Chesapeake Bay Program
Science. Restoration. Partnership.

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Interconnectivity of Chesapeake Bay Program Goal Implementation Teams and Workgroups

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Credits

A special thanks to:

- Bailey Bosley, USGS-LMG
- Sophie Waterman, USGS-LMG
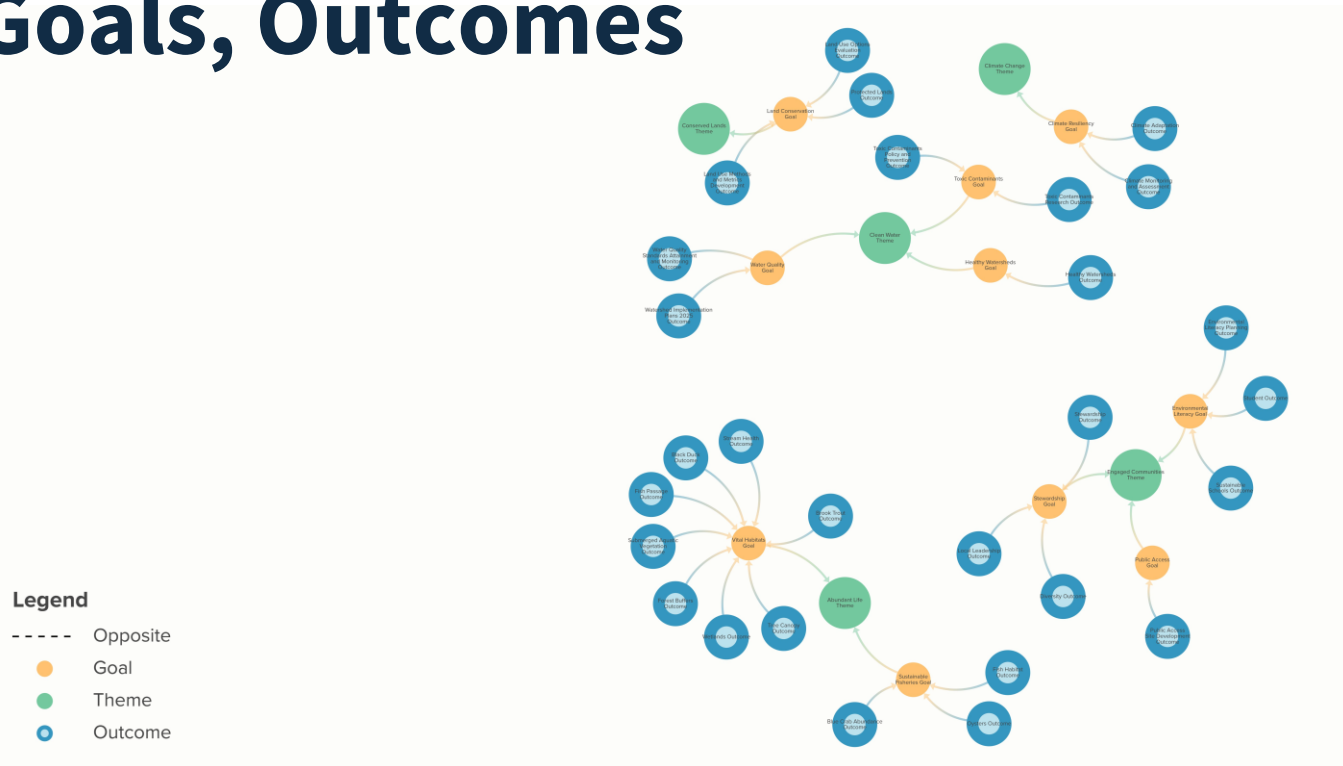- Alex Gunnerson, USGS-LMG

- Melinda Lin, Cornell University

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Topics

1 **Knowledge Graphs/Systems Maps Overview**

2 **Filtering for Goal Framework Options**

3 **Outcome Chord Diagrams**

Themes, Goals, Outcomes

Legend

- - - - - Opposite
Goal
Theme
Outcome

Current Draft Knowledge Graphs

| Topics	Relationships
Themes, Goals, Outcomes	Outcome → Goal → Theme
Factors Affecting Outcome Progress	Outcome → Factor
Stakeholder Organizations	Outcome → Organization
Decision Support Tools	Outcome → Tool
Science Needs	GIT → Science Need
Indicators	Outcome → Indicator
Workgroups	Outcome → Workgroup/GIT
Partnership	Workgroup → Members
Outcomes Chord Diagram	Outcome → Outcome

