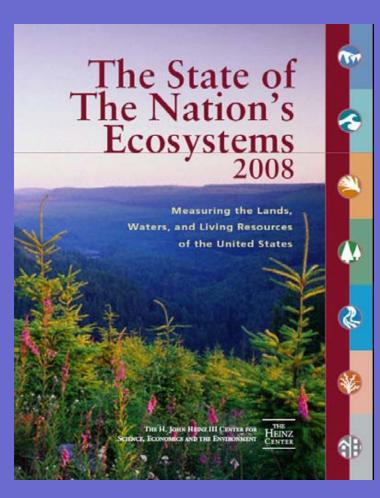
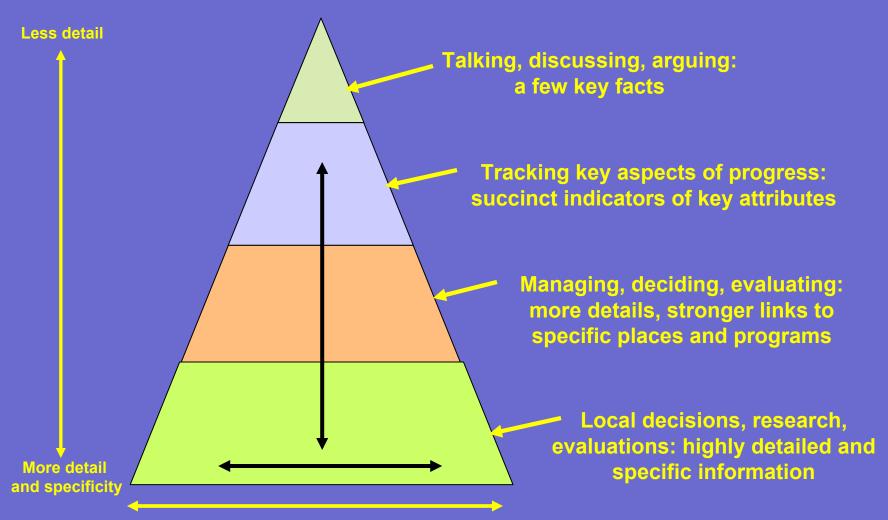
# The State of the Nation's Ecosystems Project and Conceptual Model Development



Robin O'Malley The Heinz Center

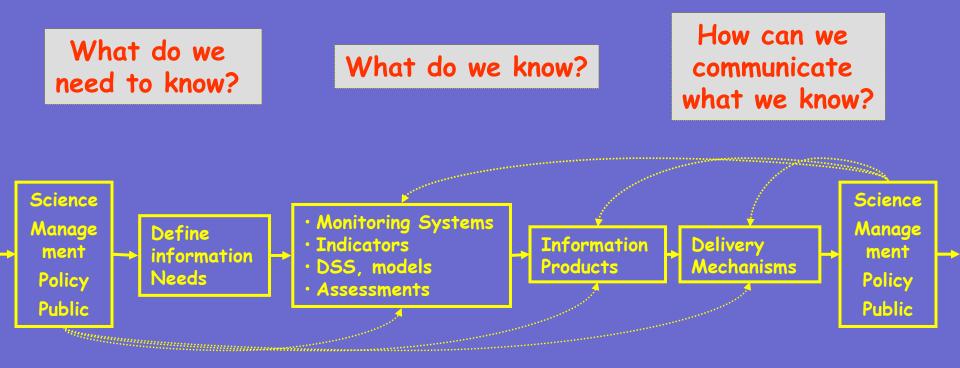
UN Statistical Division Experts Group Meeting November 10-12, 2009

## Information and Indicators for Multiple Needs



Number of Pieces of Information

# **Information Value Chain**



## Goals of the State of the Nation's Ecosystems Project

- Identify strategic indicators of condition and use of U.S. ecosystems
- Lay the groundwork for periodic, high-quality, non-partisan reporting

## Key Principles:

- Focus on trends
- Politically neutral
- Scientifically excellent
- Policy relevant
- Not a one-time report

