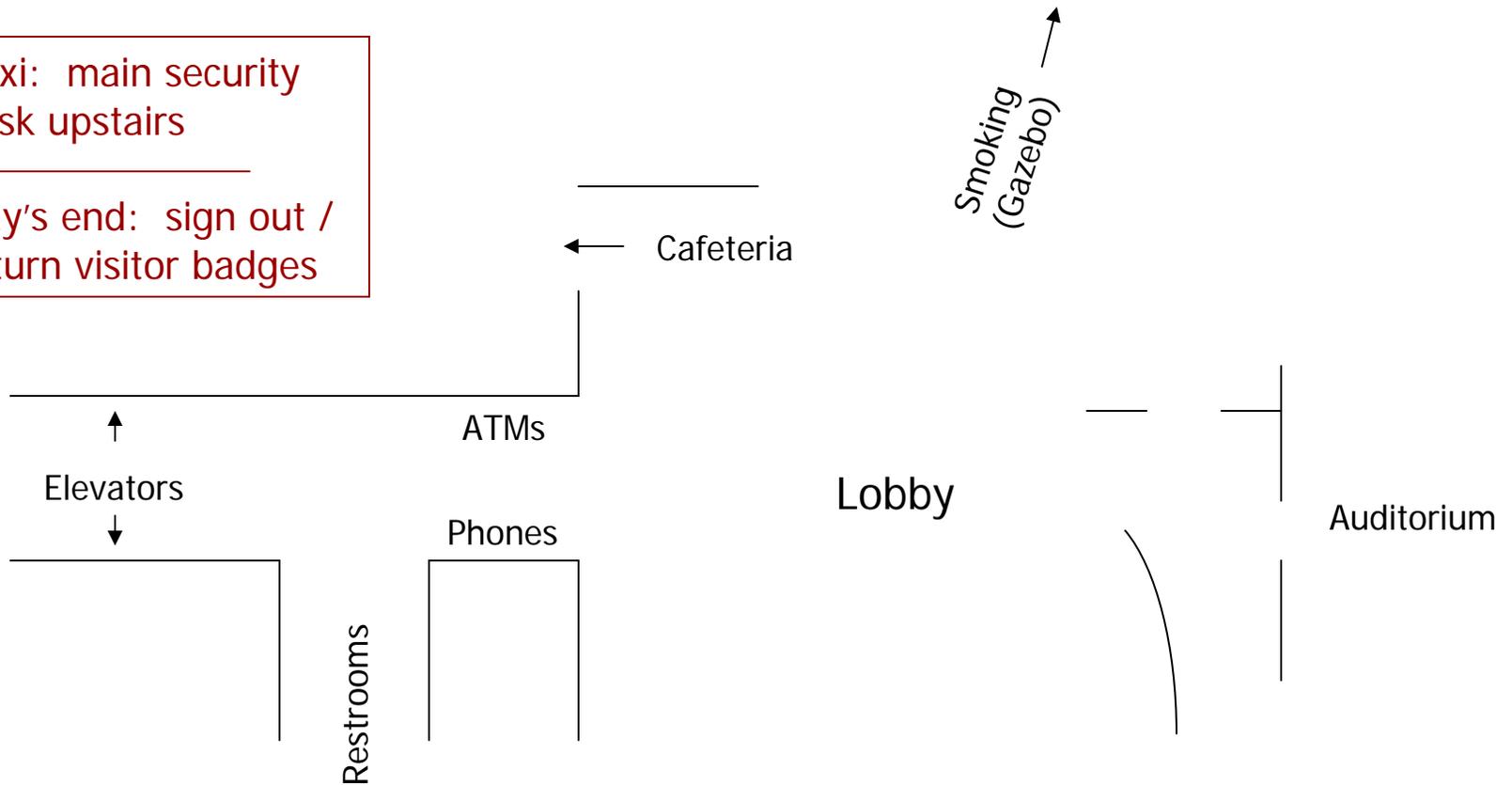


Air Toxics Data Analysis Workshop

Taxi: main security
desk upstairs

Day's end: sign out /
return visitor badges



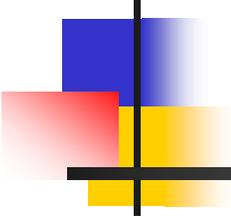
Tuesday, September 27

- 8:30 Opening Remarks (Phil Lorang, EPA/OAQPS)
- 8:40 Air Toxics Monitoring Program Overview (Mike Jones, EPA/OAQPS)
- 9:00 Air Toxics Program Manager's Perspective on Ambient Monitoring (Penny Lassiter, EPA/OAQPS)
- 9:30 Weekday/Weekend Differences of Toxic Air Pollutants in Houston, New York, and Philadelphia (Christian Seigneur and Betty Pun, AER)
- 10:15 Break
- 10:35 Evaluating HAP Trends: A Look at Emissions, Concentrations, and Regulation Analyses for Selected Metropolitan Statistical Areas (Regi Oommen, ERG)
- 11:15 Use of Air Toxics Data for Risk Assessment (Ken Mitchell, EPA/Region IV)
- 12:00 Lunch
- 1:00 Air Toxics Risk Characterization – St. Louis Community Air Project (Eric Giroir, MO DNR)
- 1:30 Toxicological Review of 2003 Air Toxics Data from Nashville TN MSA (Sanmi Areola, Nashville Metro Public Health Dept)
- 2:00 Air Toxics Monitoring in the Greater Cincinnati / Northern Kentucky Area: Focus on Traffic-Related Pollutants (Sergey Grinshpun, Univ. of Cincinnati)
