



WASHINGTON STATE DEPARTMENT OF
Natural Resources

Peter Goldmark - Commissioner of Public Lands

Winter Shoreline Planners Coordination Meeting

January 24, 2013

Connections and Compatibilities
Between Shoreline Master Program
Updates and Marine Spatial Planning

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2012 Budget Proviso

The department will work with the marine interagency team, tribes, and the Washington state marine resource committee to develop a spending plan

consistent with the priorities in chapter 252, Laws of 2012,

for conducting ecosystem assessments and mapping activities related to marine resources use and potential economic development,

developing marine management plans for the state's coastal waters, and

otherwise aiding in the implementation of marine planning in the state.

As appropriate, the team shall develop a competitive process for projects to be funded by the department in fiscal year 2013.



Project Categories

A	B	C	D
Mapping Activities (\$1 million)	Ecological Assessment (\$300k)	Data tools to support plan development (\$700k)	Stakeholder engagement (\$100k)
Goal: Map baseline conditions (i.e. distribution, abundance, intensity, and temporal/spatial patterns) and forecast potential future conditions (e.g. patterns)	Goal: Assess status and trends of ecosystem (ecological, social, economic factors) and threats to resources. Develop ecosystem indicators.	Goal: Enable access, sharing, analysis and management of data for the planning process. Ensure robust technical and scientific input on data quality, access and management issues.	Goal: Increase awareness, participation, and involvement of various groups in pre-planning process. Improve communication and coordination among groups involved in the process.
Social and Economic data <ul style="list-style-type: none"> • Human uses • Traditional knowledge and cultural resources • Economic valuation Physical and Ecological data <ul style="list-style-type: none"> • Bathymetry and habitat • Oceanographic processes • Ecologically important areas • Renewable energy potential Biological data <ul style="list-style-type: none"> • Fish: Rockfish, groundfish • Marine mammals: whales • Invertebrates: crabs • Seabirds • Sensitive species (E&T) 	See data categories at left. Examples of projects might include: analysis of status and trends, modeling of data, indicator development, threats/risk assessment, identification of adaptive management strategies underway, etc.	Data synthesis tool(s) GIS data access and management Scientific and technical expertise and input	Examples of projects might include: meetings, trainings, forums, facilitation, coordination of existing groups, etc.



Projects Underway: Mapping

Mapping Activities

Mapping project example

DNR has contracted with WDFW to conduct three mapping projects:

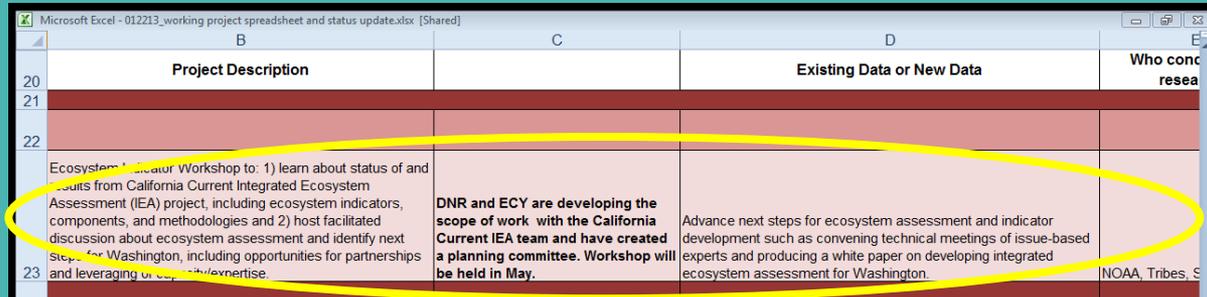
1. Mapping commercial fishing
2. Mapping recreational fishing
3. Mapping Pacific coast forage fish distribution

