

A COLLABORATIVE INITIATIVE OF:







FUNDED I



Fisheries and Oceans

Pêches et Océans Canada



## BASIN-SCALE EVENTS & COASTAL IMPACTS (BECI)

Building the North Pacific Ocean Knowledge Network

**WELCOME & INTRODUCTIONS** 

**PRESENTATION** 

PLATFORM DEMONSTRATION

DISCUSSION

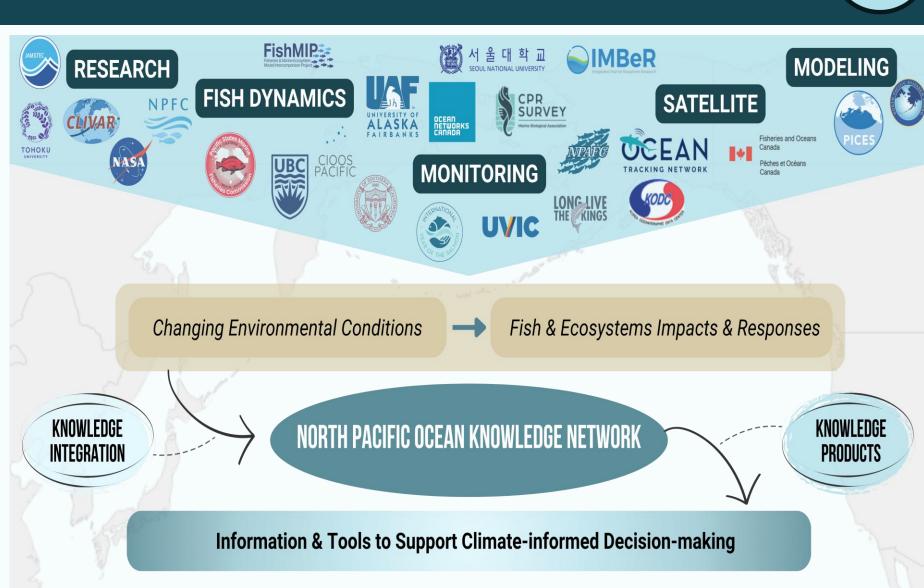
Fish don't have borders and neither does BECI

### NORTH PACIFIC OCEAN KNOWLEDGE NETWORK



### **One-Stop Solution:**

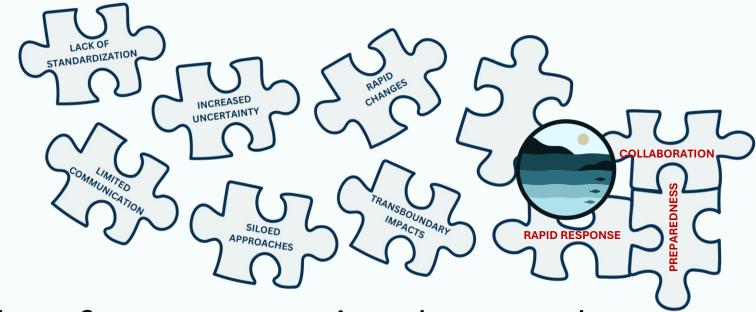
- Discovery & Access
- Integration
- Synthesis
- Collaboration



## WHY IS A NPO KNOWLEDGE NETWORK NEEDED?



#### SCATTERED EXCELLENCE = REDUCED PREPAREDNESS & FRAGMENTED RESPONSE



Knowledge fragmentation has real consequences

Fish populations shift across borders faster than management systems can respond

Early warning signals for emerging threats go undetected

Industries and livelihoods
suffer as fish populations
decline and shift unpredictably

## **HOW IS THE NETWORK DESIGNED?**



# The network is being designed as a **hybrid knowledge system**:

### FEDERATED DISCOVERY

BECI connects you to existing resources through a comprehensive directory.

Resources remain with original providers.

### **EXPERT GUIDED CURATION**

Experts contribute to network content.

### STRATEGIC SYNTHESIS

BECI creates synthesis products to answer specific questions.

## INTEROPERABLE & AI-ENHANCED

Using international data standards and machine learning to support the knowledge network and its experts by automating content discovery and keeping information current.