- 2:30 Delaware Air Toxics Assessment Study (Joe Martini, DDEQ)
- 3:00 Break
- 3:20 Quality Assurance Update (Dennis Mikel, EPA/OAQPS)
- 4:00 Developments in Real Time, Trace Air Toxics Monitoring (Brian Gullett, EPA/ORD)
- 4:20 Monitoring Methods Update (Dennis Mikel, EPA/OAQPS)
- 4:40 Wrap-up / Action Items
- 4:50 Adjourn

Wednesday, September 28

- 8:30 Air Program Manager's Data Analysis Workgroup – Available / Proposed Guidance for Local-Scale Monitoring (Jaime Julian, EPA Region V)
- 8:50 Data Analysis Work Assignment Overview (Joe Touma, EPA/OAQPS)
- 9:20 Summary of Previous Data Analyses / Lessons Learned (Hilary Hafner, STI)
- 10:00 Break
- 10:20 Data Preparation (Mike McCarthy, STI)
- 10:45 Temporal Trends in Air Toxics: Diurnal, Seasonal, Annual (Hilary Hafner, STI)
- 11:45 Lunch
- 12:45 Spatial Variability in Air Toxics: Between and Within Cities (Mike McCarthy, STI)
- 1:40 Other Analyses: MACT, Inter-Pollutant Relationships, Meteorologically-Adjusted Trends (Mike McCarthy, STI)
- 2:30 Summary / Conclusions (Hilary Hafner, STI)
- 2:50 Break
- 3:10 Discussion – What Worked / Didn't Work / Next Steps
- 4:30 Wrap-up / Action Items
- 4:45 Adjourn

