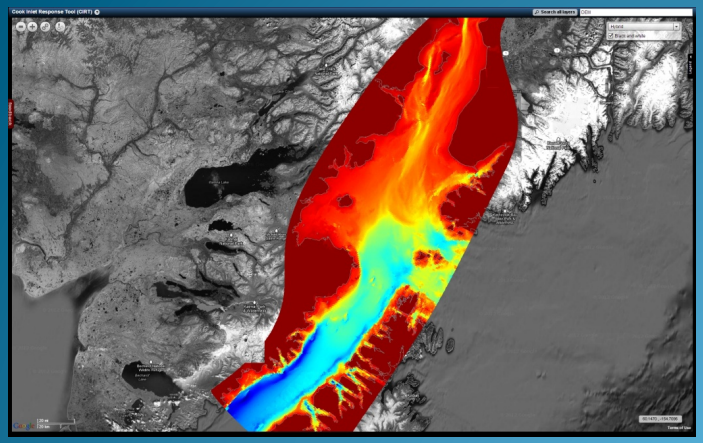
IOOS®
INTEGRATED OCEAN OBSERVING SYSTEM

CeNCOOS

USGS
science for a changing world

AOOS
Alaska Ocean Observing System

Cyber-Infrastructure for Ocean Observing Systems



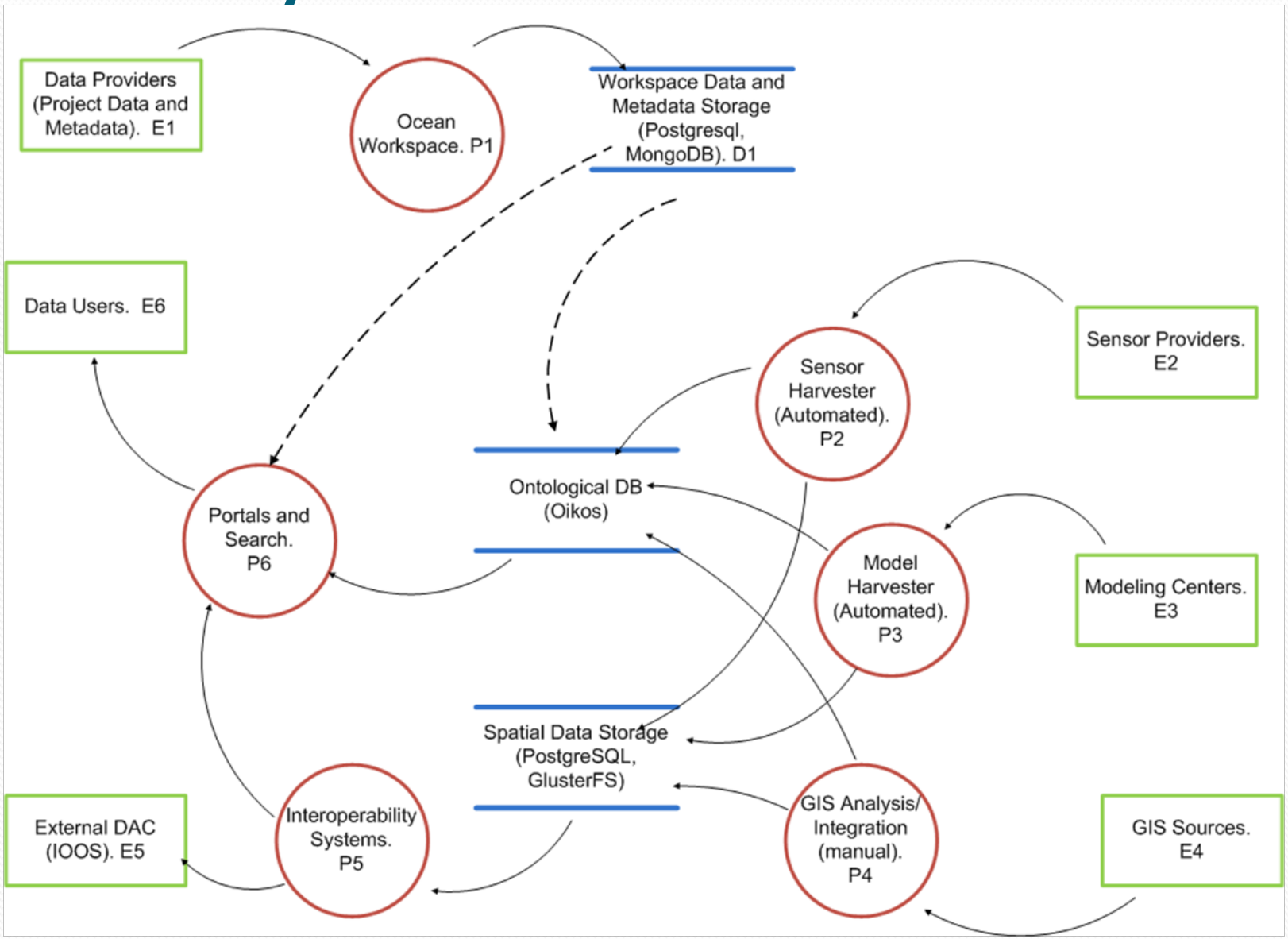
Axiom
DATA SCIENCE

Rob Bochenek
Information Architect

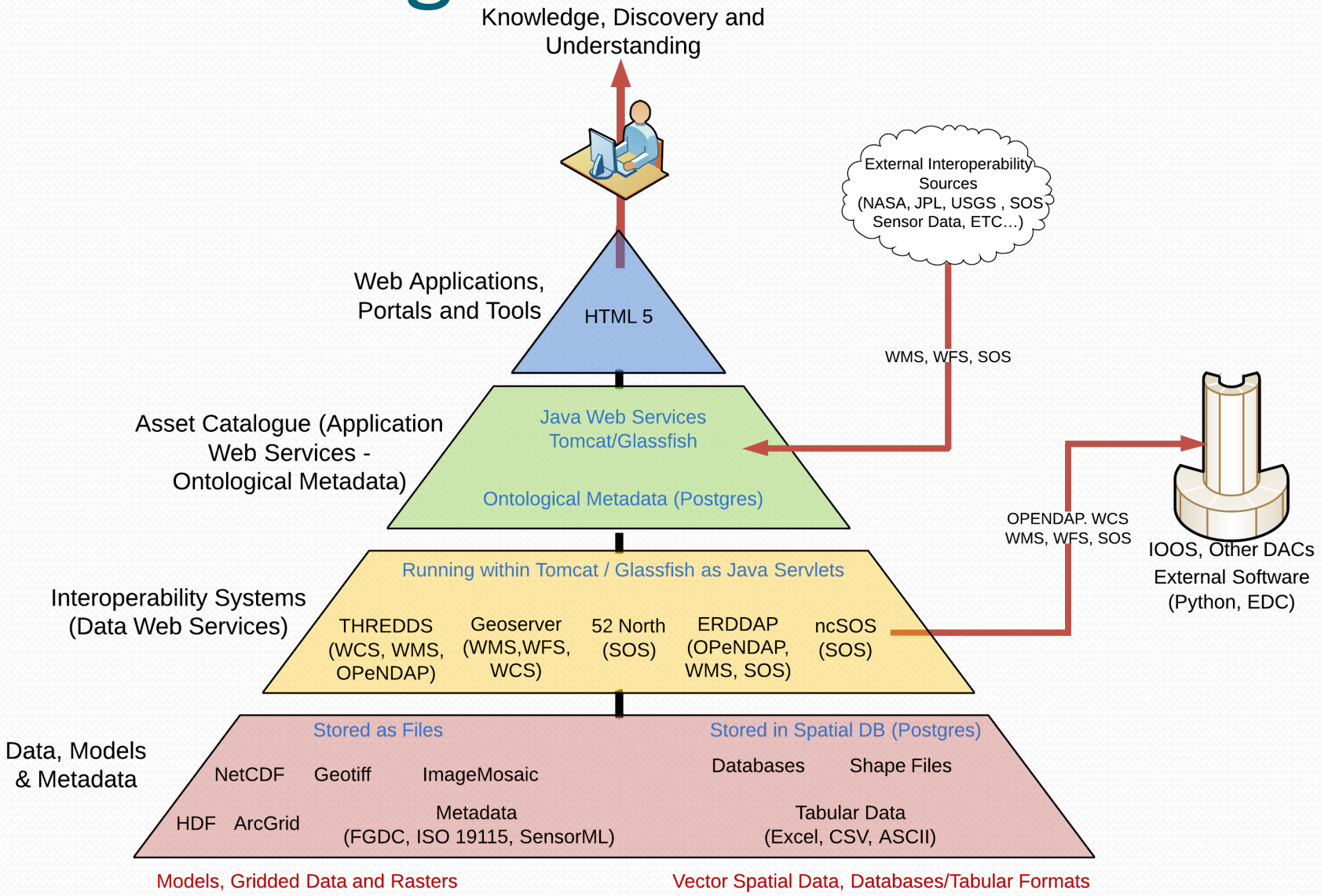
Summary

- Introduction to Axiom
- DMAC System Data Flows
- Data Integration Architecture
- Introduce New Capability “Research Workspace”
- Leveraged efforts that Axiom brings to the table
- Demonstrate Prototype SECOORA Systems

System Data Flows



Data Integration Architecture



Research Workspace: Scientific Collaboration and Data Management Platform

- Researchers organize themselves into teams for projects and larger scale research campaigns
- Data, sampling designs, contextual information, analytical workflows and results can be securely shared and transformed among team members
- Users can generate scientific metadata for information resources (ISO 19115-1/2)
- Users can then elect their project and selected data files to be published to publicly accessible portals.

Leveraged Efforts

- AOOS DMAC (~500k per year)
- CeNCOOS DMAC (~200K per year)
- IOOS Special Projects (~200k)
- MBON Alaska, Florida and California (~100k)