

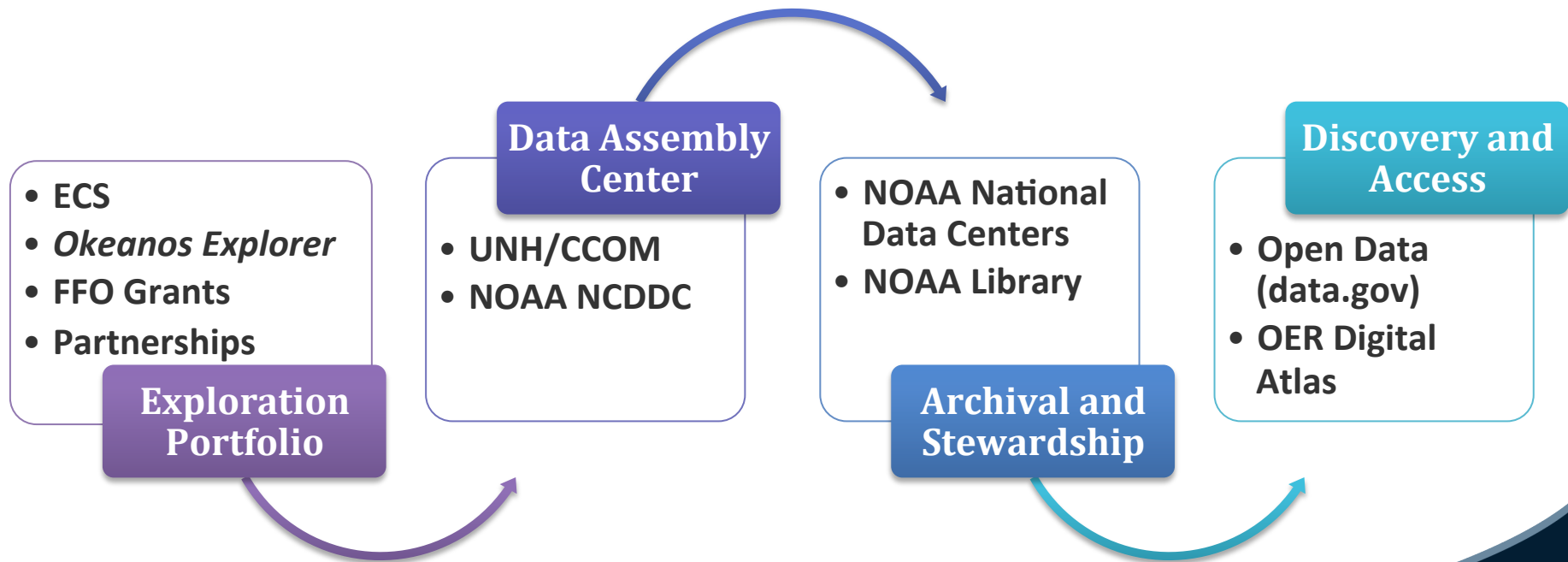


Ocean Exploration
and Research

Data Management

Data Management: Who We Are

A collaborative partnership drawing on expertise from across NOAA line offices and extramural partners



