



Sea Grant

Regional Marine Research and Information Plan

State Ocean Caucus Meeting
October 15, 2008





Regional Marine Research and Information Plan

- Eight regional plans
- West Coast: combines 2 regions and 4 Sea Grant programs
- Regional Plan for the California Current Large Marine Ecosystem

http://www.wsg.washington.edu/research/concomdev/regional_plan.html





Regional Integration

- Washington, Oregon, California Governors' offices and Washington tribal representatives included on planning team.
- West Coast Governors' Agreement on Ocean Health includes Sea Grant regional planning as part of action agenda.

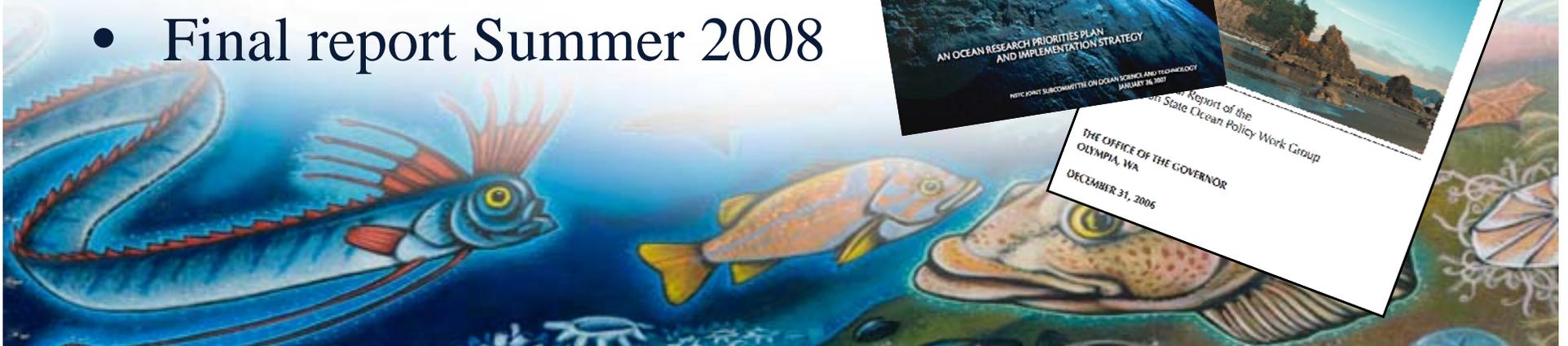


WEST COAST GOVERNORS'
AGREEMENT on OCEAN HEALTH
CALIFORNIA OREGON WASHINGTON



Coleman Hershman Report

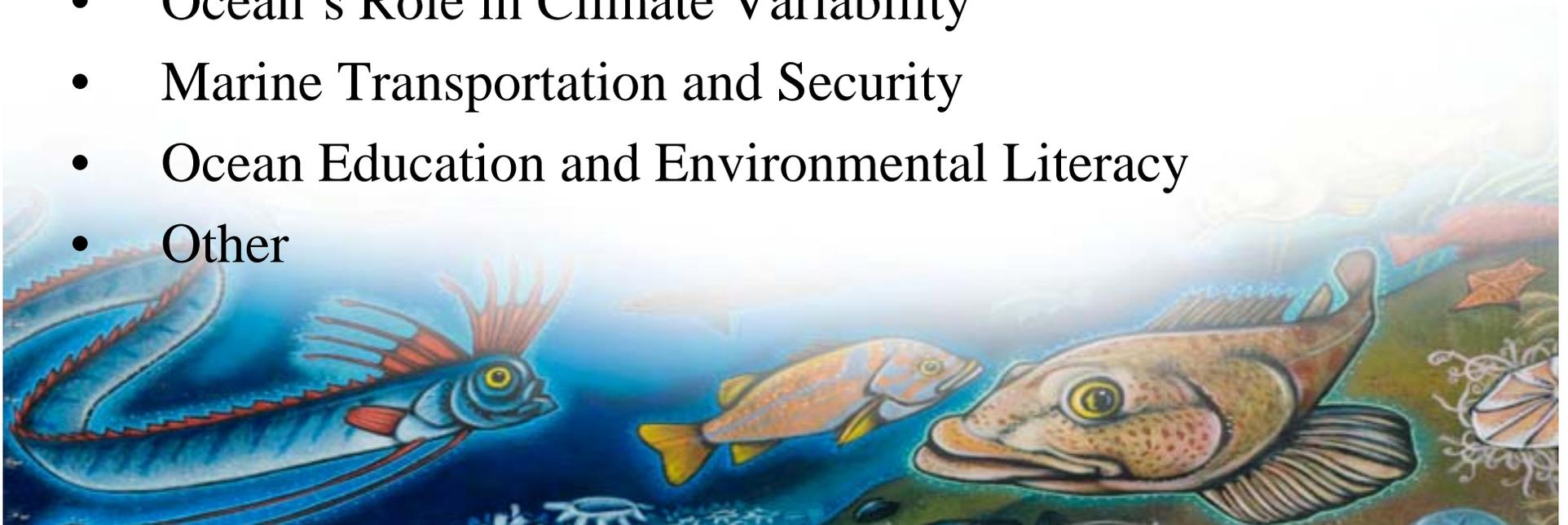
- Inventory of existing regional and state documents
 - Synthesis documents
 - Strategic plans
 - Research priorities
- Several analysis approaches
- Final report Summer 2008





