

Oceana's Science Symposium

- Background
- Ocean forces
- Fishing in the system
- All the bits
- Values in fisheries
- Leaving a Legacy

Rebuilding Abundance: Leaving a Legacy

Jim McIsaac
Pacific VP CIFHF
Westin Hotel, Ottawa Ontario
Oct 26, 2022





$$\Delta x \Delta p \geq \hbar/2$$



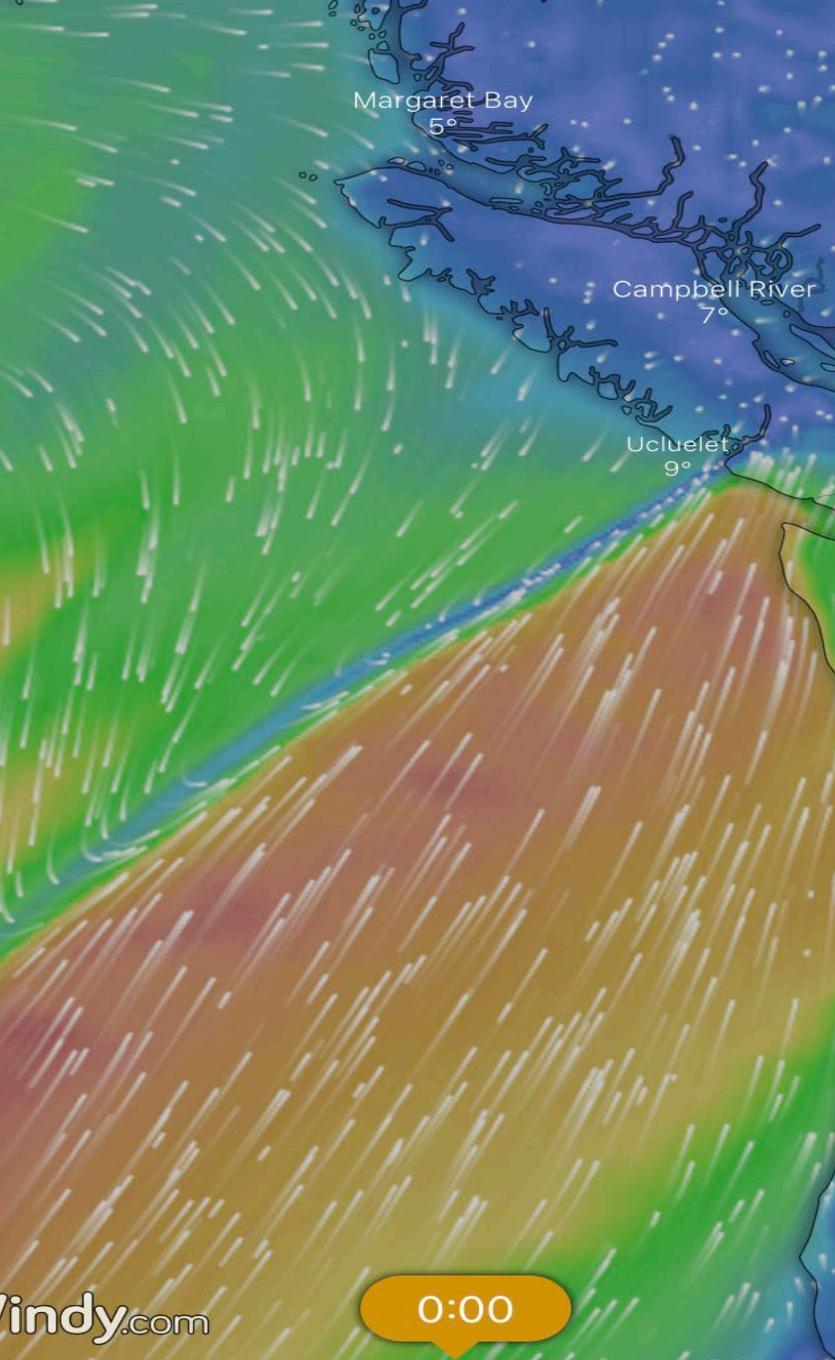
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About CIFHF