Data Management: What We Do

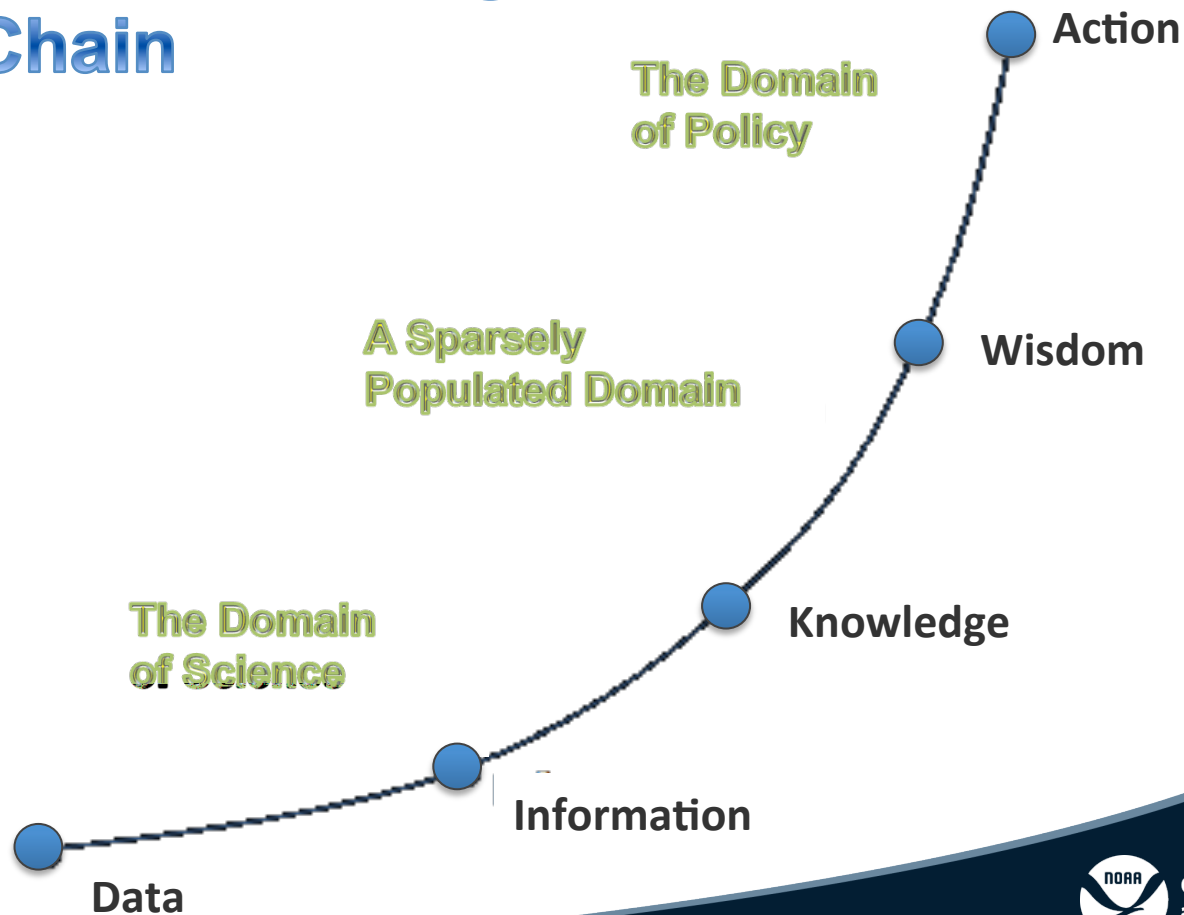
Setting the bar for rapid and unfettered data sharing

- Building and operating effective and efficient data management systems
 - Ensure compliancy with National Open Data initiatives and NOAA policy
 - Identify and fill infrastructure gaps in lifecycle systems
 - Lead, develop, implement, and transfer technology
- *Okeanos Explorer* as data management test platform
 - Average 45-day turnaround from dock to public access
 - Fully documented, QA/QC data
 - “A Standard for the Fleet”



Data Management: Why We Do It

The Ocean Knowledge Value Chain



Data Management: Results

Immediate, actionable information for scientists, decision makers

- Innovative device for real-time annotation
- Adaptive operational management
- Real-time data assessment
- Model ground truthing
- Precise targeting for follow-on proposals

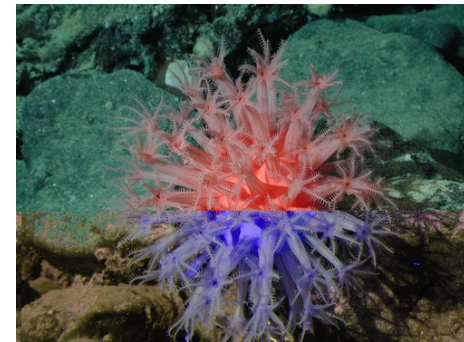
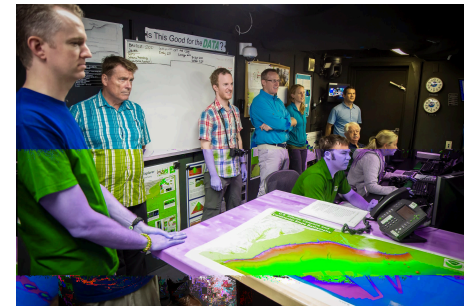


Data Management: What We Achieve

Rapid and accurate data turnaround for long-term stewardship and full public access

2014 Examples:

- MARCO *Course of Action* to strengthen protection of submarine canyon habitats
- MAFMC redefinition of coral conservation boundaries
- *Proposed Amendment to the Atlantic Mackerel, Squid, and Butterfish Fisheries Management Plan*



Data Management: Challenges

Sustained excellence in the face of continual change

- Evolving standards
- Rapidly evolving technology
- Expanding OER portfolio
- Need for value-added products
- Changes in NOAA organization
- Increasing end-user sophistication

Data Management: Next Steps

Data management champion

- Continue and expand partner collaboration

Large volume data management

- Leading NOAA in implementation of video data management
- Amazon Cloud pilot project

Products

- Periodic reassessment of internal production methods and status
- Public/private partnerships to increase targeted product offerings