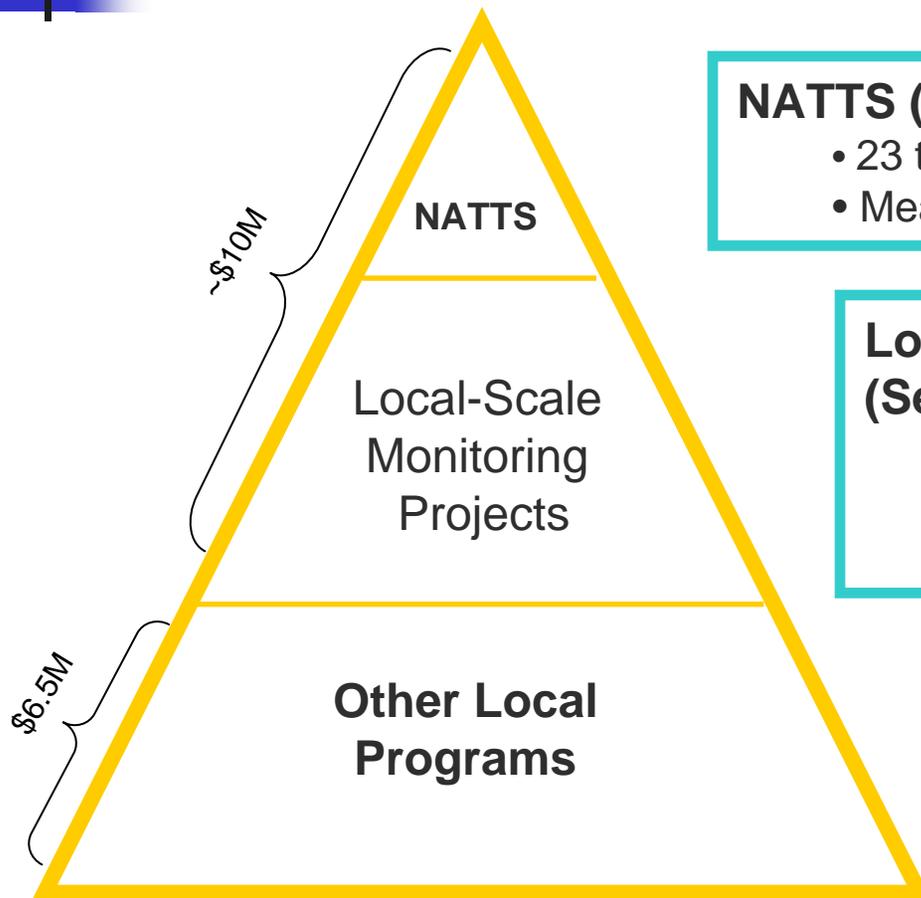
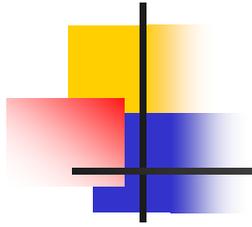
Overview: National Air Toxics Ambient Monitoring Program



Michael Jones, EPA/OAQPS

September 27, 2005

Ambient Monitoring Program Components



NATTS (Section 103)

- 23 trend sites
- Measure long term program progress

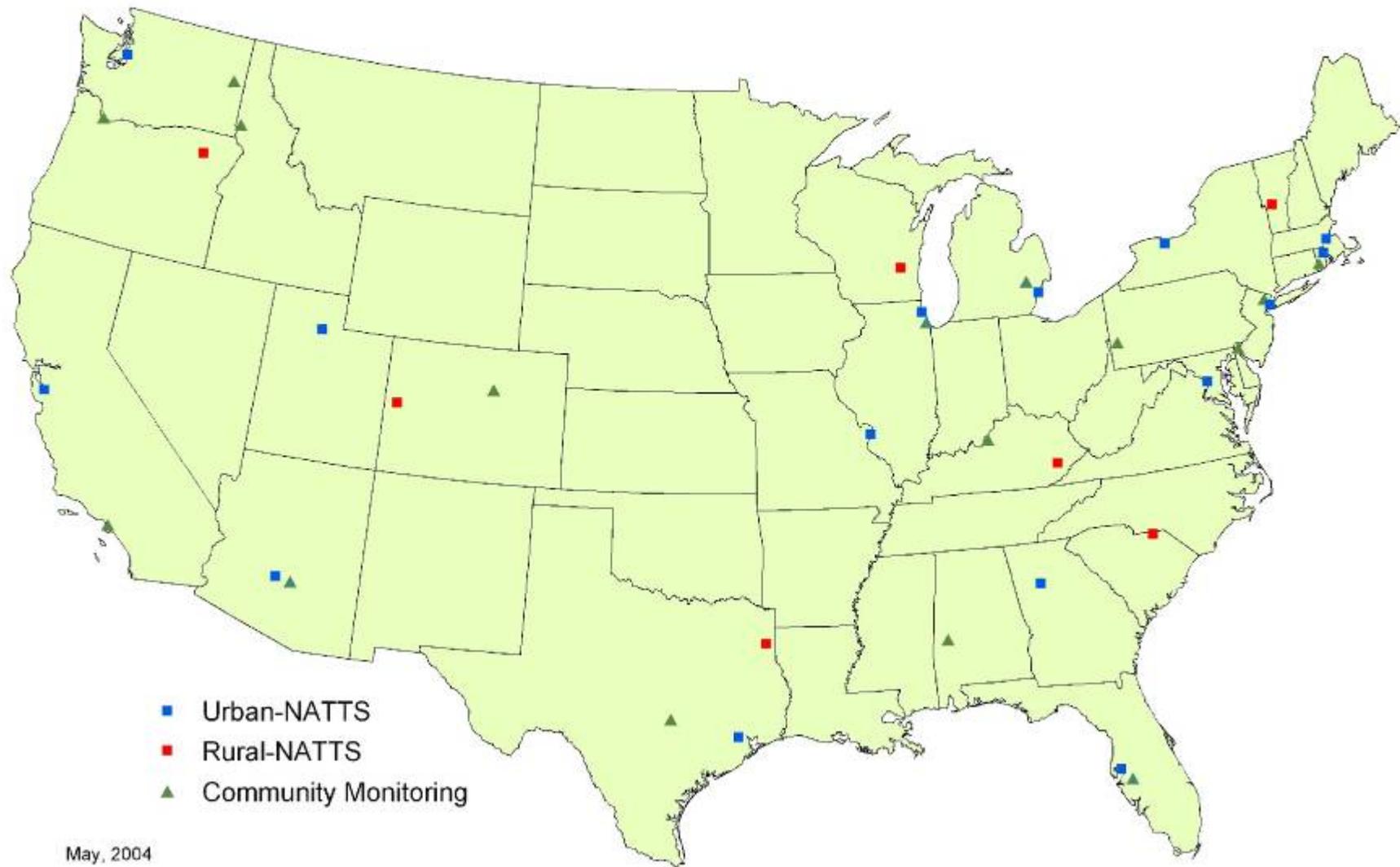
Local-Scale Monitoring Projects (Section 103)