Outcome Alignment
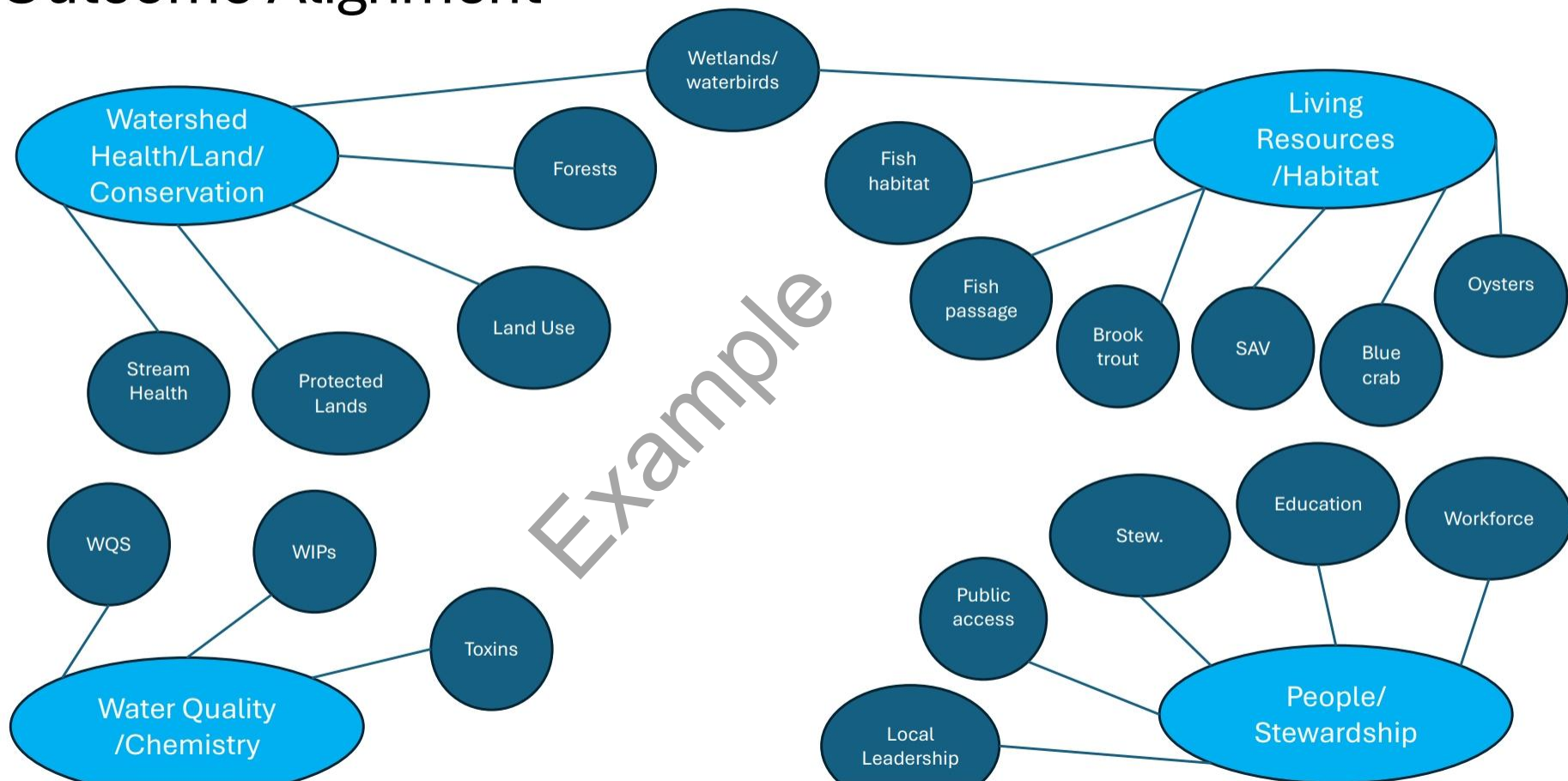
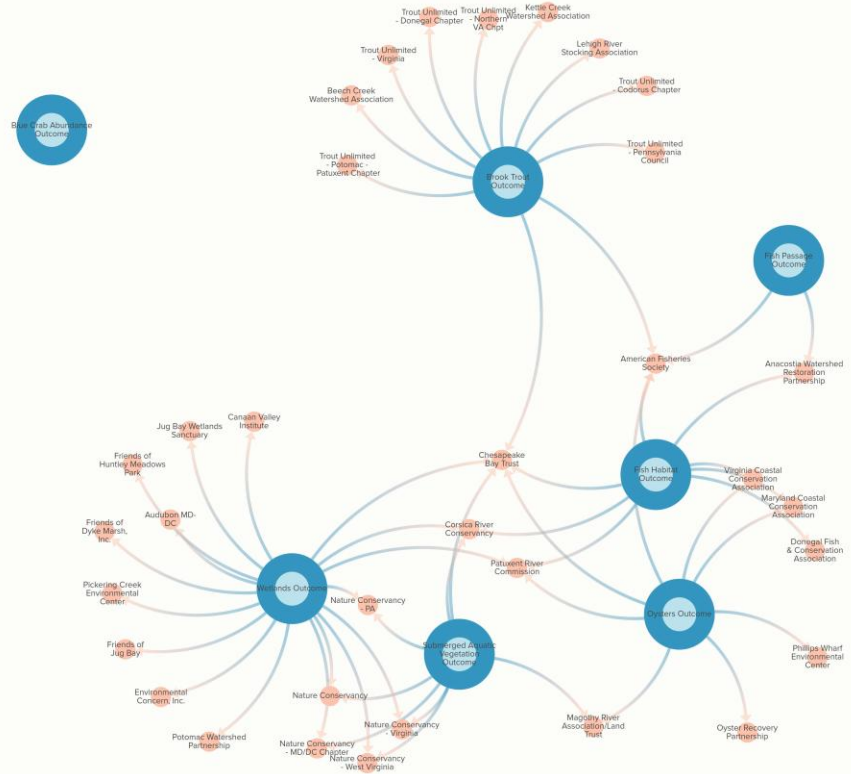# What stakeholder groups are common to similar Outcomes?

