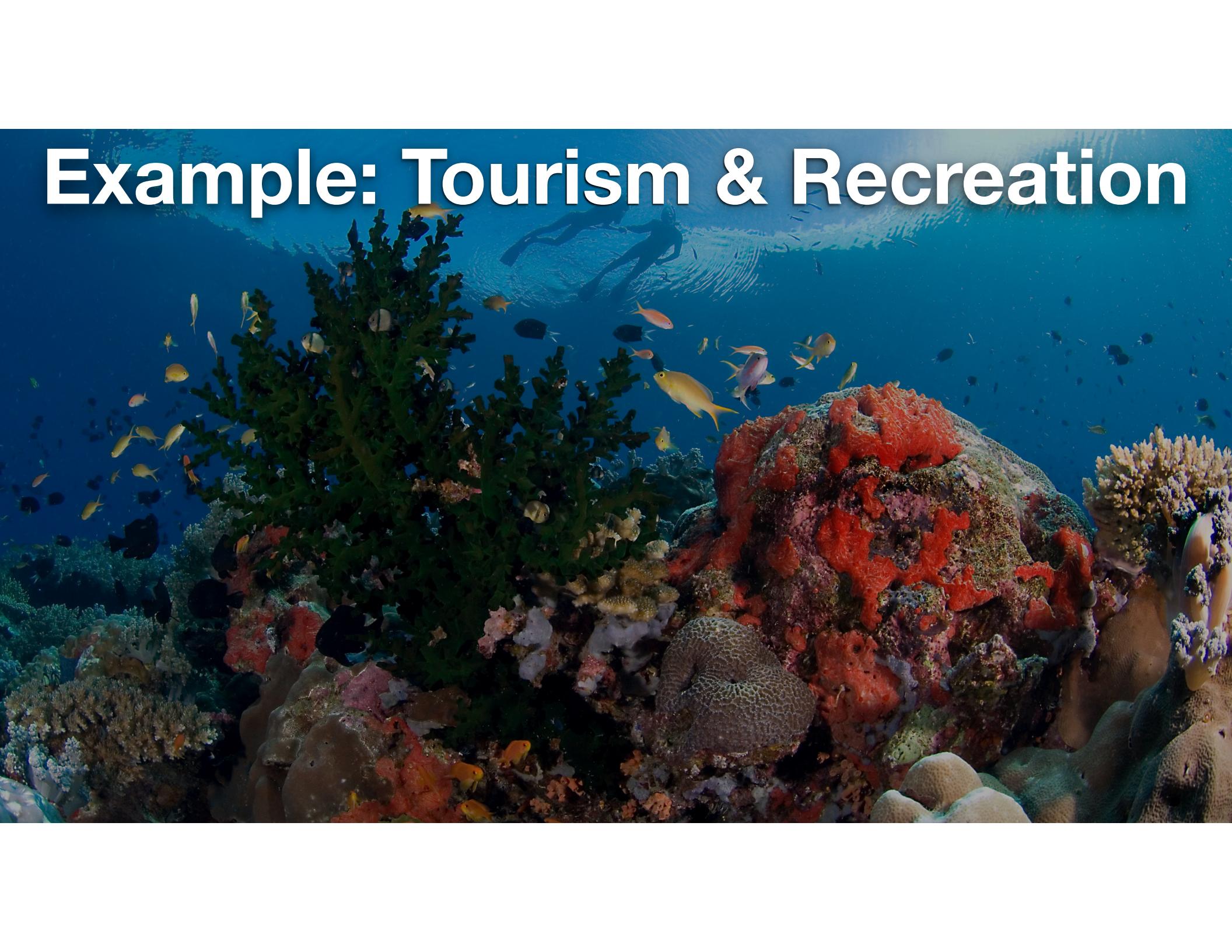
Reasons:

Management objectives

Data availability

Cultural priorities or preferences

Example: Tourism & Recreation

A vibrant underwater photograph of a coral reef. In the foreground, a large, dark green, branching coral structure is visible. To its right, a large, textured rock covered in bright red and orange sponges sits on the seabed. The water is a deep blue, and numerous small, colorful fish, including yellow and blue species, are swimming around the reef. In the background, two people are snorkeling, their figures silhouetted against the light. The overall scene is a rich tapestry of marine life and ecosystem health.

Example: Tourism & Recreation

Global 2012
International
Arrivals



Example: Tourism & Recreation

Global 2012

International
Arrivals



Brazil 2014

Employment in
coastal tourism

Example: Tourism & Recreation

Global 2012

International
Arrivals

U.S. West Coast

2014

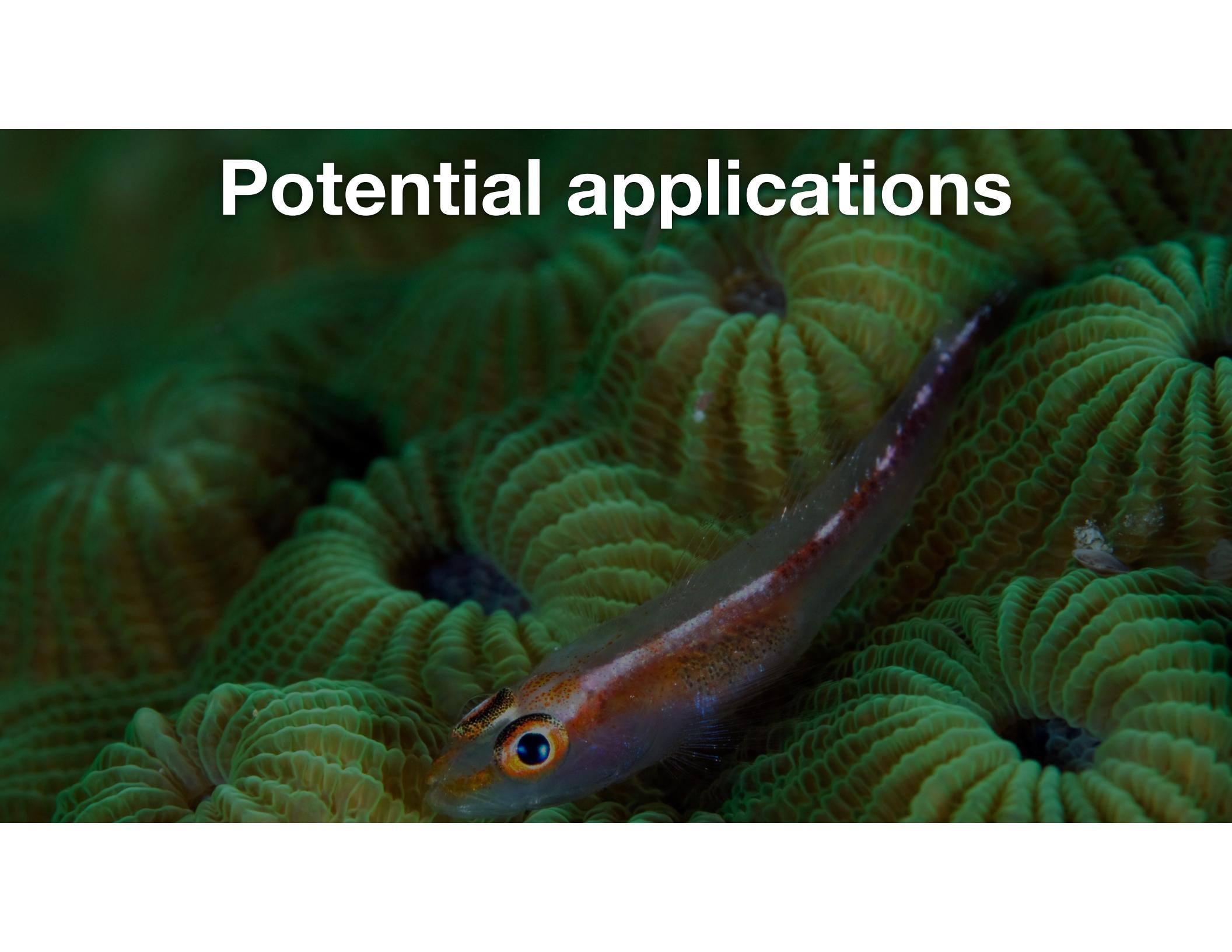
Participation rates in
tourism activities

Brazil 2014

Employment in
coastal tourism



Potential applications



Potential applications



Comparison of productivity and performance
across regions

Potential applications

Comparison of a region across time

Case Studies

U.S. West Coast Assessment



Study Area: West Coast



Region: States

U.S. West Coast Assessment

A photograph of an underwater kelp forest. The scene is dominated by tall, dark green kelp plants with long, thin stipes and large, wavy blades. Interspersed among the kelp are several bright yellow, teardrop-shaped organisms, likely nudibranchs or sea slugs, clinging to the stipes. The water is a clear, deep blue, providing a stark contrast to the green and yellow of the kelp and its inhabitants.

U.S. West Coast Assessment

Higher resolution **data** — 80% local data layers

U.S. West Coast Assessment

A close-up photograph of a dense kelp forest. The frame is filled with long, thin, yellowish-brown kelp stalks and large, dark green, textured leaves. The background is a deep blue, suggesting an underwater environment. The lighting creates highlights on the kelp's surfaces, emphasizing its organic forms.

Management relevant geographies

U.S. West Coast Assessment

A close-up, underwater photograph of a dense kelp forest. The scene is dominated by tall, vertical kelp stalks with large, textured leaves at the top. Several bright yellow, teardrop-shaped organisms, likely nudibranchs or eggs, are visible attached to the kelp. The water is a clear, deep blue, providing a stark contrast to the green and yellow of the kelp.

U.S. West Coast Assessment

Local model **adaptation:**

U.S. West Coast Assessment

Local model **adaptation:**

a) wild-caught fisheries: formal stock assessments

U.S. West Coast Assessment

Local model **adaptation:**

- a) wild-caught fisheries: formal stock assessments
- b) mariculture: potential sustainable productivity

U.S. West Coast Assessment

Local model **adaptation:**

- a) wild-caught fisheries: formal stock assessments
- b) mariculture: potential sustainable productivity
- c) tourism & recreation: participation rates

U.S. West Coast Assessment

Reference points based on **U.S. West Coast priorities:**

U.S. West Coast Assessment

Reference points based on **U.S. West Coast priorities:**

- a) mariculture: regional projections of economic and food security targets

U.S. West Coast Assessment

Reference points based on **U.S. West Coast priorities:**

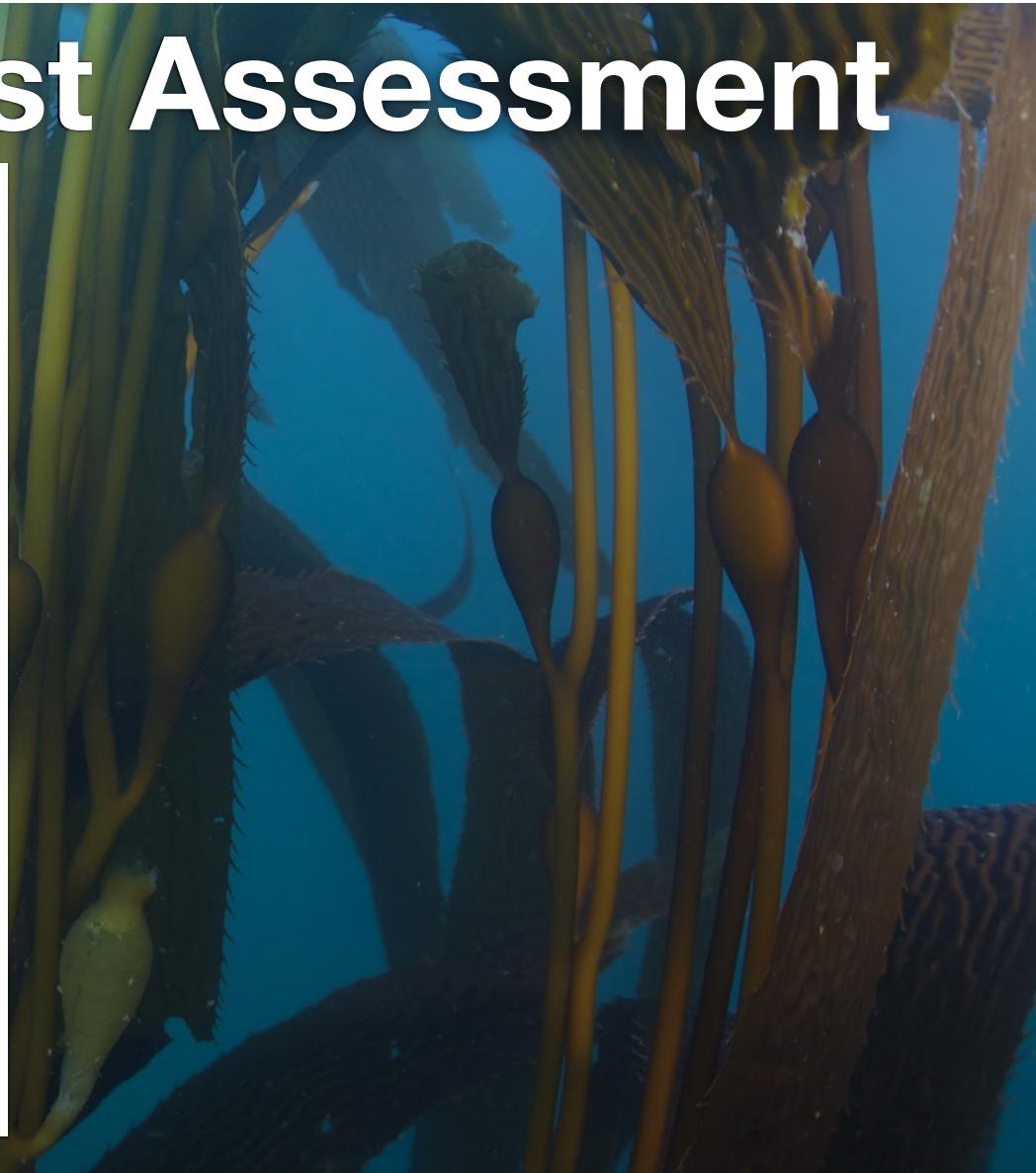
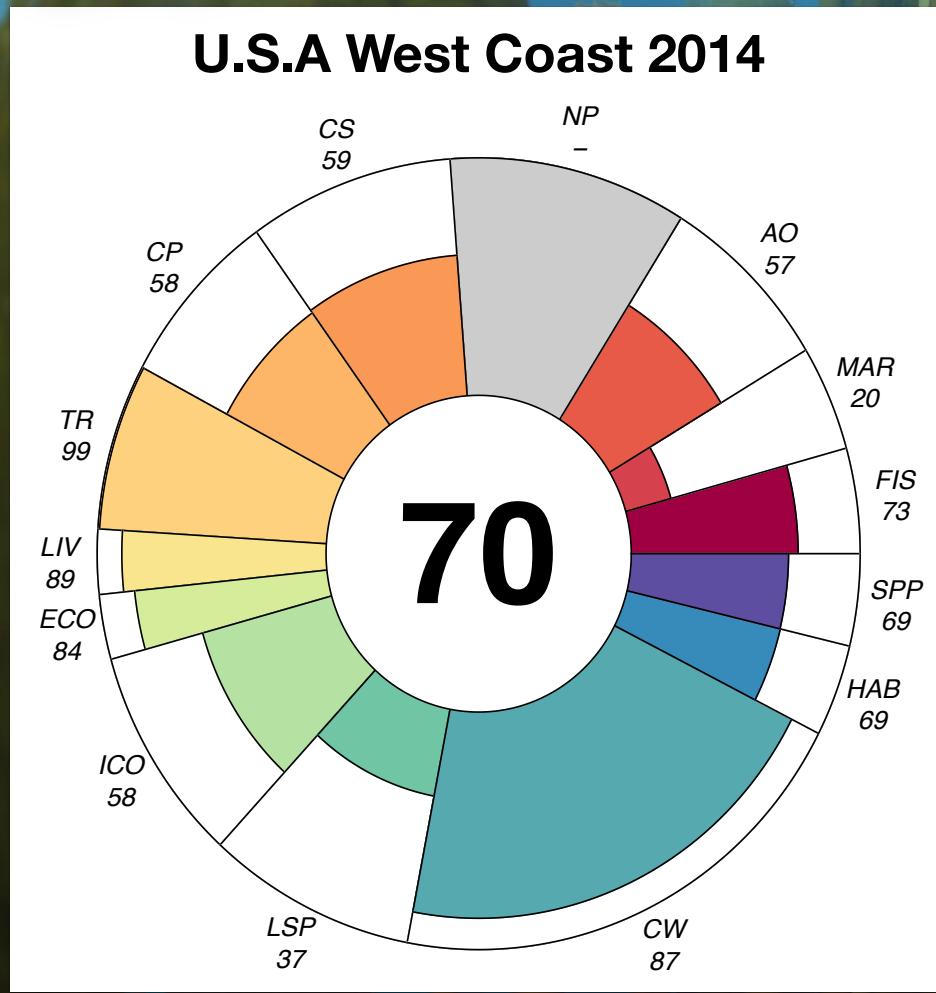
- a) mariculture: regional projections of economic and food security targets
- b) habitats: reconstruction of historic extents

