

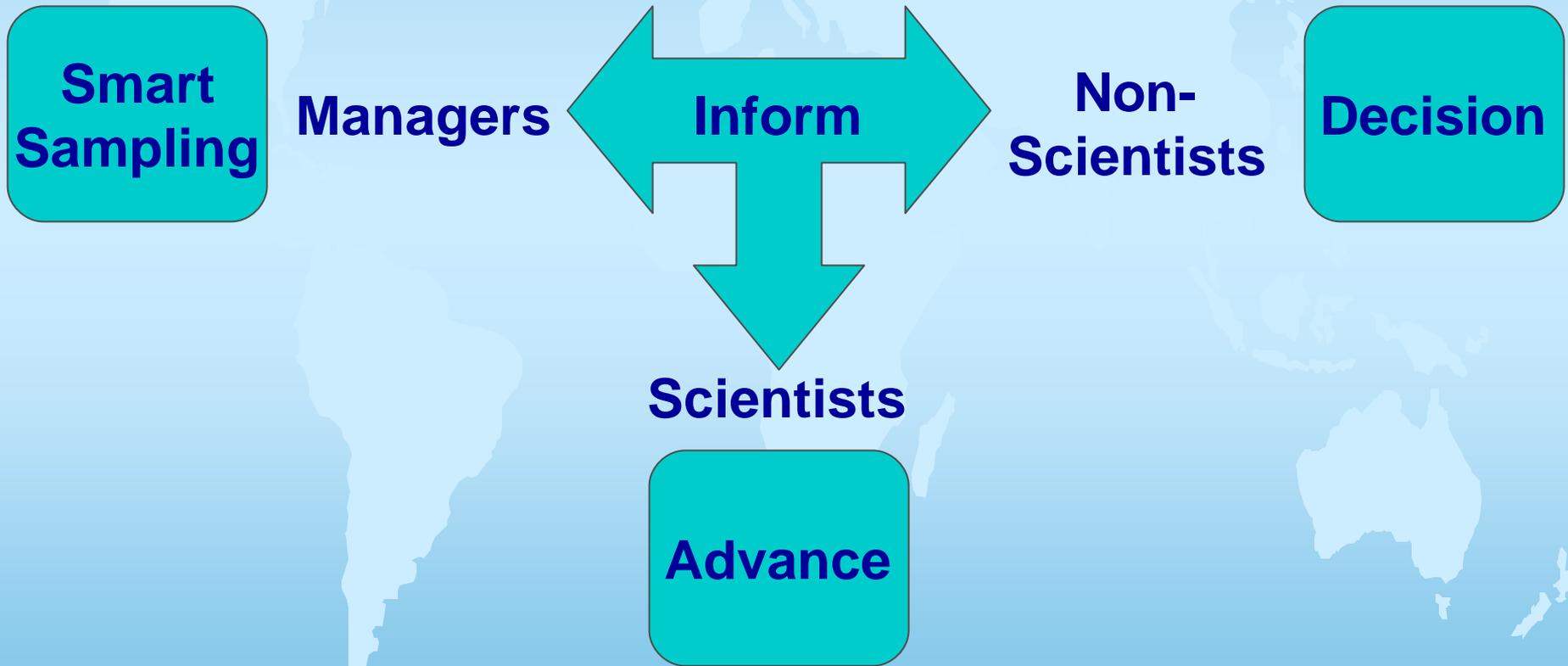
# Climate Observation Program Workshop Focus on the Ocean

Session 2 -- Annual Report

Chair: Diane Stanitski



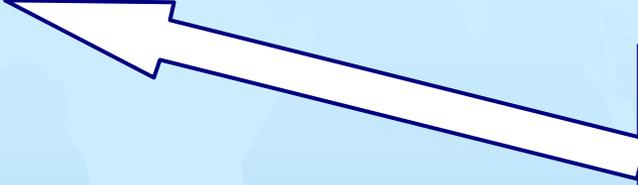
# Annual Report as a System Organizing Framework



# THE NEED FOR A SYSTEMS APPROACH TO CLIMATE OBSERVATIONS

Trenberth, Karl, and Spence

- In addition to acquiring new observations, essential infrastructure has to be established to ensure:
  - Integrity and continuity
  - Analysis into products
  - Assessment of why climate anomalies have arisen
  - Links to modeling and research
  - Clear delineated responsibility for oversight and health of the system, and resources to build and sustain under the 10 principles



