

Supply Side Mapping: the US Climate Change Science Program

Placing science policies,
institutional infrastructure, and
scientific and technological human capital
in the context of the RSD framework.

Ryan Meyer

SPARC annual meeting

Thursday, February 1, 2007

ASU

SPARC is premised on the idea that we need a better understanding of **how to connect advancing scientific knowledge with decision making processes**

CCSP, if judged by its structure, is premised on the idea that **decision making requires advancing scientific knowledge**

A subtle, but important distinction!!!

Office of the President
Climate Change Policy and Program Review
by NSC, DPC, NEC

Committee on Climate Change Science and Technology Integration
Chair: Secretary of Energy* Vice Chair: Secretary of Commerce*
Executive Director: OSTP Director
Secretary of State NEC Director Secretary of Transportation
Secretary of Agriculture NASA Administrator Secretary of Defense
EPA Administrator Secretary of the Interior CEQ Chairman
OMB Director Secretary of HHS NSF Director

“if needed, recommend the movement of funding and programs *across agency boundaries.*”

International Activities
(including Task Force on International Energy Cooperation)
DOS, DOE, USAID, and Other Agencies

Interagency Working Group on Climate Change Science and Technology
Chair: Deputy/Under Secretary of Commerce*
Vice Chair: Deputy/Under Secretary of Energy*
Executive Secretary: OSTP Associate Director for Science
Members DS/US Level: CEQ, DOD, DOI, DOS, DOT, EPA, HHS, NASA, NEC, NSF, OMB, USDA

“make recommendations to the Committee ... to implement a climate change S&T program that will contribute to *the enhanced understanding needed to better support policy development.*”

Climate Change Science Program
Director: Assistant Secretary of Commerce for Oceans and Atmosphere
Members: DOD, DOE, DOI, DOS, DOT, EPA, HHS, NASA, NSF, OMB, OSTP, Smithsonian, USAID, USDA

Climate Change Technology Program
Director: Senior-Level Appointee, U.S. Department of Energy
Members: DOD, DOE, DOI, DOS, DOT, EPA, HHS, NASA, NSF, OMB, OSTP, USAID, USDA

*Chair and Vice Chair of Committee and Working Group rotate annually.

Vision:

A nation and the global community empowered with the science-based knowledge to manage the risks and opportunities of change in the climate and related environmental systems.

Questions:

1. How will variability and potential change in climate and related systems affect natural environments and our way of life?
2. How can we use and improve this knowledge to protect the global environment and to provide a better living standard for all?

Mission:

Facilitate the creation and application of knowledge of the Earth's global environment through:

research,

observations,

decision support, and

communication.

Core Approaches:

1. **SCIENTIFIC RESEARCH.** Plan, sponsor, and conduct research on changes in climate and related systems.
2. **OBSERVATIONS.** Enhance observations and data management systems to generate a comprehensive set of variables needed for climate related research.
3. **DECISION SUPPORT.** Develop improved science-based resources to aid decisionmaking.
4. **COMMUNICATION.** Communicate results to domestic and international scientific and stakeholders, stressing openness and transparency.