## **COMMUNITY IS KEY**



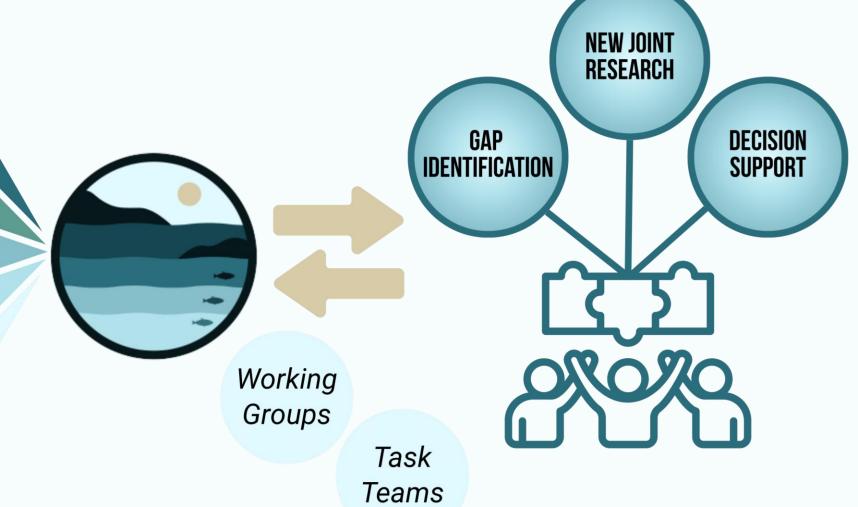
Oceanographers

**Biologists** 

**Ecologists** 

Modellers

**Decision Makers** 



## NETWORK TOOLS & KNOWLEDGE PRODUCTS





Access synthesized insights through comparative reports



Compare trends across regions with dynamic dashboards

Discover tools and research via searchable catalogues

Connect with experts
via collaboration
platforms

### WHAT DOES BECI ACTUALLY DELIVER?



## WHAT WE CONNECT AND ORGANIZE

Climate and environmental indicator information

Transboundary species distributions and trends (models and outputs)

Information about extreme events

Climate-adaptive management approaches

## WHAT WE CREATE FROM THAT COLLECTION

Ecosystem status updates

Interactive maps and regional synthesis

Extreme event alerts &bulletins

Management strategy synthesis

## HOW PEOPLE CAN ACTUALLY USE IT

RFMO meeting support & Ecosystem assessment reports

Coordinate management across shifting ranges & future scenario planning

Early warning support, monitoring prioritization & industry planning

**Cross-RFMO coordination** 

### **ALIGNMENT WITH NPFC**



## ENHANCED ENV. INFORMATION ACCESS

Organized climate and oceanographic information from across the North Pacific

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#### **CROSS-RFMO COORDINATION**

Facilitating
information sharing
between NPFC and
other Pacific RFMOs
on shared climate
challenges - can we
learn from each
other?

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## TRANSBOUNDARY SPECIES INTELLIGENCE

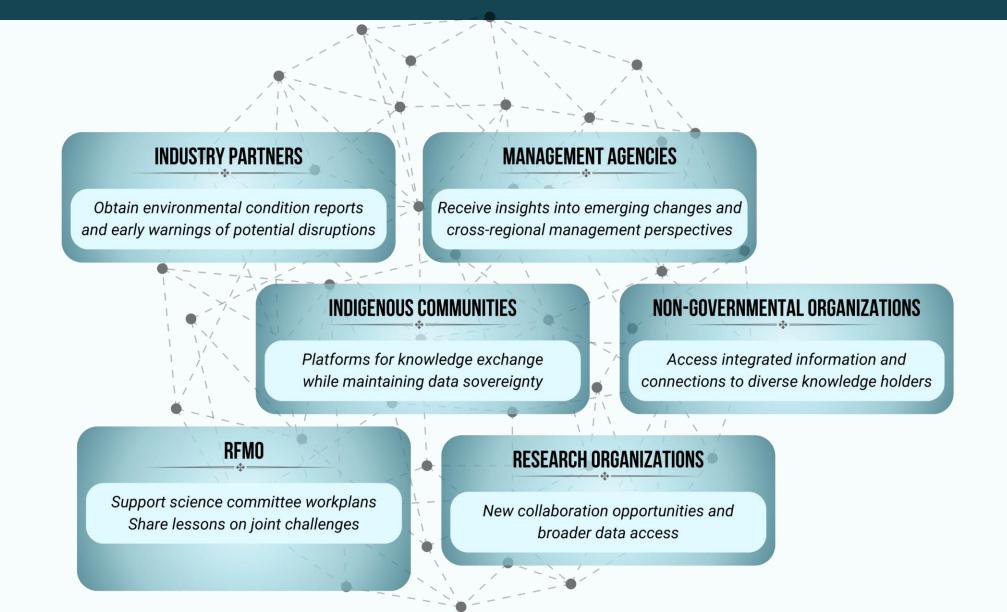
comprehensive environmental context for migratory species that move across multiple jurisdictions 4