Legend

- - - - - Opposite
- ◉ Outcome
- ● Organization

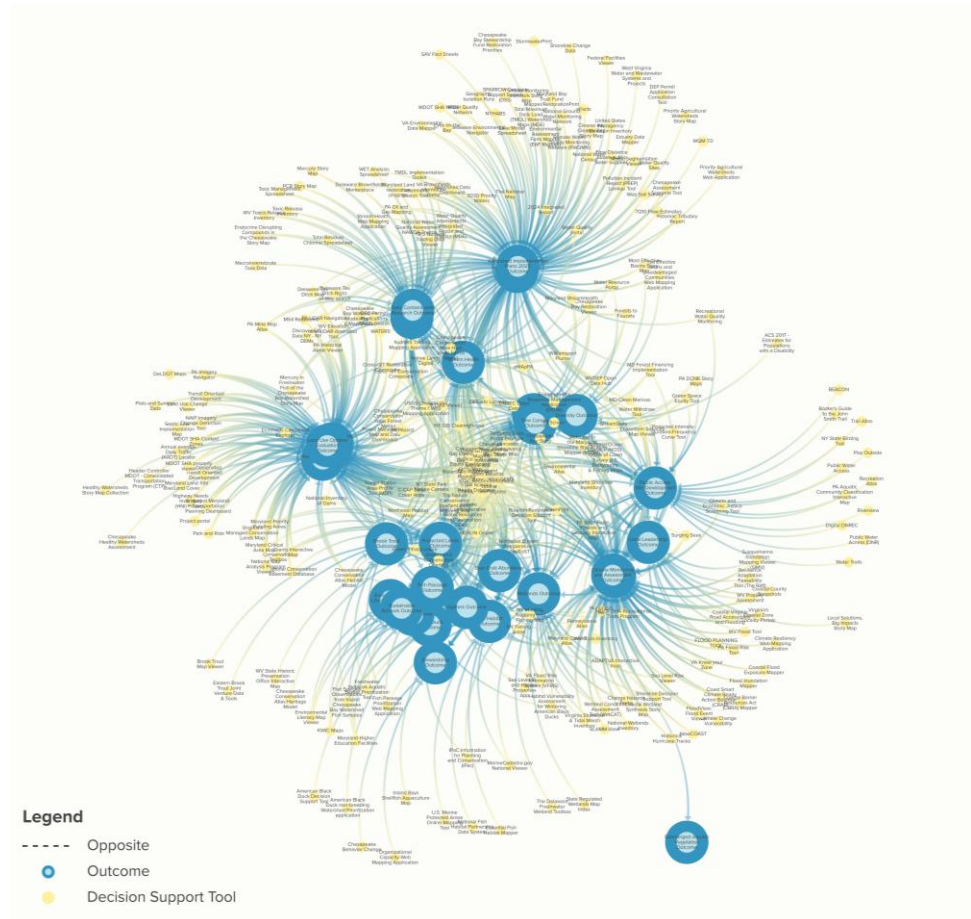# What stakeholder groups are common to similar Outcomes?
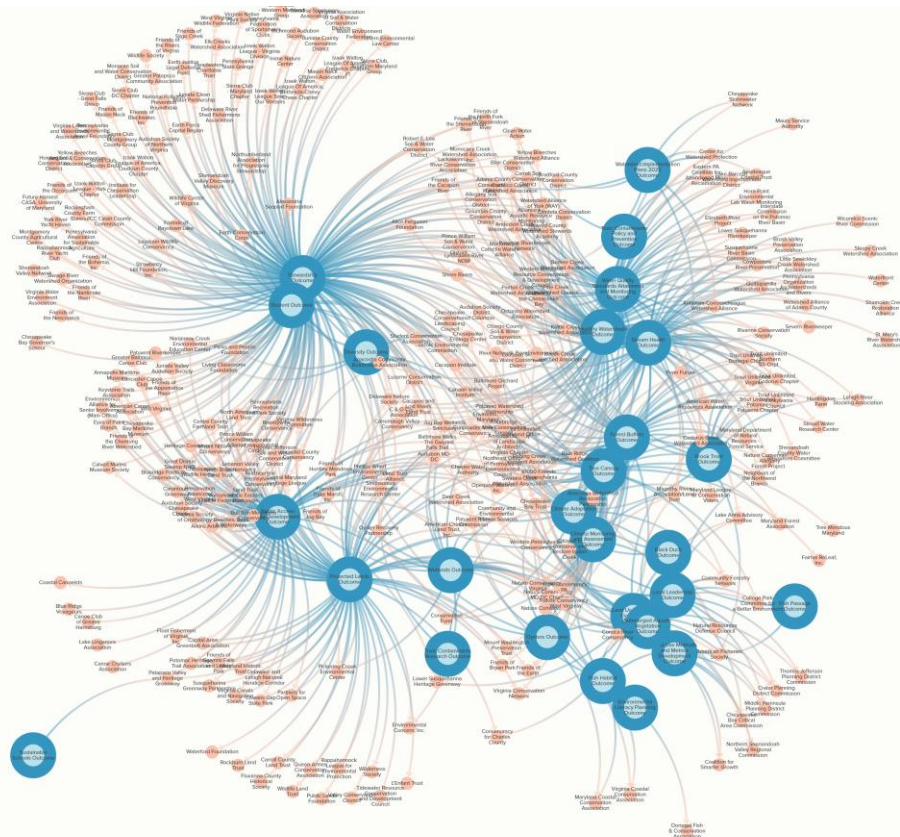
Living Resources Group

Legend

- - - - - Opposite

◉ Outcome

● Organization

What decision support tools focus on topics common to multiple Outcomes?

