

Our Shared Journey:
Coastal Zone Management Past,
Present and Future



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Selected Historic Landmarks

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-  **1972** CZMA enacted and signed
 -  **1974/76** Washington State program approved
 -  **1976** CZMA Amendments create Coastal Energy Impact Program
 -  **1977** Oregon State program approved
 -  **1978** Maryland and ten other State programs approved
CZ78 convenes at the Jack Tar Hotel in San Francisco, CA...

Brief Side-Trip: CZ78

“...to bring together professional planners, engineers, environmentalists, government administrators and interested individuals in an atmosphere that will stimulate productive discussion and interaction on the leading coastal zone management issues of the day.”

FOCUS ON SOLUTIONS! (Orville Magoon)

EARLY LESSONS FROM THIS “BOLD EXPERIMENT” (Robert. W. Knecht)



CZ78—Some Early Insights

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- ✦ Sharing experiences supports practical problem-solving
 - ✦ Flexibility and adaptability critical
 - ✦ Leadership essential – government (at all levels), business, NGOs, communities, law, science, engineering & education
 - ✦ Shared support and responsibility from public & private sectors

CZ78—Some Early Insights

- ✦ **Partnership between coastal science and policy**
- ✦ **International dimensions exciting and essential**
- ✦ **Beginning to see the depth and breadth of the challenge (and opportunity)**
- ✦ **Importance of periodically taking current bearings and plotting a course for the future**

COASTAL ZONE













Back to the Journey...

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- ✦ **1979** Coastal programs in **19 states** covering **69% of the Nation's shoreline**
 - ✦ **1980** 9 estuarine reserves in 8 states;
TODAY: 25 estuarine areas in the National Estuarine Research Reserve System in 22 states
 - ✦ **1986** Approval of **Virginia program**; **90% of the U.S. coastline covered** by CZM programs in **29 states and territories**

1990 Amendments

Coastal Zone Enhancement Program; Areas of National Significance:

- **Wetlands Protection**
- **Coastal Hazards**
- **Cumulative & Secondary Impacts of
Development**
- **Public Access to the Coast**
- **Special Area Management**
- **Ocean Governance**
- **Marine Debris**
- **Government and Energy Facilities Siting**

1990 Amendments

✦ Section 6217 – “Protecting Coastal Waters”

- Requires coastal, non-point pollution control programs
- Enhanced level of coordination at Federal level (NOAA & EPA)

✦ **Watershed Management as a special challenge and opportunity:**

- “Water is Gold”
- CZM’s role in sustaining this valuable resource
- Implications for coastal waters/resources (e.g. coral reefs)
- Integrated approach:
 - Critical interactions (land, water, plants & people)
 - Collaborative approach to management



The Past Decade...

- ✦ **1992** States & territories assess “Enhancement Program” activities & prioritize needs
- ✦ **1993** World Bank publishes Noordwijk Guidelines for Integrated Coastal Zone Management; World Coast Conference
- ✦ **1997** Department of Commerce Inspector General calls on NOAA to develop “*a strategy to measure the effectiveness of the CZM program*”

Measuring Performance

- ✦ **1999** Marc Hershman & colleagues study the “effectiveness of Coastal Zone Management in the United States”
 - ◆ RECOMMENDS DEVELOPMENT OF A COMMON SET OF INDICATORS LINKING STATE PROGRAMS TO NATIONAL OBJECTIVES
- ✦ **2001** NOAA initiates development of a national performance measurement system; commissions Heinz Center Study
- ✦ **2003** Heinz Center publishes a “*Framework for Identifying Performance Indicators*”

Framework for Performance Indicators (Heinz Center, May 2003)

✦ Six “focus areas” based on Section 303:

- Coastal Ecosystems
- Coastal Water Quality
- Coastal Hazards
- Public Access
- Waterfront Development
- Coastal-Dependent Uses (e.g., fishing & shipping)

✦ Quantifying success in 3-4 “measurable” dimensions for each focus area

Current Bearings

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- ✦ **34 out of 35 eligible states & territories with approved programs covering 99.9% of the Nation's shoreline**
 - ✦ **Since 1974, approximately \$1.6 billion in Federal funds have been appropriated for coastal management; matched by states**
 - ✦ **As of 1998, 53% of Americans live in coastal regions (11% of the Nation's land); by 2025, 75% of the U.S. population is expected to live within 50 miles of the coast**