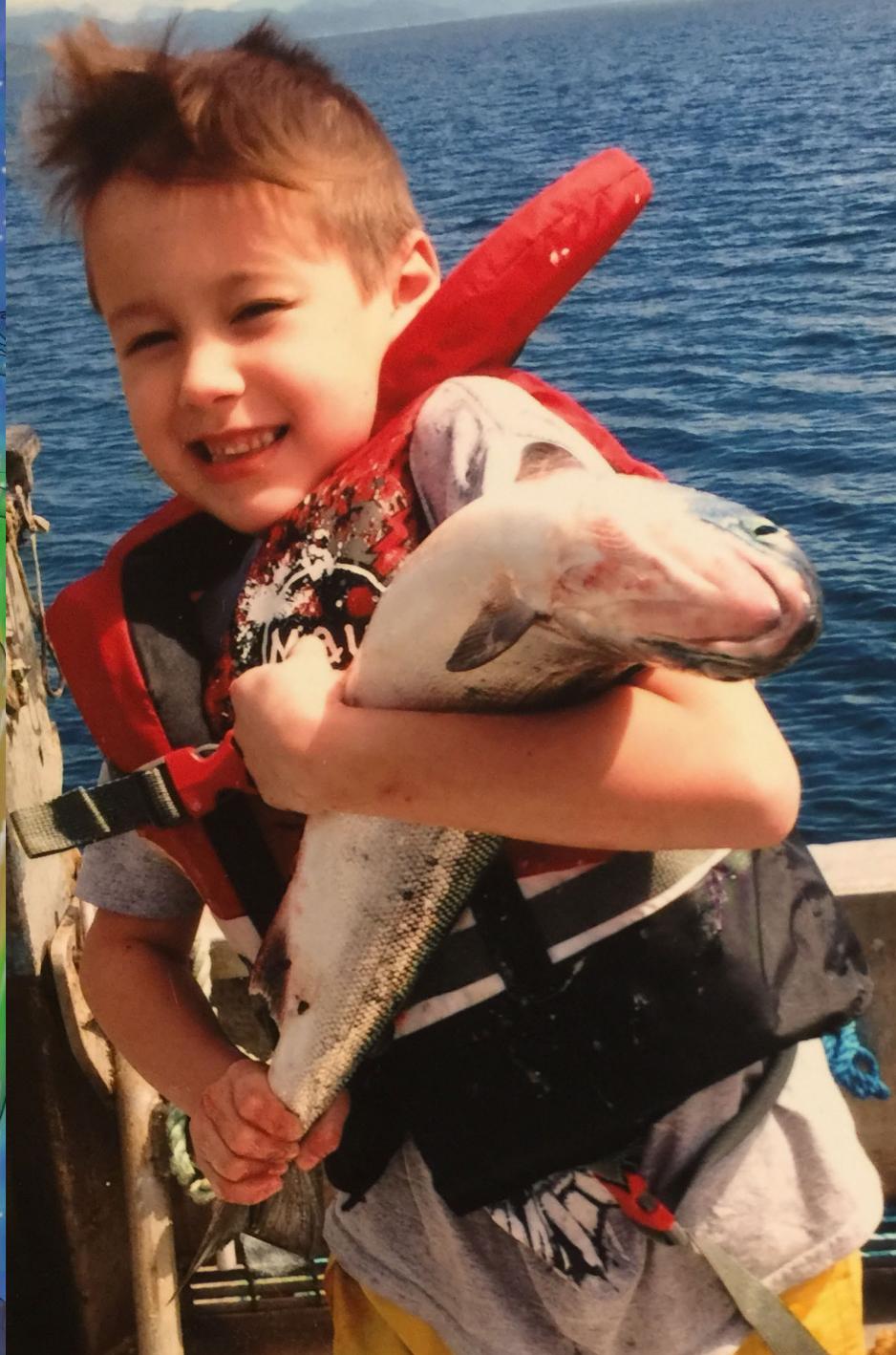
- **Members' organization:**
 - **34** member organizations across the country
 - **14,000** independent, owner-operator enterprises that harvest most of Canada's lobster, crab, wild salmon, shrimp, and groundfish
 - **20 million hours on the water** per year, making us key local knowledge holders of the sea
- **Contribution to the economy (2019):**
 - **\$3.7 billion** in landed value, generating over **\$7.44 billion** in export
 - **43,000 crew workers**, single largest private employer in Canada's rural coastal communities
- **Contribution to food security:**
 - **Sustainable** protein is critical to long term food security
 - **Access** held in local hands ensures food security