Process – a crucial distinguishing feature

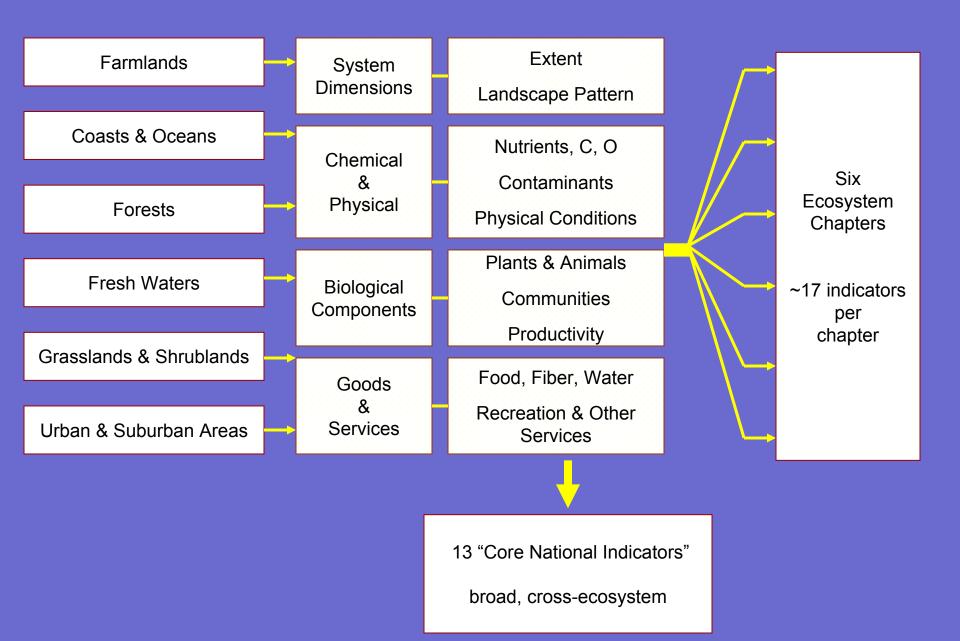
Multiple "sectors": government (federal, state, local), business, environmental NGOs, academia

Multiple skill sets: policy/legal/advocacy AND technical

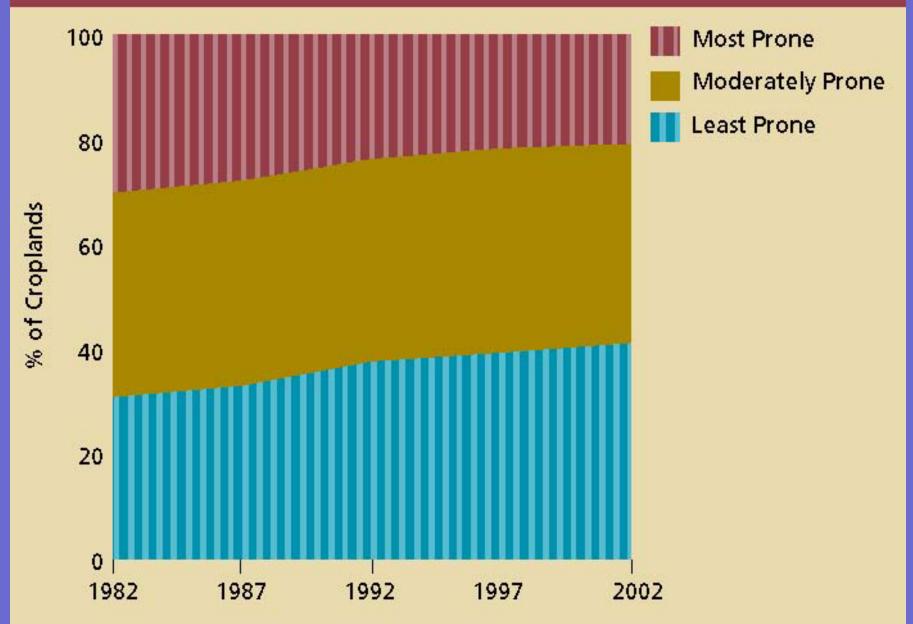
Multiple rounds of collaborator and external reviews

