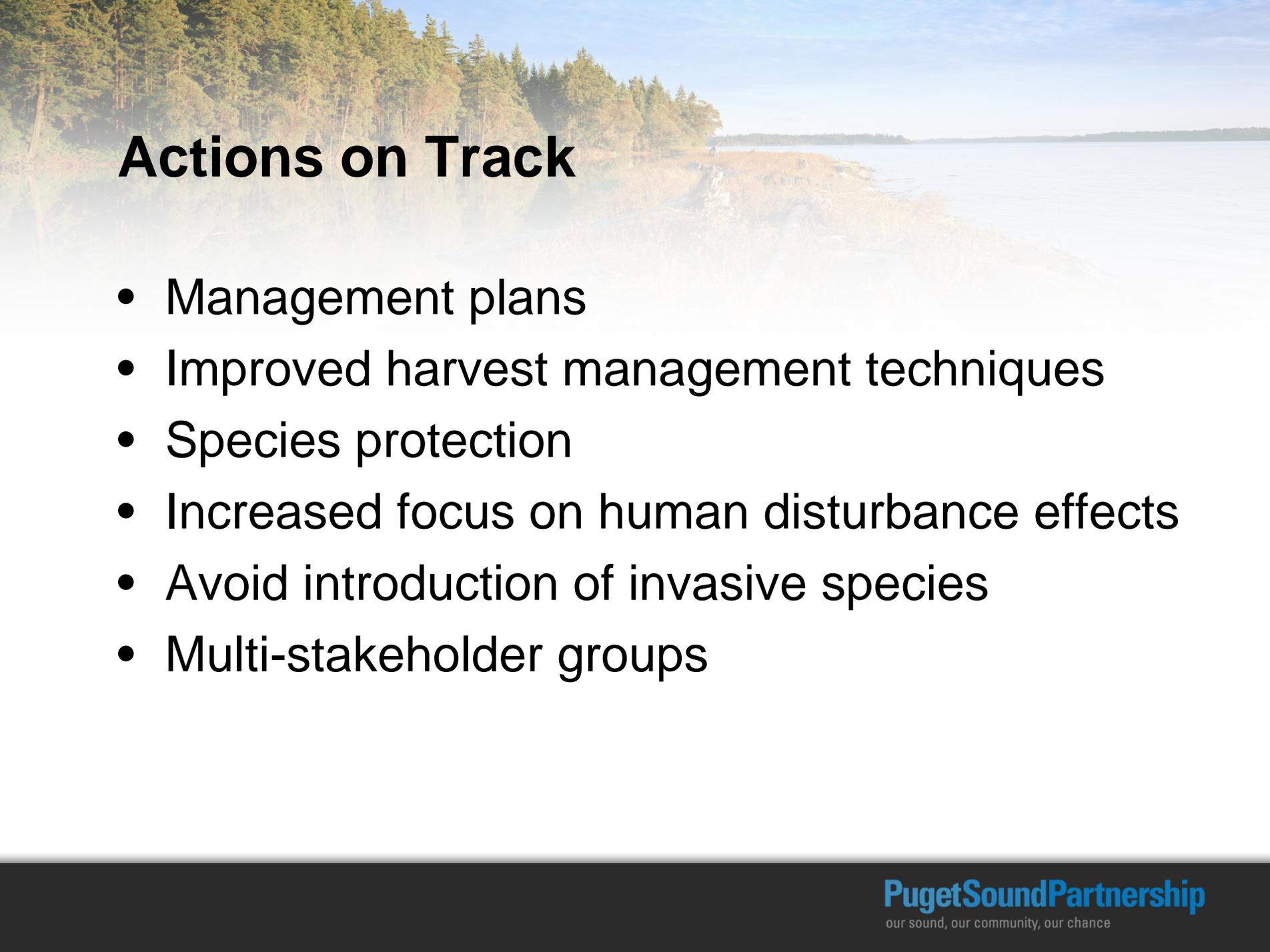


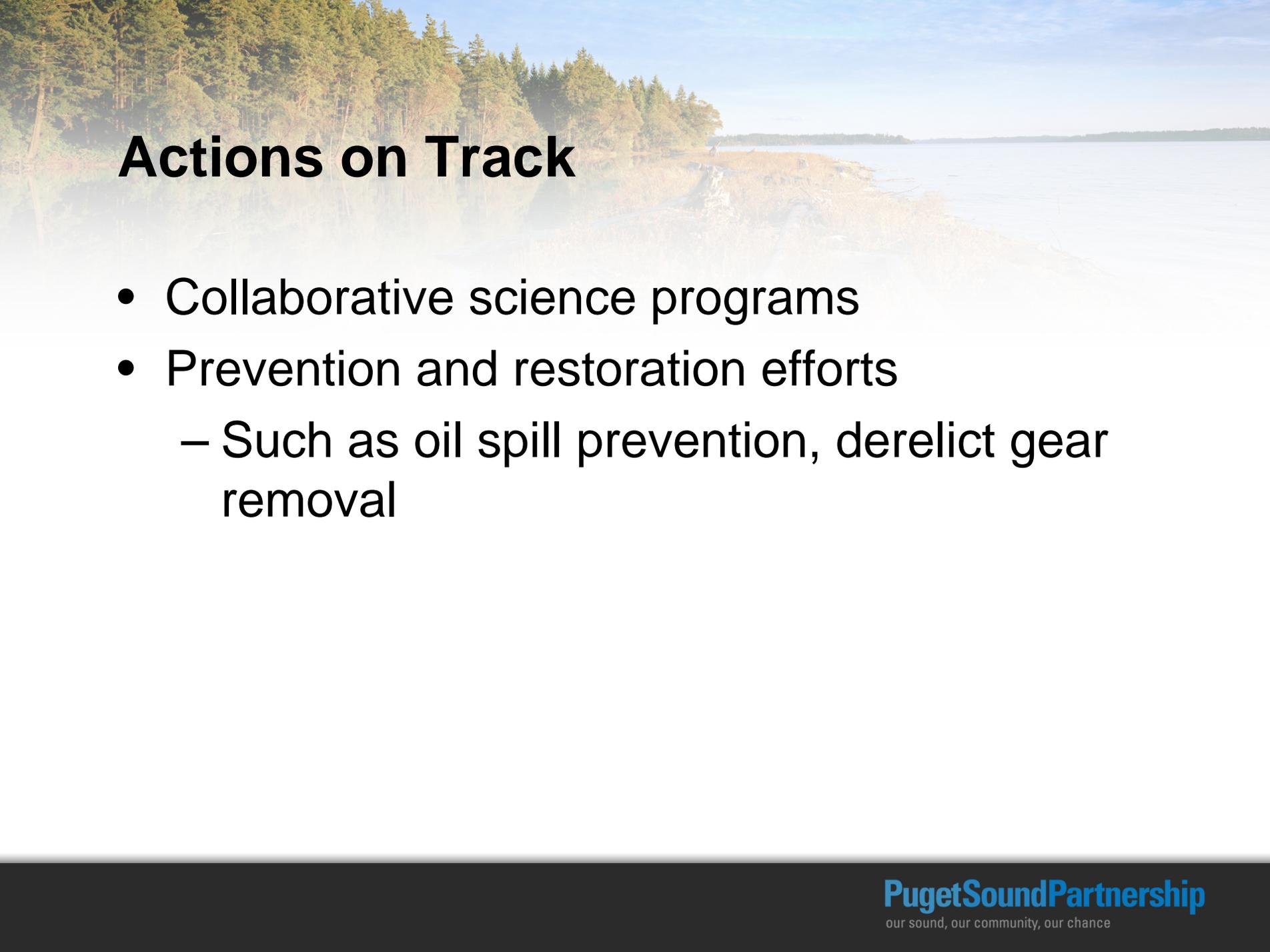


Session 3: Criteria & Actions