U.S. West Coast Assessment

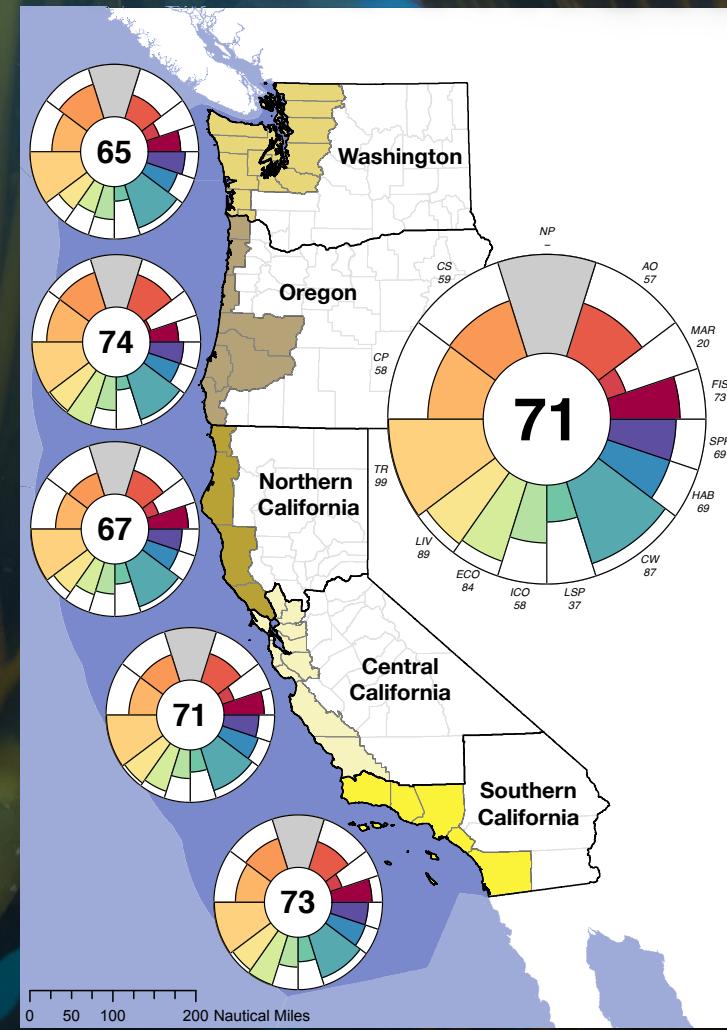
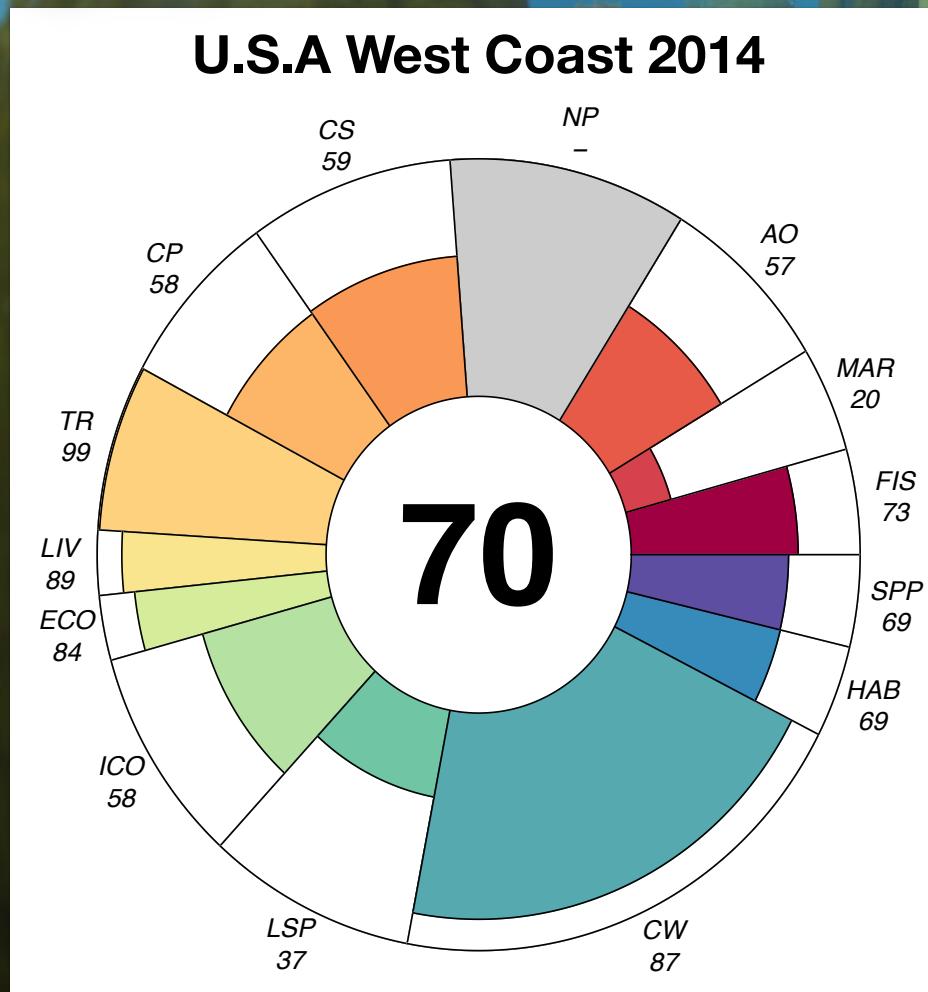
Reference points based on **U.S. West Coast priorities:**

- a) mariculture: regional projections of economic and food security targets
- b) habitats: reconstruction of historic extents
- c) lasting special places: included 3-200nm

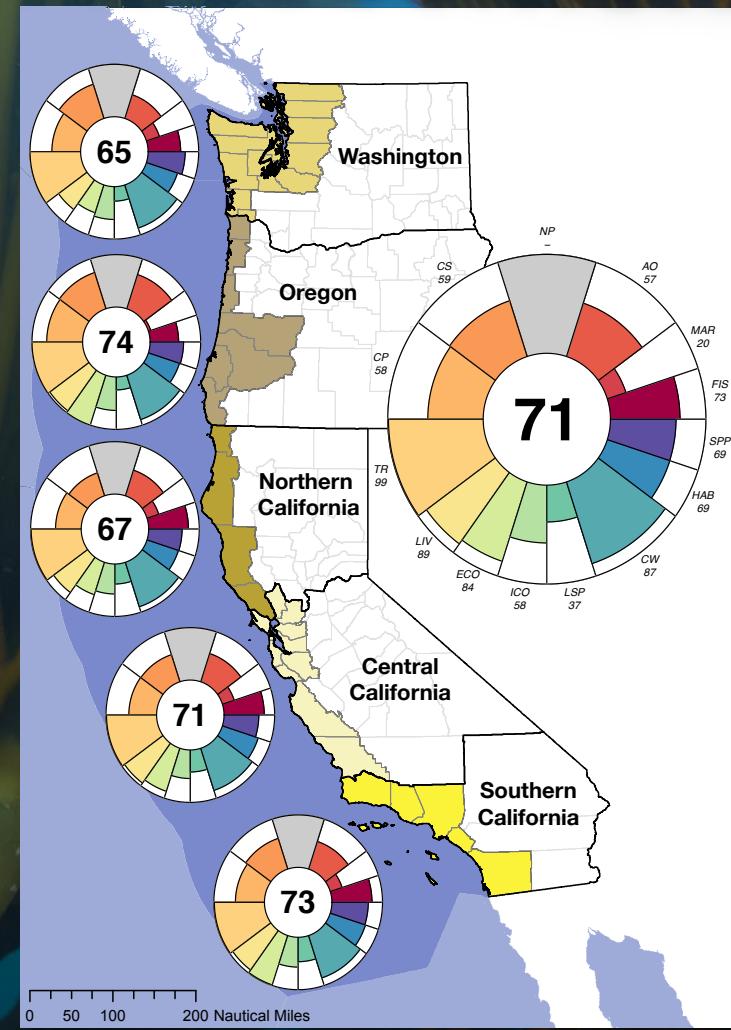
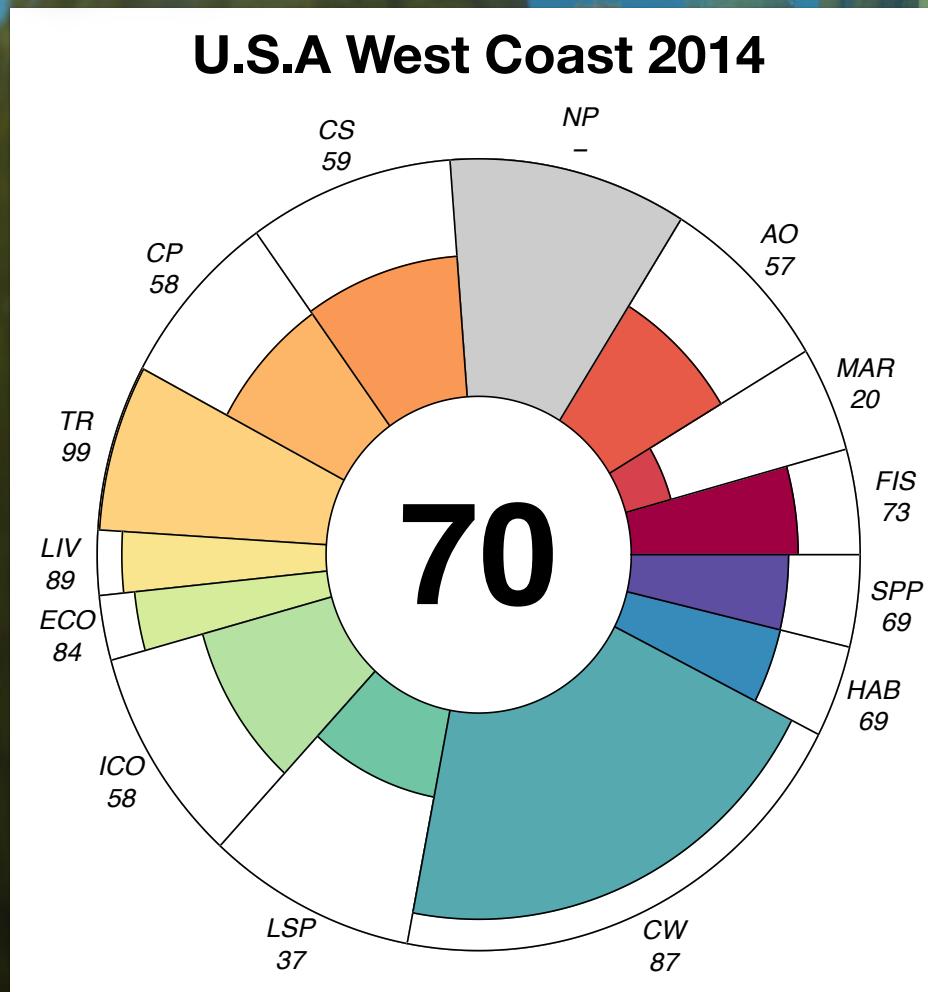
U.S. West Coast Assessment