Themes

- Social and Economic Vitality of Coastal Communities
- Coastal Natural Hazards
- Human Health
- Ecosystem Dynamics, Quality, and Connectivity
- Ocean's Role in Climate Variability
- Marine Transportation and Security
- Ocean Education and Environmental Literacy
- Other



Stakeholder Input

1. Depoe Bay, OR – May 2007
2. Charleston, OR – August 2007
3. Astoria, OR – August 2007
4. Orange County, CA – September 2007
5. **Ocean Shores, WA – October 2007**
6. **Bellingham, WA – October 2007**
7. **Union, WA – October 2007**
8. Eureka, CA – October 2007
9. Santa Barbara, CA – November 2007
10. San Francisco, CA – November 2007
11. Garibaldi, OR – December 2007
12. Portland, OR – December 2007
13. **Seattle, WA – December 2007**
14. **Olympia, WA – December 2007**
15. Corvallis, OR – January 2008
16. **Port Angeles, WA – January 2008**





Stakeholder Input

[Exit this survey >>](#)



California
Oregon
Washington
University of Southern California

West Coast Regional Research and Information Planning

How are you connected to the coast and ocean?

5. Please check all answers that explain your relationship to the coast and ocean.

- Beach or ocean enthusiast
- Coastal and ocean advocacy is part or all of my job
- Coastal and ocean education is part or all of my job
- Coastal and ocean management is part or all of my job
- Coastal and ocean research is part or all of my job
- Coastal area resident (live within 15 miles of the coast)
- Coastal resident (live within 5 miles of the coast)
- I am involved in economic activities related to the coast and ocean (tourism, commercial or recreational fisheries, coastal development, coastal town business owner/operator, industrial uses, etc)
- Other (please specify)

6. During 2007 did you provide input to Sea Grant on regional research and information needs at a workshop, meeting, open house, or other means?

- Yes
- No

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California
Oregon
Washington
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West Coast Regional Research and Information Planning

Social and Economic Vitality of Coastal Communities

Before we can hope to sustain a high quality of life for those who enjoy and rely on coastal and ocean resources we need better ways to define and measure the social and economic vitality of coastal communities and a better understanding of factors that contribute to this vitality.

8. Please type your research and information priorities for social and economic vitality of coastal communities below (up to 200 words per comment).