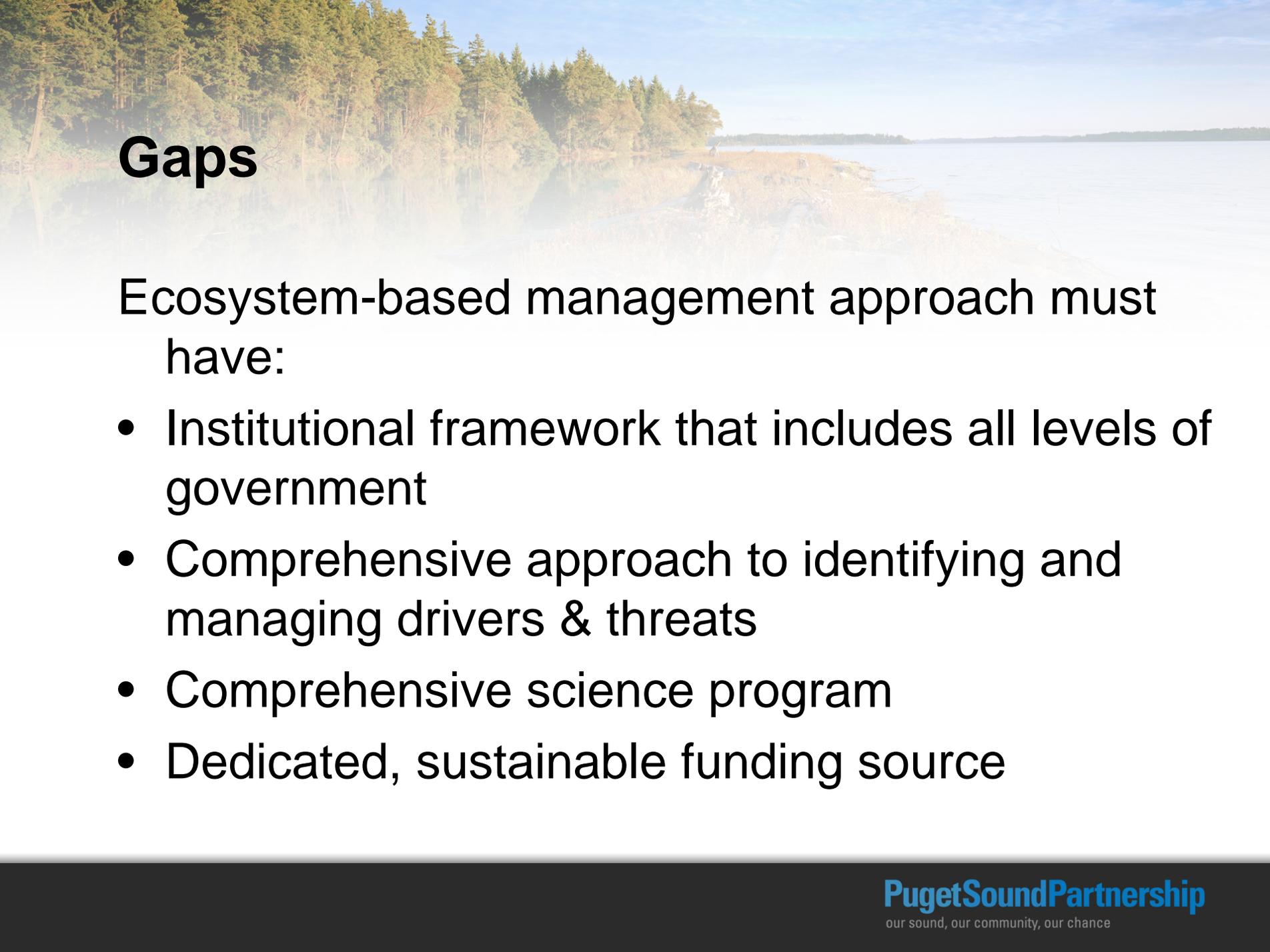
Actions on Track

- Management plans
- Improved harvest management techniques
- Species protection
- Increased focus on human disturbance effects
- Avoid introduction of invasive species
- Multi-stakeholder groups