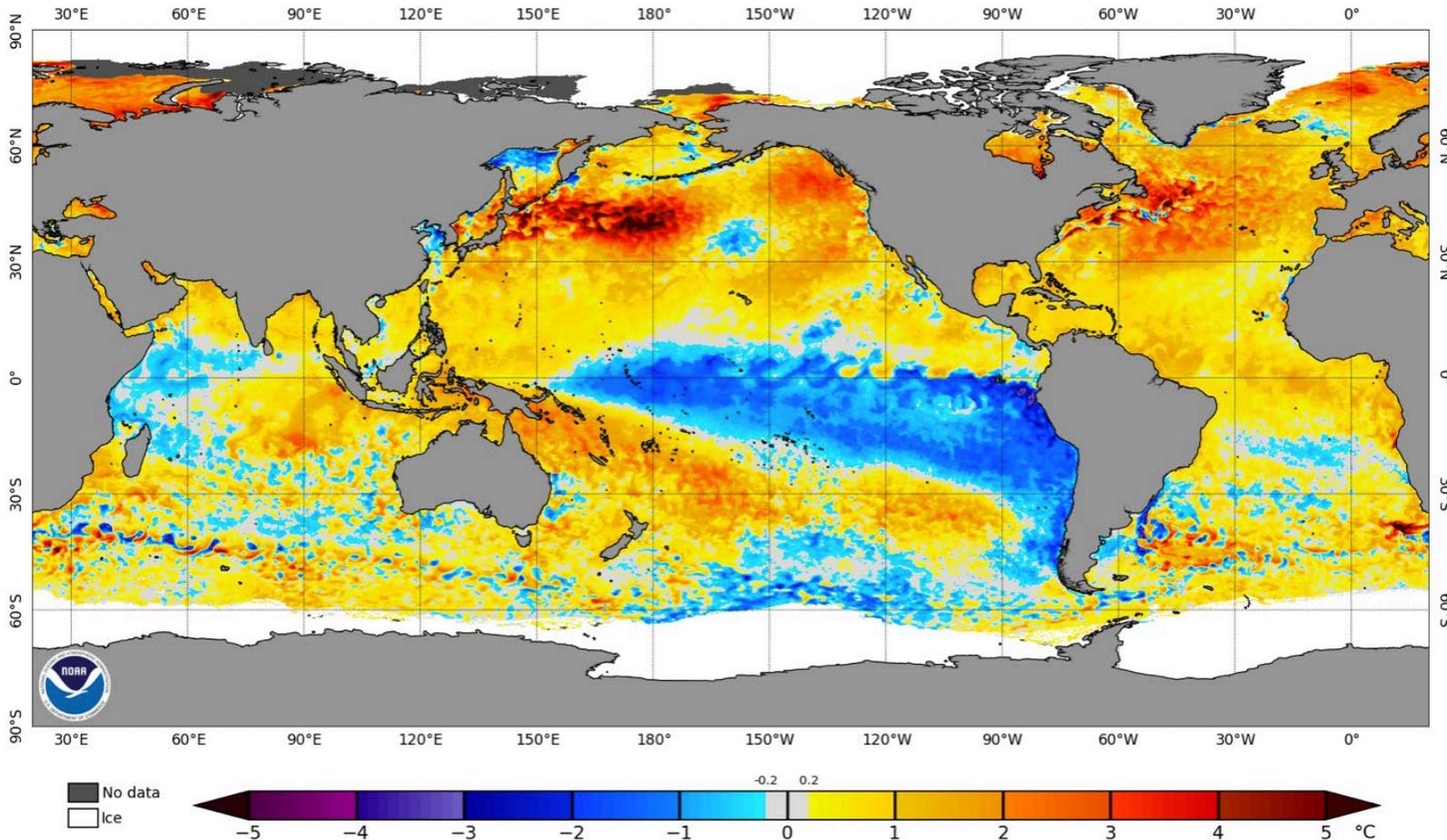
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NOAA Coral Reef Watch Daily 5km SST Anomalies (v3.1) 17 Oct 2022