U.S. West Coast Assessment



U.S. West Coast Assessment



U.S. West Coast Assessment

Goal Weights

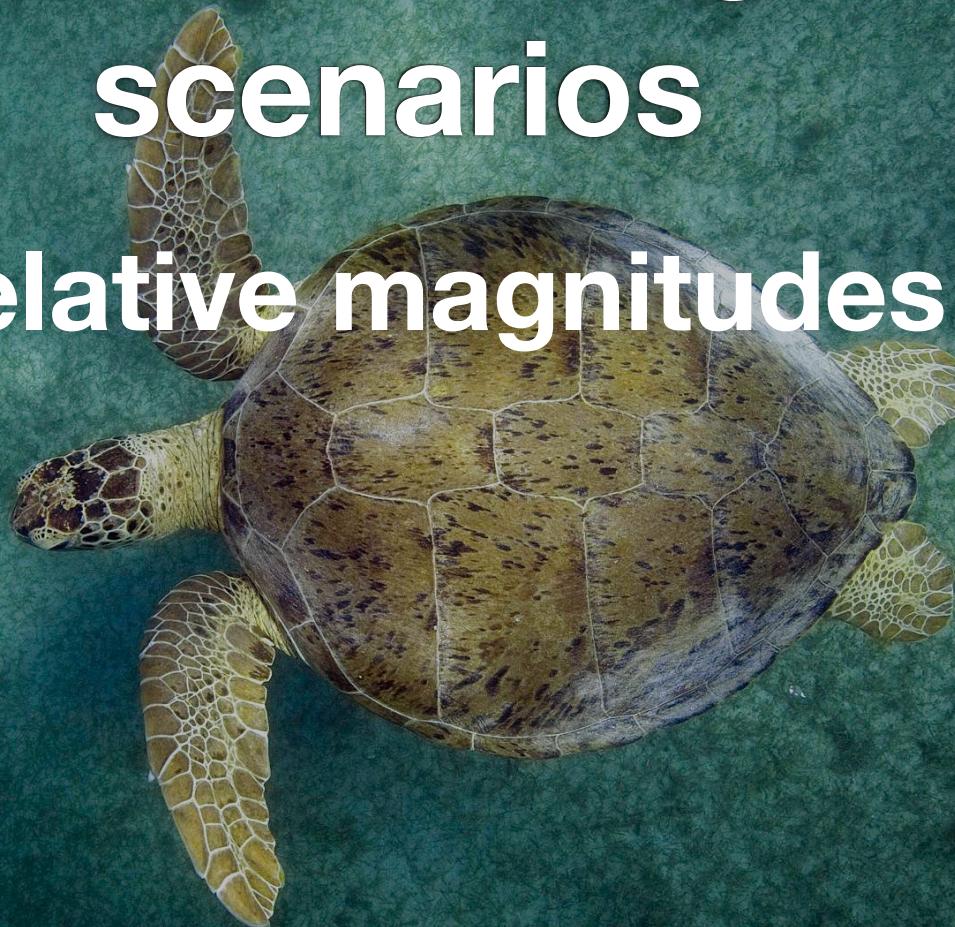
Food Provision	0.086
Artisanal Opportunity	0.075
Natural Products	0.102
Carbon Storage	0.087
Coastal Protection	0.073
Coastal Livelihoods & Economies	0.053
Tourism & Recreation	0.068
Sense of Place	0.177
Clean Waters	0.205
Biodiversity	0.075

Analysis of management scenarios



Analysis of management scenarios

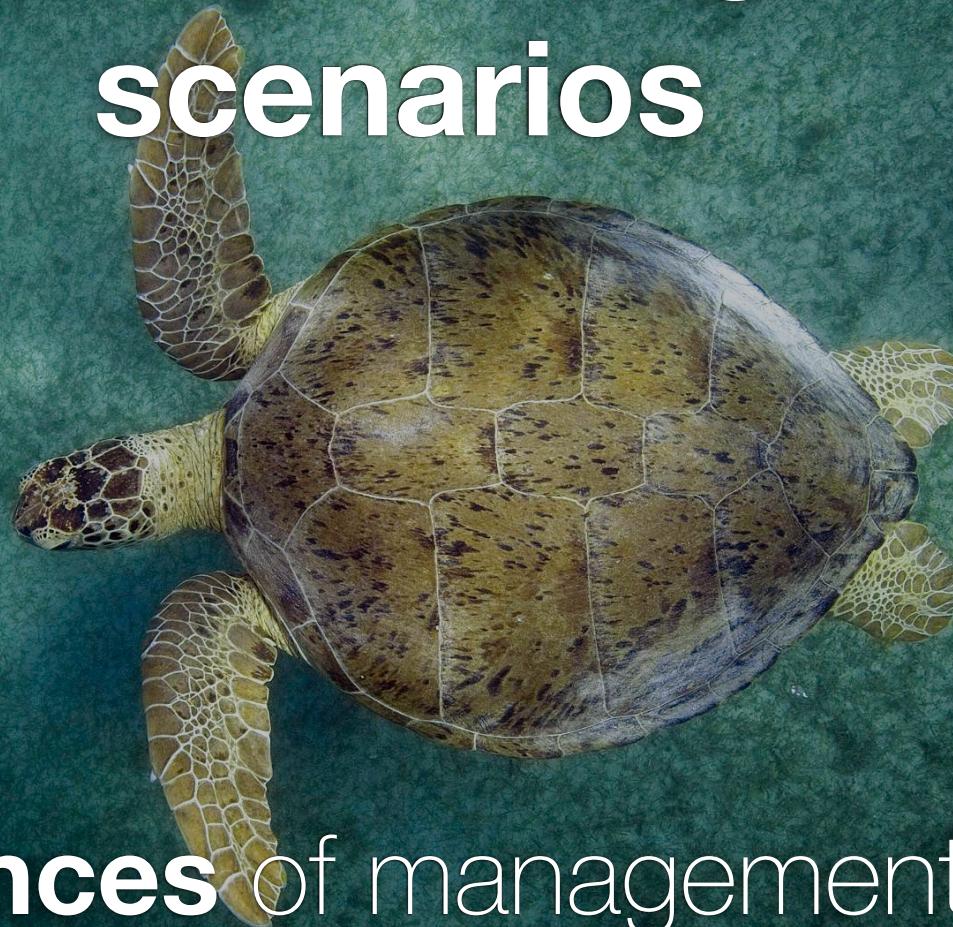
Types and relative magnitudes of change



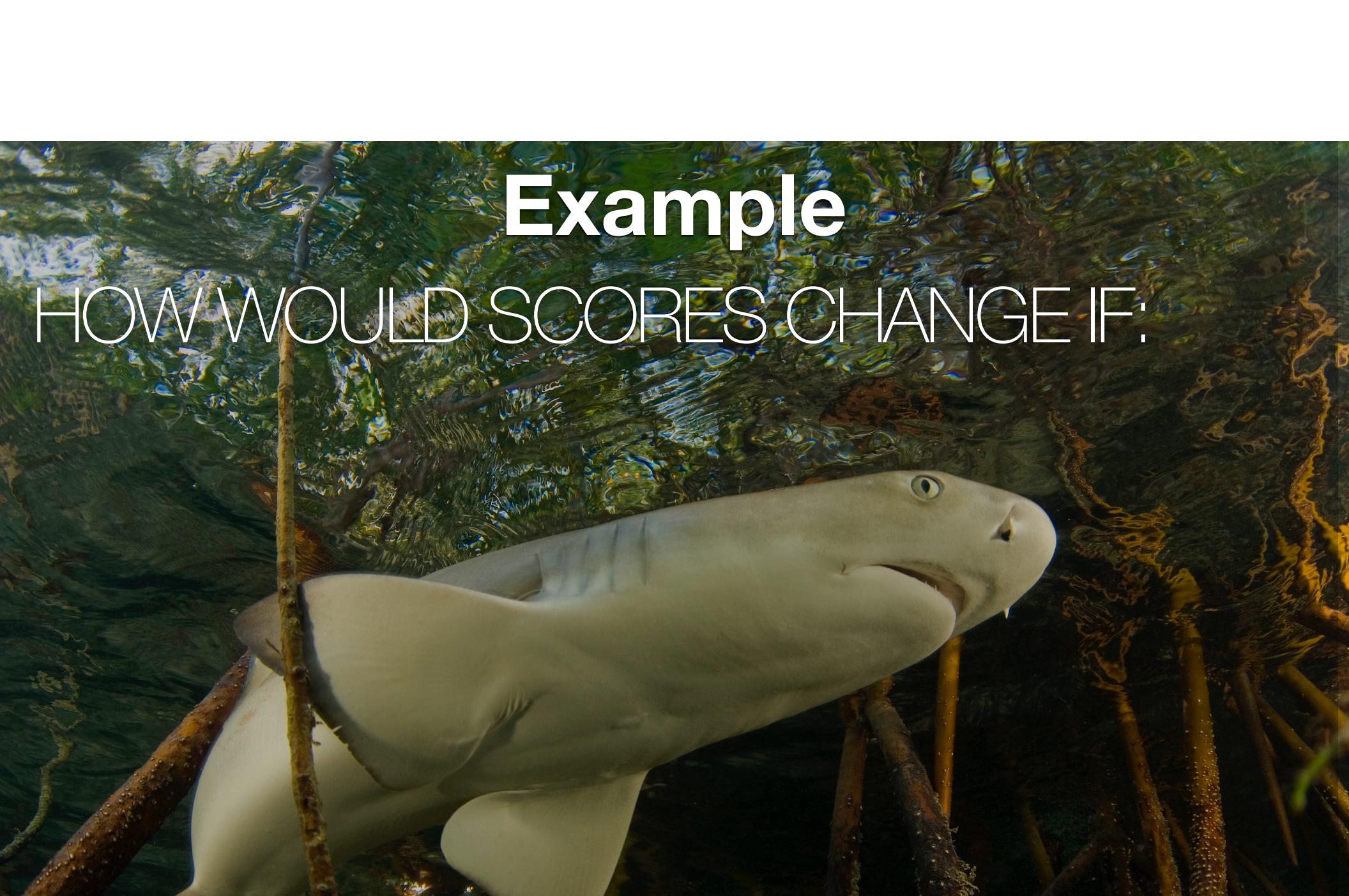
Analysis of management scenarios

Responds to common **management interventions**

Analysis of management scenarios



Consequences of management actions



Example

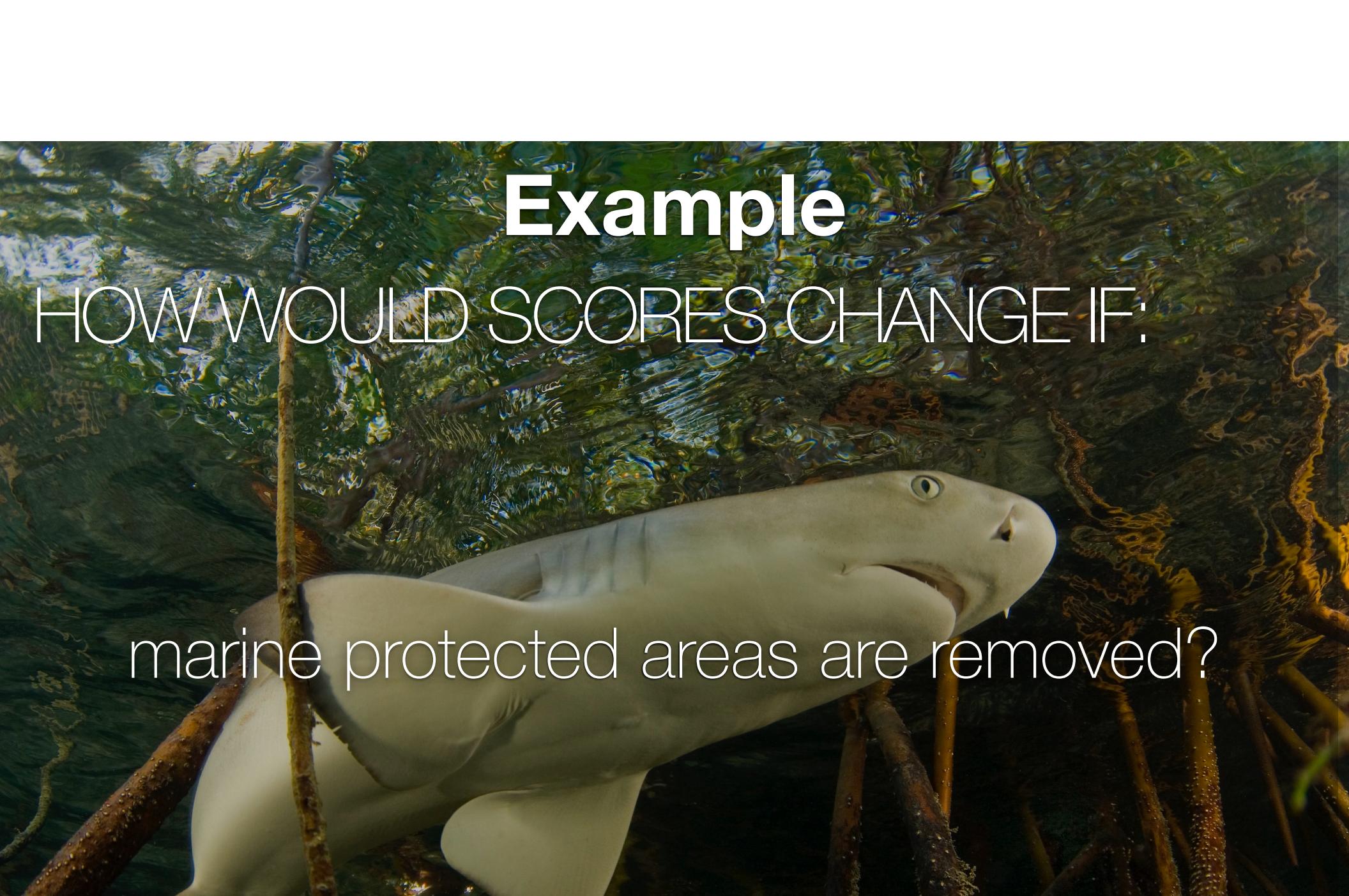
HOW WOULD SCORES CHANGE IF:



Example

HOW WOULD SCORES CHANGE IF:

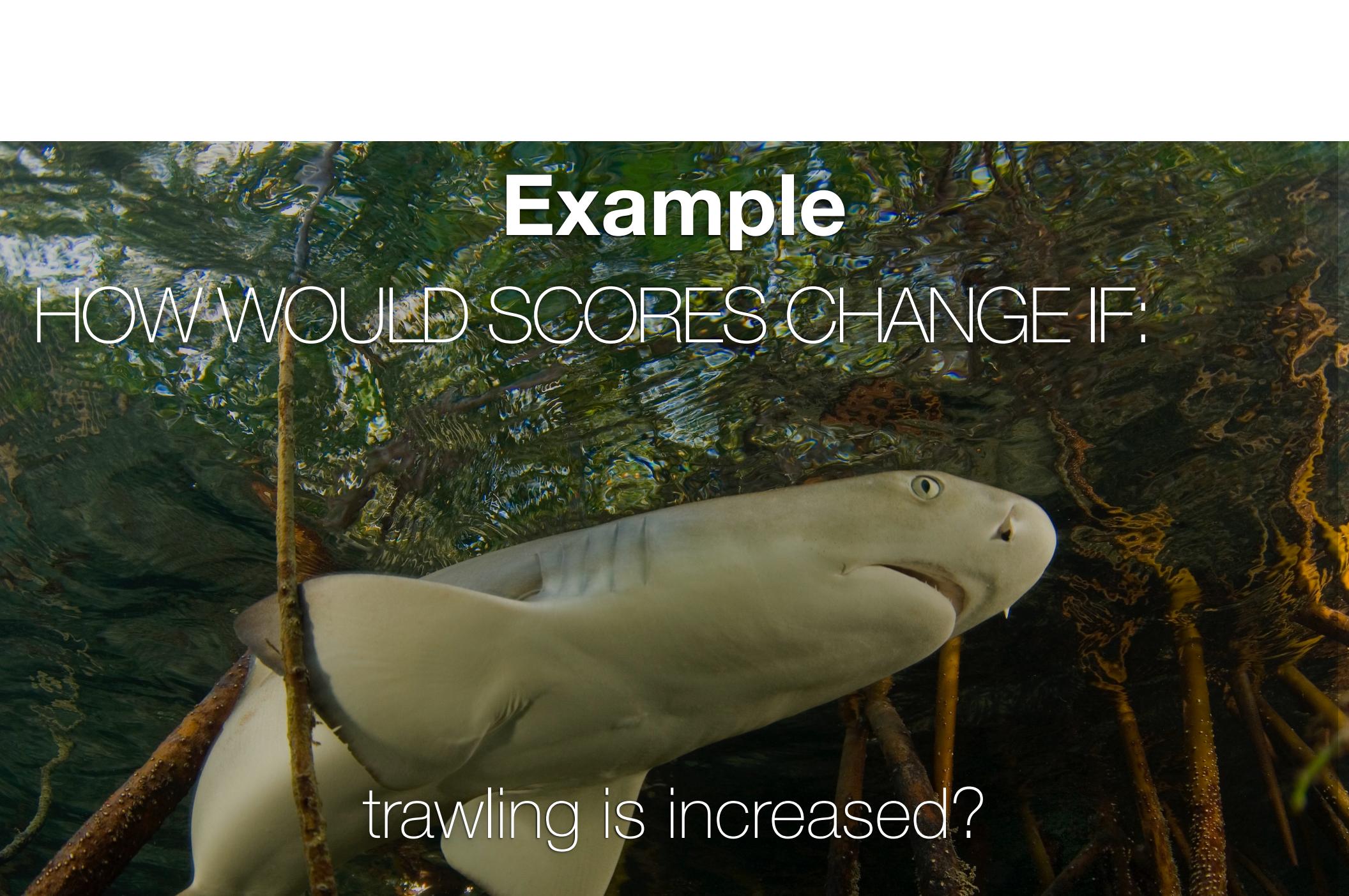
land-based pollution is decreased?



Example

HOW WOULD SCORES CHANGE IF:

marine protected areas are removed?



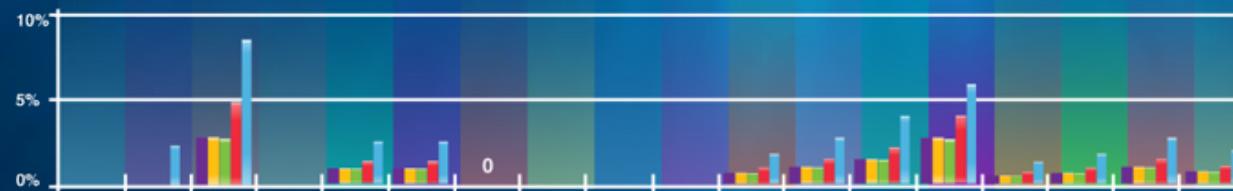
Example

HOW WOULD SCORES CHANGE IF:

trawling is increased?

Management Scenarios

SCENARIO 1:
DECREASED
LAND-BASED
POLLUTION



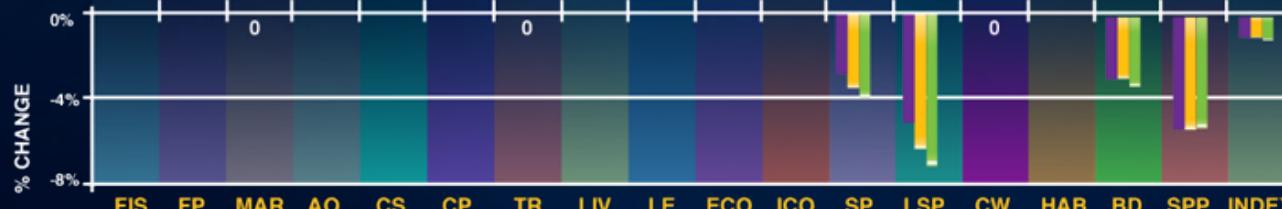
SCENARIO 2:
HABITAT
RESTORATION



SCENARIO 3A:
NO MPAS
FROM MLPA



SCENARIO 3B:
SAME AS 3A,
PLUS
INCREASED
TRAWLING



Northern California
Central California
Southern California
Oregon
Washington

GOALS/SUBGOALS

[advanced search](#)

OPEN ACCESS PEER-REVIEWED

RESEARCH ARTICLE

Assessing the Health of the U.S. West Coast with a Regional-Scale Application of the Ocean Health Index

Benjamin S. Halpern , Catherine Longo , Courtney Scarborough , Darren Hardy , Benjamin D. Best, Scott C. Doney, Steven K. Katona, Karen L. McLeod, Andrew A. Rosenberg, Jameal F. Samhouri

Published: June 18, 2014 • DOI: [10.1371/journal.pone.0098995](https://doi.org/10.1371/journal.pone.0098995)



Article	Authors	Metrics	Comments	Related Content
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Subject Areas



- Oceans
- Marine fish
- Ecosystems
- California
- Fisheries

Abstract

Introduction
Methods
Results
Discussion
Supporting Information
Acknowledgments
Author Contributions
References

Abstract

Management of marine ecosystems increasingly demands comprehensive and quantitative assessments of ocean health, but lacks a tool to do so. We applied the recently developed Ocean Health Index to assess ocean health in the relatively data-rich US west coast region. The overall region scored 71 out of 100, with sub-regions scoring from 65 (Washington) to 74 (Oregon). Highest scoring goals included tourism and recreation (99) and clean waters (87), while the lowest scoring goals were sense of place (48) and artisanal fishing opportunities (57). Surprisingly, even in this well-studied area data limitations precluded robust assessments of past trends in overall ocean health. Nonetheless, retrospective calculation of current status showed that many goals have declined, by up to 20%. In contrast, near-term

OHI Application in China Seas



- Launched in June, 2012
- Strong supports from SOA, using OHI to improve China Seas monitoring system



OHI Application in China Seas



Main partners

- SOA
- Marine Environmental Monitoring Center of China
- South China Sea (SCS) Branch, SOA
- East China Sea (ECS) Branch, SOA
- North China Sea (NCS) Branch, SOA
- The First Institute of Oceanography, SOA
- The Third Institute of Oceanography, SOA

Timeline of Activities and Achievements 2013-2015





Timeline of Activities and Achievements 2013-2015

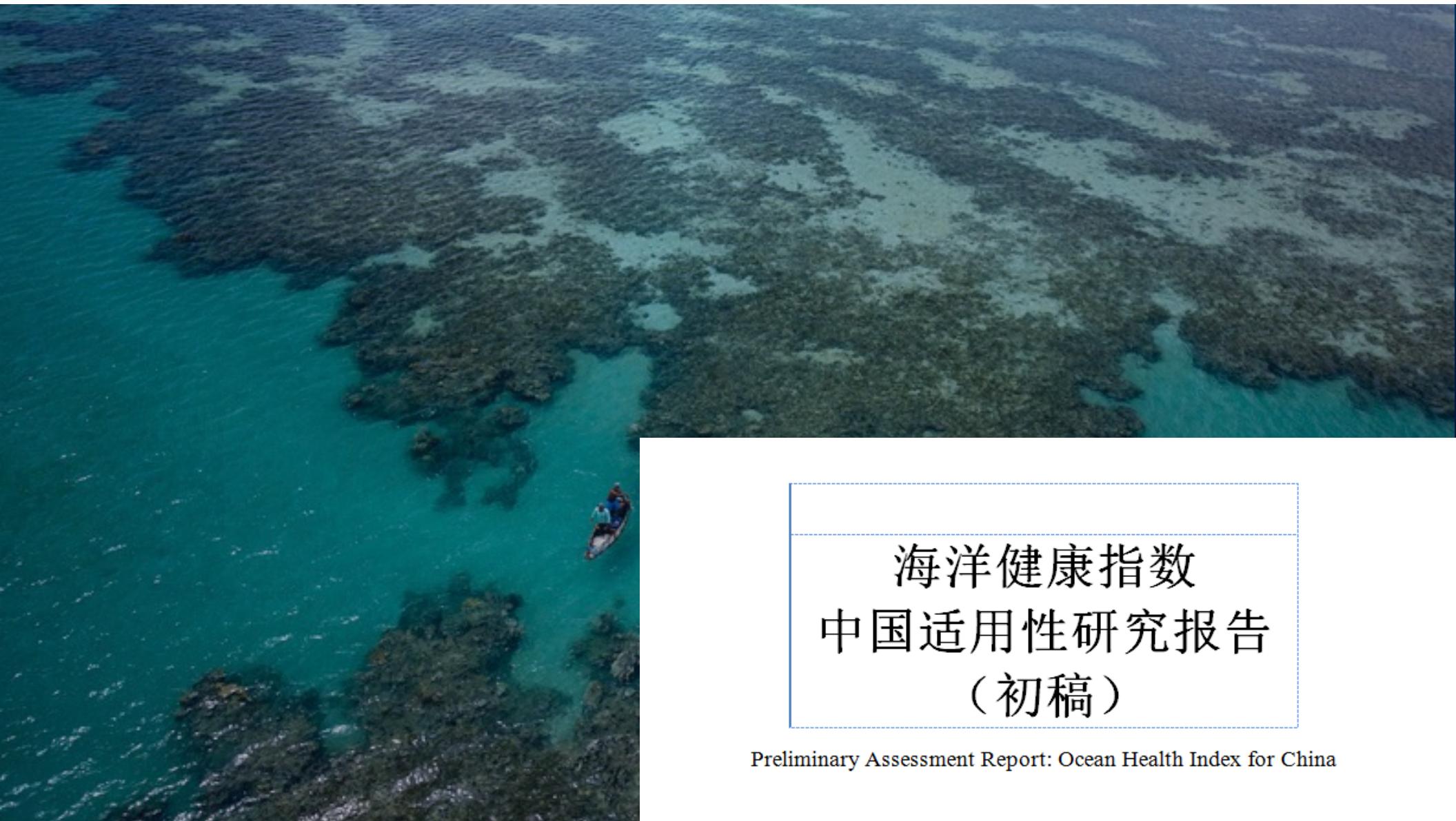
- 2013-2014: two trainings for SOA staff at University of California, Santa Barbara
- 2014-2015: nine working group meetings in China , CI-China & SOA