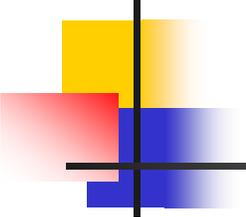
- Competitively awarded
- Limited duration
- Specific local-scale issues

Other Local programs (Section 105)

- S/L agency discretion

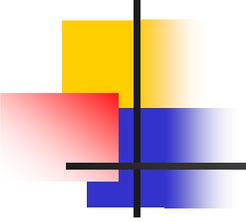
Air Toxics Monitoring Network





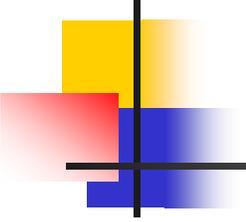
National Air Toxics Trend Station (NATTS) Network

- Limited data for 2003; first complete year 2004
- 103 Grant funds (noncompetitive, no matching required / greater accountability)
- 23 national air toxics trends sites; 17 urban / 6 rural
- Colocated with PM_{2.5} speciation samplers, some also with PAMS
- Focused on six priority pollutants (formaldehyde, arsenic, hexavalent chromium, benzene, 1,3 butadiene, acrolein) + light absorbing carbon
- Provide core accountability measurements over time
- All sites follow QA program for sampling / siting
- Periodic refinement of pollutants / sampling
- Evaluate every 6 years



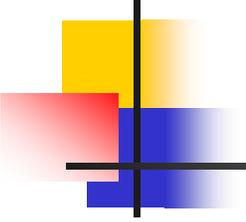
Local-Scale Monitoring Projects (1 of 2)

- 103 Grant Funds
- Middle and Neighborhood scale (.5km to 4 km) air quality impacts from toxics that are not adequately detected at NATTS
- 10 to 20 projects are expected to be funded each year in different locations
- Selected through open competition process
- FY2004 – \$6.2 Million
 - ✓ 16 sites recommended for award from 49 proposals
 - ✓ Open competition following set criteria, also project types and regional considerations in selection process
 - ✓ All projects underway as of Jan 2005



Local-Scale Monitoring Projects (2 of 2)