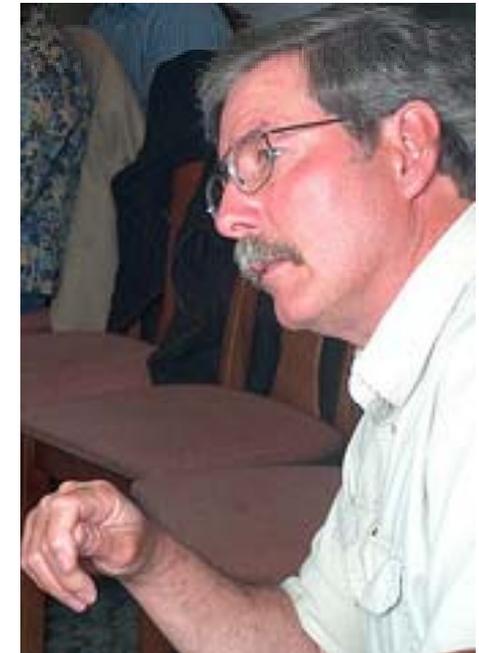
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Outcomes

	CA	OR	WA	West Coast
Number of workshops	4	6	6	16
Workshop participants	~ 230	~ 185	~215	~630
Web-survey respondents	204	68	134	406
Total comments	1562	1537	2138	5237