What decision support tools focus on topics common to multiple Outcomes?

Living Resources Group

What decision support tools focus on topics common to multiple Outcomes?

Water Quality Group

Legend
- - - - - Opposite
⊙ Outcome
● Decision Support Tool
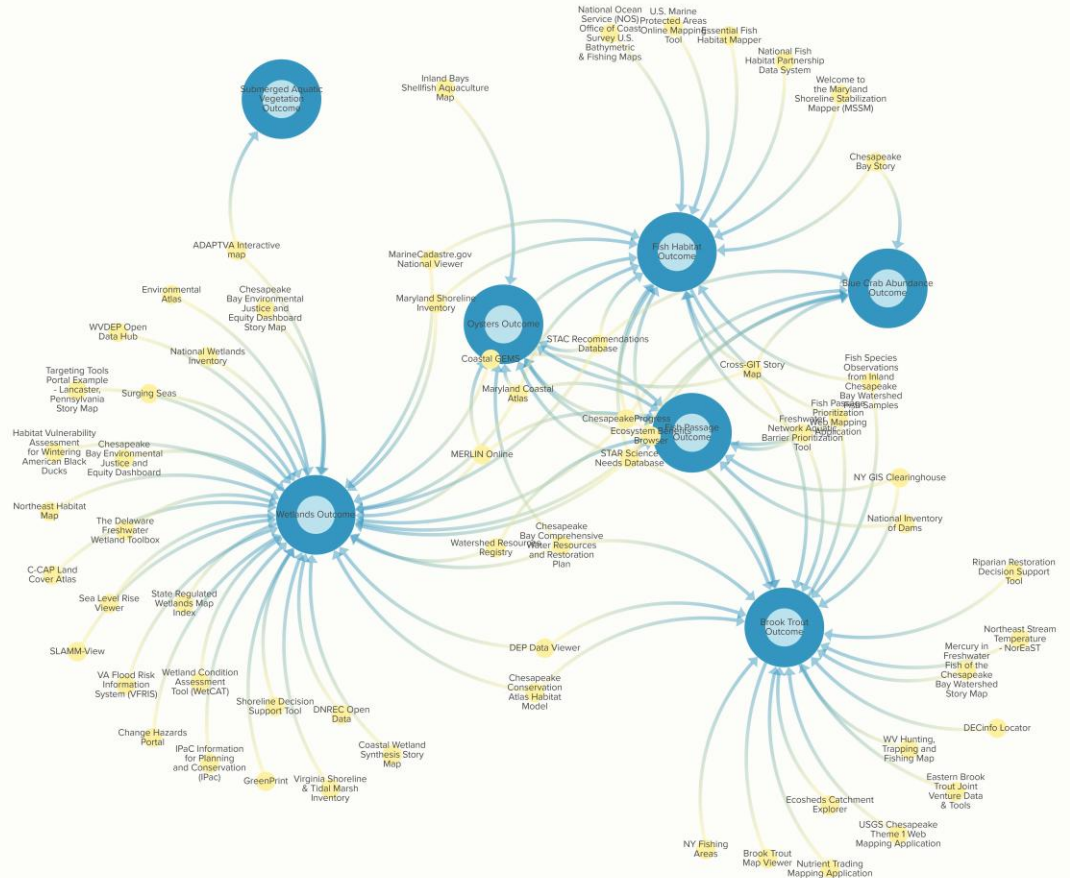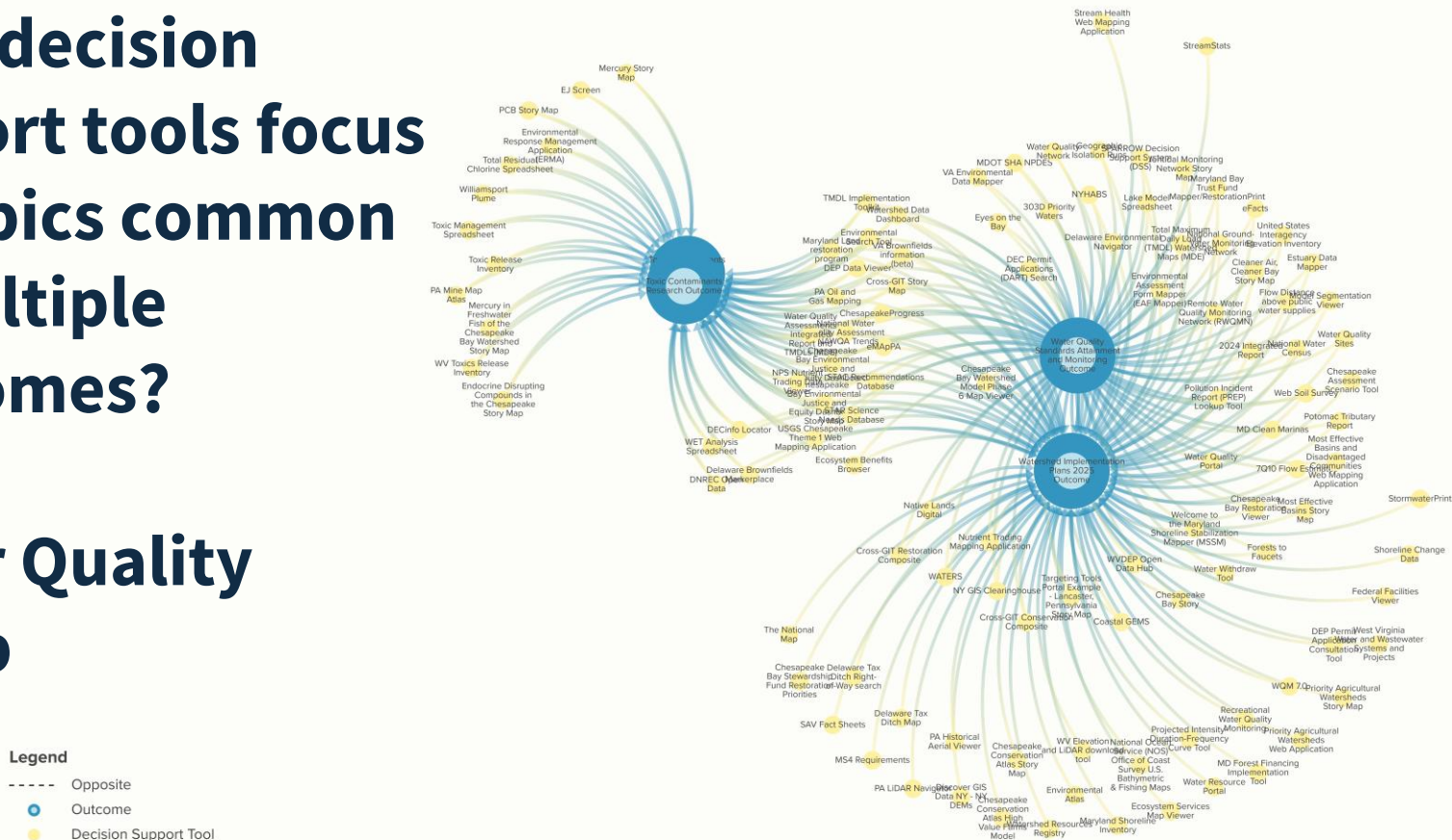
What science needs are common to multiple Outcomes?