Actions on Track

- Collaborative science programs
- Prevention and restoration efforts
 - Such as oil spill prevention, derelict gear removal



Gaps

Ecosystem-based management approach must have:

- Institutional framework that includes all levels of government
- Comprehensive approach to identifying and managing drivers & threats
- Comprehensive science program
- Dedicated, sustainable funding source

Actions Needing Change

Nest actions within ecosystem approach:

- Species plans
- Species management
- Harvest management
- Culture management
- Management of specific threats
- Science and monitoring
- Consider their effects on ecosystem

Criteria for Prioritization: Urgency

- Urgency
 - Is it urgent?
 - Keep common species common or protect functioning ecosystems/biodiversity?

Criteria for Prioritization: Effectiveness

- Affect multiple species, biodiversity or the food web?
- Address the cause or multiple threats?
- Discriminate from natural variability?
- Does science indicate it will work?
- Can we evaluate it?
- Does it lead to human behavior change?
- Is it cost-effective?

Criteria for Prioritization: Steps Toward EBM

- Improve coordination?
- Amplify/integrate scopes of existing efforts?
- Build understanding of ecosystem and/or limiting factors?

Criteria for Prioritization: Steps Toward EBM

- Consider sustainable species needs and human well-being?
- Consider the precautionary principle?
- Inform us about species trends and corresponding appropriate actions?

Start with Five Focus Areas

- Develop ecosystem-based management approach
- Take action where we know there is urgency
- Protect or conserve habitats, areas of high biodiversity or of high value to food web
- Continue to build understanding
- Undertake critical assessment of harvest and culture practices

Immediate or Short-Term Actions

- Begin to design ecosystem-based management approach
 - Assemble partners, identify goals, outcomes, indicators
 - Develop & implement funding strategy
- Take action where we know there is urgency

Urgent Actions

- Implement urgent actions in existing plans
- Create & implement plans for imperiled species and communities
- Prioritize & enforce existing regulations, review effectiveness
- Fix known regulatory problems
- Assess basin to find representative & high quality areas

Urgent Actions con't.