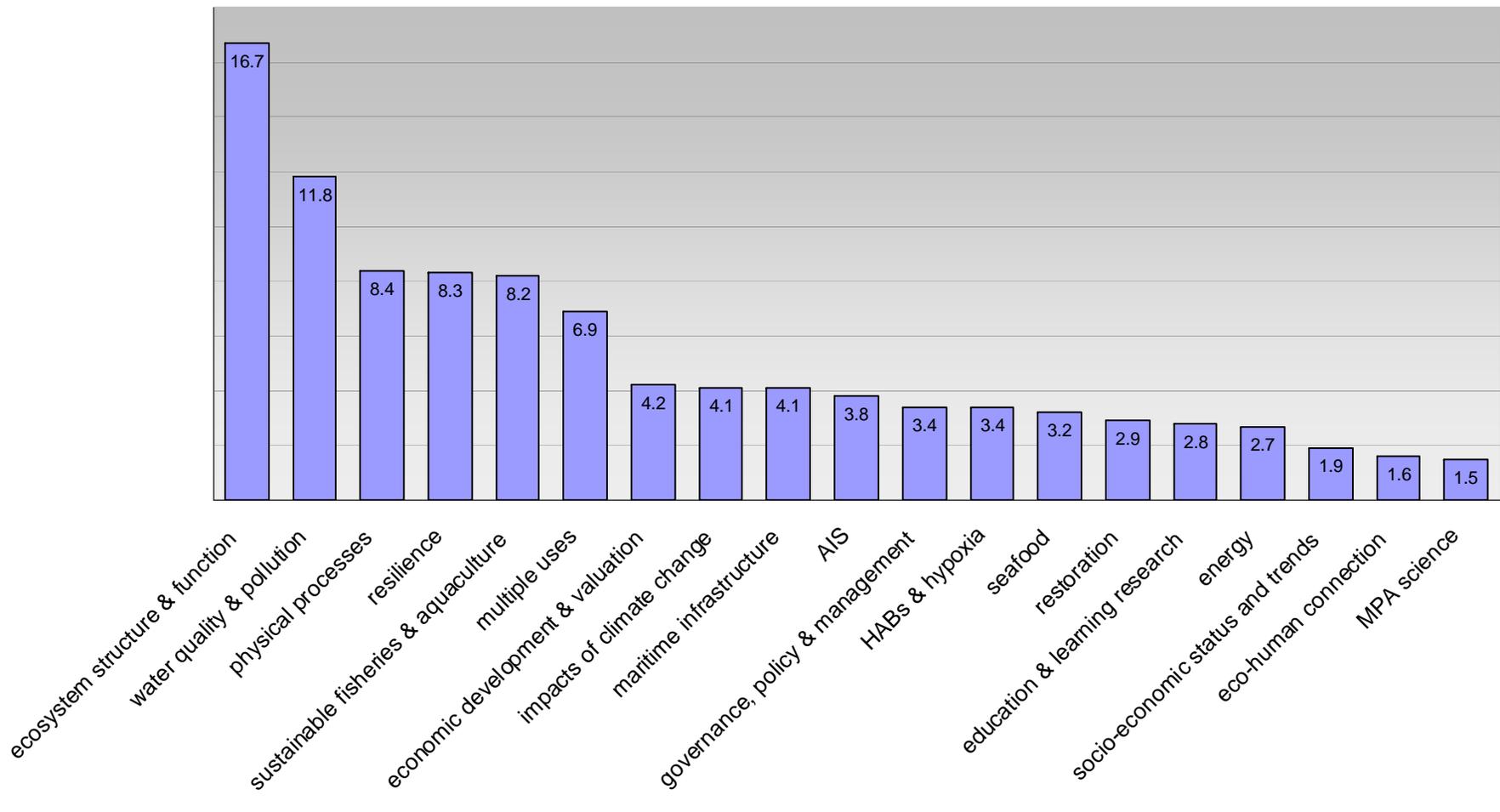
Approach

- Make participation meaningful
- Summarize stakeholder comments and group into topic areas
- Solicit input from State, Federal and Tribal partners
- Develop the draft plan for review
- Finalize and distribute plan for implementation