**Respectful dialog!** 

# The Reporting Framework

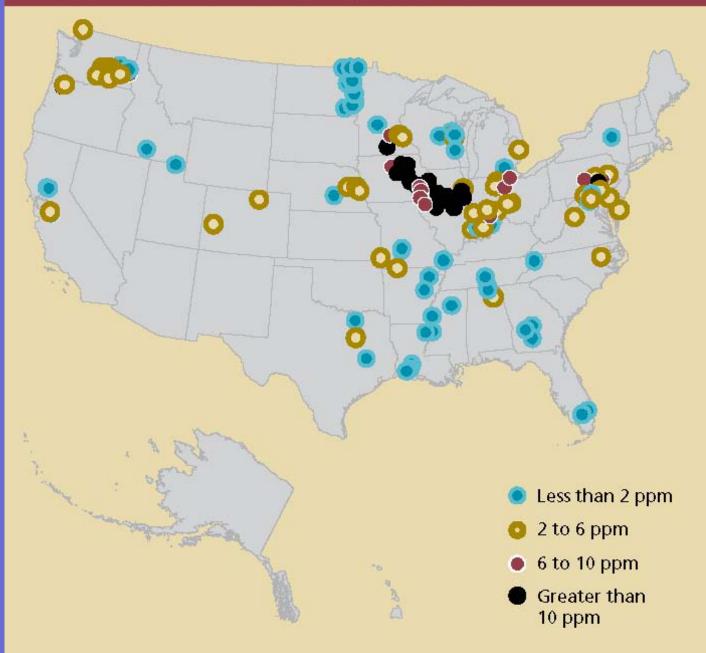


### Water Erosion Potential



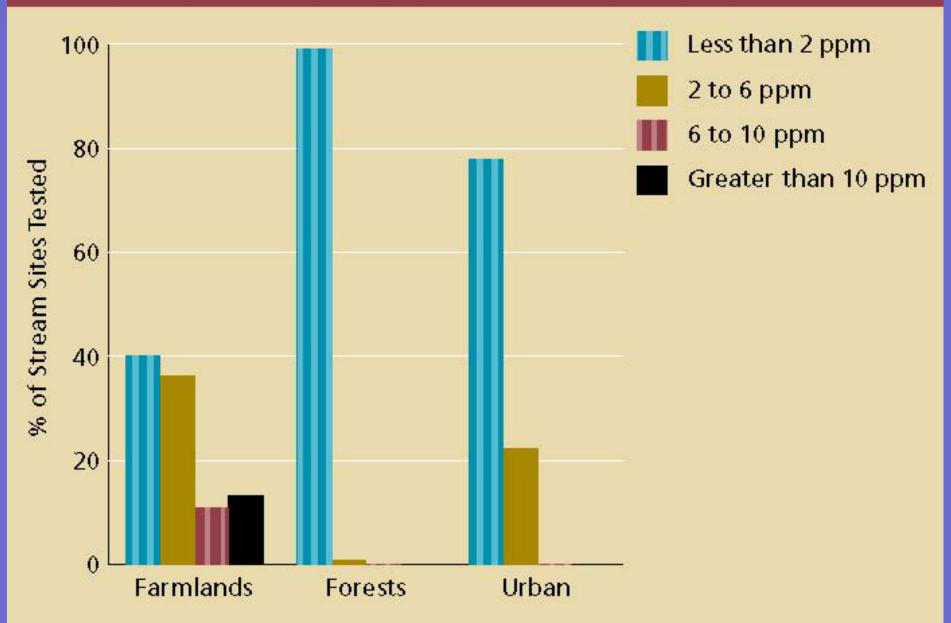
Data source: USDA Natural Resources Conservation Service. Coverage: lower

#### Nitrate in Farmland Streams, 1992–2001



Data source: U.S. Geological Survey, National Water Quality Assessment.

## Ecosystem Comparison: Nitrate in Streams, 1992–2001



Data source: Same as above. Coverage: all 50 states.