Project Description	Contract Status	Existing Data or New Data	Who conducts the research?
Mapping Recreational Human Users (e.g., surfing, beachcombing, wildlife watching, boating)	DNR and ECY working with NOAA to begin planning workshops to be held in April.	New Data - collection of coarse level human use data	NOAA
Mapping Tribal Commercial Marine Catch Data AND Mapping tribal traditional and cultural areas: a) marine fishing areas, b) Intertidal fishing and gathering locations, c) Culturally significant areas/locations	Contract signed and complete; Projects are underway	Existing Data	NWIFC/Tribes
Mapping Commercial Fishing and Fish and Wildlife Resources; Recreational Fishing Data Collection and Mapping; Development of existing commercial fish (smelt and eulachon) distribution	Contract signed and complete; Projects are underway, Tribes and WDFW are conducting forage fish surveys; WDFW is compiling logbook data.	Existing Data AND New Data - interview charter boats, guides, hotels, anglers, etc and Combination: a) consolidation of existing WDFW and data b) Present/absence survey of all known sites for current distribution	WDFW
Marine economic baseline for the coast (Phase 2 of Jobs, Jobs proposal); update and assess current status of coastal marine based economy, challenges to its sustainability, and strategies for the future through collaboration with stakeholders and business leaders	Contract signed and complete; Project is underway, UW students interviewed stakeholders at MRC Summit.	New and existing	UW Program on the Environment
Marine vessel traffic data	DNR and ECY are drafting the scope of work	existing - AIS database	Marine Exchange
High resolution multibeam bathymetric and sediment characterization survey of nearshore subtidal, intertidal, and coastal areas around river mouths to assess sediment stability and natural resource limitations to laying power cables AND Single beam cross-shore transects (wave runner) of intertidal nearshore areas around river mouths and priority nearshore regions. There will be survey transects set up to get a general sense of the bottom types.	Contract signed and complete; Projects are underway	New: Multibeam bathymetric survey of nearshore complemented with high-resolution topographic lidar data of intertidal, beach, and bluff Existing: 1) Nearshore wave-runner bathymetry from WA Dept of Ecology/OSU/USGS (most reaches from Columbia River north to Ocean City only), 2) Bathymetric surveys from US Army Corps of Engineers for proposed and existing sediment deposition sites; 3) Crab larvae recruitment and juvenile nursery areas AND New - Wave runner (PWIC) bathymetric surveys of intertidal nearshore areas complemented by beach topographic profile surveys.	Ecology, DNR
The UW Coastal Studies Group (UW CSG) will provide DNR with datasets and model results of ocean currents, water conditions, and the ecosystem to inform marine spatial planning	Contract signed and complete; Projects are underway, team is beginning to compile and analyze existing data.	The UW team will assemble and deliver ESRI ArcGIS themes and metadata representing existing oceanographic data sets relevant to the development of the MSP. The UW CSG will generate a final report including sections on the project's purpose, methodology, discussion and conclusions. The team will prepare a DVD containing datasets, metadata, pdf maps and final report.	UW Oceanography
Utilize existing datasets on coastal resources to generate GIS themes defined by the Pacific County MRC as important to coastal marine spatial planning - mapping shellfish growing areas, beneficial use areas, invasive species, and shoreline designation then integrating seafloor mapping and shellfish areas.	Contract signed and complete; Projects are underway	Existing data	UW ONRC and a graduate research assistant
NOAA Biogeography Branch will participate in discussion of objectives for biological and ecological mapping, evaluating data sets, and identifying data gaps. They will evaluate utility of existing data sets in mapping key species and taxa and begin product development of models and useable data sets.	Contract language complete and contract sent for NOAA review	Incorporate existing regional groundfish models, existing GIS climatologies files for the OCHIMS, existing data sets on distribution of key species	NOAA Biogeography Group



Projects Underway: Ecological Assessment

Ecological Assessment



	B	C	D	Who conc resea
20	Project Description		Existing Data or New Data	
21				
22				
23	Ecosystem Indicator Workshop to: 1) learn about status of and outputs from California Current Integrated Ecosystem Assessment (IEA) project, including ecosystem indicators, components, and methodologies and 2) host facilitated discussion about ecosystem assessment and identify next steps for Washington, including opportunities for partnerships and leveraging of expertise.	DNR and ECY are developing the scope of work with the California Current IEA team and have created a planning committee. Workshop will be held in May.	Advance next steps for ecosystem assessment and indicator development such as convening technical meetings of issue-based experts and producing a white paper on developing integrated ecosystem assessment for Washington.	NOAA, Tribes, S

Ecological assessment project example

DNR is developing a contract with the Northwest Fisheries Science Center to prepare for and co-host an Ecosystem Indicator Workshop that will result in a broad understanding of ecosystem indicators, a draft conceptual model, a process for establishing indicators, identification of information gaps, and the formation of partnerships.



Projects Underway: Data Tools

Data Tools to Support Plan Development

Data tool project example

DNR is collaborating with other state agencies and The Nature Conservancy to develop a marine spatial planning map and decision making tool. This project includes outreach to planners and stakeholders regarding the usability and application of the tool.

	B	C	D	E
	Project Description		Existing Data or New Data	Who conducts the research?
26				
27	MSP Planning Platform - this would provide a decision support tool to access data. It would be viewable in a map format and accessible without GIS expertise. This will also have an outreach component to solicit input from Tribes and stakeholders.	DNR is working with ECY and DFW to develop the mapping tool and is convening three committees: steering, technical, and planning committees	Data tools	DNR
28	Data portal to provide access to raw datasets and complete metadata for data that are collected to support marine spatial planning by developing a sub-section focused on Coastal and Marine Spatial Planning within the existing state GIS portal	DNR is working with ECY and DFW to develop the data portal and independent public website	Data tools (data access)	DNR
29	Technical input – facilitation of scientific input from issue-based groups	see SeaGrant work below	new	SeaGrant
30	Developing public website for Washington MSP - the website would provide the public with a one stop shop on marine spatial planning in Washington	DNR is working with ECY and DFW to develop the data portal and independent public website. DNR has secured URL - www.msp.wa.gov. TNC will design the website, state will provide content.	Connect to GIS data portal	DNR
31	Seafloor mapping work session - to pull together the existing data, identify existing data gaps, and develop a strategy for comprehensive seafloor mapping for the Washington Coast	DNR and ECY are developing the scope of work and contacting relevant experts	Existing data from entities - the Seafloor Mapping Consortium, state agencies, NGOs, universities, feds	Ecology