Current Bearings

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- ✦ **Maritime commerce accounts for 95% of imports to and exports from the U.S.**
 - ✦ **Tax revenues associated with shipping contribute about \$20 billion annually in Federal, state and local taxes**
 - ✦ **Commercial fisheries is a \$3.6 billion a year industry in the United States**
 - ✦ **Outer continental shelf accounts for 30% of domestic oil and 27% of domestic gas production**

Current Bearings

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- ✦ **More than 90% of marshes along U.S. coastlines have been destroyed; Louisiana alone has seen a net conversion of 4,000 square kilometers to open waters**
 - ✦ **Between 1972 and 1984, amount of public recreational land increased by 27%; still not sufficient to meet increasing demands**
 - ✦ **Approximately 50% of all new residential, industrial, office, retail & recreational buildings constructed in coastal areas**

Our Navigational Tools: *Balance*

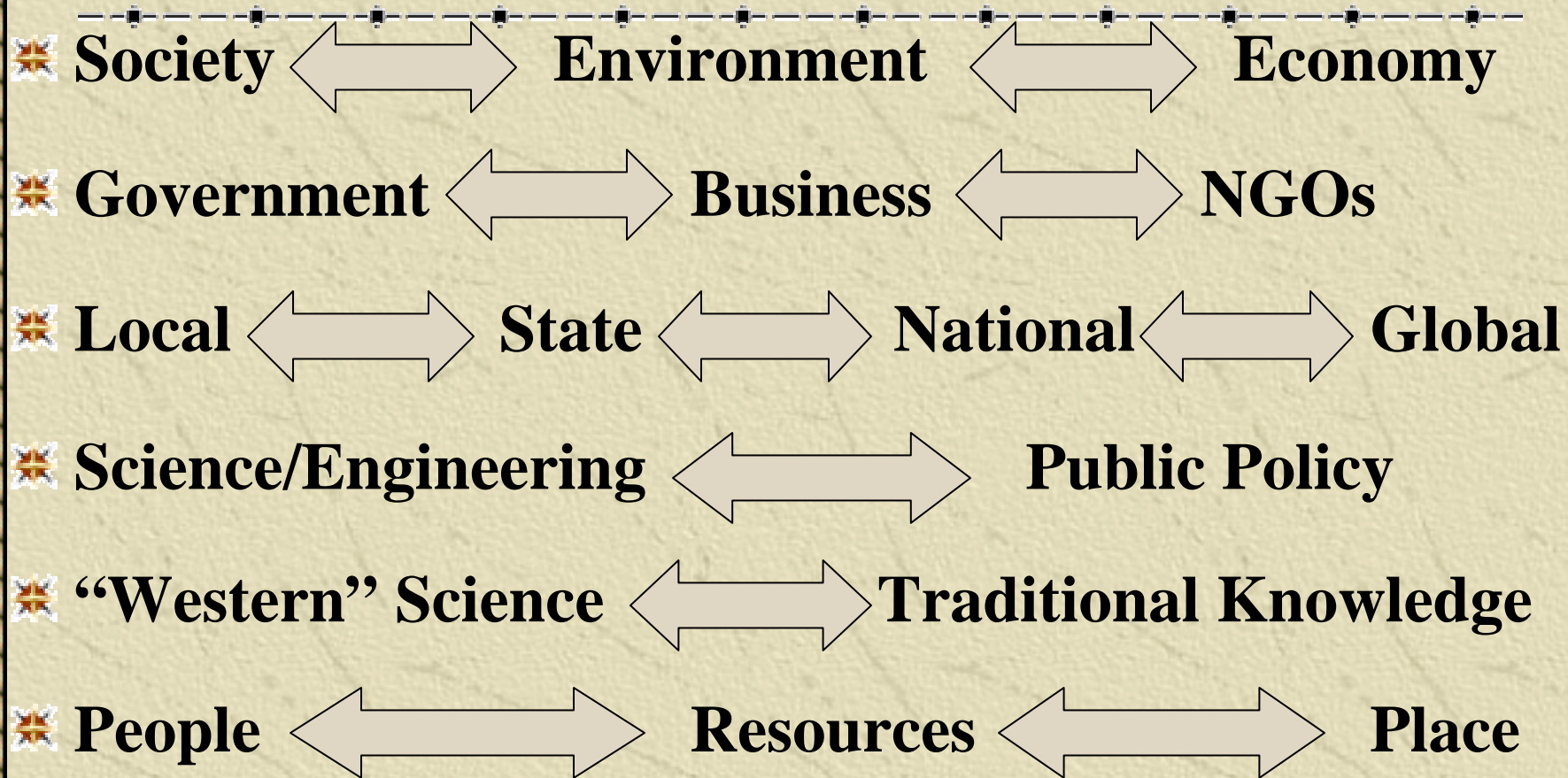
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- ✦ **Preservation-Protection-Development-
Restoration/Enhancement**
 - ✦ **Competing stakeholder interests and
needs**
 - ✦ **Competing program objectives:**
 - ◆ **Within individual programs**
 - ◆ **Between states/territories and
national CZM objectives**