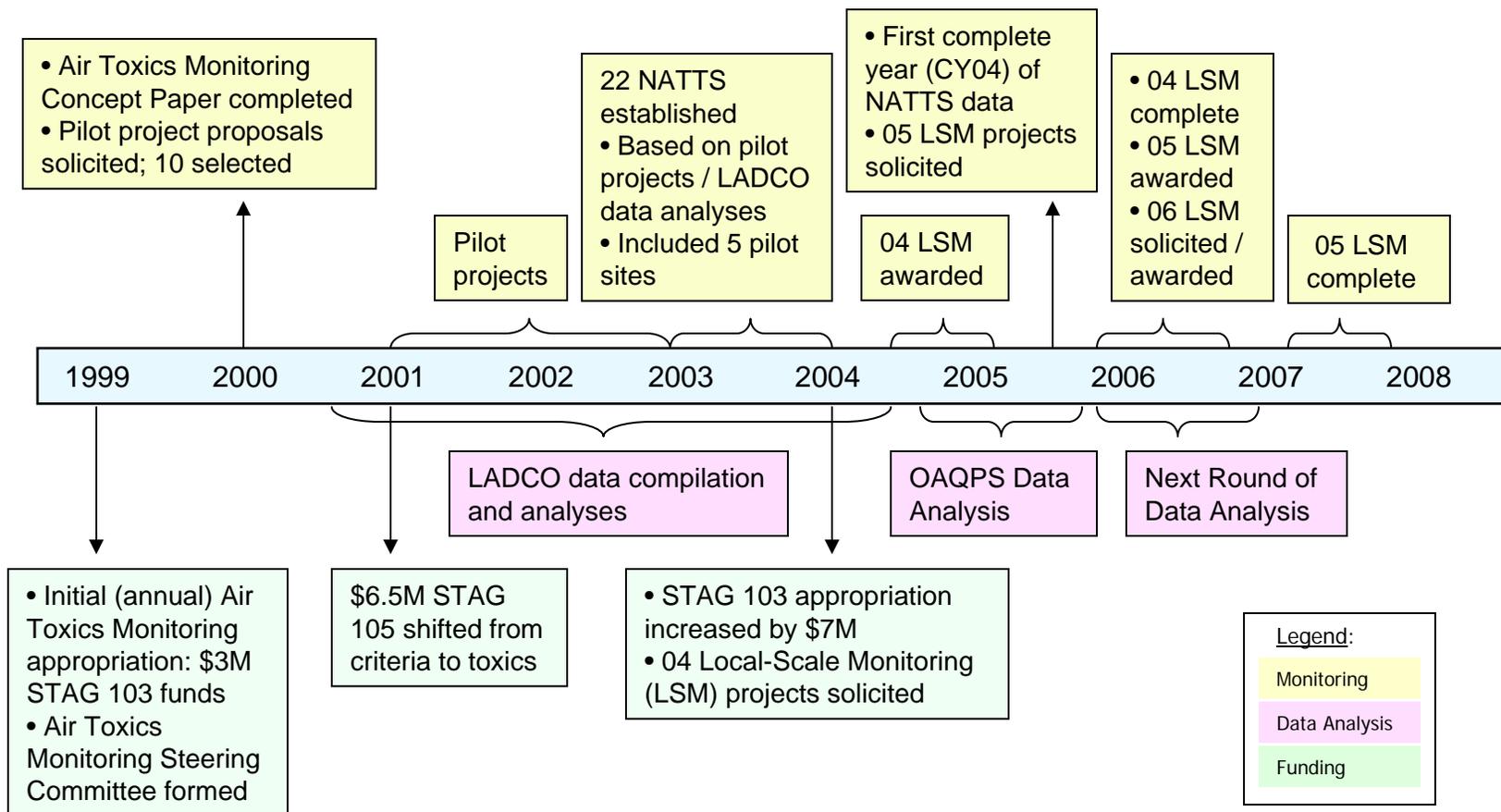
- FY2005 ~ \$6.3 Million
 - ✓ Solicitation posted June 22, 2005
 - ✓ Applications due NLT August 22, 2005
 - ✓ Awards anticipated during first quarter FY06
- Revised approach (reflects S/L input)
 - ✓ Reduced emphasis on community-scale assessments
 - ✓ Increased emphasis on source characterization and monitoring methods development
- FY2006: further revisions possible based on
 - ✓ FY2005 proposals
 - ✓ Continued S/L input