Legend

- - - - - Opposite

⊙ Outcome

● Science Need

What science needs are common to multiple Outcomes?

Living Resources Group
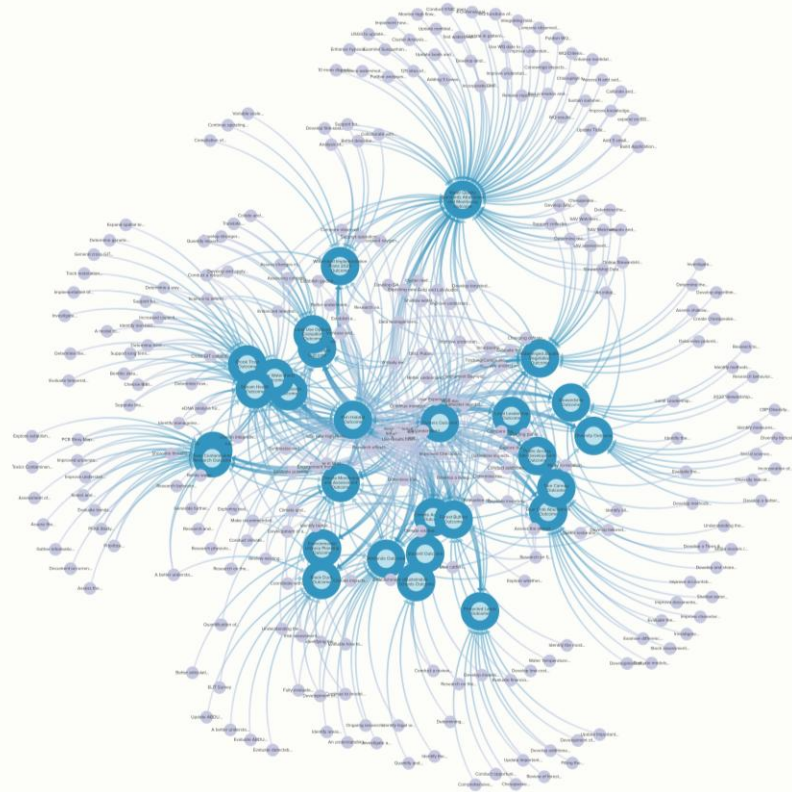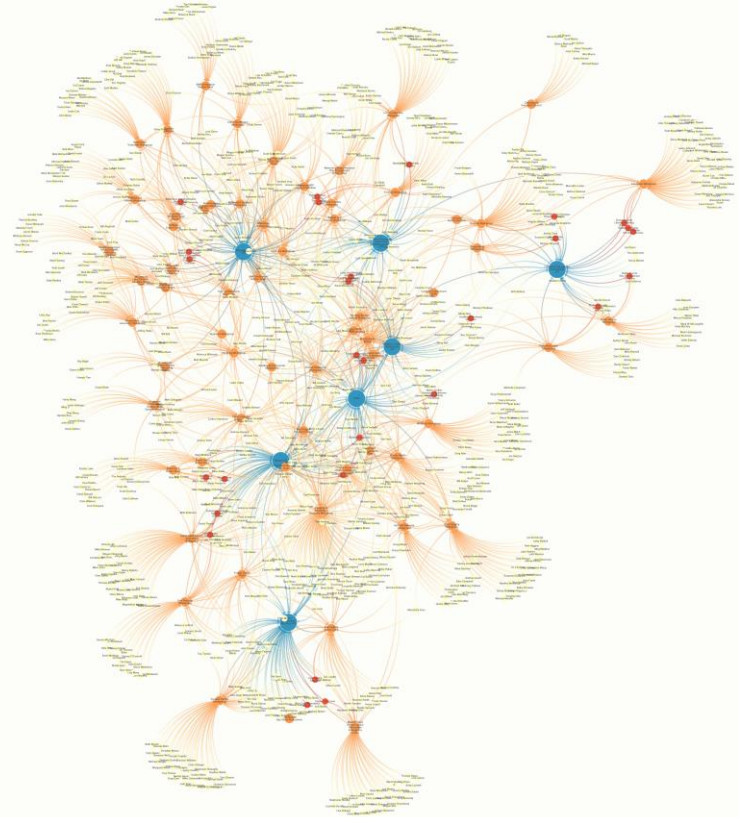