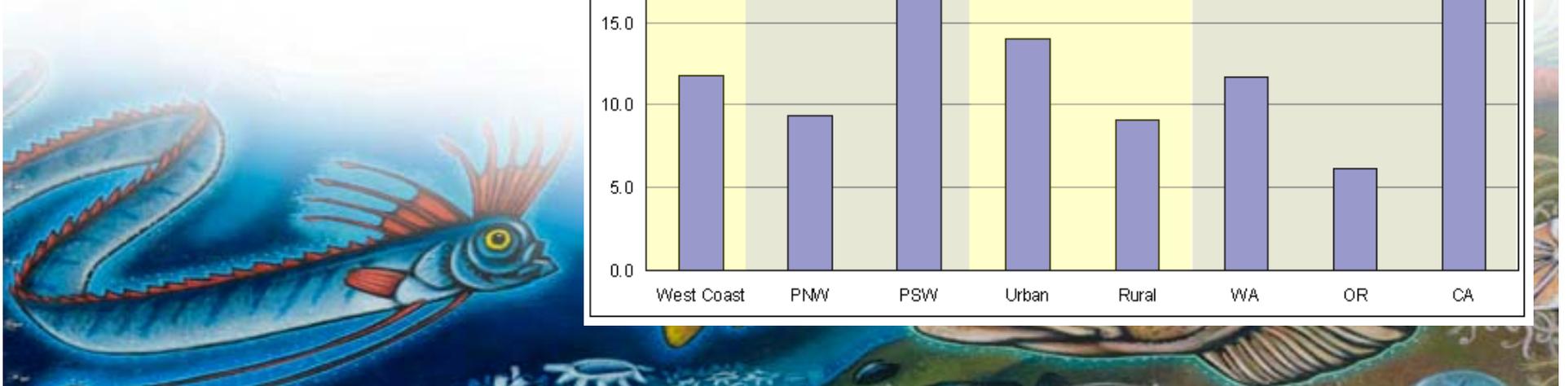
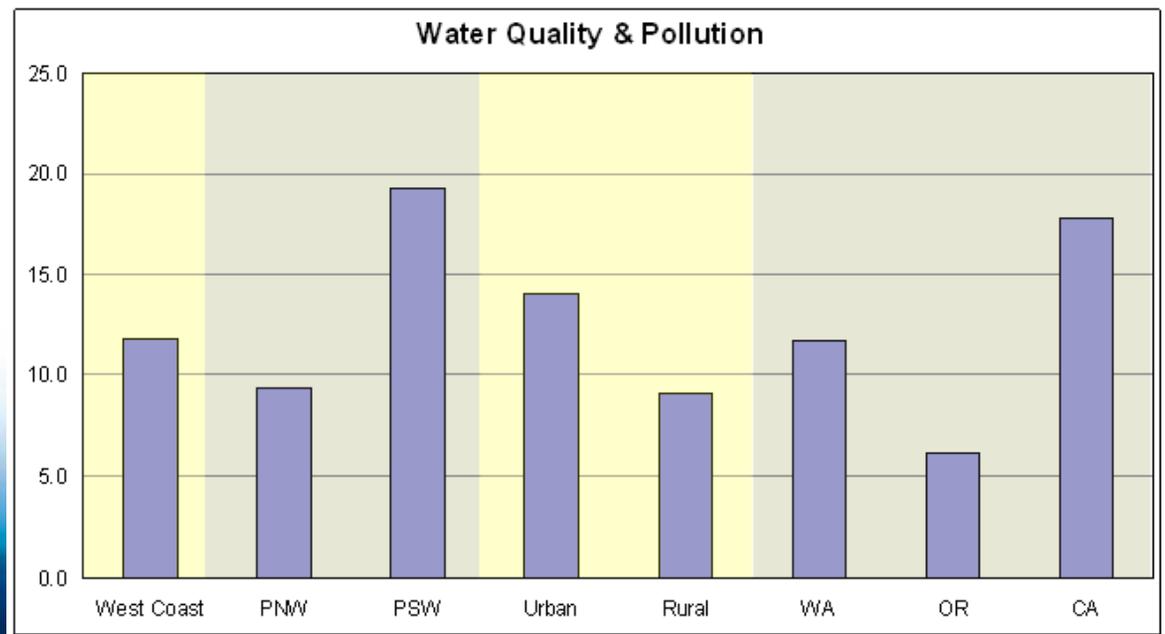
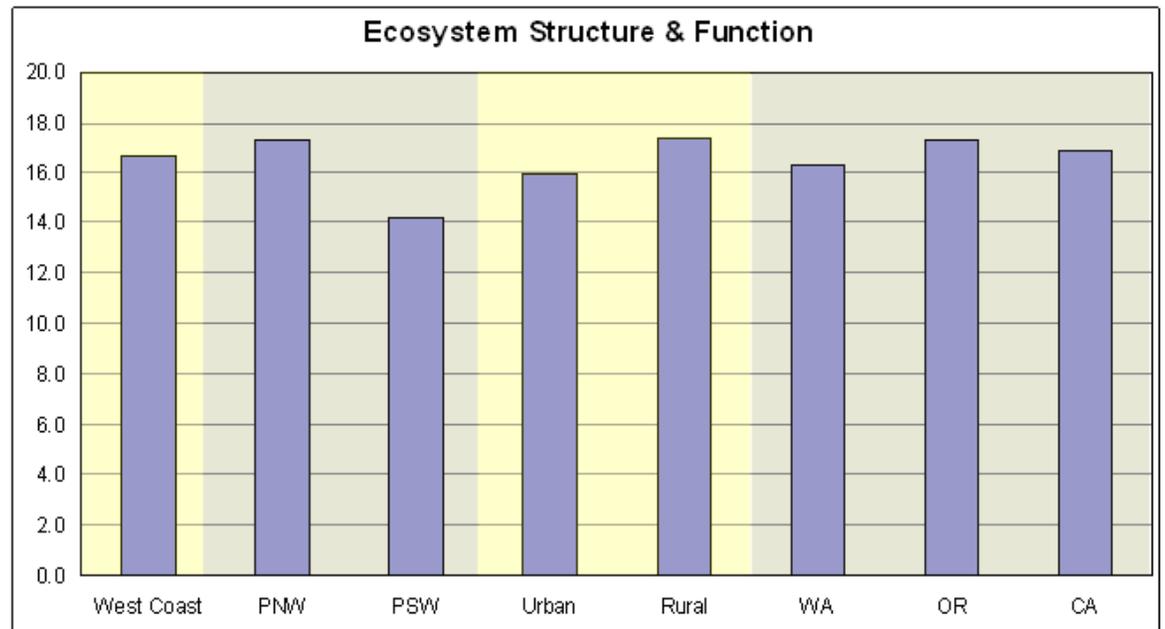
Results

West Coast Research and Information Needs
 (percentage of stakeholder comments categorized under each topic)