Increasing resource demand

Ocean grabbing

Disruptive forces

Climate Change

Technology → AI

Covid 19

War ↔ Energy

Polarized Politics

Increasing population

Rapid urbanization

Rising middle class

Increasing pollutions:

CO2 up O2 down

POPs

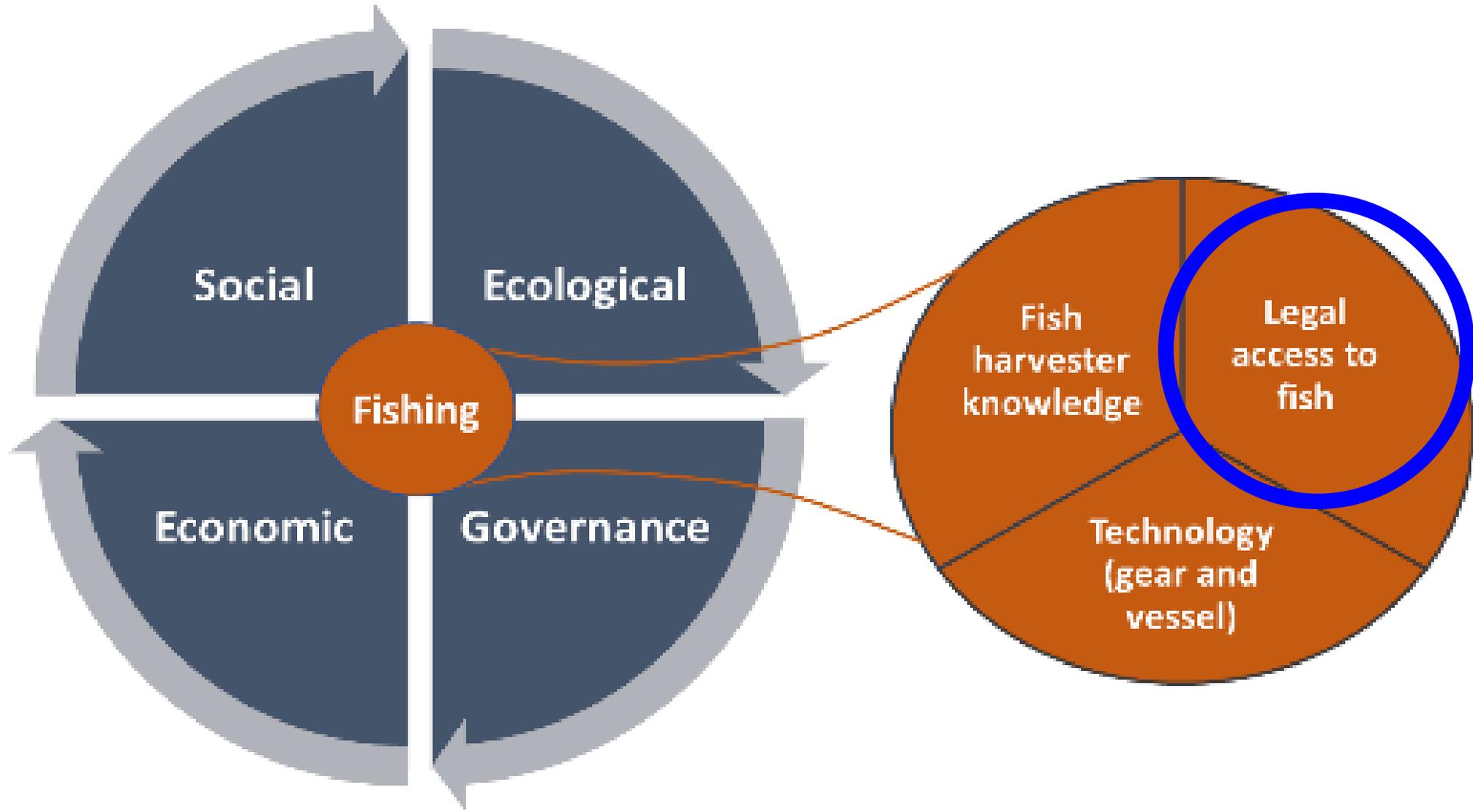
Plastics

Ocean Acidification

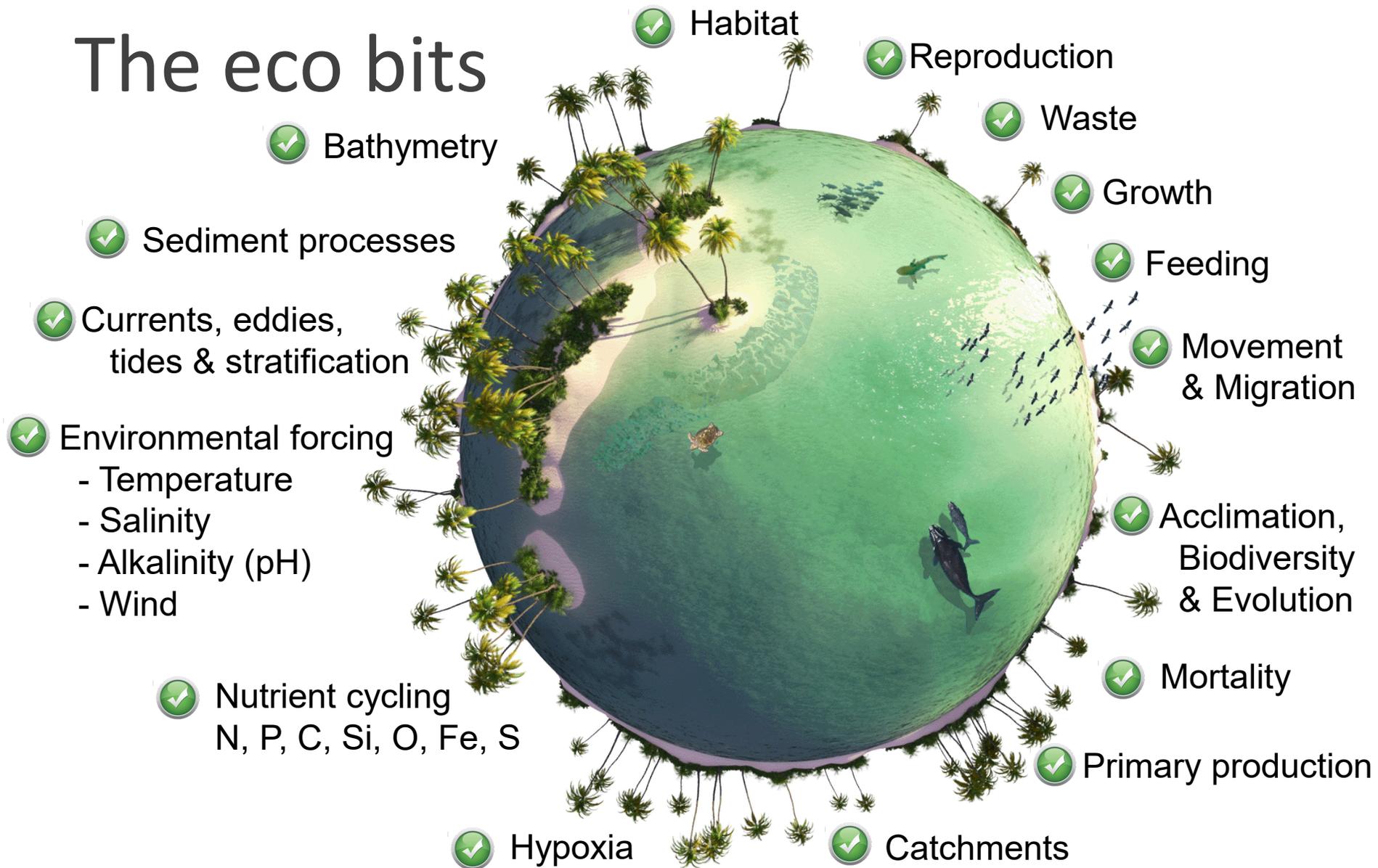
Ocean governance

Fractured decision making





The eco bits



Courtesy Beth Fulton

The other bits

