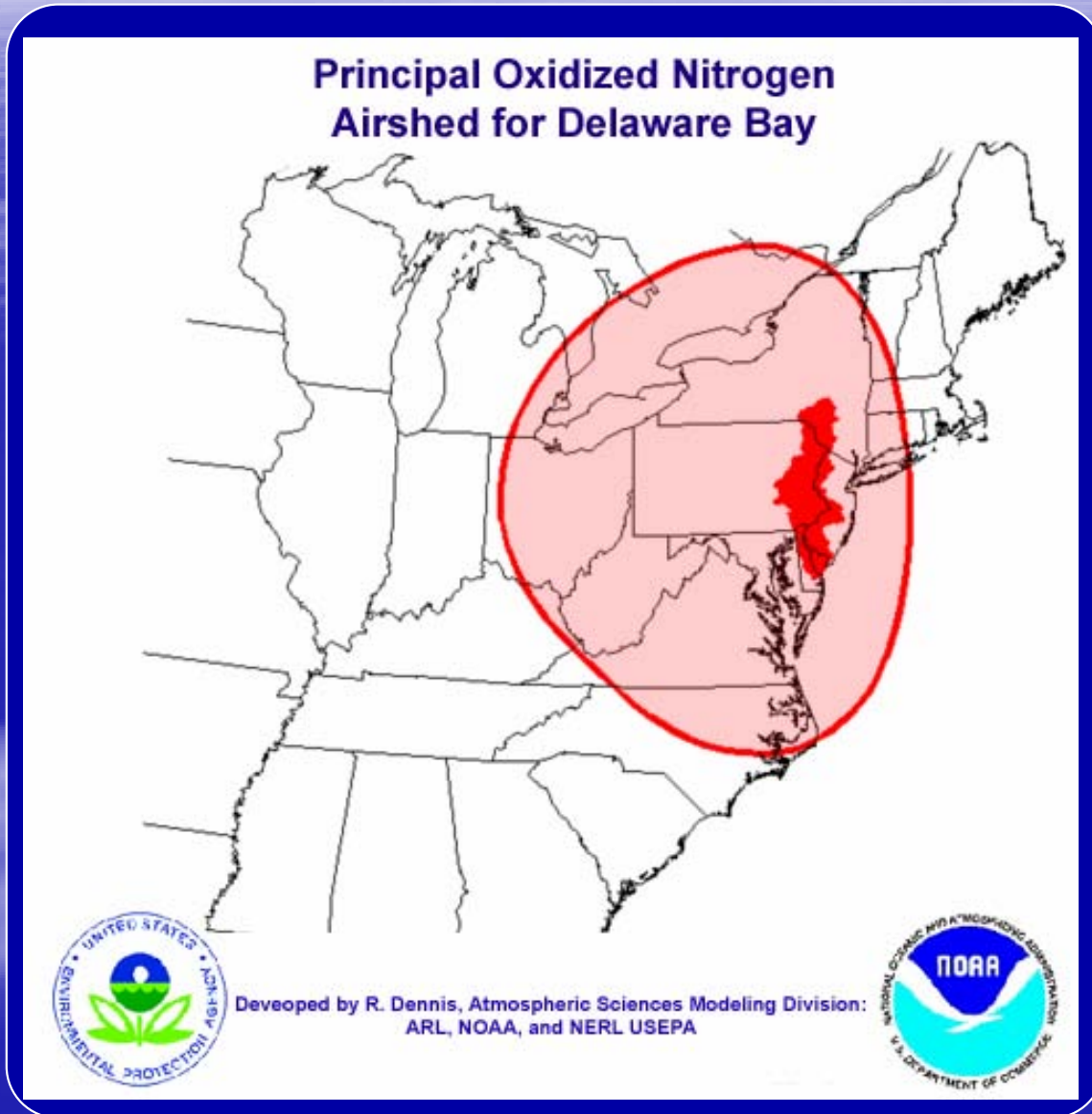


Air Quality Data Exchange

States and EPA Working Together

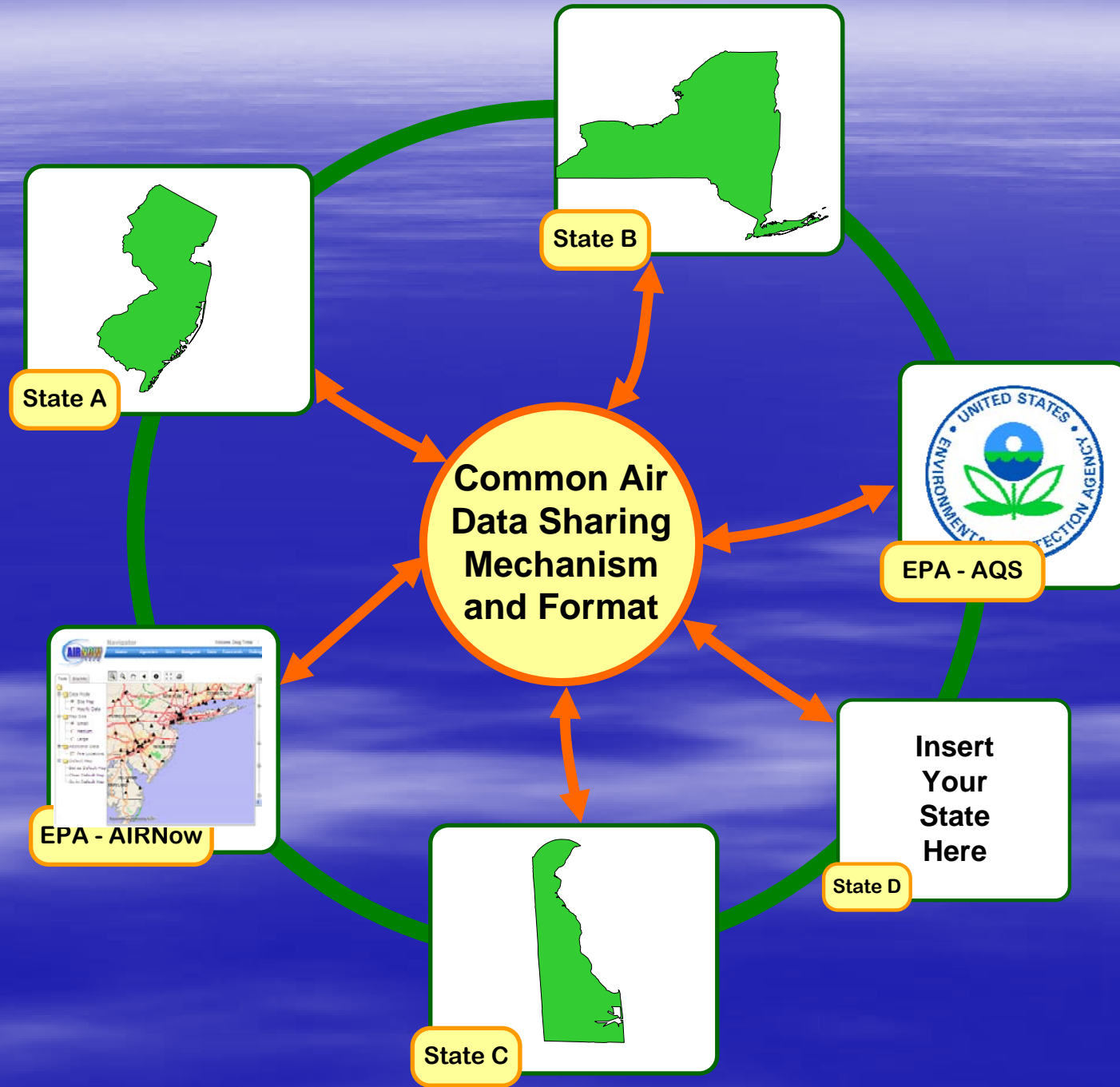
Air Quality Data Exchange Project

Problem Statement:



- 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

Solution: A way to share data for multiple purposes, not just one reporting requirement



Also linked GIS Analysis Tool – AirNow Tech

The screenshot displays the AirNow Tech Navigator web application interface. At the top left is the AirNow Tech logo. The main header includes the word "Navigator" and a navigation menu with links for Home, Agencies, Sites, Navigator, Data, Forecasts, Polling, Notifier, and Resources. On the right side of the header, there is a user greeting "Welcome, Doug Timms!" and links for "My Account" and "Sign Out".

The central part of the interface features a map of the Northeast United States, showing parts of Pennsylvania, New York, Connecticut, New Jersey, Delaware, and Maryland. The map is overlaid with numerous black triangular markers representing monitoring sites. A scale bar at the bottom left of the map indicates a distance of 57 miles.