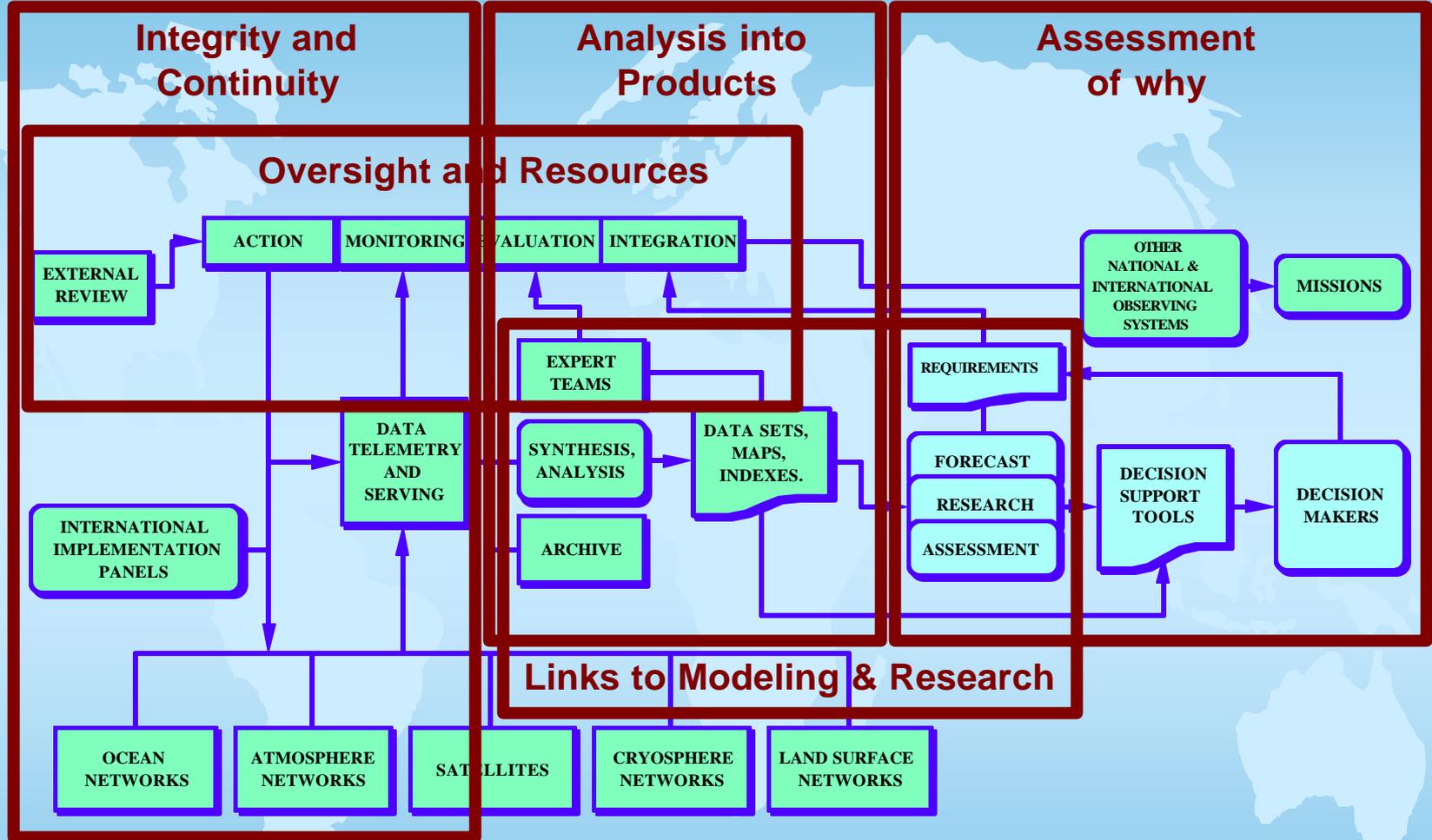
Annual Report Mechanism

# Important Operating Principles

from Trenberth, Karl, and Spence

- Adequate support for changes to instrumentation
- Stable support
- Contingency plans for resource shortfalls
- **Observing system activities should be regularly reviewed**
- **Activities should produce annual plans documenting accomplishments, future activities, and projected spending to ensure accountability**
- Flexibility and adjustments by the system operators to maintain data flow