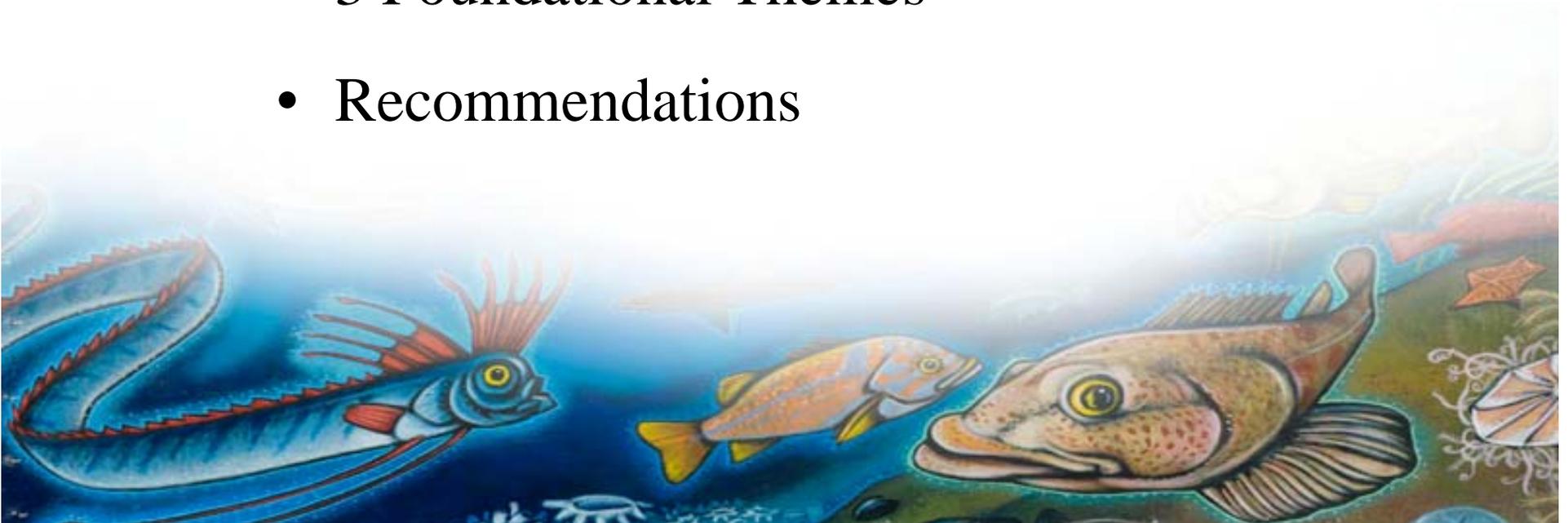
Topic Summaries





Plan Contents

- Introduction, background and methods
- 8 Research and Information Topics
- 3 Foundational Themes
- Recommendations





Research and Information Topics

1. Vitality of Coastal Communities and Maritime Operations

- Community Development
- Barriers to coastal community development
- Maritime infrastructure and safe dredging