Our Navigational Tools:

Accommodation & Compromise

- ✧ **Multiple uses and users**
- ✧ Understand and respect **differing values and needs**
- ✧ Focus on **practical problem-solving:**
 - “Spotlight on Solutions”
- ✧ Opportunities to **share insights & experience**
- ✧ **Culture & traditional with science, engineering**

Our Navigational Tools: *Partnerships*



Our Navigational Tools:

Participation

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- ✦ All interested parties
 - ✦ Development & maintenance of partnerships for the long term
 - ✦ Process as important as products and “measurable” outcomes
 - ✦ Interactive dialogue and joint problem-solving
 - ✦ Education and outreach essential program elements

Our Navigational Tools:

Integration

- ✦ **Different perspectives, values and needs**
- ✦ **“Inter-relatedness”** as important as individual activities
- ✦ **Social, cultural, economic, environmental**
- ✦ **Land, water, resource use & development patterns**
- ✦ **Interactions/interdependencies of ecosystems & resources**
- ✦ **Local, state, Federal, international**

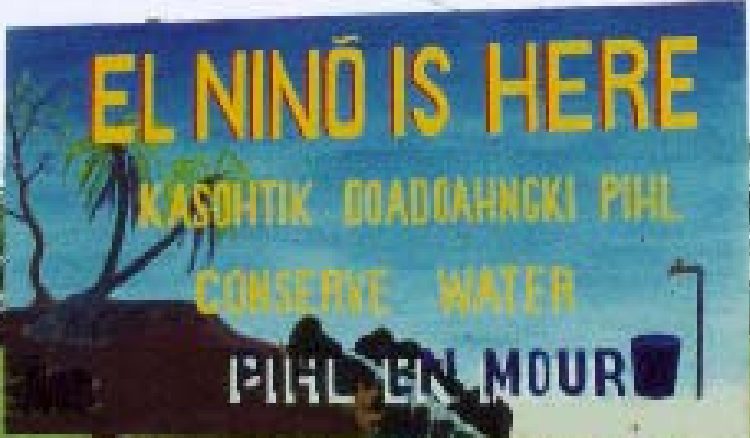
Our Navigational Tools:

Flexibility

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- ✦ **Dynamic systems** – people, environment, resources;
Change (not stability) the rule
 - ✦ **One size does not fit all**
 - ✦ **Creative combinations; innovative approaches**
 - ✦ **Adaptive Management**
 - Iterative decision-making
 - Continuous monitoring
 - Regular adjustments based on new insights & changing conditions
 - Learn from successes **and** failures

Our Navigational Tools: *Proactive Planning*

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- ✦ **Address today's needs while planning for the future**
 - ✦ *Meninkairoir* – Take the long view
 - ✦ Mechanisms to **anticipate change** and **keep management flexible**
 - ✦ **Building Resilience** of coastal communities, businesses, ecosystems & resources
 - *Climate Risk Management* a special challenge and opportunity



EL NIÑO IS HERE
KASOHTIK DOADDAHNGKI PIHL
CONSERVE WATER
PIHL EL MOUR



“Fuel” for Our Journey

 ***ENERGY***

 ***COMMITMENT***

 ***ENTHUSIASM***

 ***PASSION***

 ***OHANA***





















OHANA

*`i ke aku, `i ke mai,
kokua aku kokua mai;
pela i ho la ka nohona ohana*

**“Value and respect your family; help others,
and be helped in return;
such is a family relationship”**