# "Data Gaps"

Strategy: Report <u>intentionally</u> was not limited to data already in hand

Outcome: In 2002, nearly <u>half</u> of 103 high priority indicators could not be reported

~30% had inadequate data ~ 2008: 26% (of 108) ~14% had inadequate definition - 2008: 11% (of 108) Key Principles:

Focus on trends

✓ Politically neutral

✓ Scientifically excellent

X Policy relevant (connected to local / national decisions)

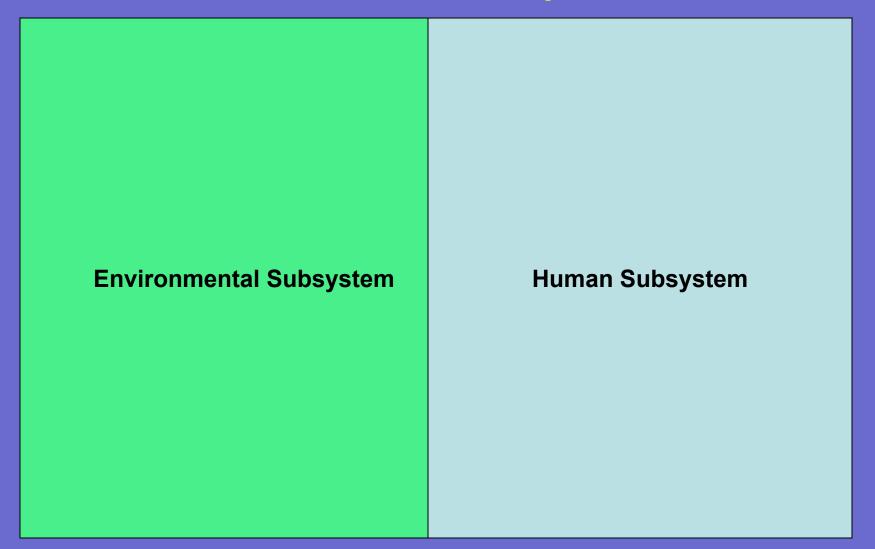
Not a one-time report

**Conceptual Framework Development** 

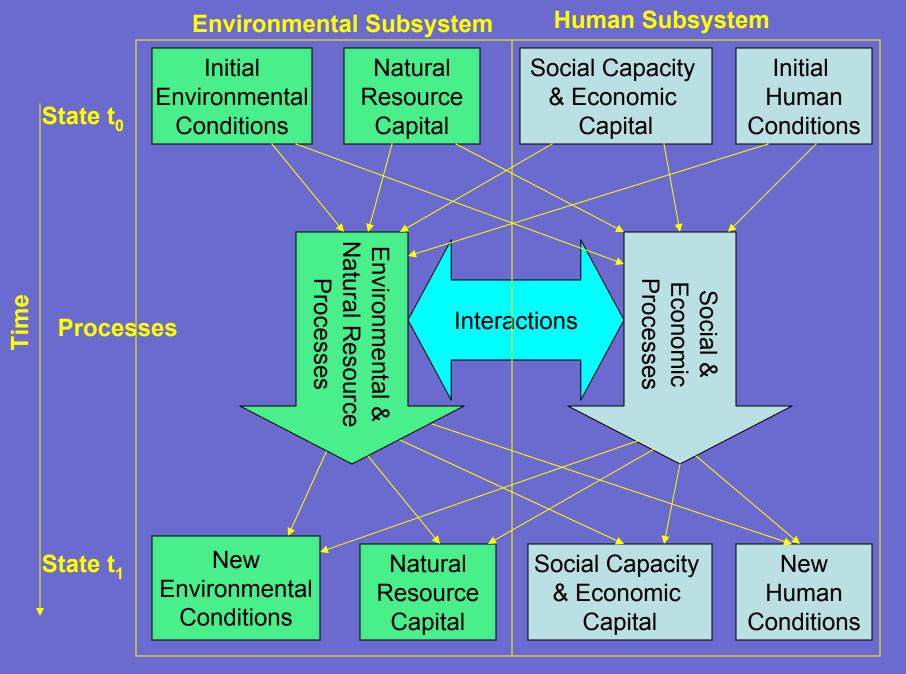
(thanks to)

Integration and Synthesis Group Theodore Heintz White House Council on Environmental Quality