2. Ocean and Coastal Governance and Management of Multiple Uses

- Impacts and IEA
- Institutional capabilities and policies
- Human dimensions





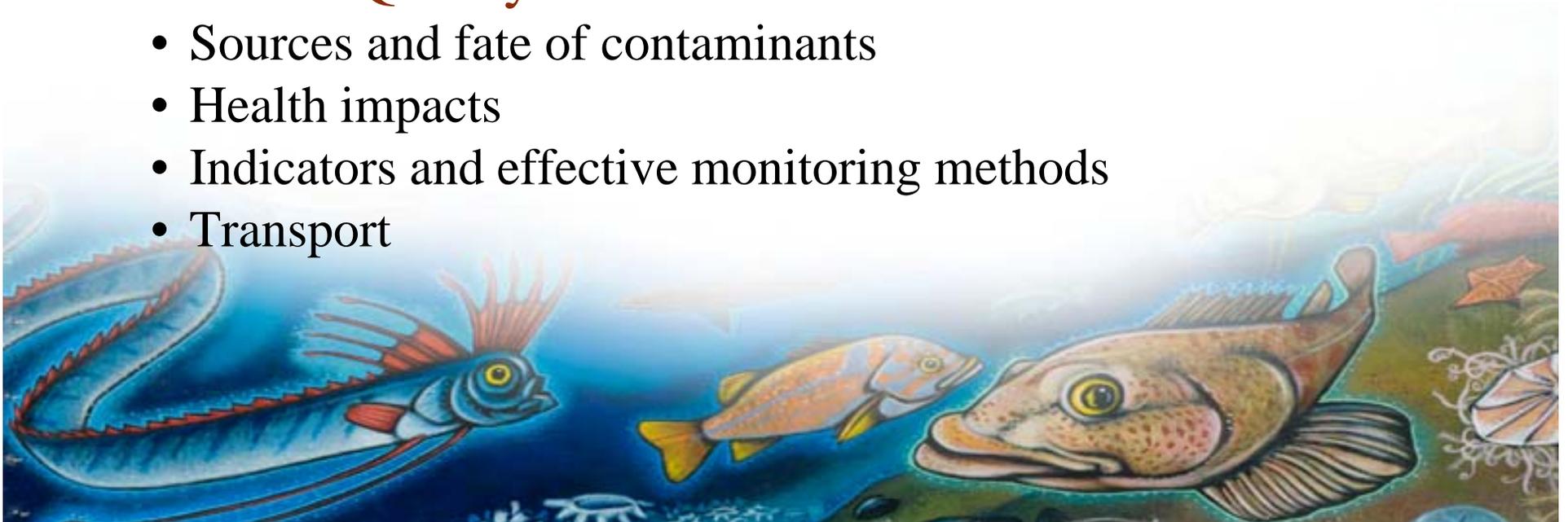
Research and Information Topics

3. Ocean Health and Stressors

- Harmful Algal Blooms
- Hypoxia
- Aquatic Invasive Species

4. Water Quality and Pollution

- Sources and fate of contaminants
- Health impacts
- Indicators and effective monitoring methods
- Transport





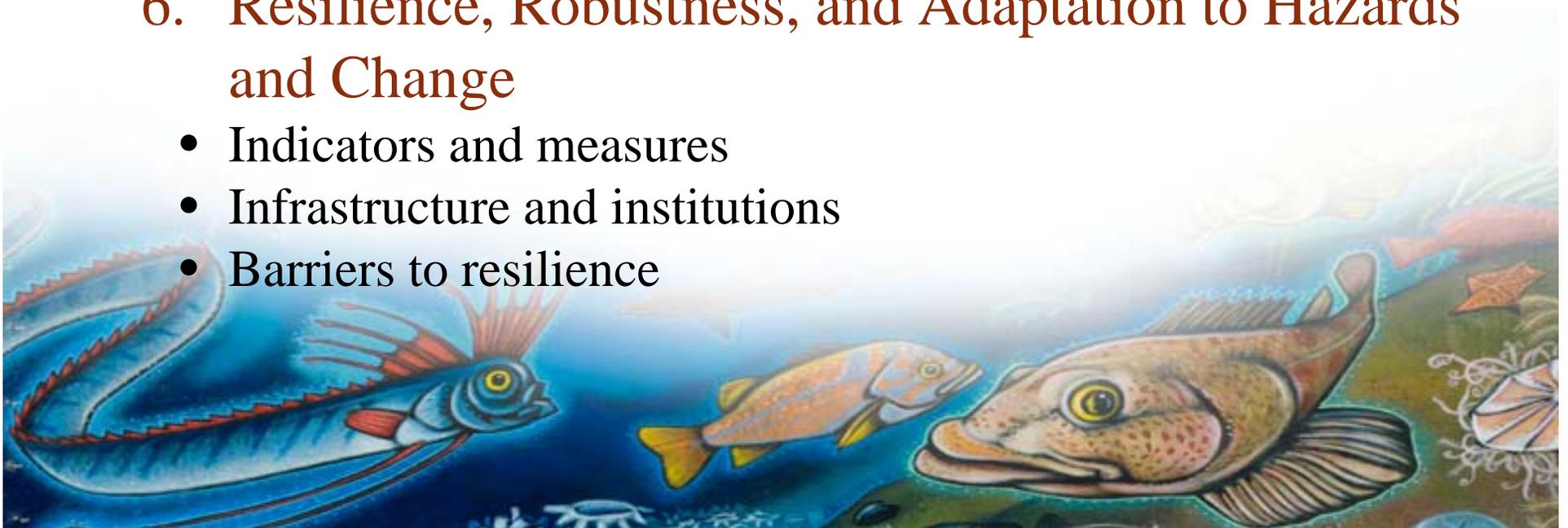
Research and Information Topics

5. Physical Ocean Processes and Climate

- Hazards and climate
- Ocean/coastal circulation and climate controls
- Physical biological coupling
- Ocean acidification (monitoring, experimentation, modeling)