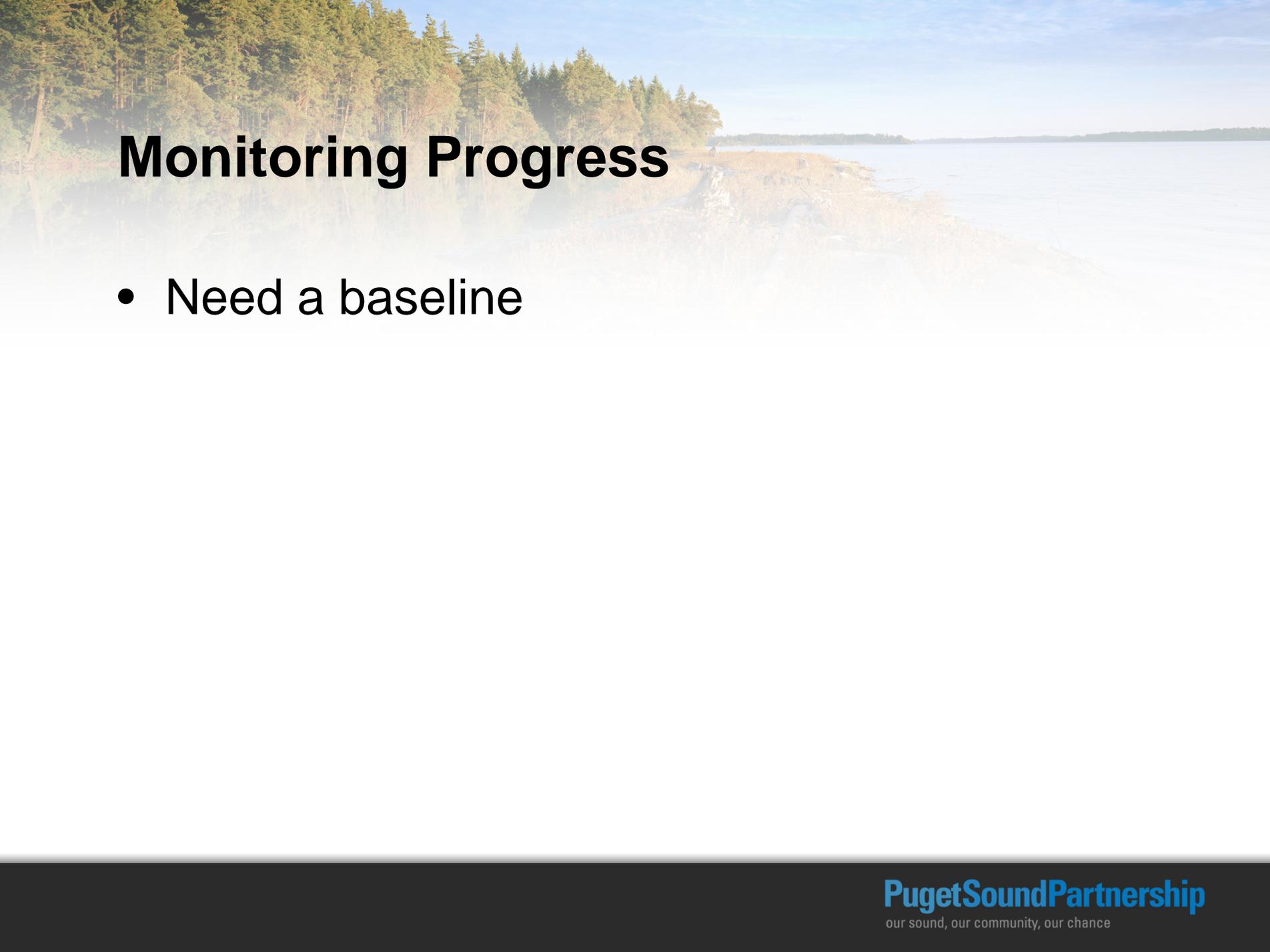
- Protect known high quality & representative areas
- Prevent introduction of invasive species, remove them where harmful & established
- Expand efforts to minimize human disturbance effects
- Encourage behavior change to protect biodiversity & the food web

Urgent Actions con't.

- Link conceptual models into a network
- Select indicators and develop baseline understanding of species, biodiversity, food web
- Implement short & long-term monitoring
- Ensure monitoring measures both natural variability & effects of management actions

Long-Term Actions

- Continue short-term actions where effective
- As new species listed, develop & implement plans
- Protect marine areas of Puget Sound that support high biodiversity or rare species
- Rigorous science & monitoring program
- Assess harvest & culture practices, adjust practices as necessary

