

# Committee on Open Environmental Information Services

**MISSION: INFORM, COLLABORATE AND ADVOCATE FOR EFFICIENT, EQUITABLE AND TIMELY ACCESS TO ENVIRONMENTAL DATA FOR RESEARCH, OPERATIONAL AND BUSINESS APPLICATIONS**

# COEIS – The Committee

- Don Berchoff, TruWeather Solutions (Chair)
- Dave Michaud, NOAA
- Sam Nixon, Meteomatics
- Michelle Mainelli, NOAA
- Matthew Mayernik, NCAR
- Scott Mackaro, AccuWeather
- Mohan Ramamurthy, UCAR
- John Shepley, SAIC
- David Gagne, NCAR (Observer)
- Doug Hilderbrand (Advisor)

# COEIS – Guiding Principles

- Inclusive of government, commercial, and academic data
- Encourage public, private and academic data partnerships
- Support a sandbox for innovation underpinned by NOAA cloud services
- Focus the big data conversation towards cutting edge applications
  - Research
  - Operations
  - Business (Decision Intelligence)

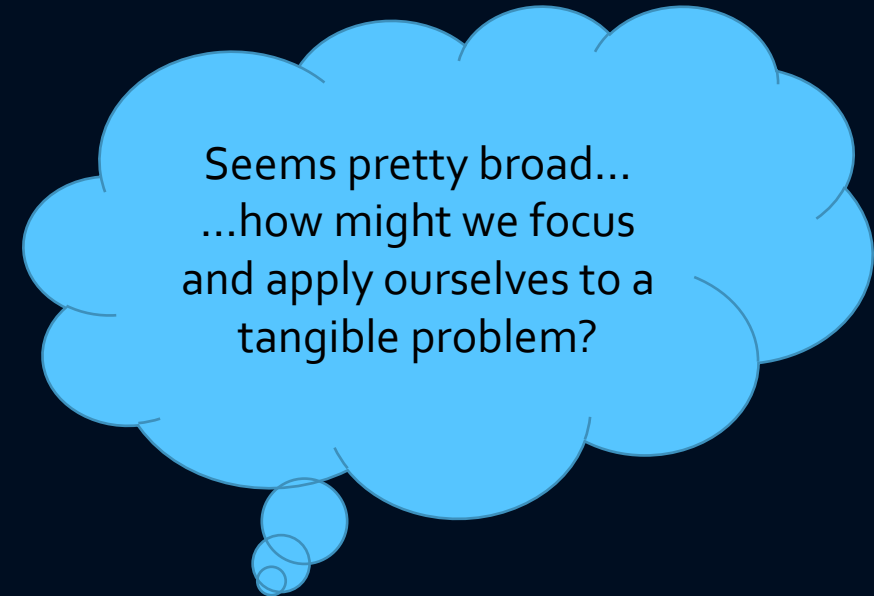
# COEIS – Action Roadmap

- Seminar series--community engagement
  - Collaborate to enable NOAA to capture big data project preferences
  - Data access priorities
  - Cloud Available Tools
- Use Case Illustration: AI/ML and big data sets
  - Inform “what is possible” for industry stakeholders
  - Spark innovation in a rapidly growing interest area
  - Desired COEIS Outcome: Next generation of applications:
    - Research (scientists)
    - Operational (guidance, meteorologist/oceanographer etc.)
    - Business (decision intelligence.)
- COEIS and the Committee on Artificial Intelligence Applications for Environmental Science working synergistically together

# Open Environmental Information Services

## **“Service” – definition**

- *The action of helping or doing work for someone*
- *A system supplying a public need*



## **“Information Services” - definition**

- Organized services to provide information on any questions an individual might have using databases and other sources

# Webinar Series – Focus on Application of Data

- Collaborative discussions with community which has more specific application of data
- Facilitate communication between AMS communities
- Learn about benefits, challenges and opportunities associated with applications and the data services that feed these services
- Stimulate discussion and opportunities to advance information services which enable improvements and/or acceleration of a communities applied use of environmental information

# Big Data Initiatives—Access and Exploitation for Weather Industry

## Webinar Series

### Webinar 1

- Overview of Webinar Series

### Webinar 2

- Vehicles and Tools to Innovate and Collaborate - *NOAA Big Data Project and Cloud Service Provider Toolsets*

### Webinar 3

- Artificial Intelligence and Machine Learning Applications – *Uses, Benefits and Challenges*

### Webinar 4

- Connecting the Dots – *How Do the Data, Tools and Applications Come Together*

### Webinar 5

- Moving Forward – *What Did We Learn and What Can We Do?*

Co-Sponsored by:

AMS Committee on Open environmental Information services

AMS Committee on Artificial Intelligence Applications to Environmental Science