6. Resilience, Robustness, and Adaptation to Hazards and Change

- Indicators and measures
- Infrastructure and institutions
- Barriers to resilience





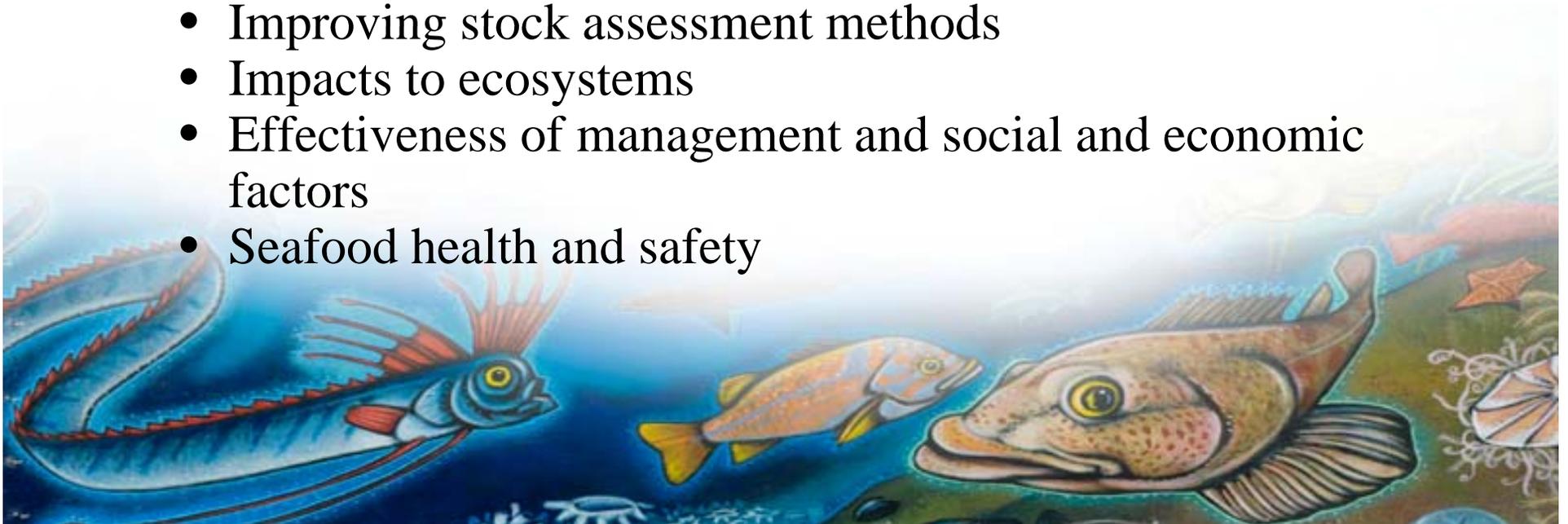
Research and Information Topics

7. Marine Ecosystem Structure and Function

- Estuaries, watersheds and land-sea connection
- Nearshore dynamics, habitats and mapping
- Trophic dynamics and interactions
- Biodiversity

8. Fisheries and Aquaculture

- Improving stock assessment methods
- Impacts to ecosystems
- Effectiveness of management and social and economic factors
- Seafood health and safety





Foundational Themes

Education & Literacy

“Provide schools with interactive science & math programs out of the classroom - outside.”

- Ocean Shores, WA

Data Management & Accessibility

“How do we accelerate the flow of science into use?”

- Oakland, CA

Climate Change

“We need a unified research effort on climate.”

- Costa Mesa, CA



Available for Public Review in
November


Sea Grant