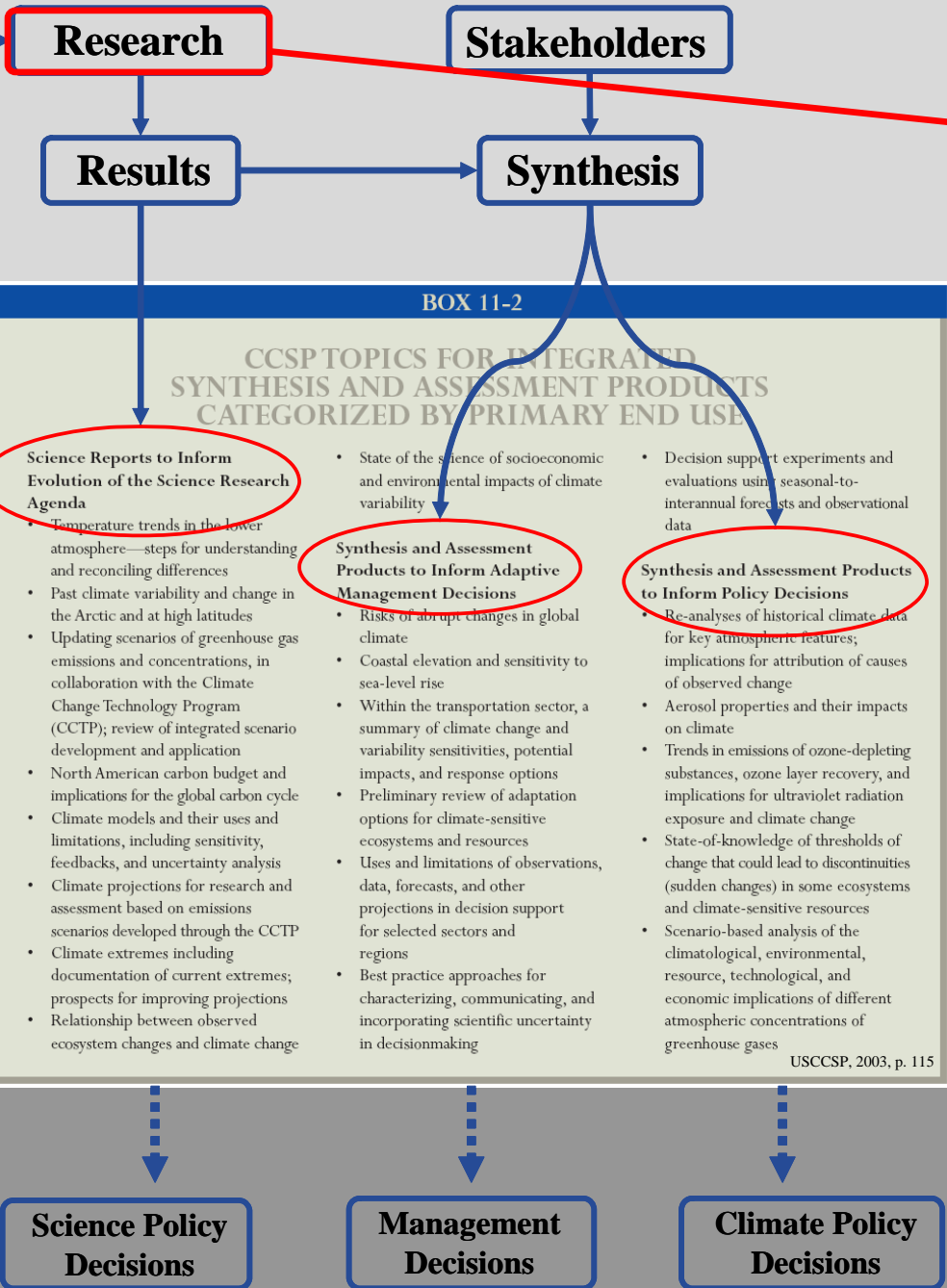
Goals:

- IMPROVE KNOWLEDGE
- IMPROVE QUANTIFICATION.
- REDUCE UNCERTAINTY.
- UNDERSTAND SENSITIVITY AND ADAPTABILITY.
- EXPLORE USES AND IDENTIFY LIMITS OF KNOWLEDGE

Core Assumption: The goals of knowledge advancement are appropriate to mission of knowledge application and empowerment of decision makers.

EXPLICIT

IMPLICIT



This is most of CCSP!

Research Plan

- Decision Making and Agenda Setting
 - Who makes climate science policy?
 - What do they do, and what do they *think* they are doing?
 - How do they balance **scientific**, **decision-making** and other **political** priorities?
 - Do **outcomes** matter? or How is knowledge **valued**?
- Agency-Implemented Decision Support
 - Do existing **institutional configurations** allow for reflexive/adaptive governance of science?
 - **Institutional culture**: How do approaches to decision support and stakeholder involvement differ among federal agencies?

Product #	Lead Agency	30-Day Public Review of Draft Prospectus	Final Prospectus Complete	45-Day Review of Public Report	3rd Draft Report	Final Report
Product 1.1	NOAA	July-04	February-05	November-05	March-06	May-06
Product 1.2	USGS	November-06	February-07	March-07	June-07	June-08
Product 1.3	NOAA	December-05	October-06	January-08		June-08
Product 2.1	DOE	February-05	December-05	June-06	December-06	February-07
Product 2.2	NOAA	February-05	February-06	January-07		March-07
Product 2.3	NASA	January-07	February-07	March-07	June-07	September-07
Product 2.4	NOAA	October-06	January-07	February-07	June-07	June-08
Product 3.1	DOE	February-05	February-06	July-07		June-07
Product 3.2	NOAA	July-06	October-06	September-07		December-07
Product 3.3	NOAA	April-06	July-06	August-07		June-08
Product 3.4	USGS	November-06	January-07	February-07	June-07	June-08
Product 4.1	EPA	December-05	December-06	January-07	June-07	September-07
Product 4.2	USGS	January-07	February-07	March-07	June-07	December-07
Product 4.3	USDA	June-06	December-06	January-07	June-07	December-07
Product 4.4	EPA	June-06	July-06	January-07	June-07	December-07
Product 4.5	DOE	February-06	April-06	December-06	March-07	June-07
Product 4.6	EPA	June-06	July-06	January-07	June-07	December-07
Product 4.7	DOT	April-05	May-06	June-07	June-07	December-07
Product 5.1	NASA	December-05	February-06	August-07	June-07	July-07
Product 5.2	To be det.	May-06	October-06	February-07	June-07	May-07
Product 5.3	NOAA	December-05	April-06	September-07	June-07	December-07

Lisa Dilling

Roger Pielke

DMUU General

Questions?

Comments?

Suggestions?