Timeline of Activities and Achievements 2013-2015

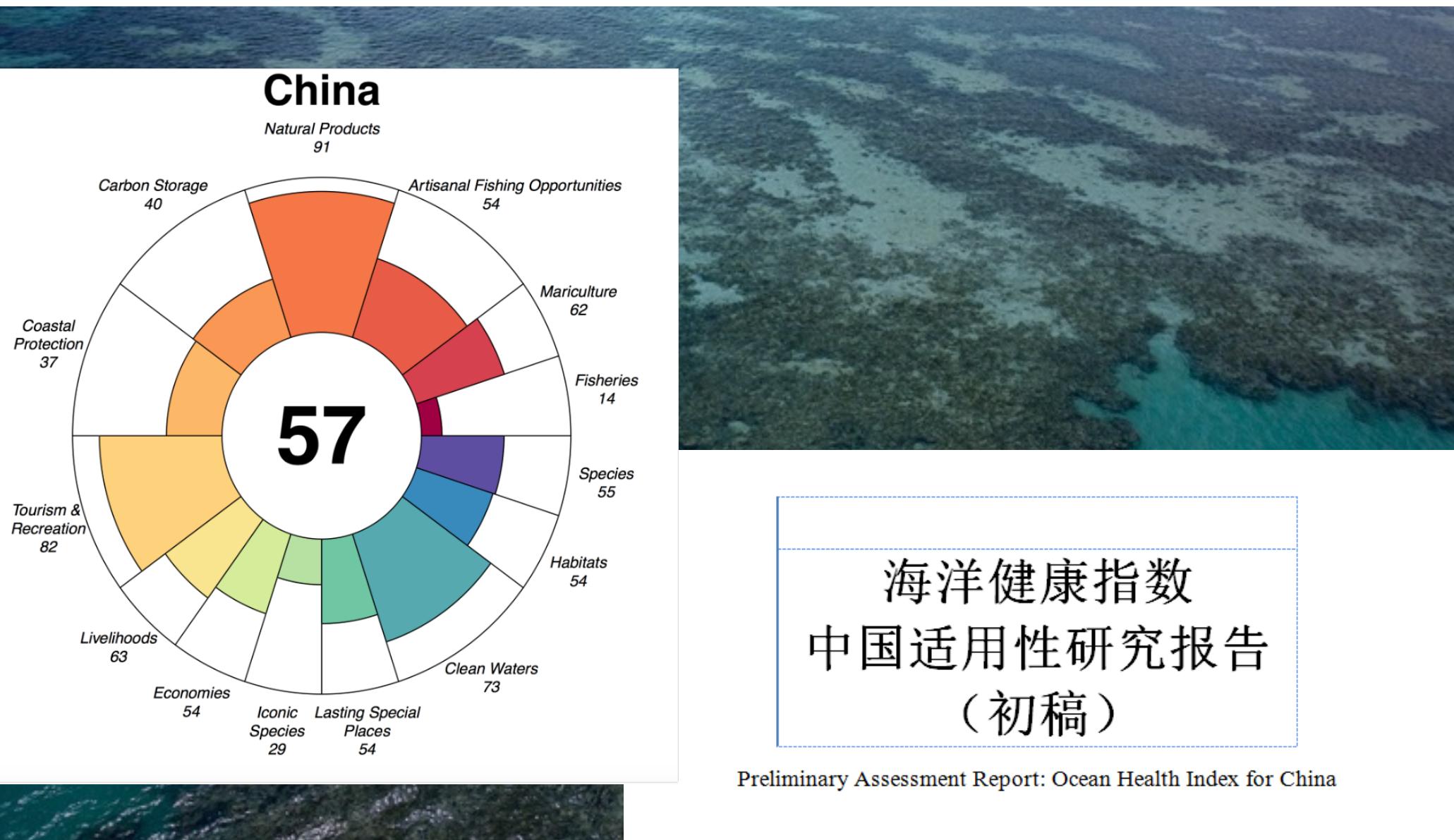
- April 2015: China model developed and National data collected
- August 2015: China regional scores calculated
- Oct-Dec 2015: two workshops — launch OHI China results, and discuss how to improve the regional study

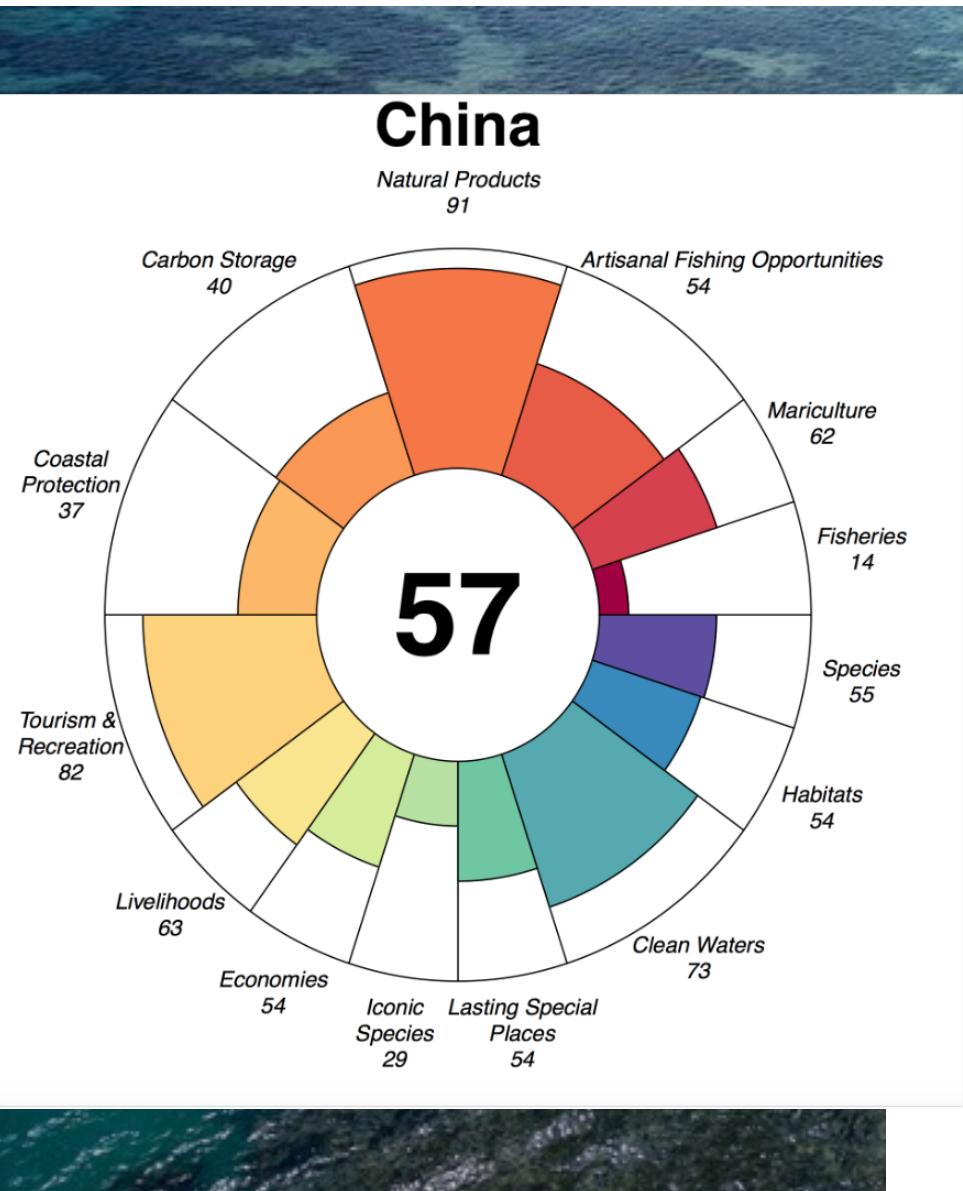




海洋健康指数
中国适用性研究报告
(初稿)

Preliminary Assessment Report: Ocean Health Index for China





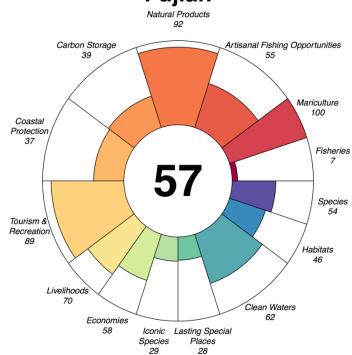
@CI保护国际基金会
weibo.com/u/2033075554

海洋健康指数 中国适用性研究报告 (初稿)

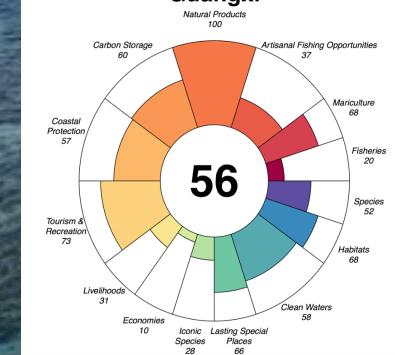
Preliminary Assessment Report: Ocean Health Index for China

**Fujian**

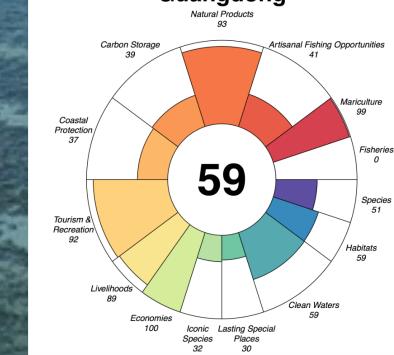
Natural Products

**Guangxi**

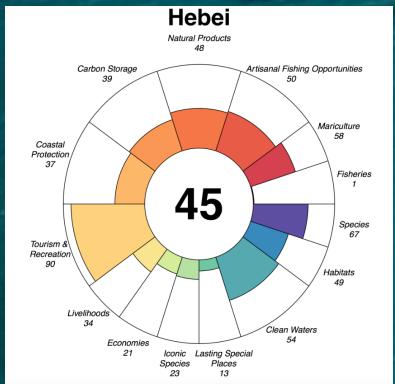
Natural Products

**Guangdong**

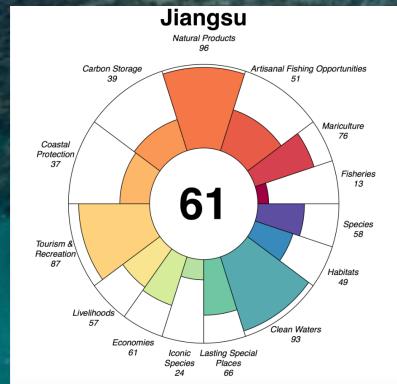
Natural Products

**Hebei**

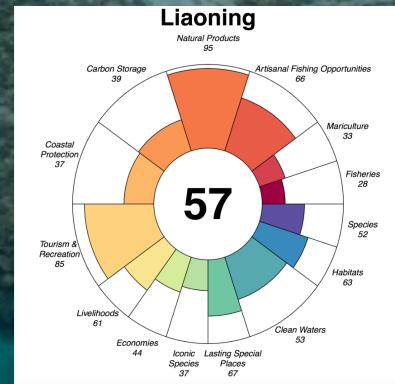
Natural Products

**Jiangsu**

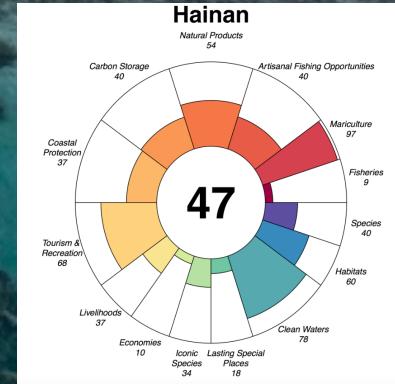
Natural Products

**Liaoning**

Natural Products

**Hainan**

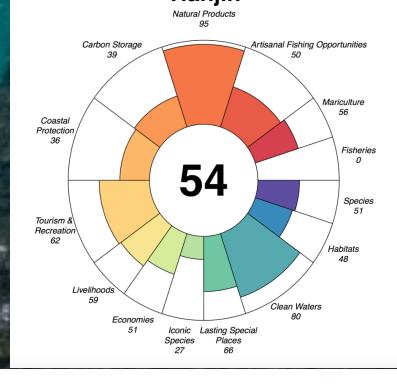
Natural Products

**Shanghai**

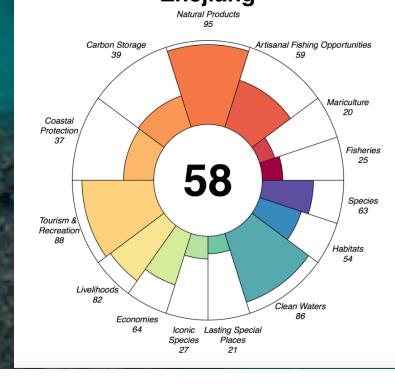
Natural Products

**Tianjin**

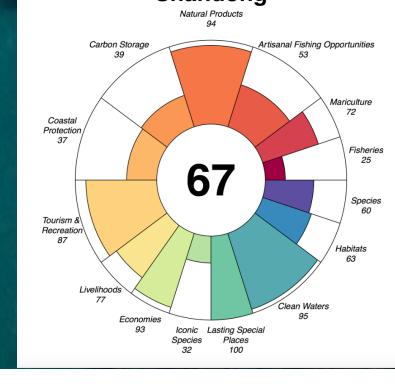
Natural Products

**Zhejiang**

Natural Products

**Shandong**

Natural Products





Select Language
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APP REGIONS LAYERS GOALS SCORES

Branch/Scenario: published/province2015

Data Compare

1. Choose variable type:

Output Score

2. Choose target (index or goal):

0 Index

3. Choose dimension:

score

0 Index: The overall Index represents the weighted average of all goal scores.

score: This dimension is an average of the current status and likely future.

Index : score

count, not NA: 12
min: 40.48
mean: 51.72
max: 63.91





What else?

Sub-regional case studies





What else?

