



The National Environmental Information Exchange Network

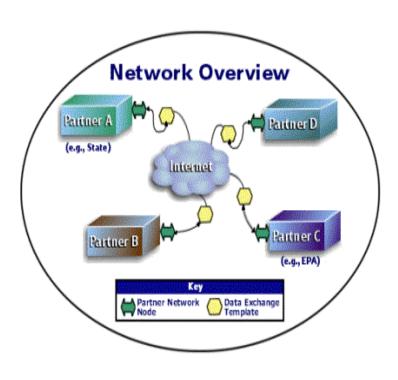
Overview and Opportunities

National AQS User Conference August 20, 2008



1990 What is the Exchange Network?





Principles:

- Each partner manages their own data, and is the steward for data they originate.
- 2. The Network "doesn't care" how a partner manages and stores information.
- Partners who need to store copies of data locally are responsible for the design, format, and maintenance of the copy they create.
- Network partners agree to use adopted technology and data standards.

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



Why?



- High demand for access to environmental information among partners
- Multiple approaches to information exchanges are inefficient and burdensome
- States modernizing information systems and migrating away from use of EPA national systems
- Use of integrated information technologies and approaches is on the rise
- Yesterday's Answer for Today's question





lange So Why Are We Still Talking?



- The Exchange Network looks like an IT Initiative
 - AQS worked just fine before you came along, thanks!
 - Besides, I'm busy.What's in it for me?
- Checking the box doesn't matter much. And it doesn't seem to do much.
 - I'm not saying don't use the Network—just understand why, and make work for you.

- You're right. Your IT shop just doesn't get it
- Full Disclosure: I'm one of them
- But they mean well—and they have money!!
- It really does pay off for IT
- Air program innovators have made it work for them
- You only see the payoff when you do cool new stuff.





Business Case: New Jersey

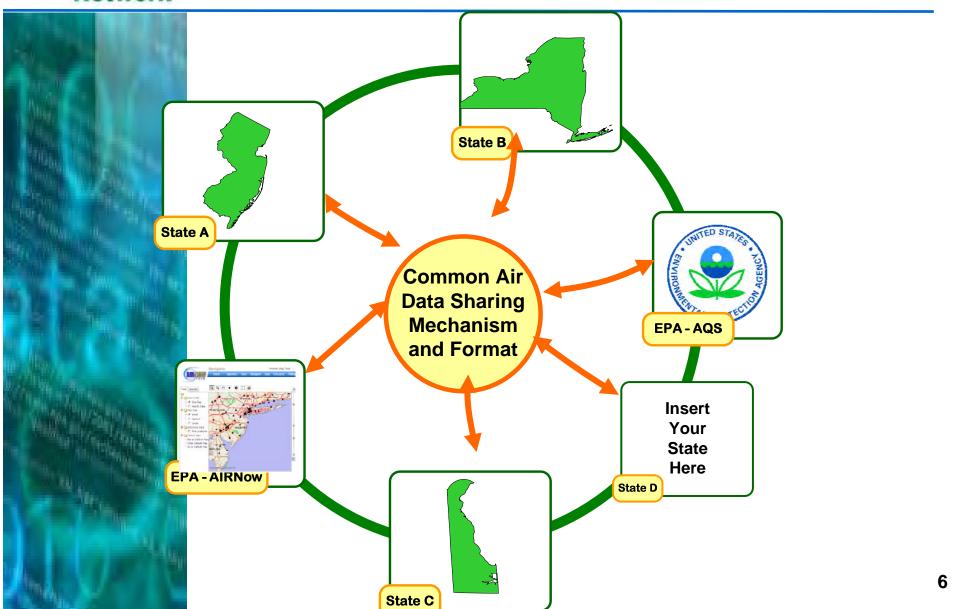




- States share airsheds
- Air quality data isn't easily shared among states and is limited in EPA systems
- Information is needed consistently and timely for:
 - Environmental & Health assessments
 - Homeland security