## CLIMATE WORKPLAN IMPLEMENTATION SUPPORT

Supporting NPFC
with organized
environmental
intelligence needed
for climate-resilient
fisheries
management

## BENEFITS TO USER GROUPS





### WHY BECI MATTERS?



#### THE PROBLEM WE SOLVE

Climate impacts and fishes cross borders, but information about those impacts stays within them. When a marine heatwave affects the entire North Pacific, managers respond separately using different information and responses. Critical insights remain isolated by jurisdiction and ecosystem context is lost.

#### WHAT MAKES US DIFFERENT

We don't compete with data / resource systems - we connect them. We don't generate data - we synthesize it. We don't replace experts - we amplify their work across borders.

#### WHO NEEDS US MOST

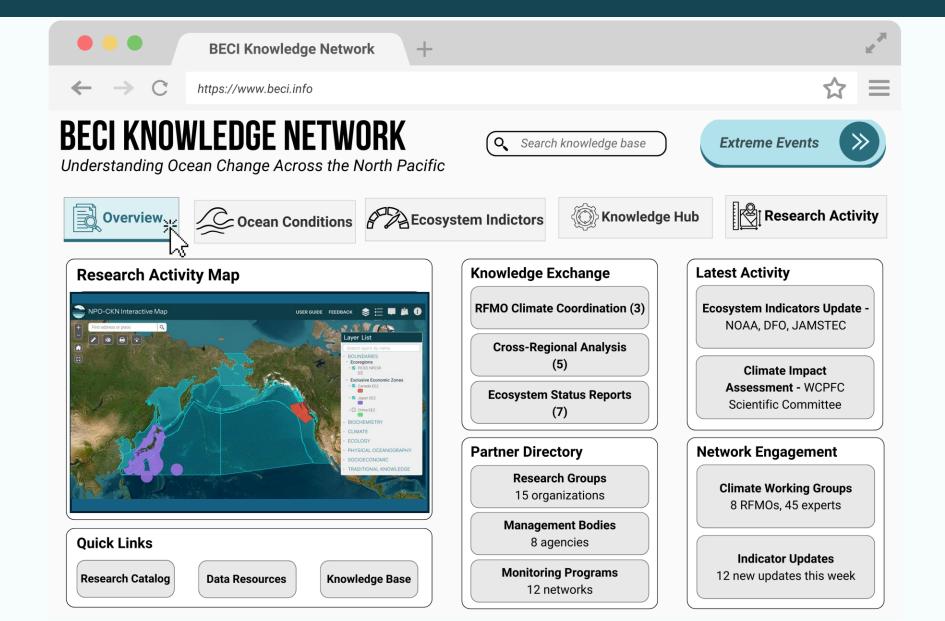
Managers coordinating transboundary stocks across jurisdictions; Scientists seeking cross-regional patterns and collaboration; Monitoring programs needing basin-wide context; Industry requiring distribution shift forecasts

#### **OUR 10-YEAR GOAL**

Transform reactive crisis management into proactive, climate-informed coordination across the North Pacific. Show the importance of ecosystem-based understanding and approaches. Become the global model for international marine knowledge synthesis that involves community.

## BECI IN ACTION: KNOWLEDGE NETWORK DEMONSTRATION





### **CALL TO ACTION**



We're looking for partners and funders. Organizations that see value in this synthesis. Funders who recognize that connecting existing information is as important as generating new data. We're looking for partners who want to contribute their data, their expertise, and their needs.

If you're working on North Pacific fisheries or conservation, we want to talk to you about how BECI can support your work and how your work can strengthen BECI.

If you're interested in being part of building the full Knowledge Network - let's talk.