

AirExplorer

Using Web technology to improve efficiency

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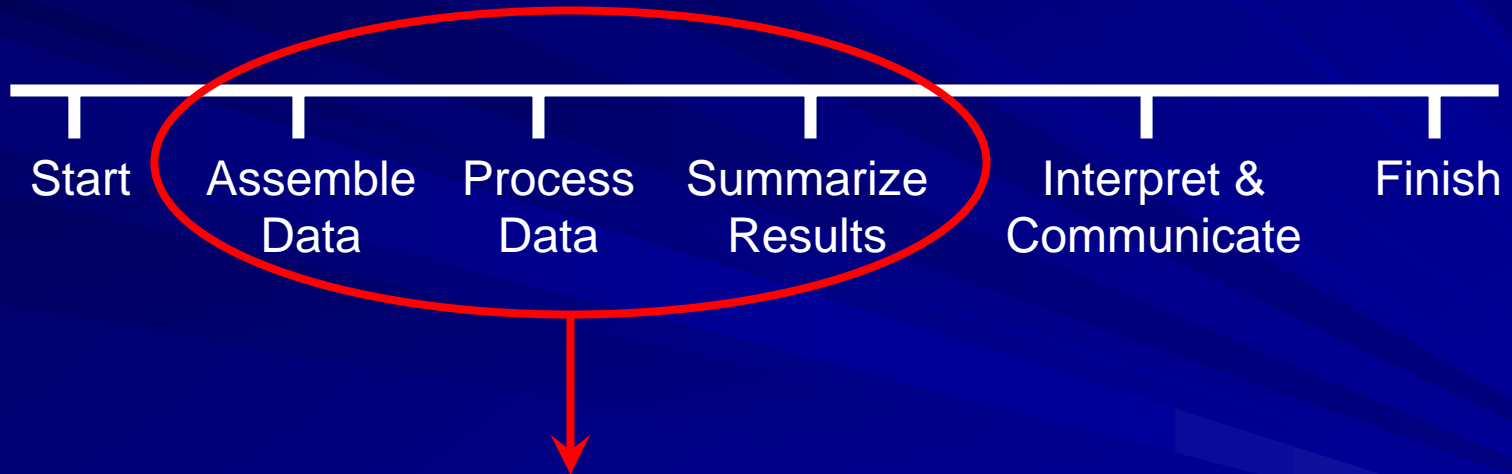
We'll Answer These Questions

- What is AirExplorer?
- What's it been used for?
- What have we gained?
- How are we extending this technology to improve efficiency in other areas?

What is AirExplorer

- Collection of web-based visualization tools for air quality analysts
- Automate routine work
- Extend to other analysts
- Developed and launched with no contract \$\$
- Publicly available for >1 year
- Internally owned – add/modify/delete as needed

Analysis Continuum



Basic concept is to minimize time spent on these steps

What's it been used for

- Explore patterns in PM2.5 speciation data
- Compare ozone levels in 2005 with levels in previous years
- Inform EPA's PM2.5 designation process
- Examine air quality in areas affected by fires and other episodic events
- Provide air quality information to USA Today
- Answer quick turnaround requests and provide context for other analyses

Demo

- AirExplorer

- <http://www.epa.gov/airexplorer>

What have we gained

- **Speed** - Ability to turn around information quickly
- **Extensibility** - Put that ability in other people's hands
- **Access** - Easy access to AQS data
- **Efficiency** – less time assembling data means more time to interpret, explain, share
- Supports two key parts of the **OAQPS Strategic Vision**
 - “A center of technical and analytical expertise in air quality issues”
 - “A reliable source for timely, high quality information on air pollution issues”

Extending to other areas

- **AirTrends** Web site
 - <http://staging.epa.gov/air/airtrends>
- Katrina tool
 - <http://staging.epa.gov/aqtagweb/katrina.html>
- Ozone tool
 - http://www.epa.gov/cgi-bin/htmSQL/mxplorer/plot_oz.hsql
- Trends tool
 - <http://staging.epa.gov/aqtagweb/maptrends.html>
- **AirCompare** – under development
 - Where to live question for air-related health concerns

Summary

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Contact Information

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