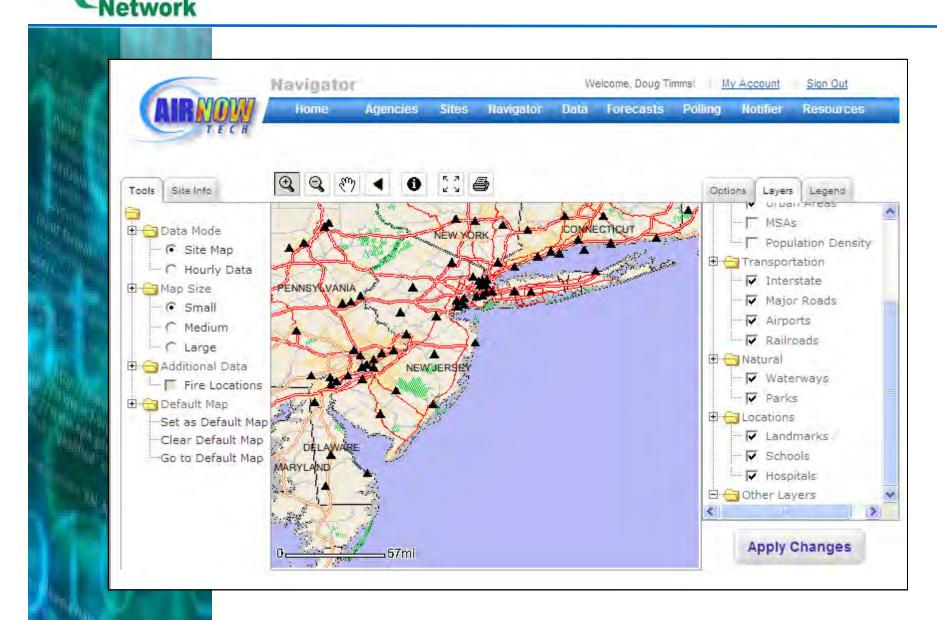


Share data for multiple purposes—not just reporting





nange GIS Analysis Tool – AirNow Tech Network



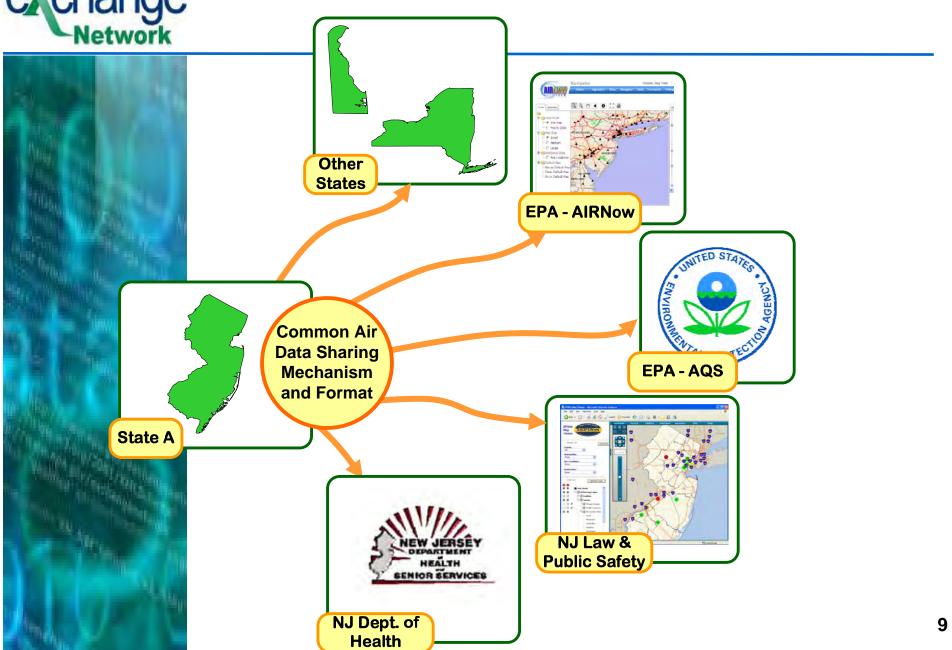




- Improved sharing, use, and consistency of air quality data among states and EPA Air Programs
- Provided tool for states to publish air quality data in a near real-time fashion
- Enabled air quality data to be available ondemand and analyzed online, geospatially through Air Now Tech
- Minimized effort by harmonizing 3 different data sharing needs (AQS, AirNow, State to State) into one data flow
- Collaborated and re-used existing technology
- Ensured easy reuse by other States and Tribes