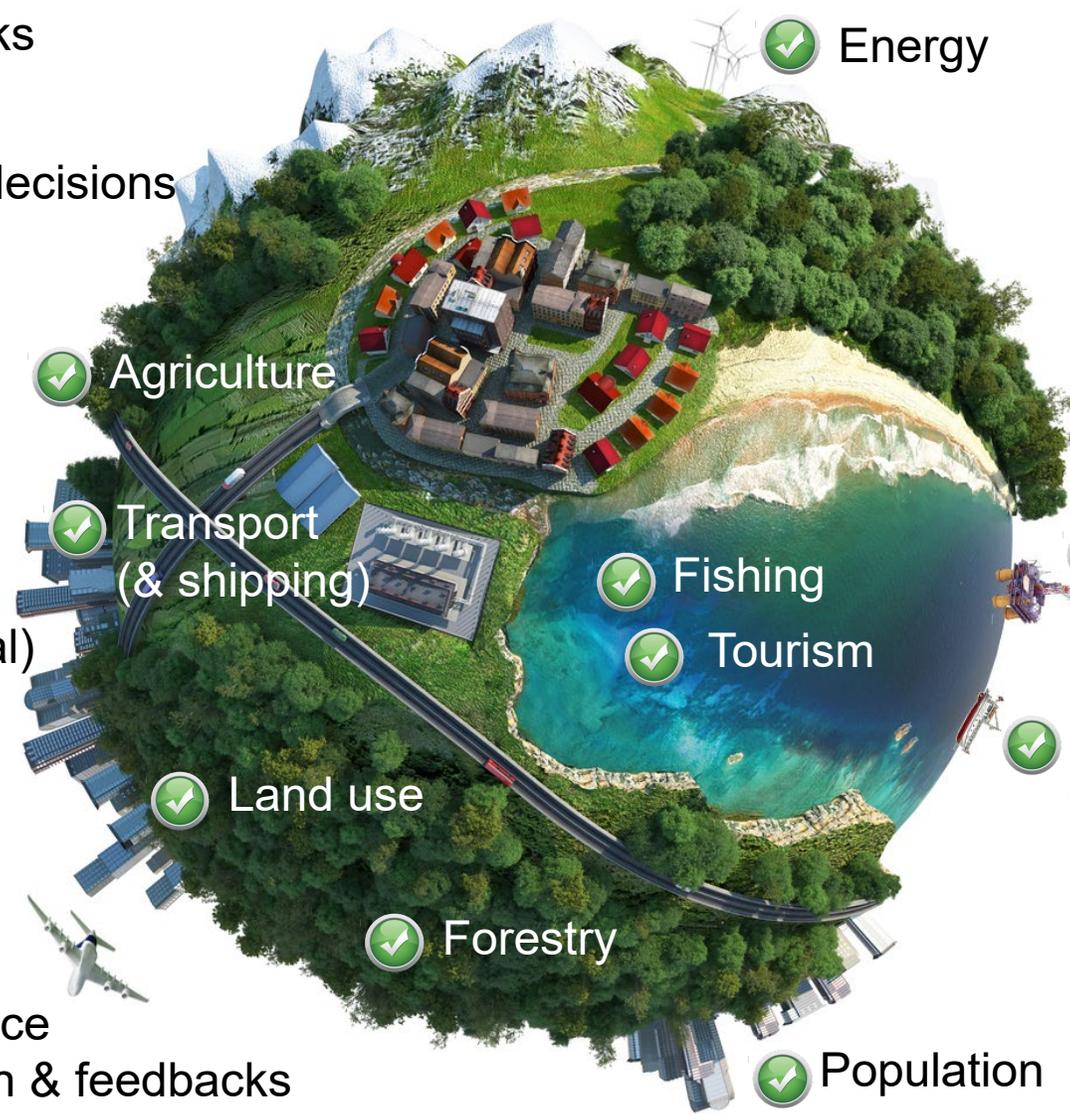
- ✔ Social networks
- ✔ Attitudes
- ✔ Behaviour & decisions

- ✔ Monitoring
- ✔ Assessments
- ✔ Control Rules
- ✔ Regulation

Urban (& residential) development & infrastructure (including ports)



