



The NOAA Research Agenda: A Portfolio Logic

A Presentation to the NOAA Science Advisory Board

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17 November 2014



A Research Agenda is:



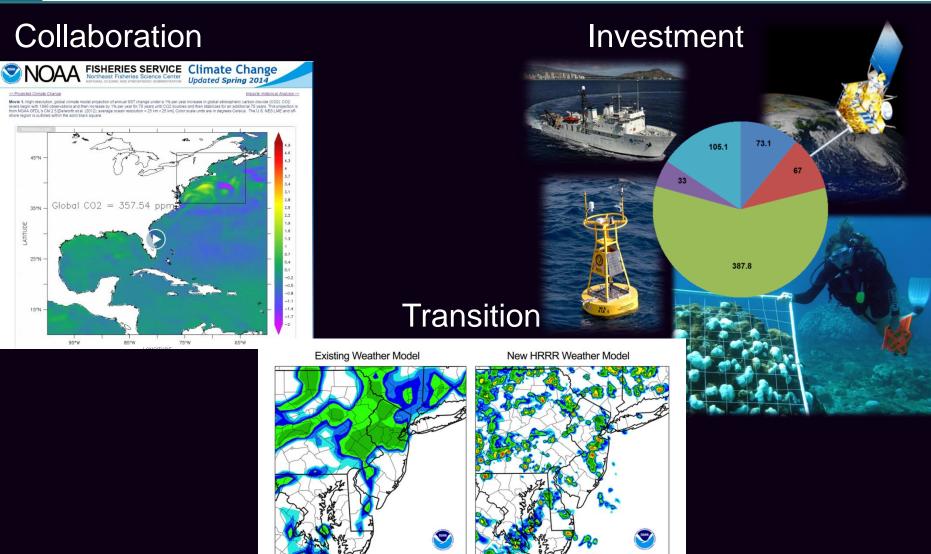
- A logic model for guiding research to meet NOAA's mission needs and priorities
- A basis for establishing and optimizing research investments (programs, personnel, infrastructure etc.)
- A vehicle for assessing portfolio performance

...today and in the future



Increasing and institutionalizing the effectiveness of NOAA research.





This is a comparison of two weather forecast models looking six hours ahead for the New Jersey area. Image on left shows the forecast which doesn't distinguish localized hazardous weather. Image on right shows the new HRRR (High-Resolution Rapid Refresh) model that clearly depicts where local thunderstorms (yellow and red colorino) are likely. (Credit: NOAA)



A Research Agenda should be:



Useful

Understandable to a broad array of stakeholders

Foundational

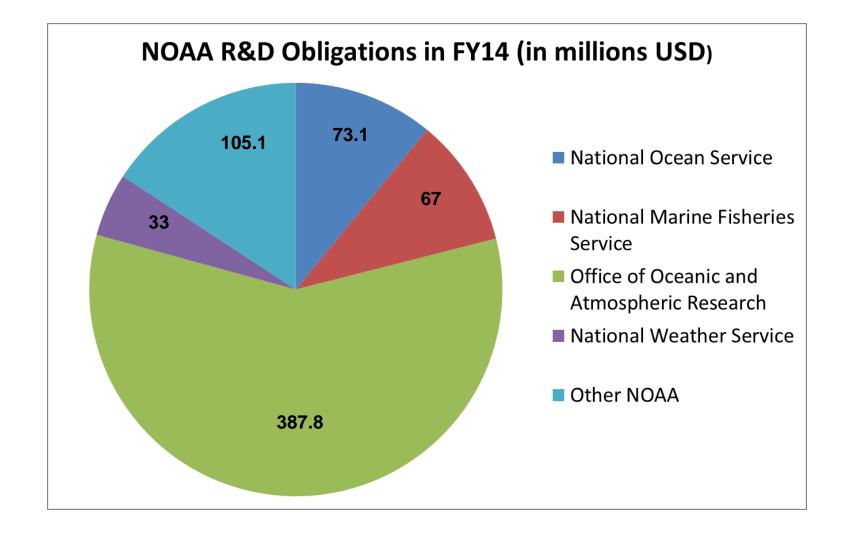
Integrated into strategic plans and implementation plans

Defensible



NOAA's R&D Portfolio







What is the Research Agenda?







What is the Research Agenda?



The core elements are:

- Operational/guiding principles
- Portfolio of mission needs
- Capabilities
- Roles and responsibilities
- Accountability



Operational/Guiding Principles



Mission Driven

Management,
Planning, and
Accountability
Innovation

Credibility

Balanced in Research Spectrum Partnership-Based

Capability



Portfolio of mission needs



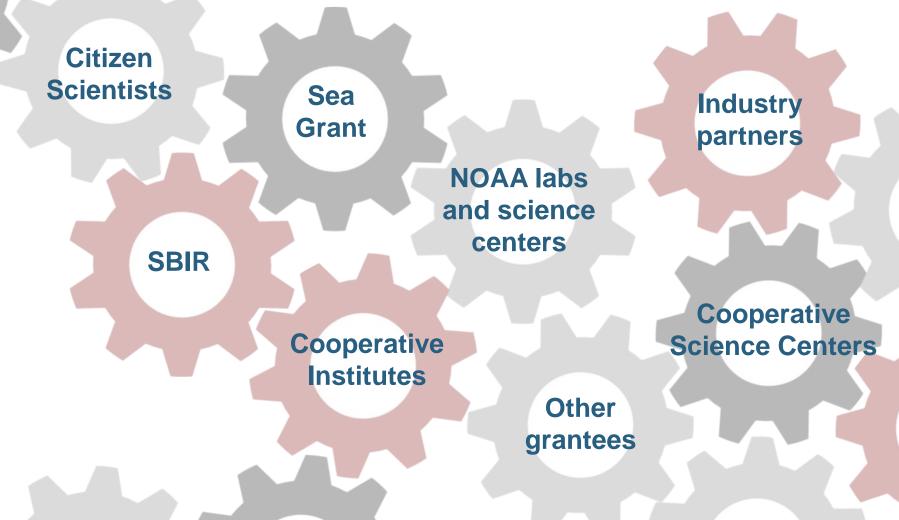
- Research as a tool for meeting NOAA's mission(s) as a science-based services agency
- Develop a portfolio of mission needs such that research priorities are:
- Transparent; traceable; adaptable; evaluated based on mission needs; corporate; and integrated with other priority-setting processes



OSSEs

Capabilities





Cooperative Ecosystem
Science Units

RISAs



Roles and Responsibilities





Portfolio manager?



Accountability

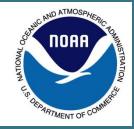


To ensure:

- Research is aligned with guiding principles of NOAA's research agenda
- Performance (using performance measures and other data) is monitored and objectively evaluated
- Decision points ("gates") are defined
- Decisions throughout: Continue –
 Accelerate Redirect Shelve



How the Research Agenda will be used



Budget development

Execution

Investment priorities

We are using developing concepts for the Research Agenda to guide Research Council input into prioritizing FY17 budget requests.



Next steps (?)



- External engagement
- Drafting by staff in the Office of the Chief Scientist
- Input from the SAB



What we want from the SAB



- Are we on the right path?
- Feedback on structure, focus and utility
- How should the Research Agenda be developed, used and promulgated?