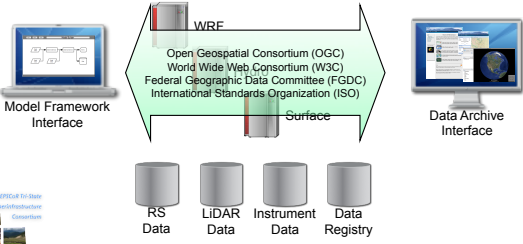

Western Consortium of Idaho, Nevada, and New Mexico

Model and Data Interoperability

Karl Benedict - Tri-State CI Lead
Earth Data Analysis Center, UNM

Goals and Objectives

- Data and Model Interoperability
- Interoperable Data Archive



Model Framework Interface

WRF

Open Geospatial Consortium (OGC)
World Wide Web Consortium (W3C)
Federal Geographic Data Committee (FGDC)
International Standards Organization (ISO)

Surface

Data Archive Interface


RS Data
LIDAR Data
Instrument Data
Data Registry

W3C EPSCoR Tri-State
Open Geospatial
Consortium

2

Major Activities

- Data/Model Interoperability
 - Identify models/frameworks
 - Develop machine interfaces to identified models/frameworks
 - Develop user interfaces for chaining machine interfaces into workflows



3

Major Activities

- Interoperable Data Archive
 - Identify core interoperability standards
 - Develop Create/Read/Update/Delete interfaces for the distributed archive nodes (web)
 - Establish interoperable services for product delivery into multiple clients
 - Replicated data archives across Tri-State states



4

Outputs

- Interoperable data archives and frameworks
- Desktop and Web-based model framework and archive interfaces
- Best practice documents for researchers for effective contribution and use
- Integration with National Networks



5

Outcomes and Metrics

- Easily discovered data and information services
- Simplified model execution framework supporting user linkage of components
- Metrics
 - Number, type, and use of data products
 - Use of model framework



6



Questions???

8

WRF OREO to Data
Visualization
Component