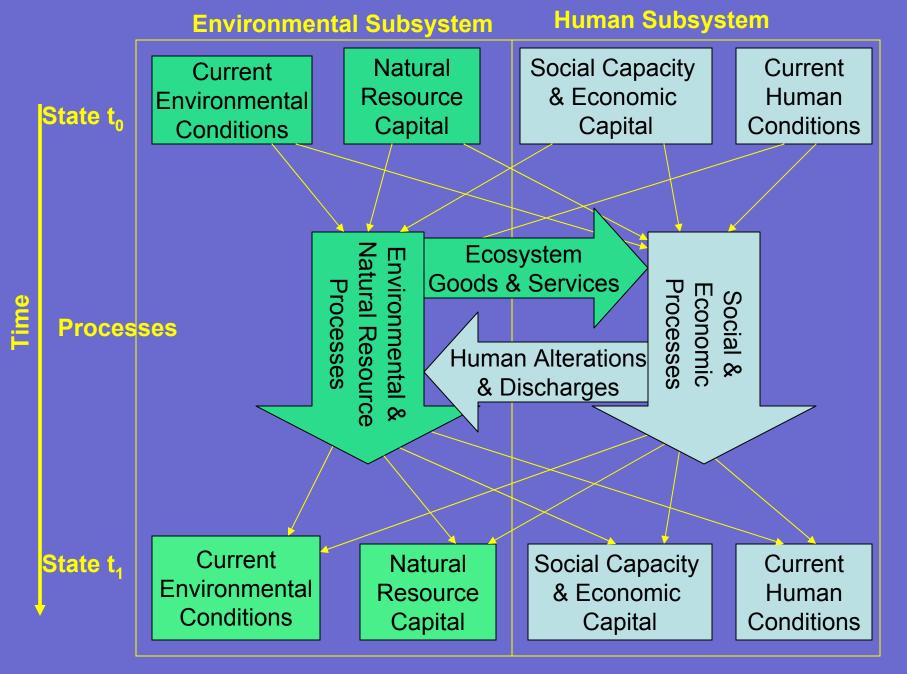
#### The Earth's Ecosystem



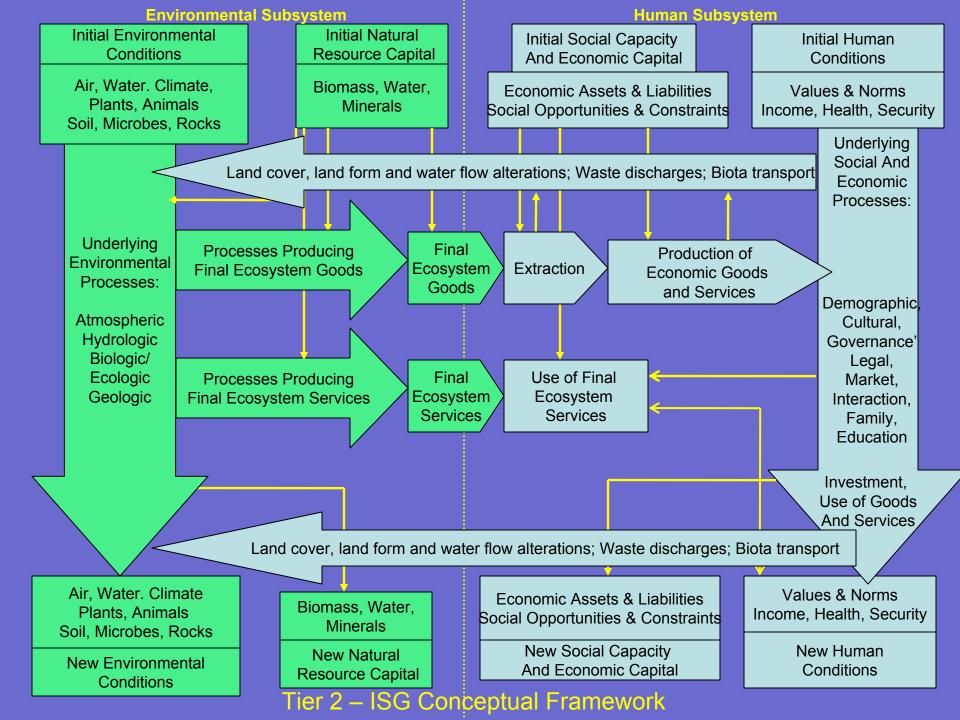
#### **Tier 0 – ISG Conceptual Framework**



Tier 1 - ISG Conceptual Framework



Tier 1a - ISG Conceptual Framework with Ecosystem Services









# Thank you