Projects Underway: Stakeholder Engagement

Stakeholder Engagement

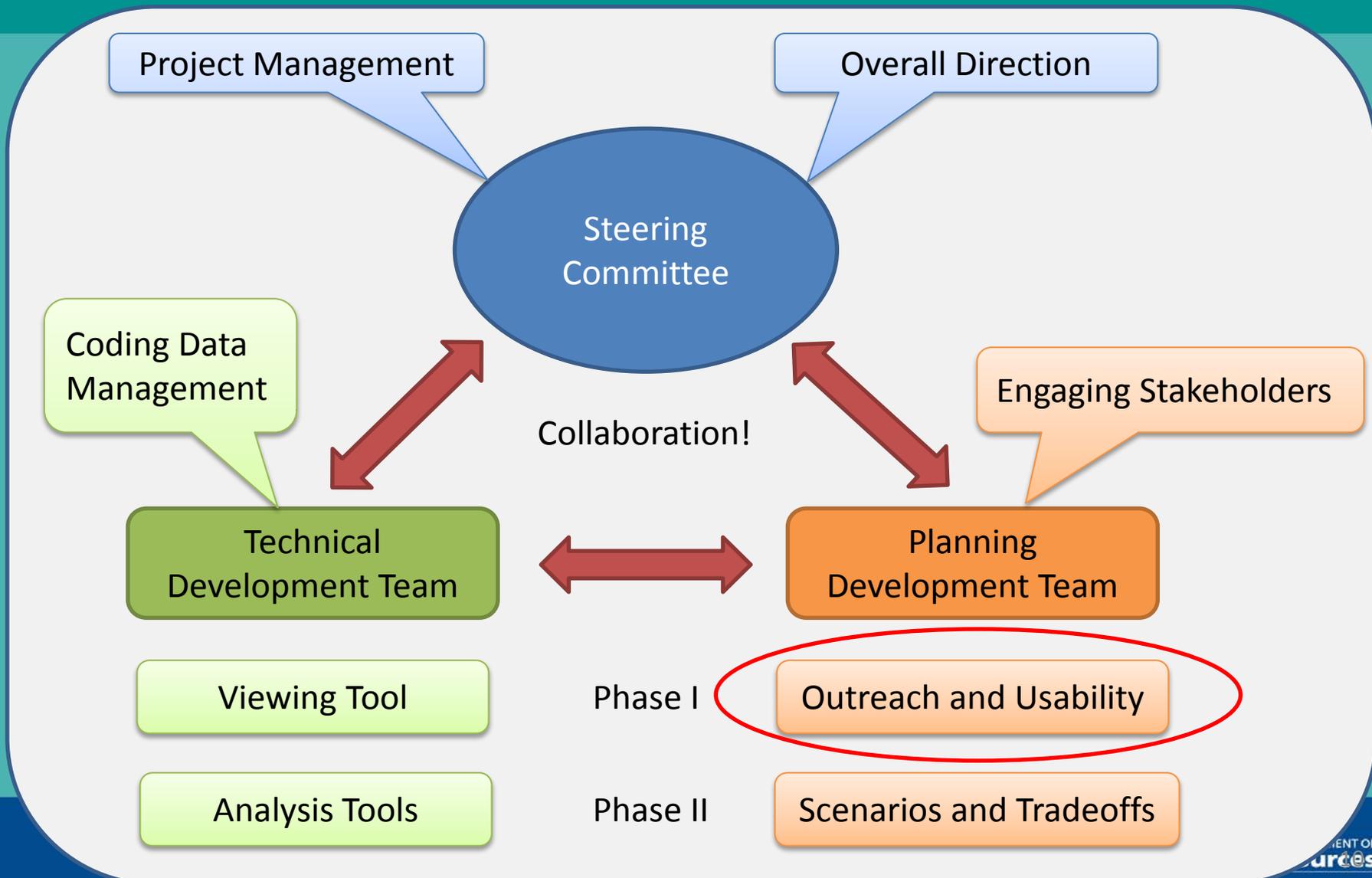
	B	C	D	E
33	Project Description		Existing Data or New Data	Who conducts the research?
34				
36	Facilitation of existing stakeholder advisory group (CMAC)	Contract signed and complete; Ruckelshaus Center will continue with facilitation		DNR funds facilitator through contract
37	Facilitation of scientific input from scientific experts; Initial work sessions to draft objectives for MSP; Overview sessions / stakeholder forums-- MSP 101; development of outreach materials	Contract signed and complete; Projects are underway, Sea Grant has begun outreach events and planning workshops	Facilitation and working sessions	Sea Grant
39	Data tool outreach and training to stakeholders and tribes; assistance with website and data portal development; participation in technical and planning committees	DNR and TNC are working on final contract language.	n/a	The Nature Conservancy (TNC)

Stakeholder engagement project example

DNR has contracted with Washington Sea Grant to coordinate MSP outreach events, develop outreach materials, facilitate work sessions to draft MSP objectives, and facilitate scientific input from experts on data quality.



GIS Decision Support Tool Development Model



Questions?



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