Legend

- - - - - Opposite
- ⊙ Outcome
- ● Science Need

How does Workgroup membership align with Outcomes?

Legend
- - - - - Opposite
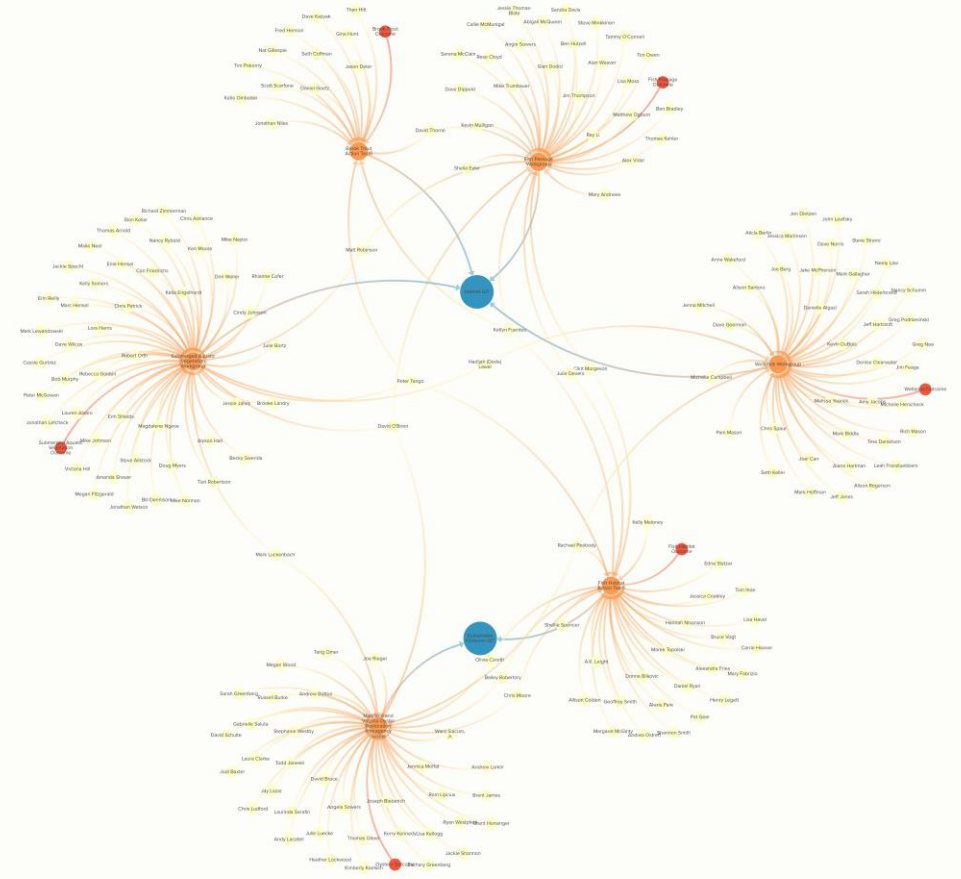🔵 Goal Implementation Team
🟢 Member
🟠 Workgroup
🔴 Outcome

How does Workgroup membership align with Outcomes?

Living Resources Group

Legend

- - - - - Opposite
- 🔵 Goal Implementation Team
- ⚪ Member
- 🟠 Workgroup
- 🔴 Outcome

