

NOAA Education

Proposed Process for
Implementation Plan Creation

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Implementation Plan

- NOAA Education Strategic Plan serves as the philosophical framework (i.e., provides the operating principals) for NOAA education during the next 20 yrs.
 - The Implementation Plan should
 - Act as an operational document that identifies concrete/specific topics that will serve as the focal point for NOAA's education efforts during the next five years
 - Articulate performance measures for monitoring progress in achieving the priorities indentified in the Implementation Plan.
 - The goal is to have a final draft of the NOAA Education Implementation Plan by **June 30, 2009** and a final approved version by **October 31, 2009**.
- ▶ **Issues of concern:**
- (1) the above timeline DOES NOT allow for integration of NAS review findings and recommendation into the Implementation Plan
 - (2) How to operationalize the Implementation Plan (i.e., integrate it into NOAA's strategic planning and budgeting system)



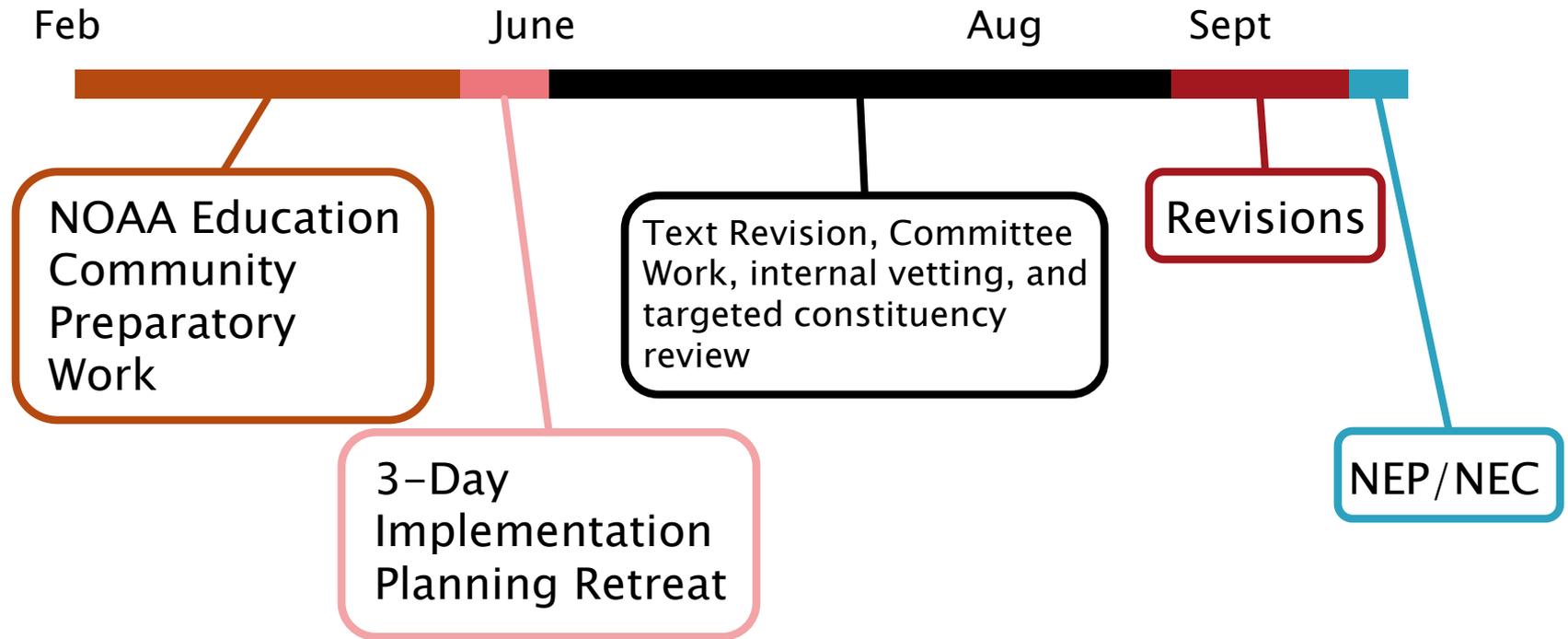
Implementation Plan

- The majority of the work will be conducted during a facilitated workshop – target date of early June (June 2–4, 2009)
- There will be some preparatory work for all programs prior to the retreat
- Retreat facilitator will provide report that will serve as the draft Implementation Plan
- Process will enable/facilitate intra- and inter-agency partnerships necessary to ensure successful implementation of the Plan with the limited resources available
- Alan Friedman will be used as an outside consultant for the overall effort