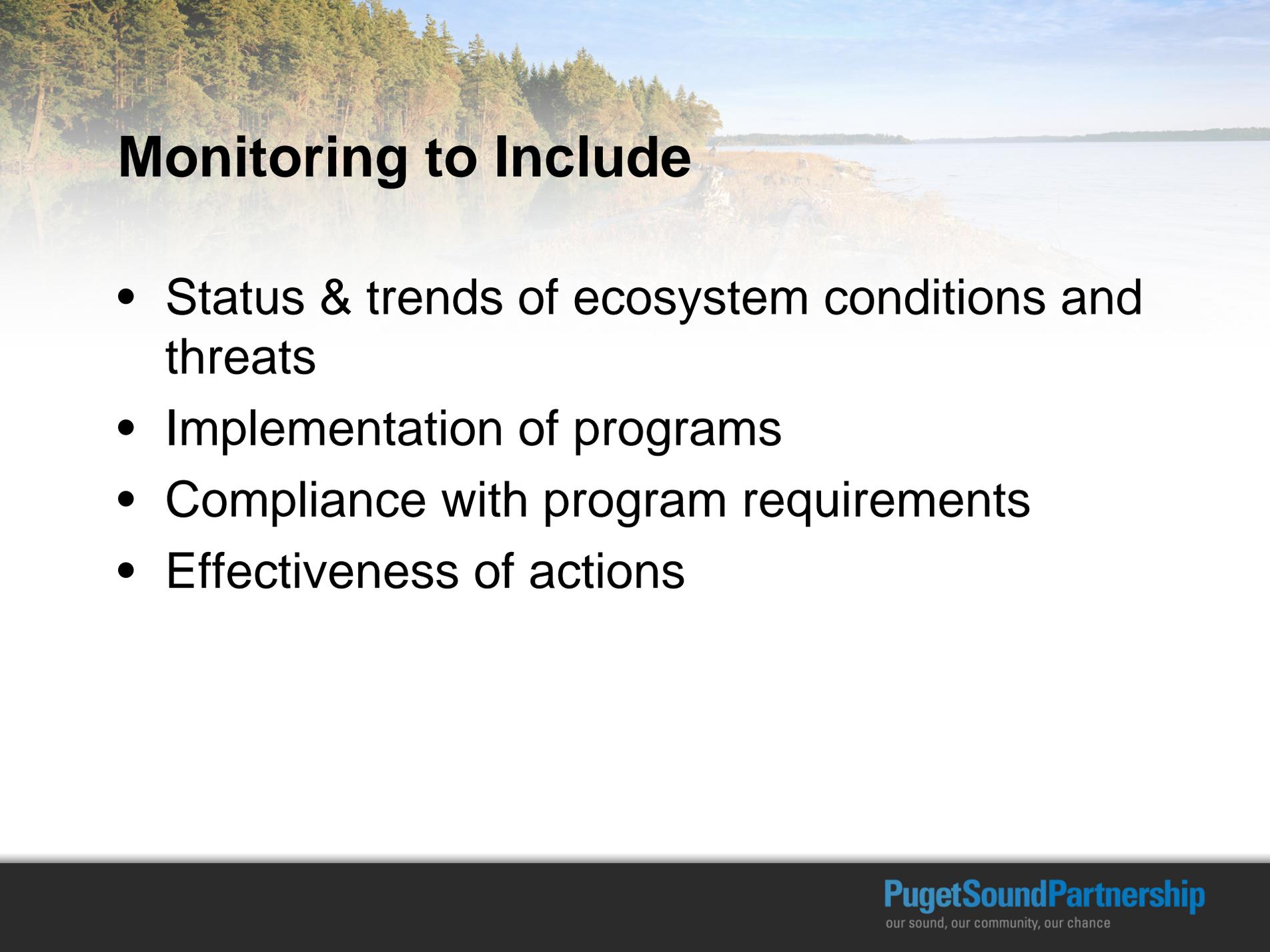


Monitoring Progress

- Need a baseline

Objectives to Monitor

- No more species merit listing, common species stay common
- Populations of listed species increasing or recovered
- Ecosystems are representative and sustainable
- Food web contains robust, redundant nodes and pathways
- Protect productive and species-rich habitats
- Develop independent, self-sustaining funding



Monitoring to Include

- Status & trends of ecosystem conditions and threats
- Implementation of programs
- Compliance with program requirements
- Effectiveness of actions



Start immediately on

- Transforming desired outcomes into detailed metrics that can be measured
- Developing comprehensive research program
- Evaluating effectiveness of existing management actions

Discussion

- Have we adequately captured the principles that should be reflected in the strategies to address threats to Puget Sound?
- Did we capture actions that should continue, be added, be changed or stopped?
- What are the key themes that should be carried forward into the Action Agenda?