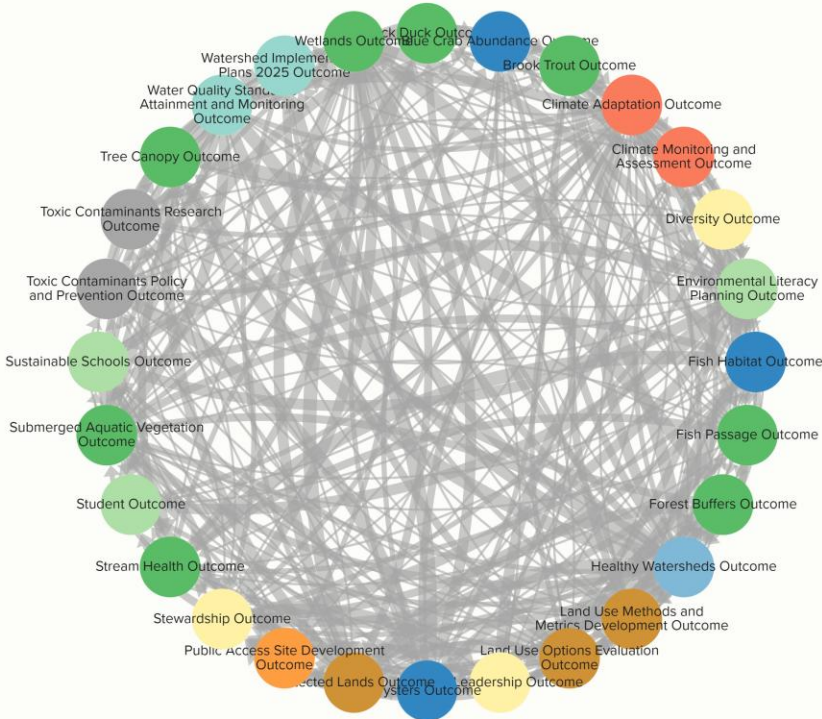# Themes, Goals, Outcomes

Legend

----- Opposite

● Goal

● Theme

◉ Outcome

Outcome Chord Diagram

Legend

- Strength
- Vital Habitats
- Sustainable Fisheries
- Healthy Watersheds
- Land Conservation
- Stewardship
- Climate Resiliency
- Environmental Literacy
- Water Quality
- Toxic Contaminants
- Public Access

Outcome Chord Diagram

Fish Passage Outcome

Legend

— Strength
- 🟢 Vital Habitats
- 🔵 Sustainable Fisheries
- 🔵 Healthy Watersheds
- 🟠 Land Conservation
- 🟡 Stewardship
- 🔴 Climate Resiliency
- 🟢 Environmental Literacy
- 🔵 Water Quality
- ⚫ Toxic Contaminants
- 🟠 Public Access

Wetlands Outcome
Blue Crab Abundance Outcome
Watershed Implementation Plans 2025 Outcome
Brook Trout Outcome
Climate Adaptation Outcome
Fish Habitat Outcome
Submerged Aquatic Vegetation Outcome
Fish Passage Outcome
Stream Health Outcome
Healthy Watersheds Outcome
Stewardship Outcome
Oysters Outcome

