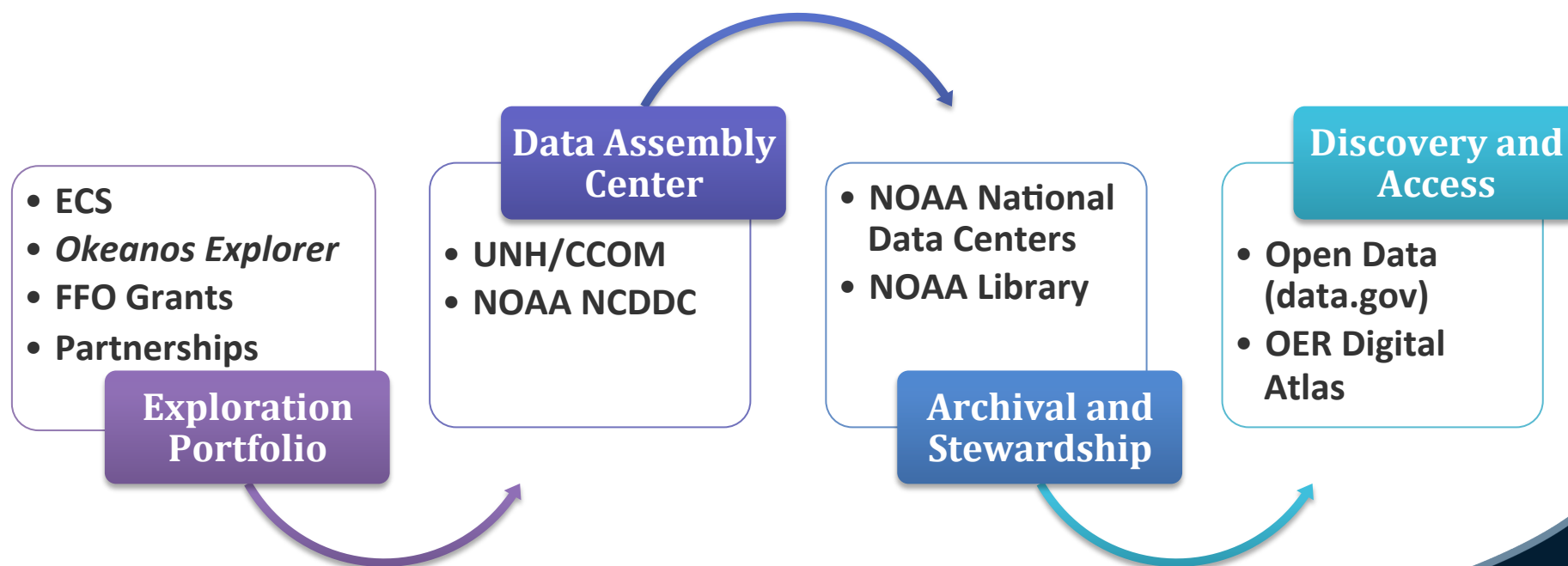# Data Management

Data Management:
Who We Are

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

Exploration Portfolio
- ECS
- *Okeanos Explorer*
- FFO Grants
- Partnerships

Data Assembly Center
- UNH/CCOM
- NOAA NCDDC

Archival and Stewardship
- NOAA National Data Centers
- NOAA Library

Discovery and Access
- Open Data (data.gov)
- OER Digital Atlas

OceanExplorer.NOAA.gov

Ocean Exploration and Research

Data Management:
What We Do

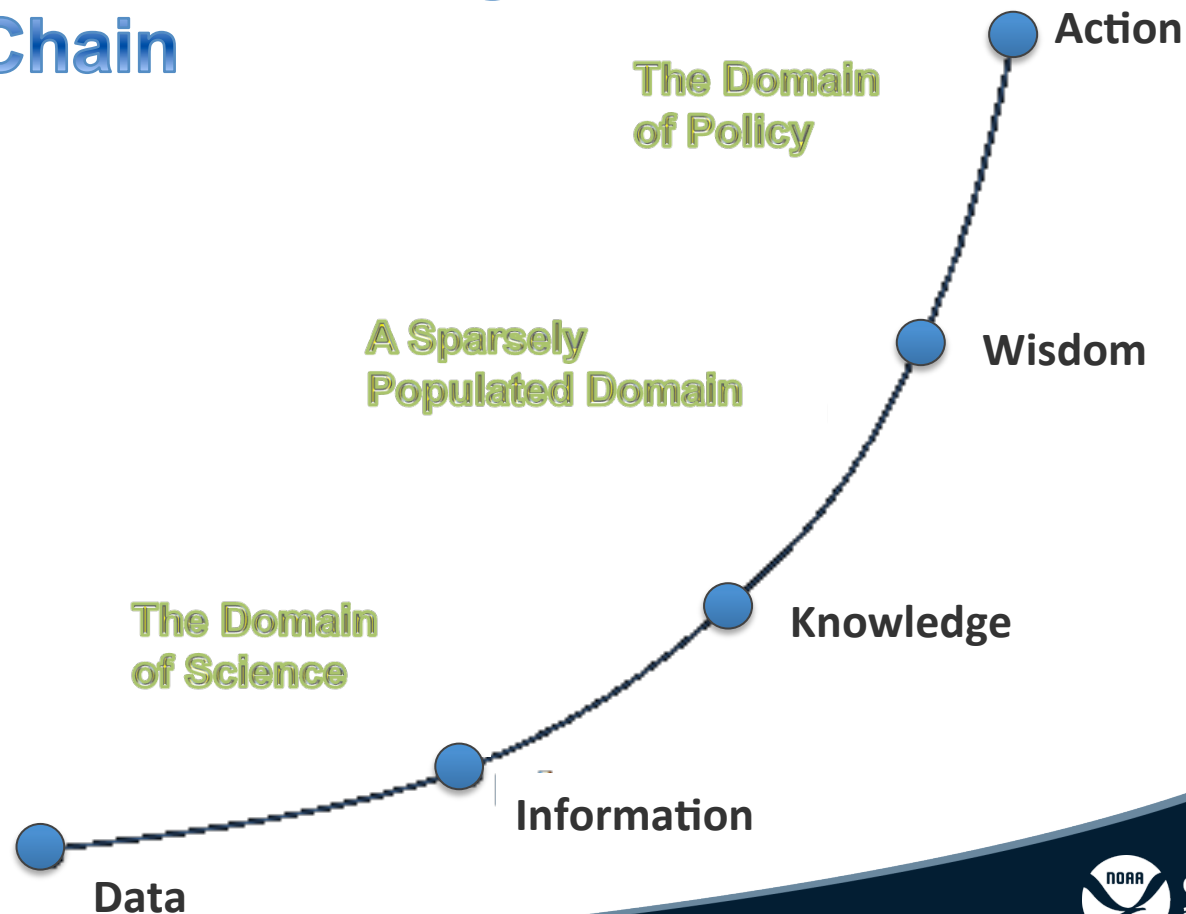Setting the bar for rapid and unfettered data sharing

- 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"

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Data Management: Why We Do It

The Ocean Knowledge Value Chain

Action

The Domain of Policy

A Sparsely Populated Domain

Wisdom

The Domain of Science

Knowledge

Information

Data

OceanExplorer.NOAA.gov

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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
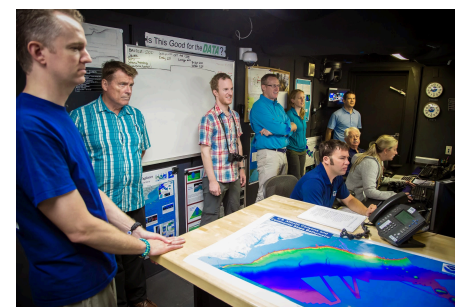- Precise targeting for follow-on proposals

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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

NOAA **Ocean Exploration and Research**

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

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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

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