



# Exchange Network use of Web Services

Gulf of Maine Ocean Data Partnership  
Web Services Workshop  
Portland, ME

May 21, 2008

Mitch West, Executive Coordinator  
National Environmental Information Exchange Network

## Why I'm Here—Standard Services



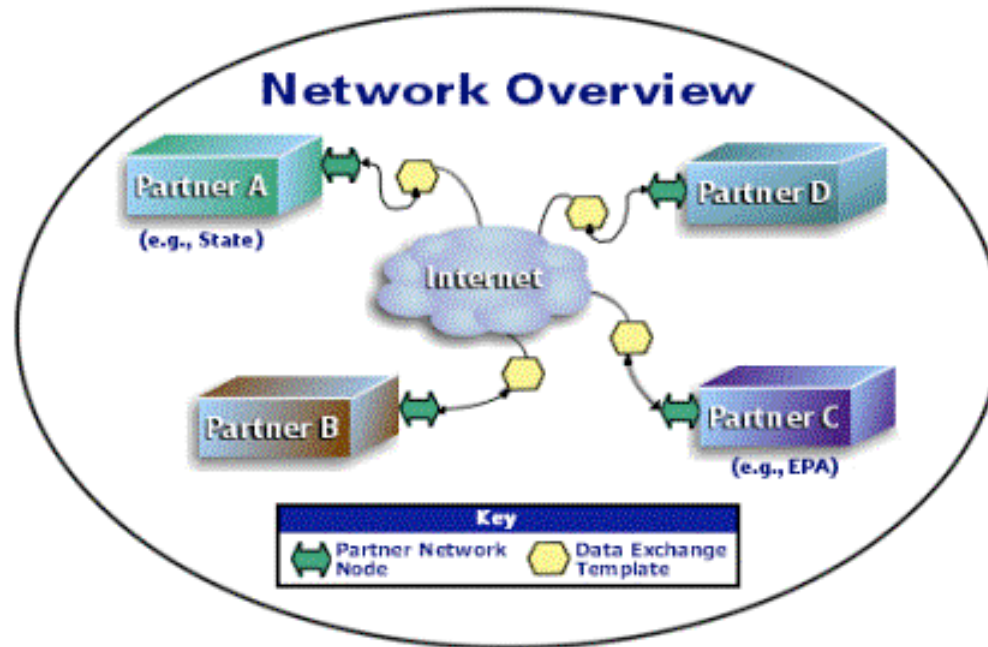
- Why the Exchange Network Exists
  - Why that's relevant
  - What's it to you here in Maine?
- Web Service Observations
  - What's so special about your "node" anyway
- No pressure sales pitch
  - Might save you some time
  - Free
  - Headed in a common direction.

## Why?

- High demand for access to environmental information among partners
- Multiple approaches to information exchanges are inefficient and burdensome
- Partners modernizing information systems and migrating away from use of EPA national systems
- Use of integrated information technologies and approaches is on the rise
- Decoupling of Information Systems