Sub-regional case studies

1. Xiamen case study (independent assessment by Xiamen university)



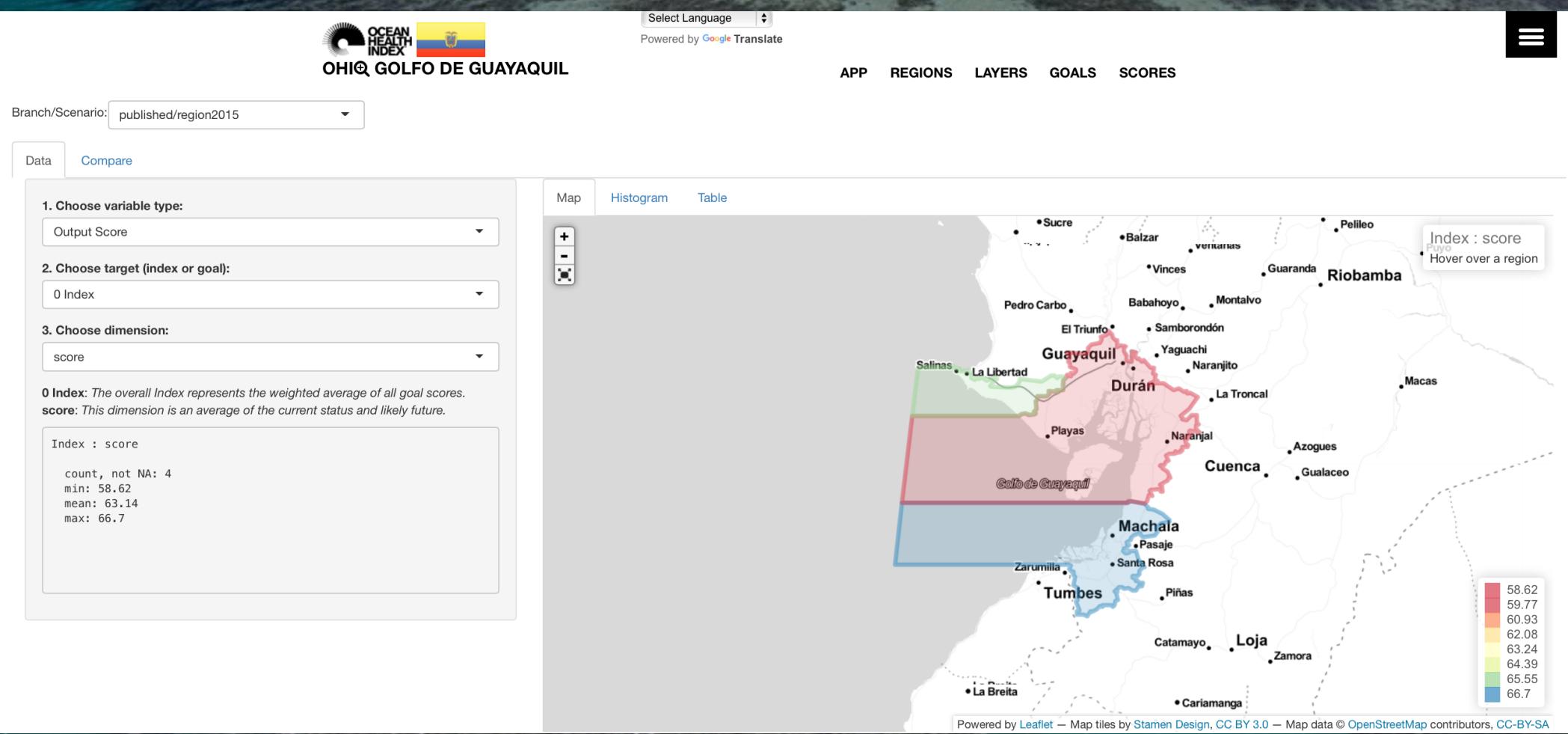
What else?

Sub-regional case studies

2. Wenzhou case study:

- in data collection process
- led by East China Sea
- will contribute to Wenzhou 13th five-year plan

Gulf of Guayaquil 2015

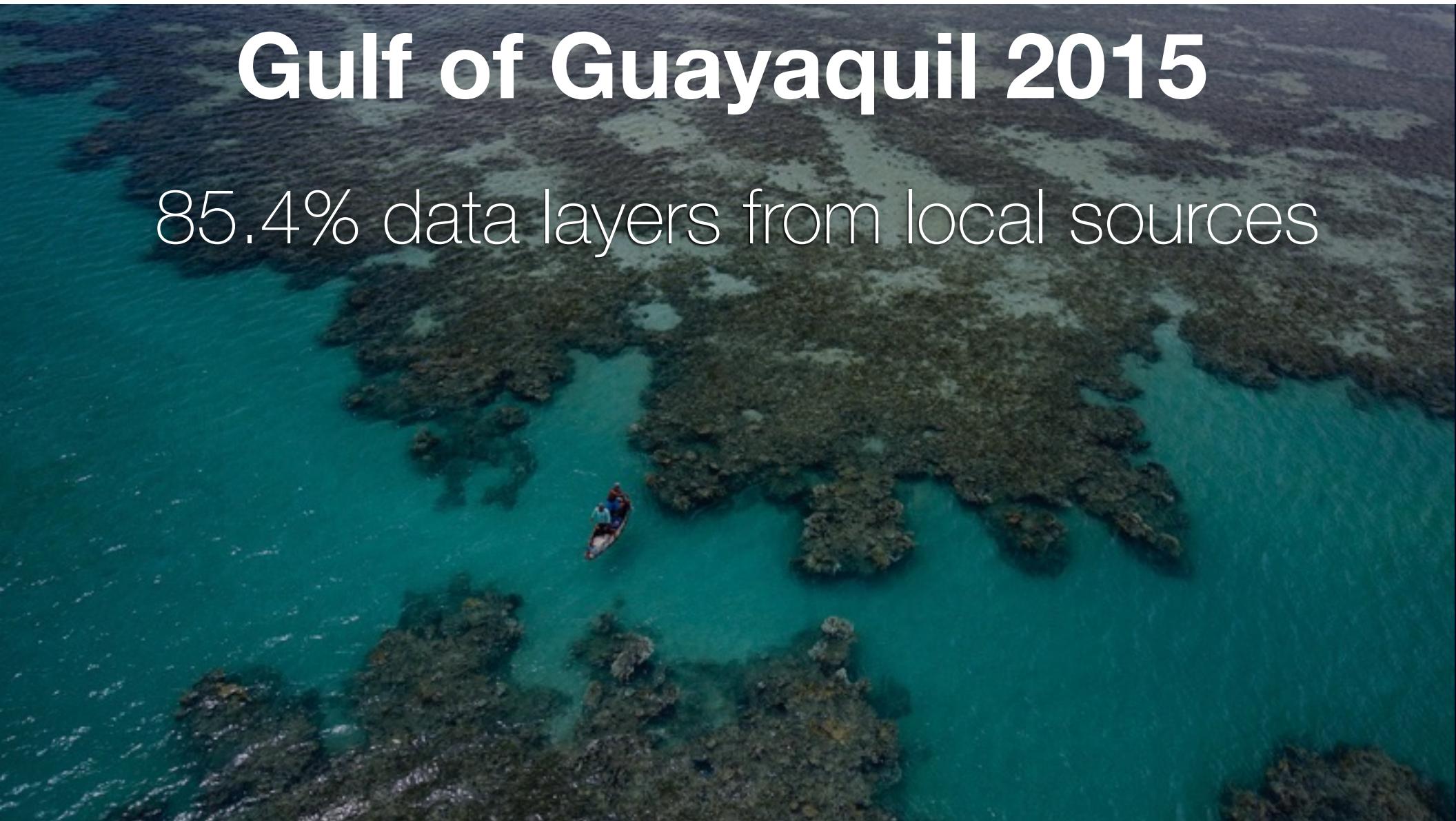


Gulf of Guayaquil 2015



Gulf of Guayaquil 2015

85.4% data layers from local sources

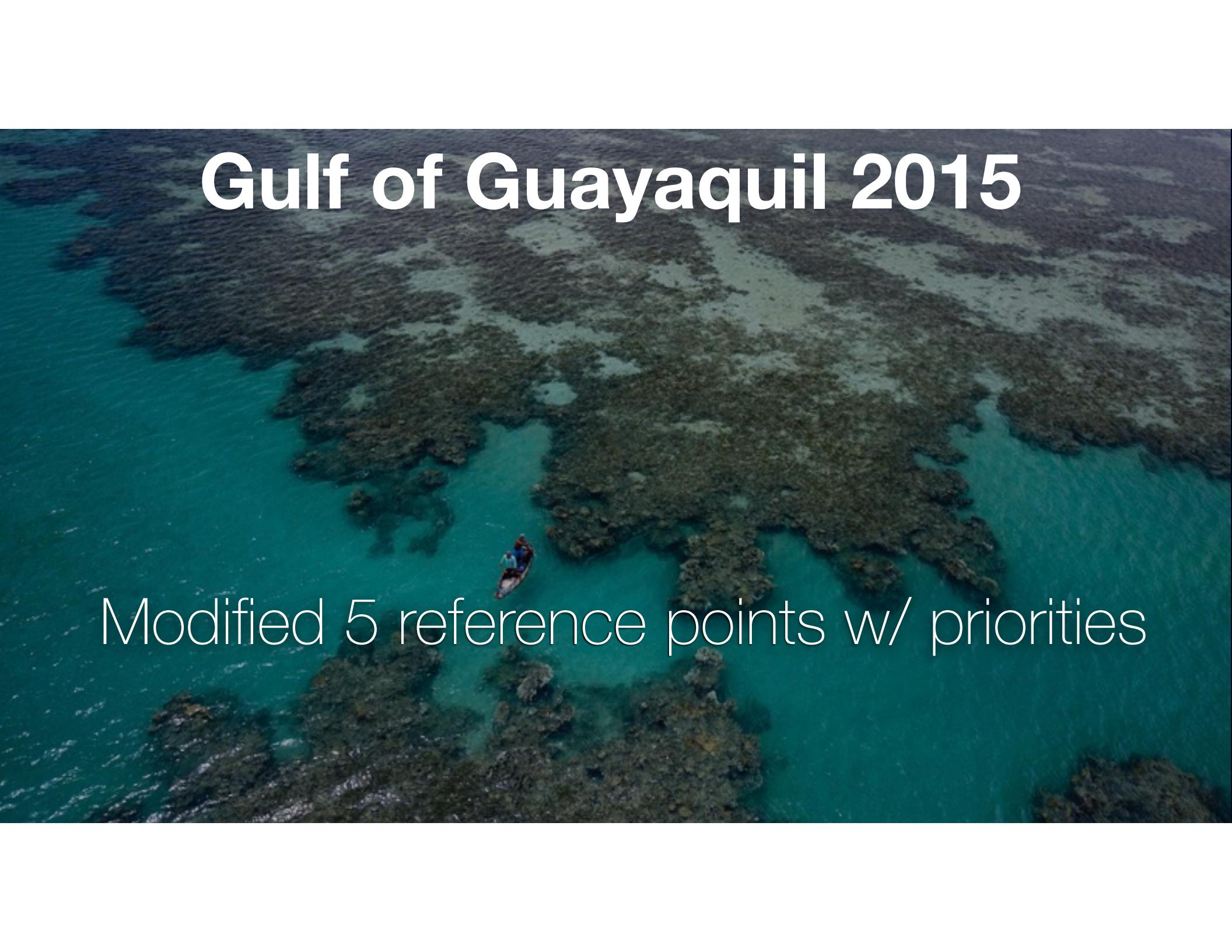


Gulf of Guayaquil 2015

An aerial photograph of the Gulf of Guayaquil. The water is a vibrant turquoise color, contrasting with darker, more shadowed areas. Numerous dark, irregular shapes scattered across the water represent coral reefs. A small, narrow wooden boat with two people is positioned in the center-left of the frame, providing a sense of scale to the vast ocean.

96 indicators total: 52 status, 25 pressures,
19 resilience

Gulf of Guayaquil 2015

An aerial photograph of the Gulf of Guayaquil. The water is a vibrant turquoise color, contrasting with the dark, textured areas of coral reefs. A small, narrow wooden boat with two people is visible in the center-left of the frame, providing a sense of scale to the vast marine environment.

Modified 5 reference points w/ priorities

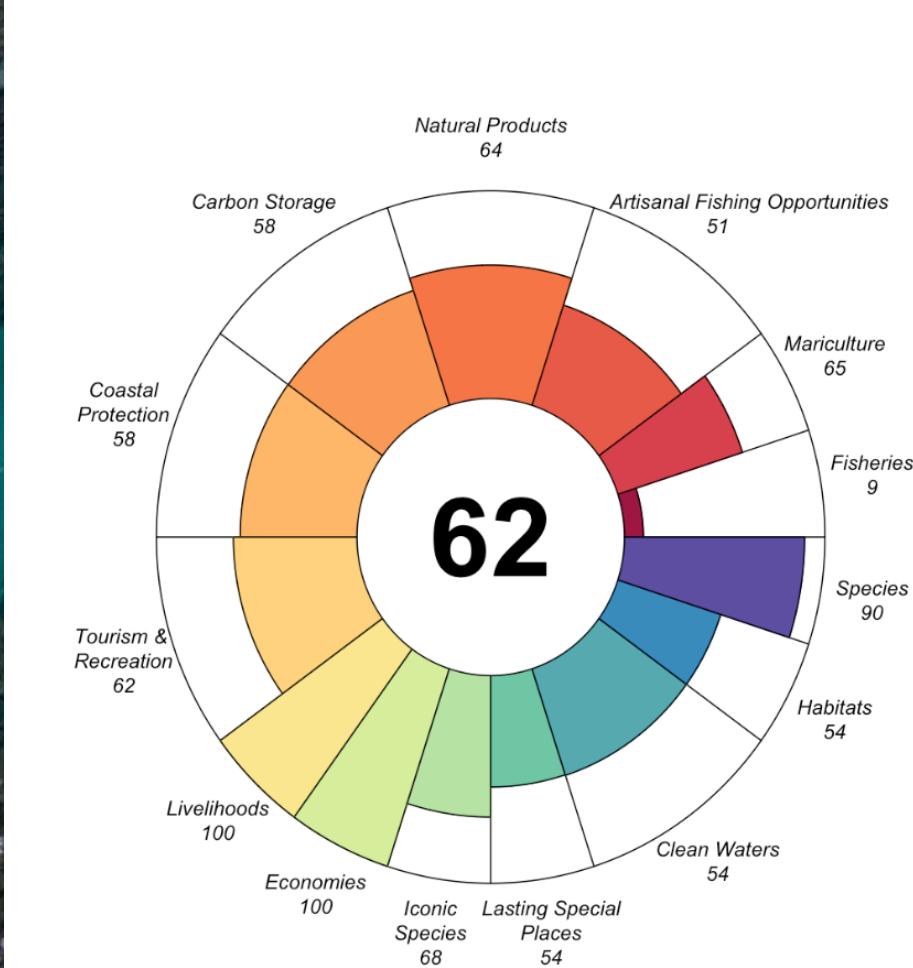
Gulf of Guayaquil 2015

An aerial photograph of the Gulf of Guayaquil. The water is a vibrant turquoise color, contrasting with the dark, textured areas of coral reefs. A small, narrow wooden boat with two people is visible in the center-left of the frame, providing a sense of scale to the vast marine environment.