Limits
Governance
Integration & feedbacks



- ✔ Economy
- ✔ Markets
- ✔ Trade
- ✔ Costs
- ✔ Revenue
- ✔ Investment

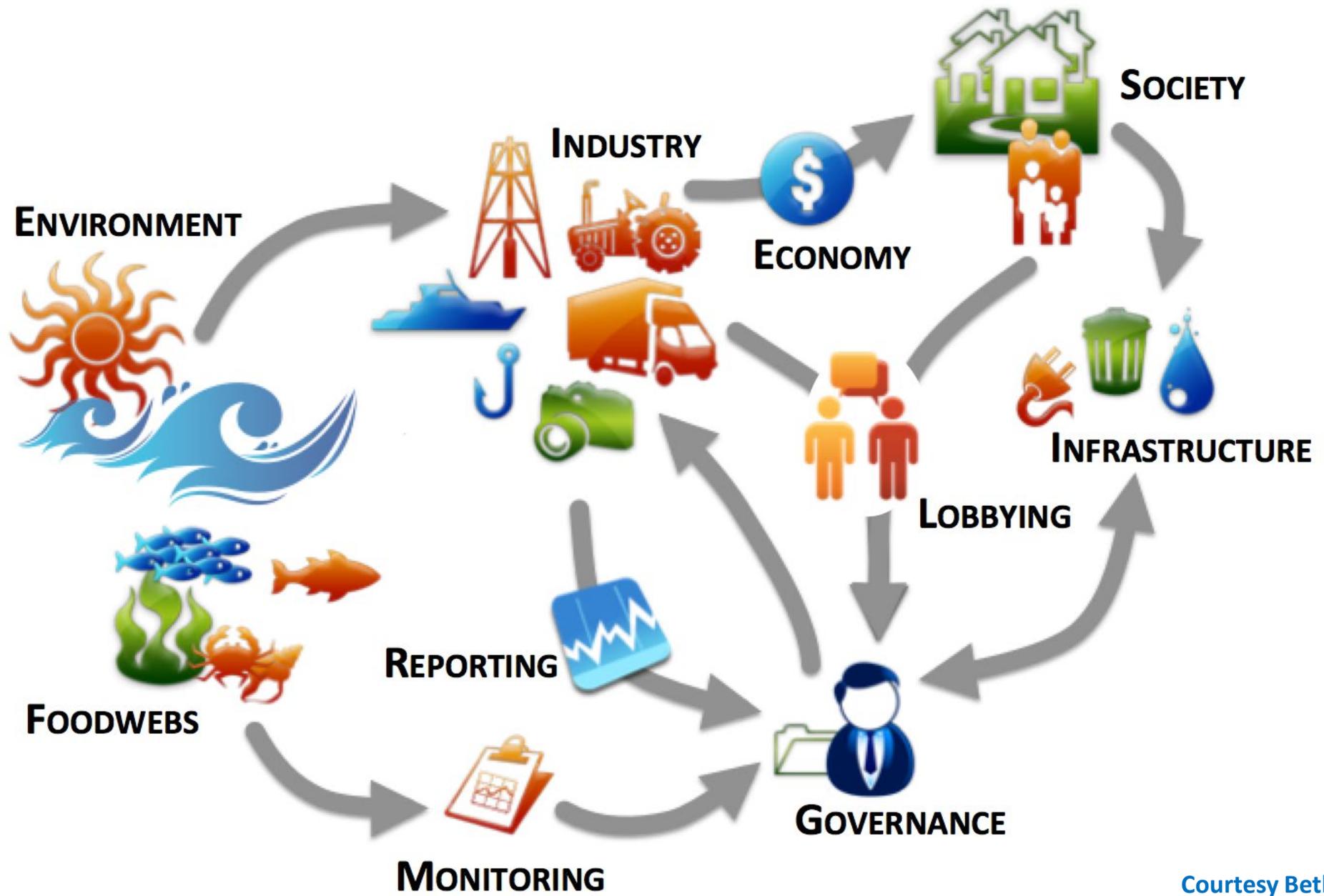
✔ Catchments

✔ Non-renewable Resources (oil, gas, mining)