Implementation Plan

▶ Proposed Timeline – Feb to Oct 2009





Implementation Plan

▶ Preparatory Work – Feb to April 2009

Feb

June

Aug

Sept

NOAA Education
Community
Preparatory
Work

Task 1 – Baseline Surveys

Each NOAA Education Program assesses current status, resources, and future needs as they relate to the Strategic Plan's goals, outcomes, and strategies

Task 2 – Goals/Outcomes Discussion

Working groups develop goal/outcome oriented discussion points retreat

Task 3 – Targeted Literature Review

Discussion groups summarize current education trends and needs based on specific articles and reports



Implementation Plan

▶ Preparatory Work – Task 1 Baseline Surveys

- All NOAA education programs gather the following information:
 - **Program survey:** for each outcome (strategy?) of the Education Strategic Plan, identify whether it falls within the mandated responsibility of the program and assess the program's current capacity level (qualitatively: strongly supports, supports, does not support or quantitatively: devoted resources – \$ and FTE)
 - Programmatic priorities and opportunities for the next five years
 - The program's greatest needs for fulfilling its mandates and achieving its priorities
- This information is gathered in a way that enables intra-agency collaboration and promotes synergies and coordination of activities, as well as **consultation with key constituencies**
- The results of each program's baseline survey will be organized in a synoptic matrix that will visually demonstrate the strengths and gaps in NOAA education programs in comparison to the Strategic Plan



Implementation Plan

► Preparatory Work – Task 1 Baseline Surveys

- Preliminary Baseline Matrix:

Goal		Environmental Literacy												Workforce Development																				
Outcome		1.1			1.2			1.3			1.4			1.5			1.6			2.1				2.2				2.3						
Strategy		A	B	C	A	B	C	A	B	C	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Office of National Marine Sanctuaries	Program A																																	
	Program B																																	
	Program C																																	
	Program D																																	
	Program E																																	
	Program F																																	
National Estuarine Research Reserve System	Program A																																	
	Program B																																	
	Program C																																	
	Program D																																	
	Program E																																	
	Program F																																	



Implementation Plan

▶ Preparatory Work – Task 2 Goals/Outcomes Discussion

- Working groups develop discussion points for each goal (or outcome?) of the Strategic Plan to guide discussions of program matrices during the retreat, such as:
 - Potential synergies
 - Gaps in internal capability
 - Leveraging external partnerships



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▶ Preparatory Work – Task 3 Targeted Literature Review

- Steering committee identifies appropriate literature and coordinates the creation of working groups
- Working groups review assigned literature and collect appropriate information for Ed Council consideration before (May presentations) and during the retreat
- Literature reviews will identify best practices and potential priorities that can be applied to the Implementation Plan



Implementation Plan

► Preparatory Work – Task 3 Targeted Literature Review

- Reports for consideration:

Informal Learning and Assessment Tools

- NAS report Learning Science in Informal Environments
- NSF's Framework for Evaluating Impacts of Informal Science Education
- Harvard (Gil Noam's group) study, catalog, and development project of instruments for out-of-school science learning

Formal Learning and Assessment Tools

- NAEP Science Framework
- NAEP Technological Literacy Framework
- NCLB reauthorization

Learning Theory and Use of Data Technology

- NRC report on Learning Science in Informal Environments
- NRC reports on classroom learning

Status of US STEM Workforce

- Rising Above the Gathering Storm
- Reports focusing on underrepresented and underserved groups



Implementation Plan

▶ Planning Retreat – Late April or Early June 2009



**3-Day
Implementation
Planning Retreat**

Facilitated offsite retreat with entire Education Council and invited guests

Tentative Format

Day 1

- Goals/Outcomes Discussion
- Performance measurement training (move to Prep work?)

Day 2

- Gap Analysis of Programs vs. Strategic Plan
- Prioritization of Implementation Items

Day 3

- Task responsibility determination
- Performance measurement drafting based on outputs/outcomes



Implementation Plan

▶ Planning Retreat – Late April or Early June 2009

- The Ed Council will consider the following:
 - Program survey results
 - Programmatic Priorities
 - Engagement Strategy Priorities
 - NOAA Strategic Plan Priorities
 - National Education Priorities
 - Administration Priorities
 - Literature review results
 - Alignment of plan with fiscal year planning
 - Other Relevant/Significant Societal Issues
- Council selects a sub-set of education priority issues to be implemented in the next 5 years



Implementation Plan

▶ Committee Work – Mid June thru July 2009

Feb

June

Aug

Sept



Text Revision,
Committee Work,
internal vetting, and
targeted constituency
review

Working from the draft
plan developed from
retreat with assistance
of facilitator

Tasks

- Incorporate any feedback provided by NAS
- Double-check plan against AOPs and program strategies
- Make revisions to text as needed
- Internal vetting and review with selected constituencies