Context specific models for 4 goals

Gulf of Guayaquil 2015

Golfo de Guayaquil



Gulf of Guayaquil 2015

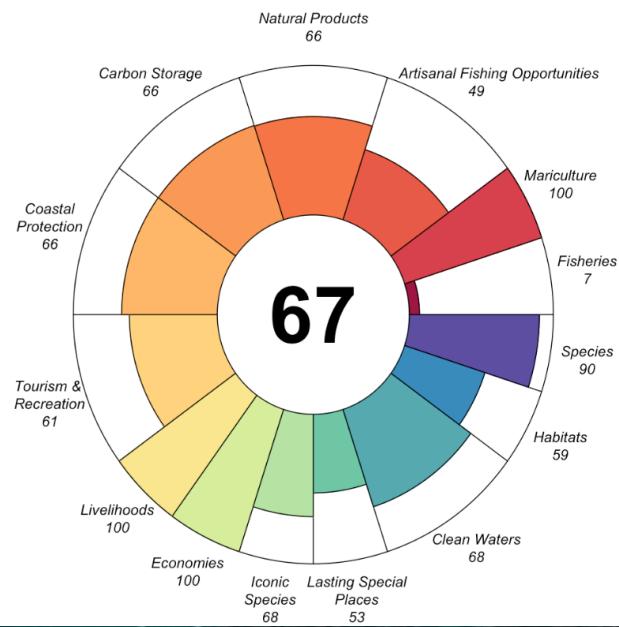


Gulf of Guayaquil 2015

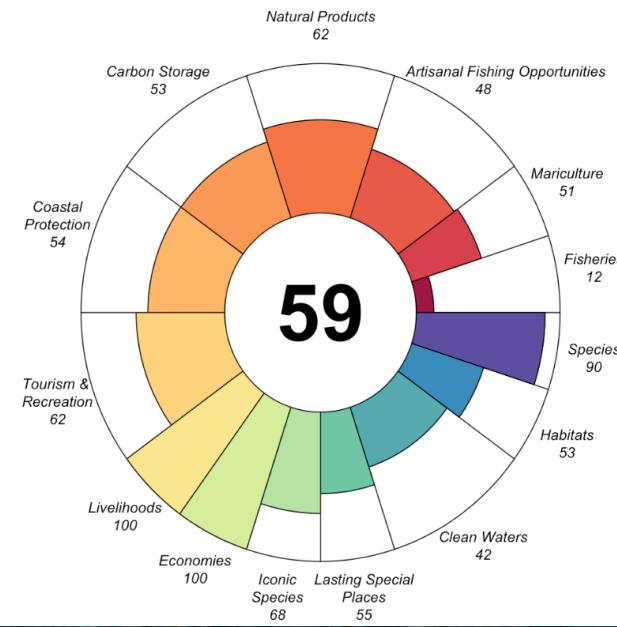


Gulf of Guayaquil 2015

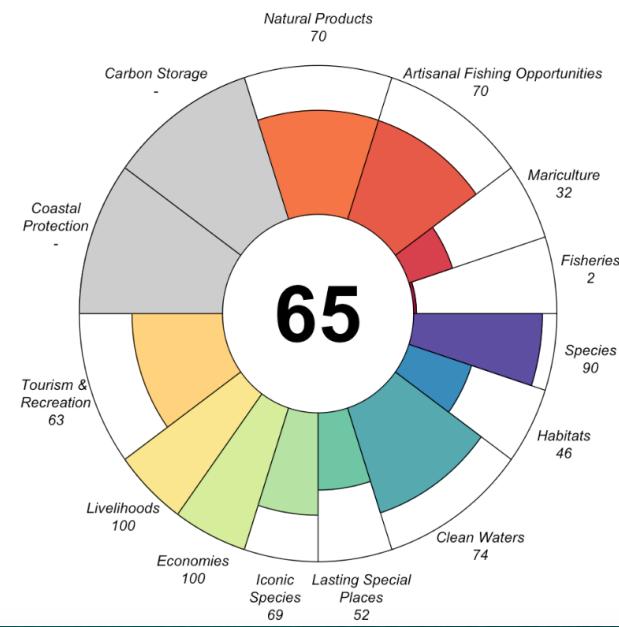
El Oro



Guayas



Santa Elena



Gulf of Guayaquil 2015



Gulf of Guayaquil 2015

Team of 12: 8 analysts, 1 coordinator, 1 R programmer, 1 GIS specialist, 1 statistician

Gulf of Guayaquil 2015

An aerial photograph of the Gulf of Guayaquil, showing a vast expanse of turquoise blue water. Within the water, there are numerous dark, irregular patches of what appears to be coral reefs or marine vegetation. A small, dark boat with two people is visible in the center-left area, providing a sense of scale to the large, sprawling ecosystem.

1 year planning/engagement + 9 months of
technical work

Gulf of Guayaquil 2015

An aerial photograph of the Gulf of Guayaquil. The water is a vibrant turquoise color, contrasting with the dark, textured areas of coral reefs. A small, narrow wooden boat with two people is visible in the center-left of the frame, providing a sense of scale to the vast marine environment.

Leadership of the SETEMAR \$2mill/2yr

Gulf of Guayaquil 2015





OHI+ Colombia



OHI+ Colombia



Three regions: Atlantic, Pacific, Caribbean Islands



OHI+ Colombia



Over 113 indicators selected

OHI+ Colombia



Reference points for 2018 & 2025 established by
local stakeholders



OHI+ Colombia



Leadership by the Colombian Ocean Commission



OHI+ Assessments

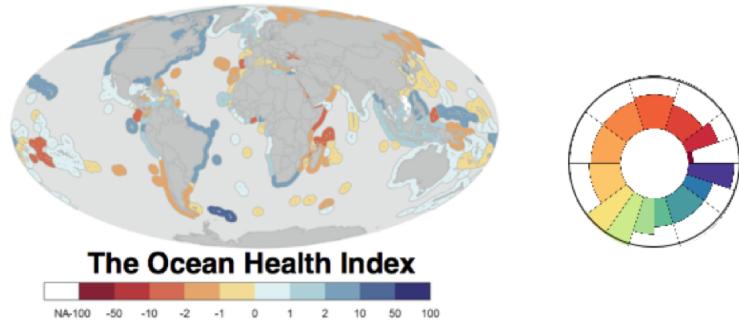


Evolution

An index to assess the health and benefits of the global ocean

Benjamin S. Halpern^{1,2}, Catherine Longo¹, Darren Hardy¹, Karen L. McLeod³, Jameal F. Samhouri⁴, Steven K. Katona⁵, Kristin Kleisner⁶, Sarah E. Lester^{7,8}, Jennifer O'Leary¹, Marla Ranelletti¹, Andrew A. Rosenberg⁵, Courtney Scarborough¹, Elizabeth R. Selig⁹, Benjamin D. Best¹⁰, Daniel R. Brumbaugh¹⁰, F. Stuart Chapin¹¹, Larry B. Crowder¹², Kendra L. Daly¹³, Scott C. Doney¹⁴, Cristiane Elfes^{15,16}, Michael J. Fogarty¹⁷, Steven D. Gaines⁸, Kelsey I. Jacobsen⁸, Leah Bunce Karrer⁵, Heather M. Leslie¹⁸, Elizabeth Neeley¹⁹, Daniel Pauly⁶, Stephen Polasky²⁰, Bud Ris²¹, Kevin St Martin²², Gregory S. Stone⁵, U. Rashid Sumaila⁶ & Dirk Zeller⁶

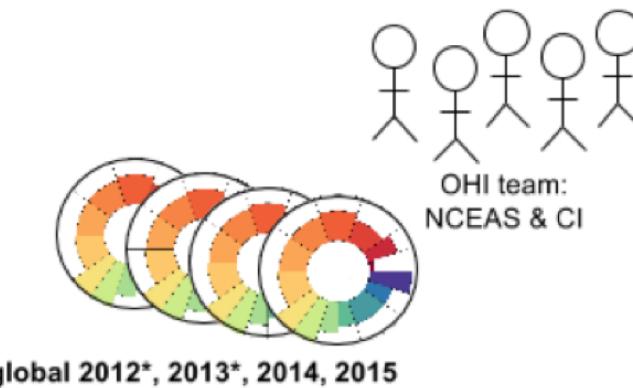
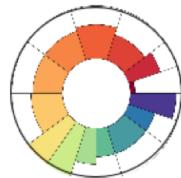
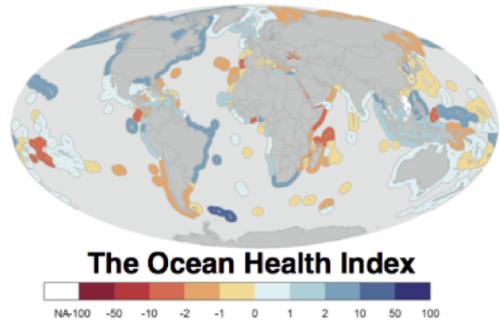
Nature, 2012



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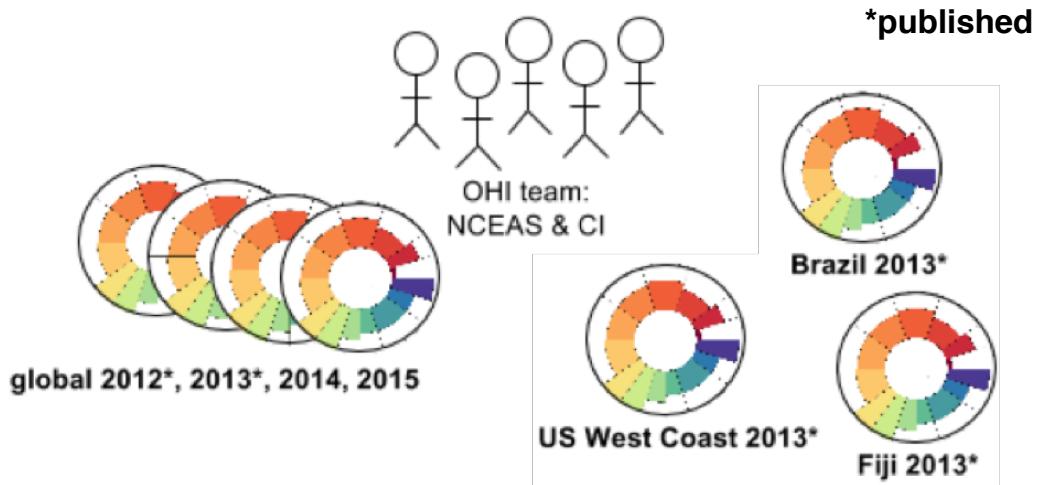
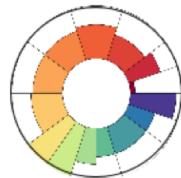
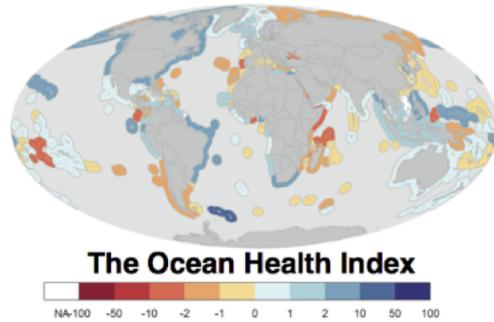
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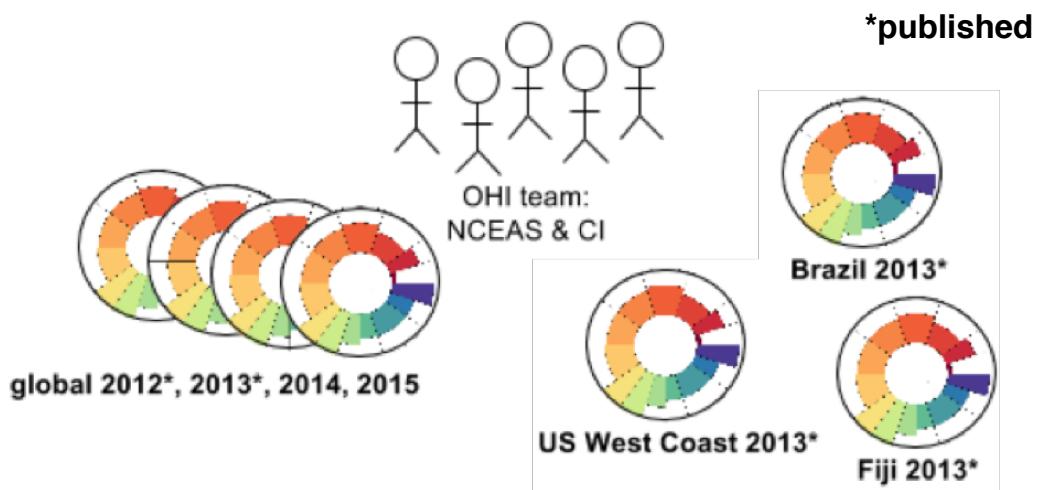
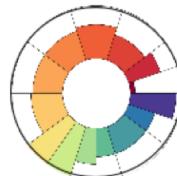
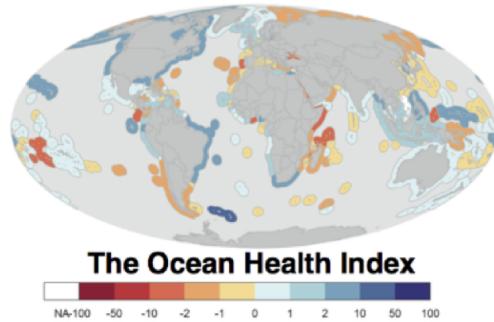
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Nature, 2012