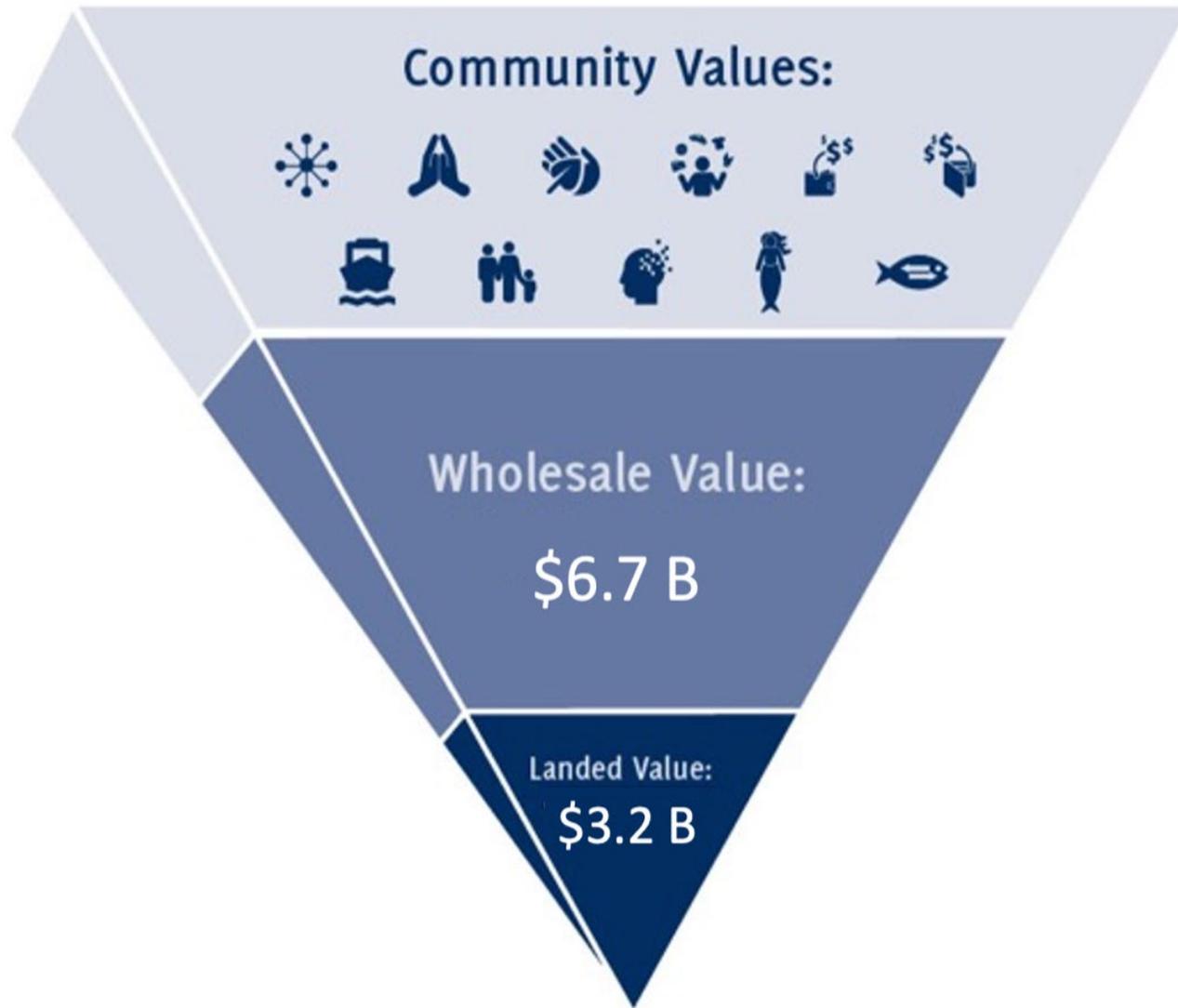
✔ Fisheries (commercial & recreational)

✔ Population

Courtesy Beth Fulton



Courtesy Beth Fulton



The tangible values, landed value, wholesale value... are very important for harvesters, coastal communities, and our economy.

The intangible values, cultural ecosystem services, are especially important for rural and remote coastal communities. These are lost when local access is no longer held by local harvesters and adjacent communities.

Our Abundant Ocean Legacy needs a commitment to secure ocean access for local harvesters and coastal communities for the long term.





Thanks for listening