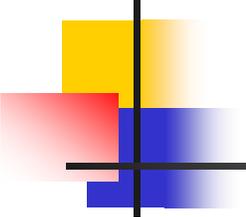


Other Local Programs

- \$6.5 Million annually
- Highly flexible monitoring that enables State / local agencies to address specific concerns
 - ✓ Hot spots
 - ✓ EJ
 - ✓ Public complaints
- Flexibility accompanied by matching funding requirements
- Funds disbursed to States by EPA Regions
- Use of funds / results generally not tracked by OAQPS
 - ✓ Exception: local sites using Urban Air Toxics Monitoring Program (UATMP)

Air Toxics Monitoring Timeline

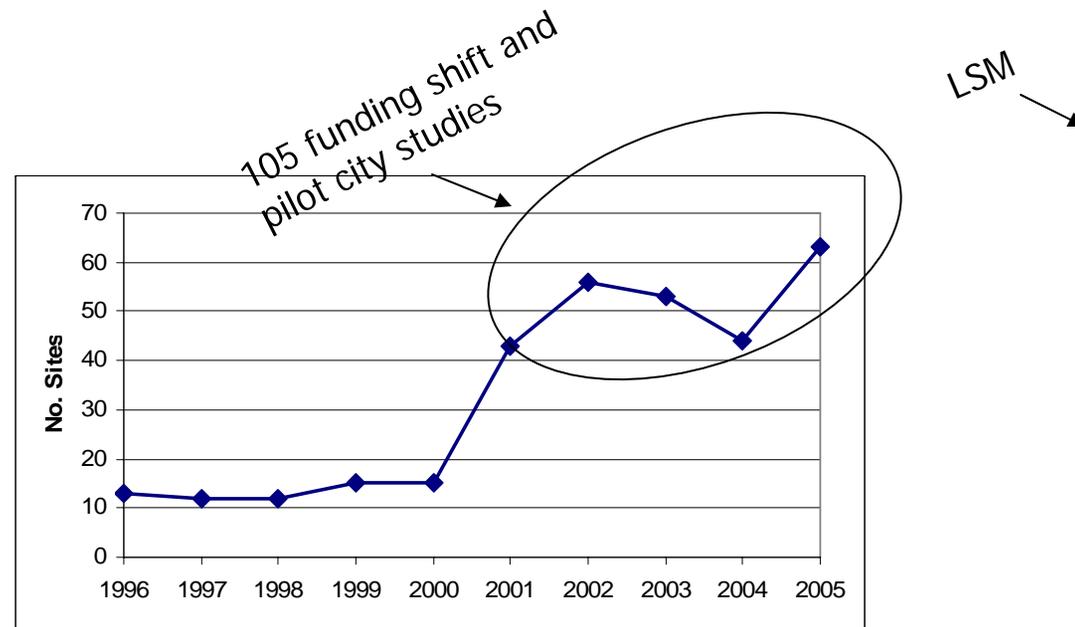
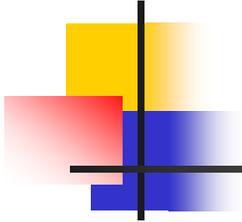




Urban Air Toxics Monitoring Program (UATMP)

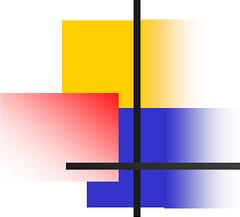
- Analytical lab services contract (1987-present)
 - ✓ Centrally managed (OAQPS/EMAD)
 - ✓ Available but not mandatory
 - ✓ Used by some NATTS, some LSM, and some 105-funded air toxics monitoring sites
 - ✓ Benefits
 - Includes data entry into AQS
 - Assures lab analysis consistency
 - ✓ Used by some NATTS, some LSM, and some 105-funded
- Many monitoring agencies choose to use State / local labs instead

UATMP Participation Over Past 10 Years



UATMP Sites: 2004





Other

- QA, Methods
 - ✓ Presentations this afternoon
- Data Analysis
 - ✓ Focus of this workshop... *ENJOY!*