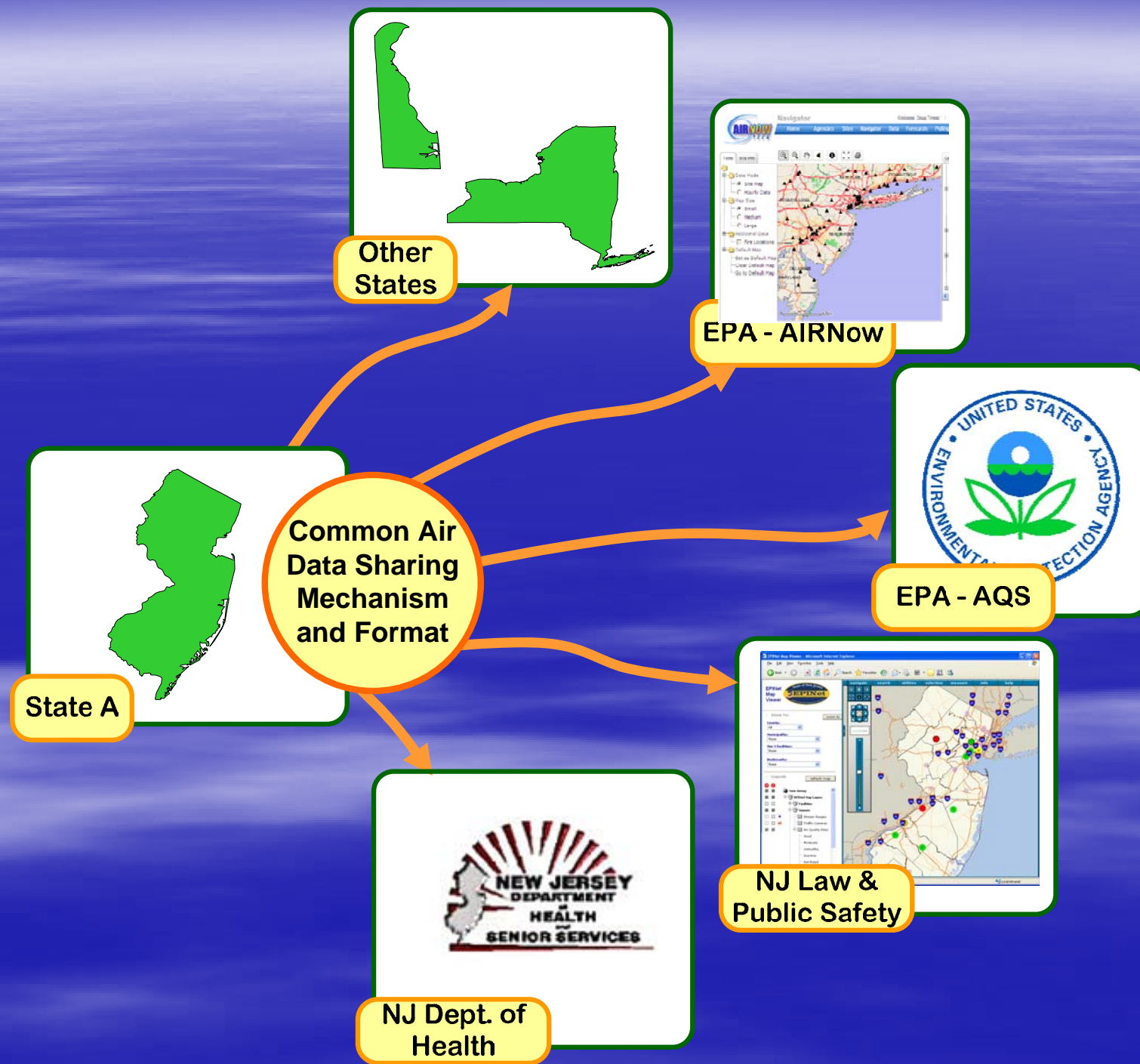
On the left side, there is a "Tools" panel with a "Site Info" tab. It contains several expandable folders: "Data Mode" (with radio buttons for "Site Map" and "Hourly Data"), "Map Size" (with radio buttons for "Small", "Medium", and "Large"), "Additional Data" (with a checkbox for "Fire Locations"), and "Default Map" (with links for "Set as Default Map", "Clear Default Map", and "Go to Default Map").

On the right side, there is a "Layers" panel with tabs for "Options", "Layers", and "Legend". The "Layers" tab is active, showing a list of map layers with checkboxes: "Urban Areas", "MSAs", "Population Density", "Transportation" (with sub-items: Interstate, Major Roads, Airports, Railroads), "Natural" (with sub-items: Waterways, Parks), "Locations" (with sub-items: Landmarks, Schools, Hospitals), and "Other Layers". A blue "Apply Changes" button is located at the bottom right of the interface.

Results

- 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 on-demand 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



Where do we go from here?

- States need more time for grant fulfillment. Procurement process can take a year.
- Coordination with EPA takes time.
- State and EPA need to focus on data sharing needs not reporting requirements.
- EPA should look to states for enterprise data.
- States need EPA for assistance with enterprise applications: build once use many.
- States need close(er) relationship with Regions for coordination/cooperation.