- Relationships are directional
- Width of arrow ~ strength of relationship

Outcome Alignment

Water Quality Group

Legend

— Strength
- 🟢 Vital Habitats
- 🔵 Sustainable Fisheries
- 🔵 Healthy Watersheds
- 🟤 Land Conservation
- 🟡 Stewardship
- 🔴 Climate Resiliency
- 🟢 Environmental Literacy
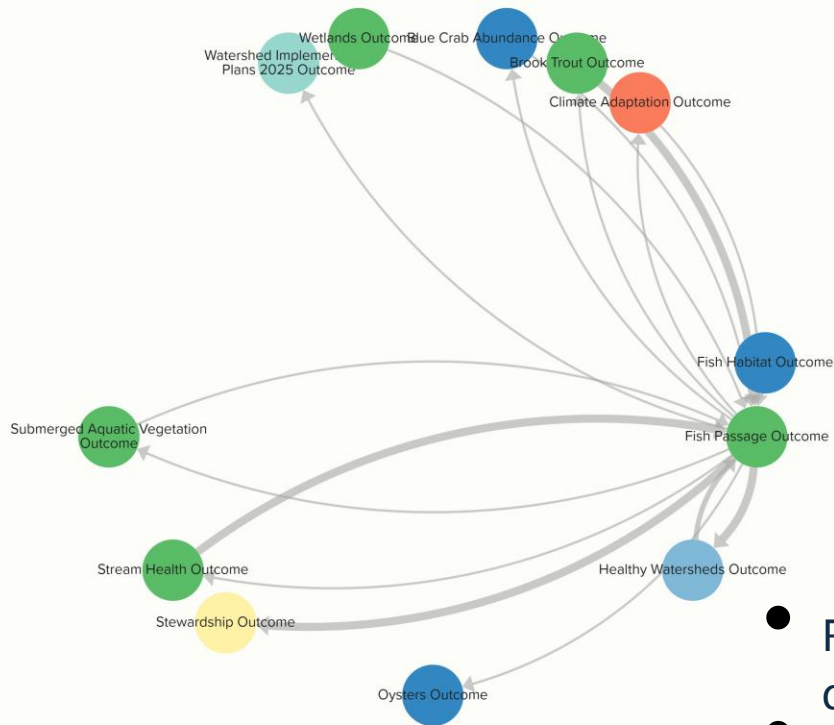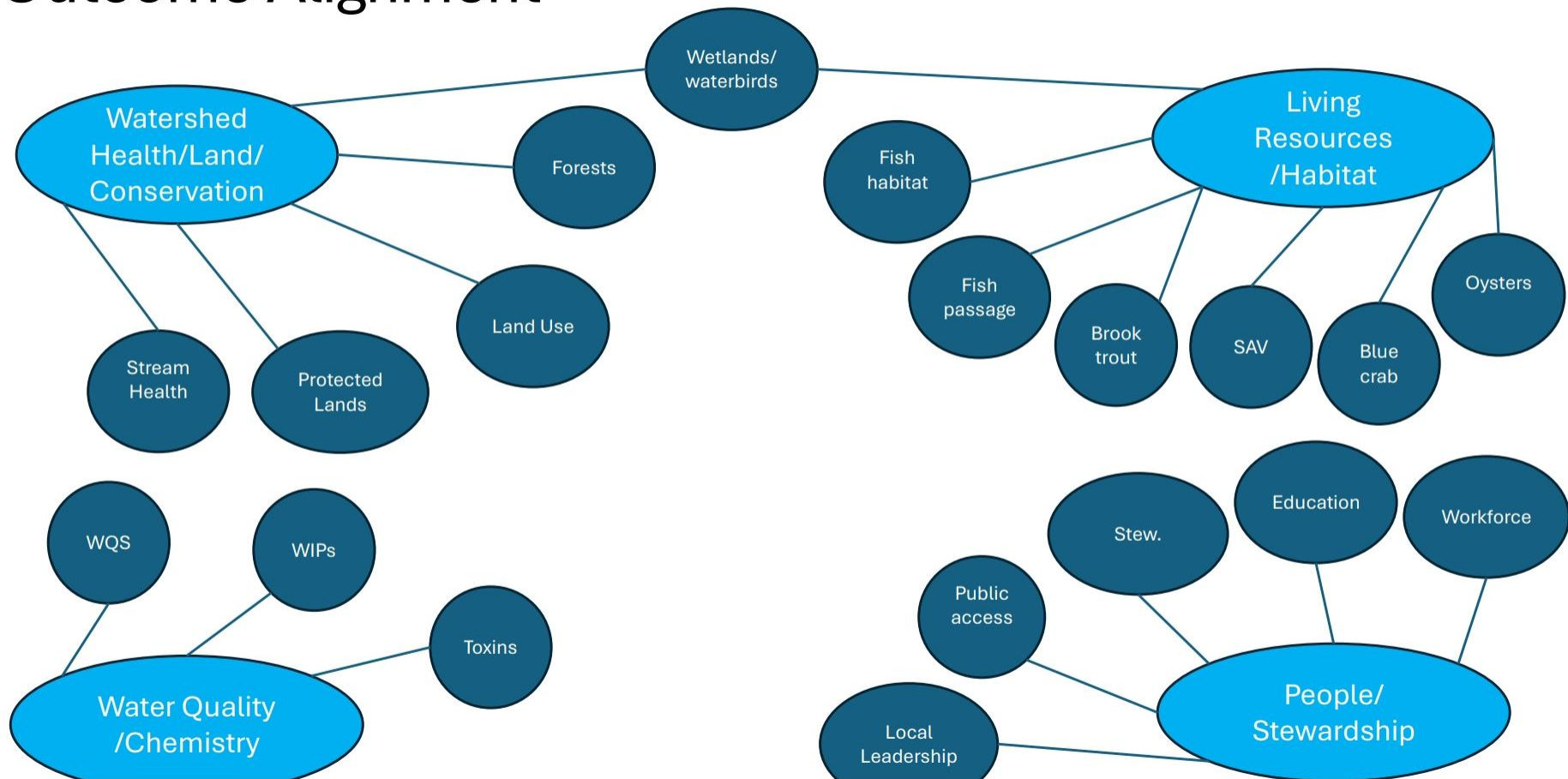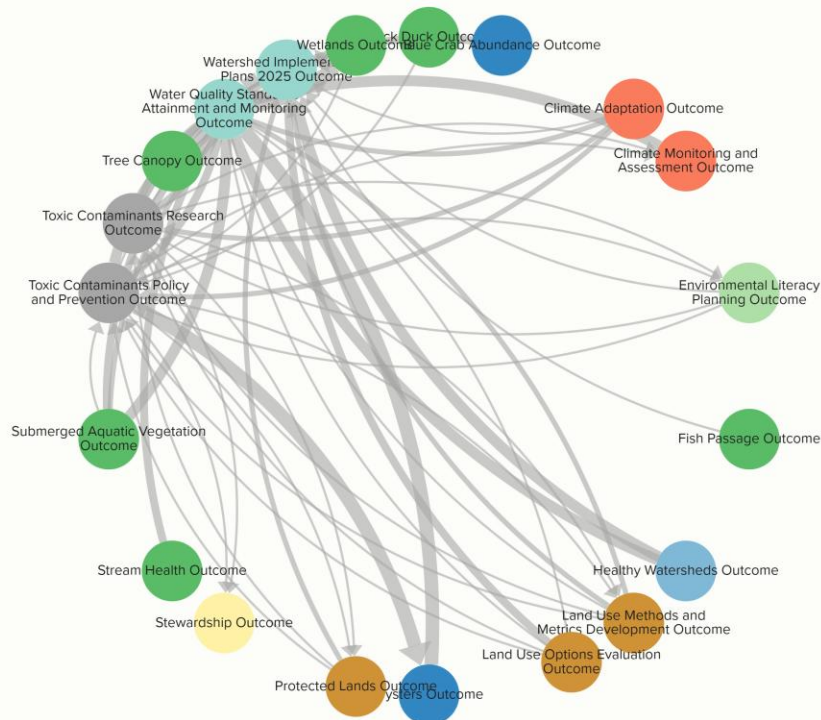- 🟢 Water Quality
- ⚫ Toxic Contaminants
- 🟠 Public Access

Black Duck Outcome
Wetlands Outcome
Blue Crab Abundance Outcome
Watershed Implementation Plans 2025 Outcome
Climate Adaptation Outcome
Water Quality Standards Attainment and Monitoring Outcome
Climate Monitoring and Assessment Outcome
Tree Canopy Outcome
Toxic Contaminants Research Outcome
Environmental Literacy Planning Outcome
Toxic Contaminants Policy and Prevention Outcome
Submerged Aquatic Vegetation Outcome
Fish Passage Outcome
Healthy Watersheds Outcome
Stream Health Outcome
Land Use Methods and Metrics Development Outcome
Stewardship Outcome
Land Use Options Evaluation Outcome
Protected Lands Outcome
Oysters Outcome

Thank you

Any questions?
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