1 effort reused 5 times in New Jersey





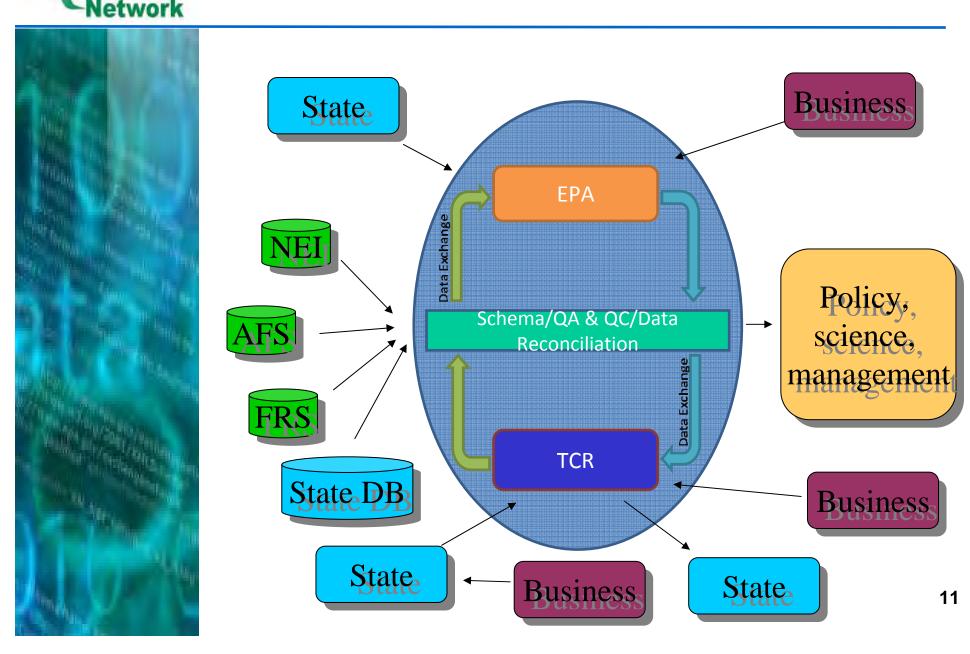
Qe Other efforts

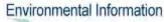


- Public Health Projects (6 states)
- Data Extraction (Water, at present)
 - Are AQS reports everything you can imagine?
- HERE Project (Emergency Response data sharing in a region), built on FRS exchange
- TCR, EIS, and GHG exchanges



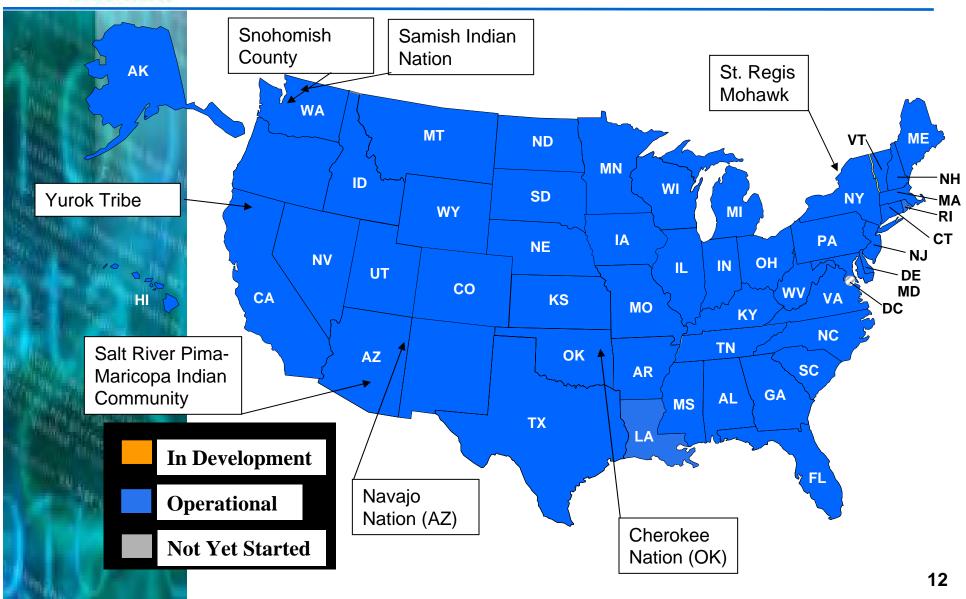
hange Potential Data Exchanges







lange Status of Network - Today





Not Just Another Web Site!



- Can be "built in" to tools you use
- Send reports—or look it up.
- Build once, use many times
- Diminishing cost for new initiatives
- As protected as the owner chooses
- Shared Quality Assurance tools—before you try to load
- Data Standards—shared understanding
- Discovery Services



Finding Data



- Discovery services let you:
 - Find out what is on the Network
 - Learn which partners have the data you need
 - Find out how to access each node and how to request the needed data.
 - For sensitive data, learn how to obtain permissions for data you have a need to access
 - If someone has made tools that improve usability of the data, find and use those tools



Where am I going with all this?



- Define services
- Implement them on AQS—and between partners (want to call a sensor directly?)
- Tell your IT shop what you need to get done.
- The Exchange Network is built on innovation. You can create the "next big thing"
- We want you to ask "What's in it for me"
- Get together with IT, and let the network buy you that next "killer app".



nange Questions? Need Info



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