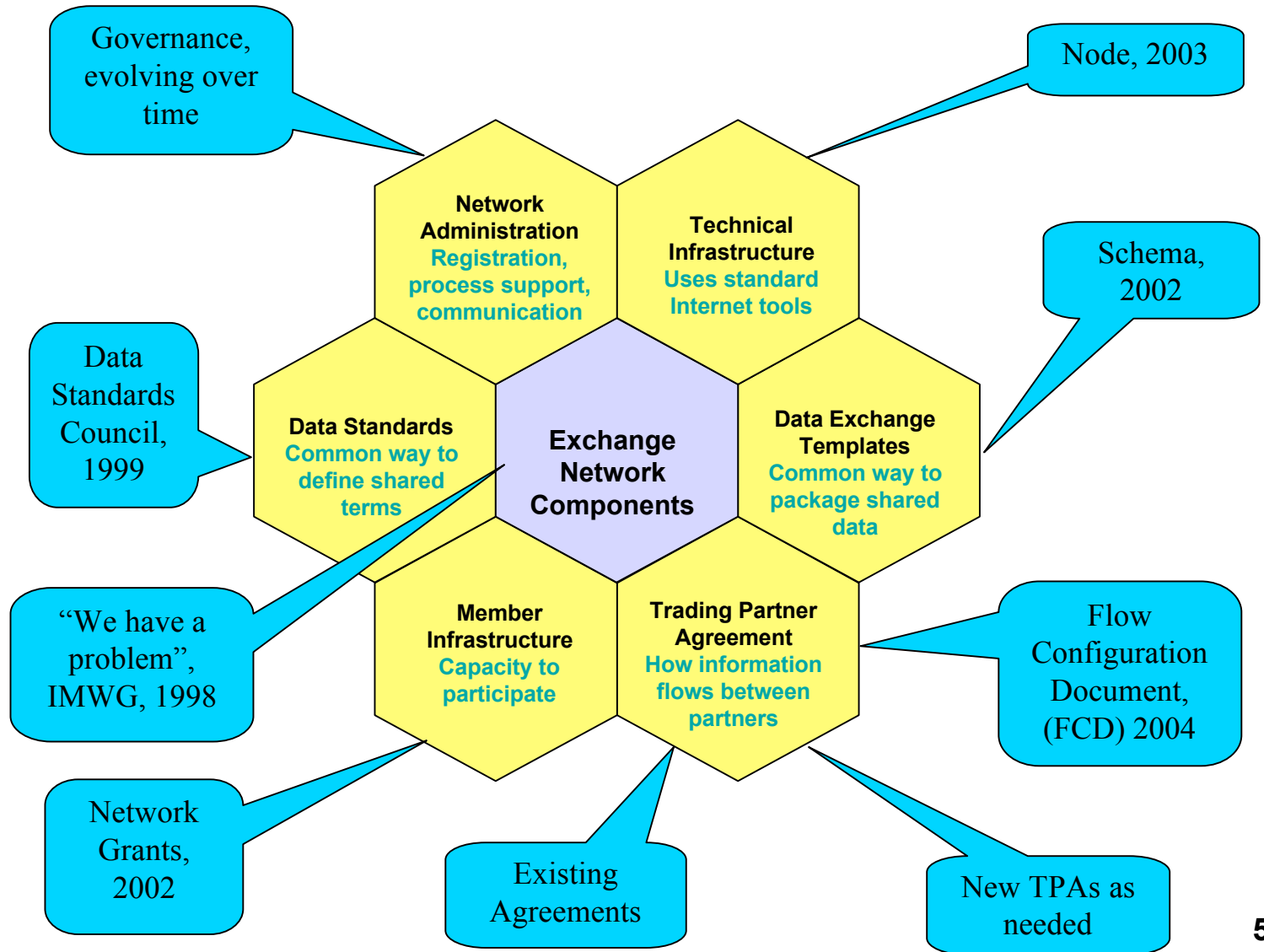


# A Quick Look Back

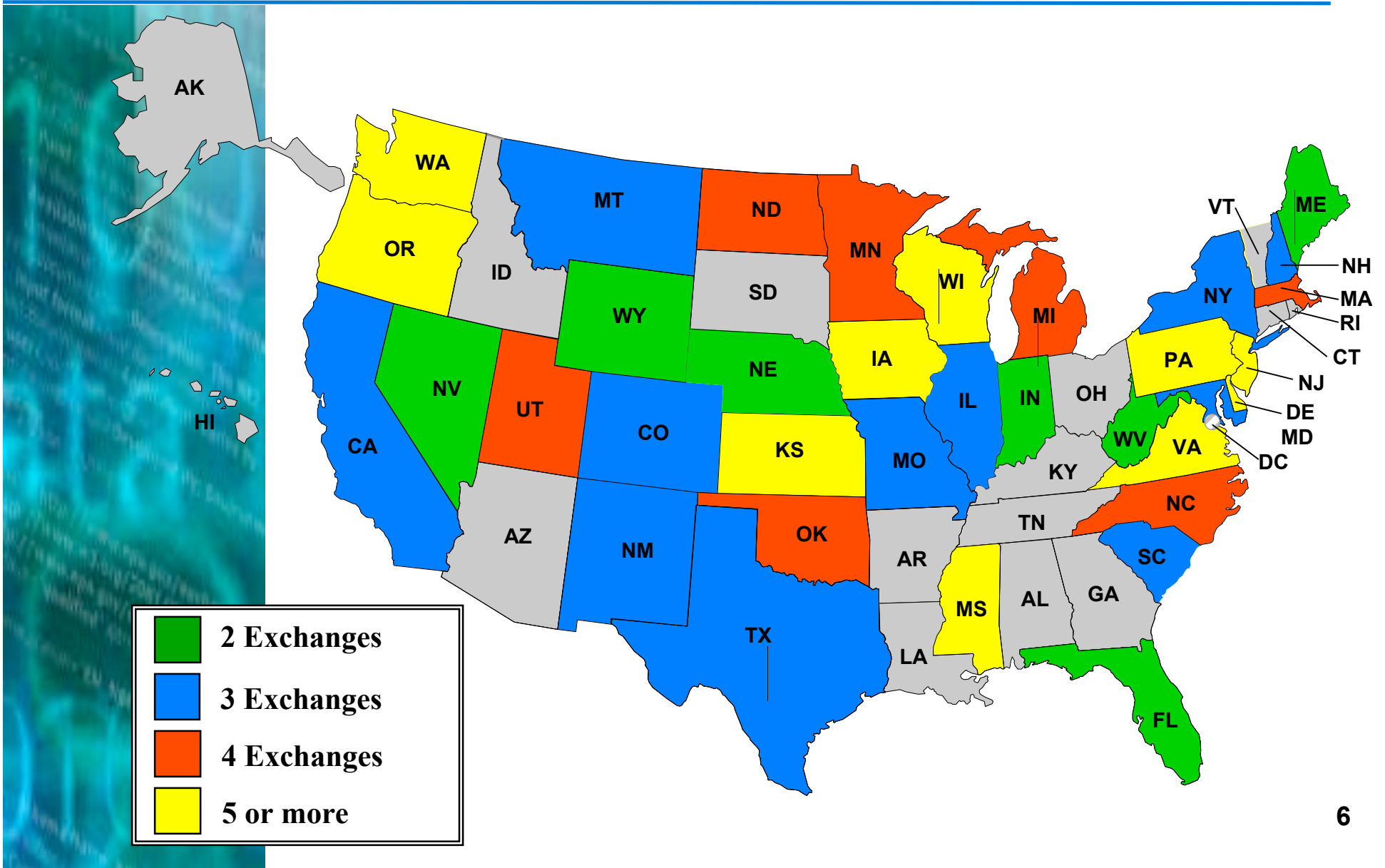


*A common approach to sharing data that lets you use your partners' data as if it is a part of your own systems.*

# The "Blueprint" Adopted 2001



# 2008 Multiple Data Exchanges



# Types of Data Exchanges Occurring on the Network

## State-to-EPA

- Facility Data to FRS
- Drinking Water Data to SDWIS
- Haz Waste Data to RCRAInfo
- Air Emissions Data to NEI
- Air and Water monitoring

## EPA-to-State

- TRI Data Submissions (paper, too)
- Substance and Chemical Data
- Facility Data from FRS
- Air and Water monitoring

## State-to-State

- Air and Water monitoring
- Hazardous Waste Transporters
- Watershed and Habitat
- Emergency Response Data
- Homeland Security Data

## Intrastate

- Environmental Data to Health Departments
- Drinking Water Labs to States
- Homeland Security
- Species/Habitat data
- County Water Data

## What's So Cool About a Node?



- Nothing!
    - Simple Technology
    - Everyone does web services
    - Transport for XML-that all!
    - Learning Curve
  - A lot!
    - Predictable behavior
    - Asynchronous processing
    - Documented Interface
    - One WSDL!
    - Security model
    - Discovery services (beyond UDDI)
    - One Way to work
    - Stability
    - “Canonical” services
- “Knowing the structure of an XML document saves the developer from writing unnecessary conditional application logic. Once a document is identified as belonging to a class of documents, many assumptions about its structure can be made.”—XML.com*

## Free to a Good Home



- Experienced--Comes with proven partnership and processes
- Stable
- Paid for
- Nicely equipped
- Flexible—we're shaking hands with OGC
- Not just for Reports any more (never was)

## Questions? Need Info

---

[www.exchangenetwork.net](http://www.exchangenetwork.net)

mitch.west@exchangenetwork.net