Toolbox and resources to enable independent assessments (OHI+)

open-source
software

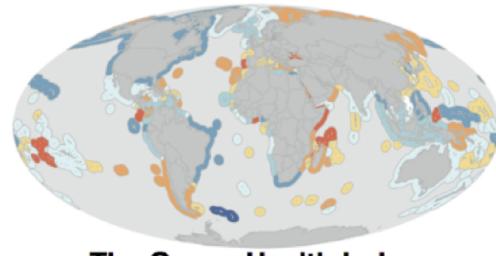
visualization tools

training program

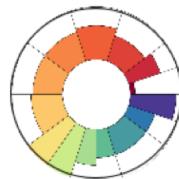
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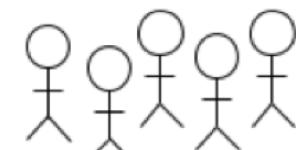
Nature, 2012



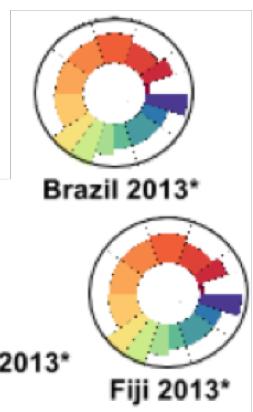
The Ocean Health Index
NA-100 -50 -10 0 1 2 10 50 100



global 2012*, 2013*, 2014, 2015

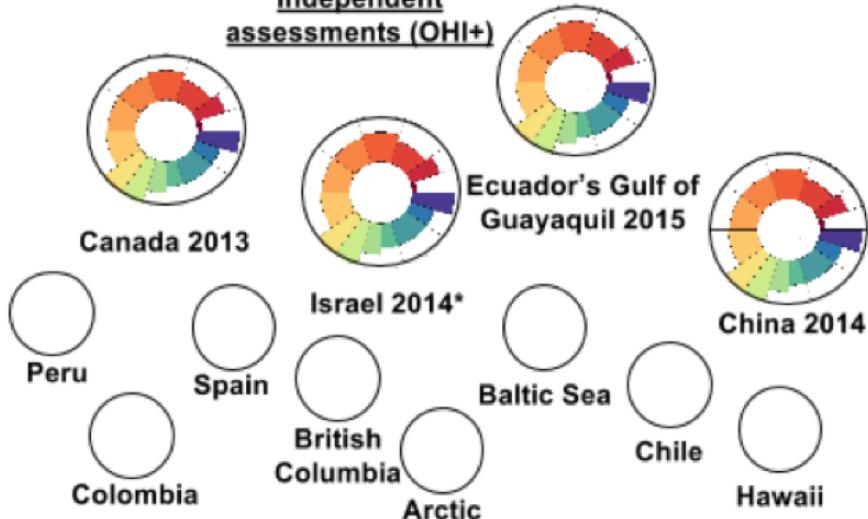


OHI team:
NCEAS & CI



*published

independent
assessments (OHI+)



Toolbox and resources to enable
independent assessments (OHI+)

open-source
software

visualization tools

training program

Adaptive Management Tool



Adaptive Management Tool

Establish **targets** and evaluate the effectiveness of interventions

Adaptive Management Tool

Assess management **tradeoffs** and identify a
win-win balance

Adaptive Management Tool

Efficient use of funds

OHI+ Benefits

A vibrant underwater scene featuring a large shark swimming gracefully over a coral reef. The reef is teeming with various species of colorful fish, including schools of blue tangs and other tropical species. The water is a deep, clear blue, and the overall atmosphere is one of a healthy, thriving marine ecosystem.

OHI+ Benefits

Identify local data & knowledge gaps

OHI+ Benefits

Assess positive feedbacks of management actions

OHI+ Benefits

Identify management priorities:
Geographic and thematic

Other Potential Applications



Other Potential Applications

Governance support

Strategic environmental assessments

Resource allocation

Tracking performance

Risk mitigation and Return on Investment

Support Blue Economy

Stakeholder Forum



Stakeholder Forum

include local **values & perspectives**



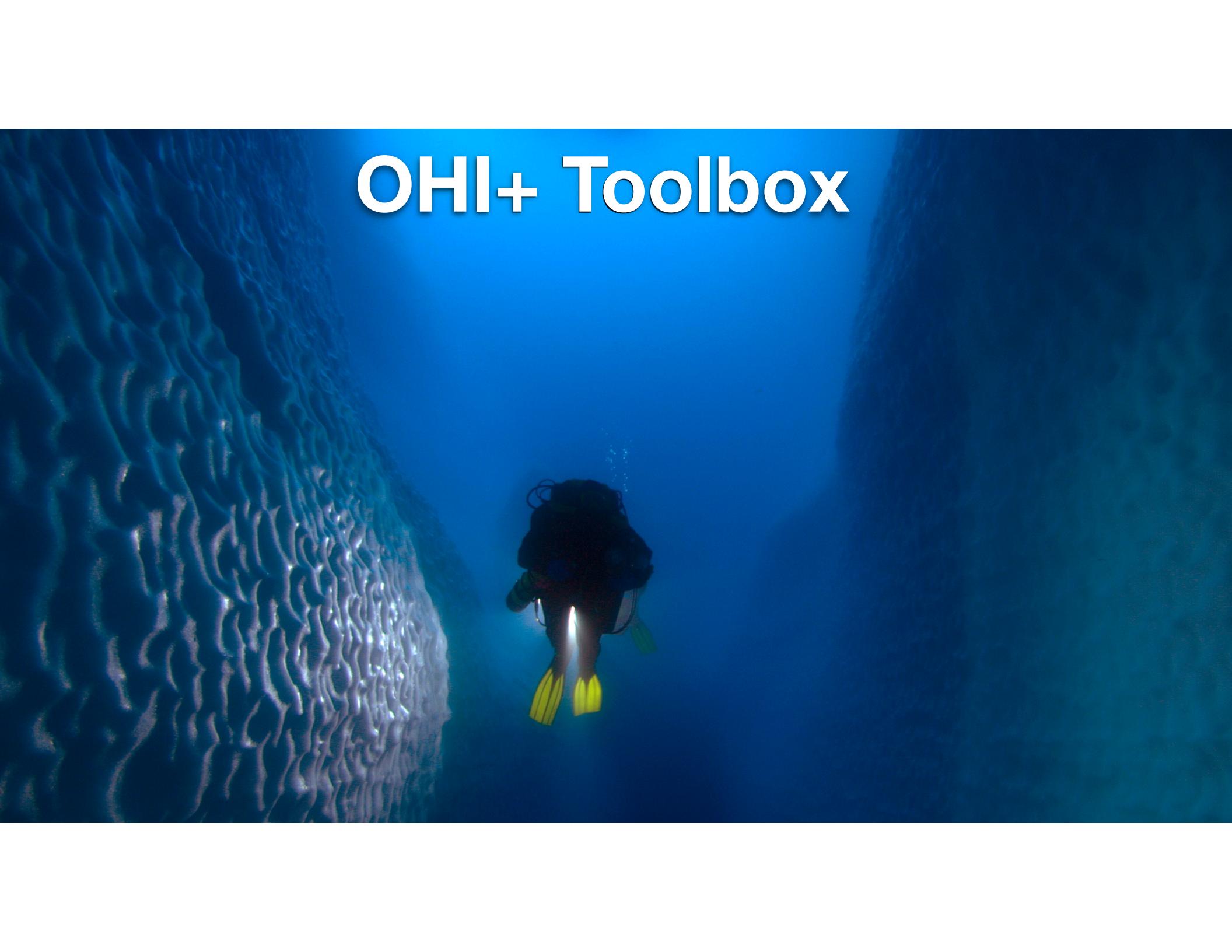
Stakeholder Forum

discuss place & responsibility

Stakeholder Forum

collaboratively establish **management
targets**

OHI+ Toolbox



OHI+ Toolbox

OHI+ Toolbox: Software and virtual data
repositories

Technical guides and manuals

Virtual Capacity Building Portal (Dec 2015)

ohi-science.org

Conclusion



Conclusion



10 Goals
Two Scales

Conclusion



A large blue whale is shown swimming in a dark blue ocean. The whale's body is angled towards the left, with its long pectoral fin visible on the right side. The water has a subtle texture and light reflections.

**10 Goals
Two Scales**

Global:

Global data

National scores

Comparisons between countries

Conclusion

Global:

Global data

National scores

Comparisons between countries

10 Goals
Two Scales



OHI+:

National & local data/indicators

Scores by political boundaries

Comparisons between regions

+

Integrate indicators

Country specific goal models

+

Improve decision-making

Effective use of public funds

Local impact & adaptive

A composite image featuring two distinct scenes. The upper scene shows a man with a beard and mustache, shirtless, seated in a traditional wooden boat with outriggers. He is holding a long wooden paddle. The boat is on a calm sea under a sky filled with large, white, billowing clouds. In the background, a green, forested island is visible. The lower scene is an underwater view of a coral reef. The reef is composed of various types of coral, including large, rounded brain corals and smaller, more numerous finger corals. The water is clear, allowing a good view of the marine life and the intricate structures of the coral.

Thank You!
Questions?

A composite image featuring a man in a traditional wooden boat on the surface of the ocean in the upper half, and a vibrant coral reef underwater in the lower half. The man is shirtless and appears to be rowing or steering the boat. The water is a mix of blue and green, and the sky is cloudy. The coral reef is composed of various types of coral, including brain coral, in shades of yellow, orange, and green.

Thank You!
Questions?
www.ohi-science.org

Activity 1

(~2 hours) :



Activity 1

(~2 hours) :

Aim: Begin thinking about OHI+ in a regional context – including identifying key characteristics and priorities for the assessment framework design



Activity 1

(~2 hours) :

Aim: Begin thinking about OHI+ in a regional context – including identifying key characteristics and priorities for the assessment framework design

Discuss:

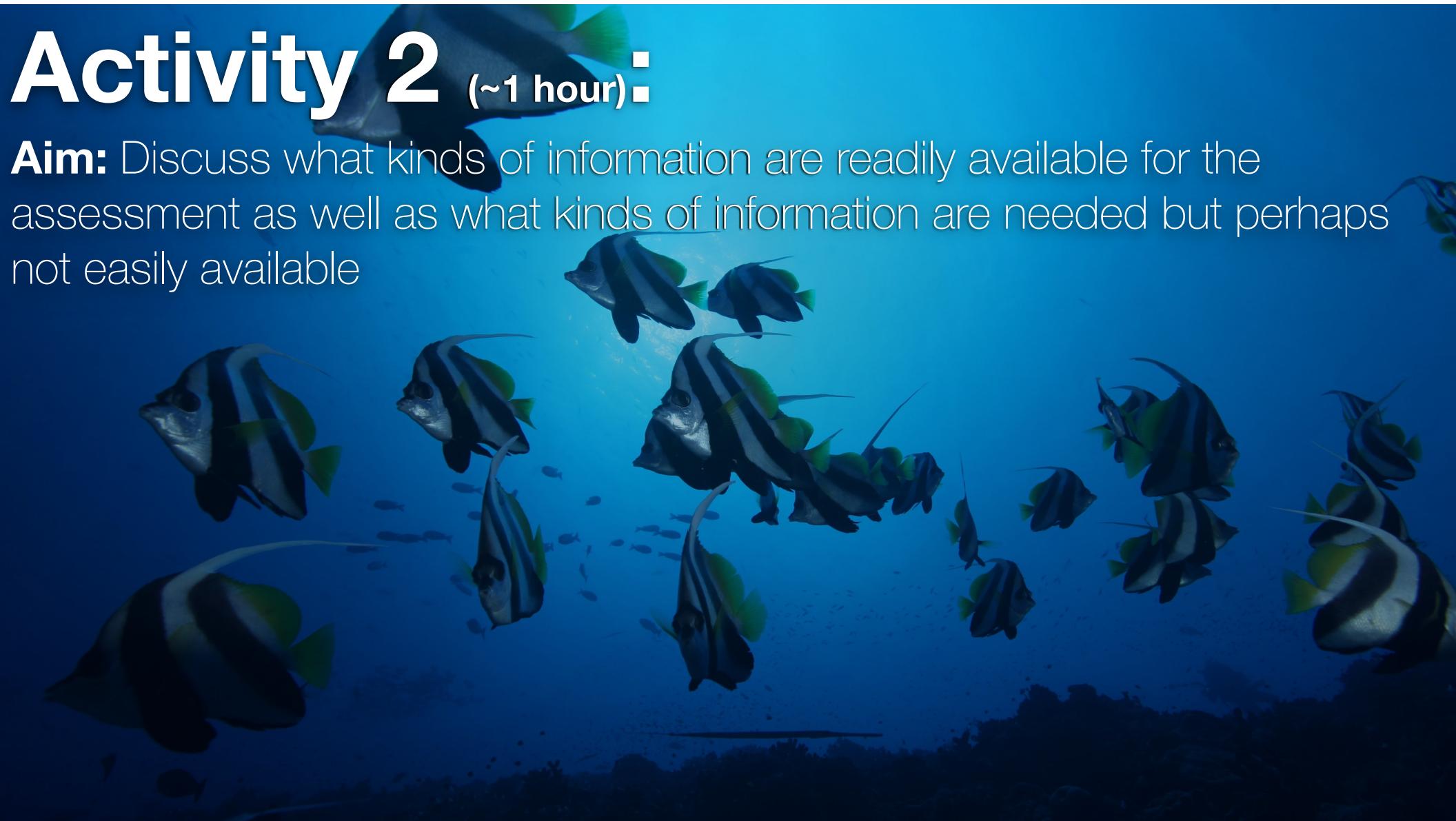
- Are all OHI goals relevant for the local context?
- Are the pressures and resilience categories identified for the global assessments relevant for the local context?
- What other key characteristics/priorities important to the local context should be included to measure goals, pressures, resilience?
- Identify a group leader to present their selection with explanations for the choices and their proposed action plan

Activity 2 (~1 hour):



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Aim: Discuss what kinds of information are readily available for the assessment as well as what kinds of information are needed but perhaps not easily available



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Aim: Discuss what kinds of information are readily available for the assessment as well as what kinds of information are needed but perhaps not easily available

Discuss:

- What information currently exists for goal models, pressures, and resilience (e.g. indicators, data layers, policies, mandates, management objectives, laws, regional and/or national plans etc.)?
- What information is needed? How could it be measured?
- Identify key stakeholders for each information source