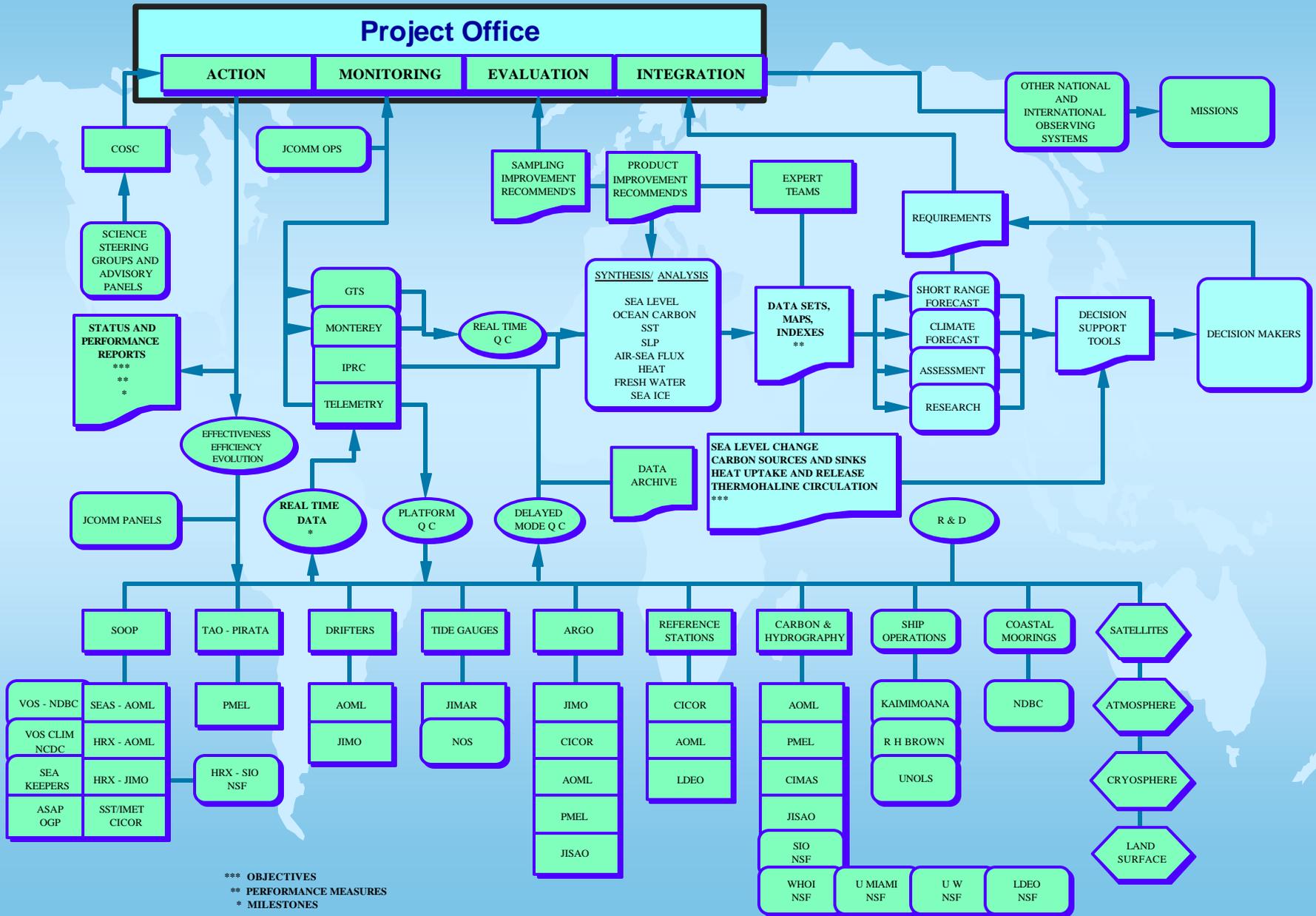
# A System Approach to Climate Observation



**Infrastructure has to be established**

# Ocean Component -- System Architecture

## Annual Report "Essential Infrastructure"



# Annual Report Objectives

- **Explain the state of the ocean to decision makers and non-scientists**
- **Document the state of the observing system**
  - **Progress in meeting milestones**
  - **System performance -- scientific evaluation and user feedback**
- **Address the state of the science**