



EMDQ Workshop
Standardizing, Consolidating and
Improving Air Quality Data in the Air Force
March 31, 2011



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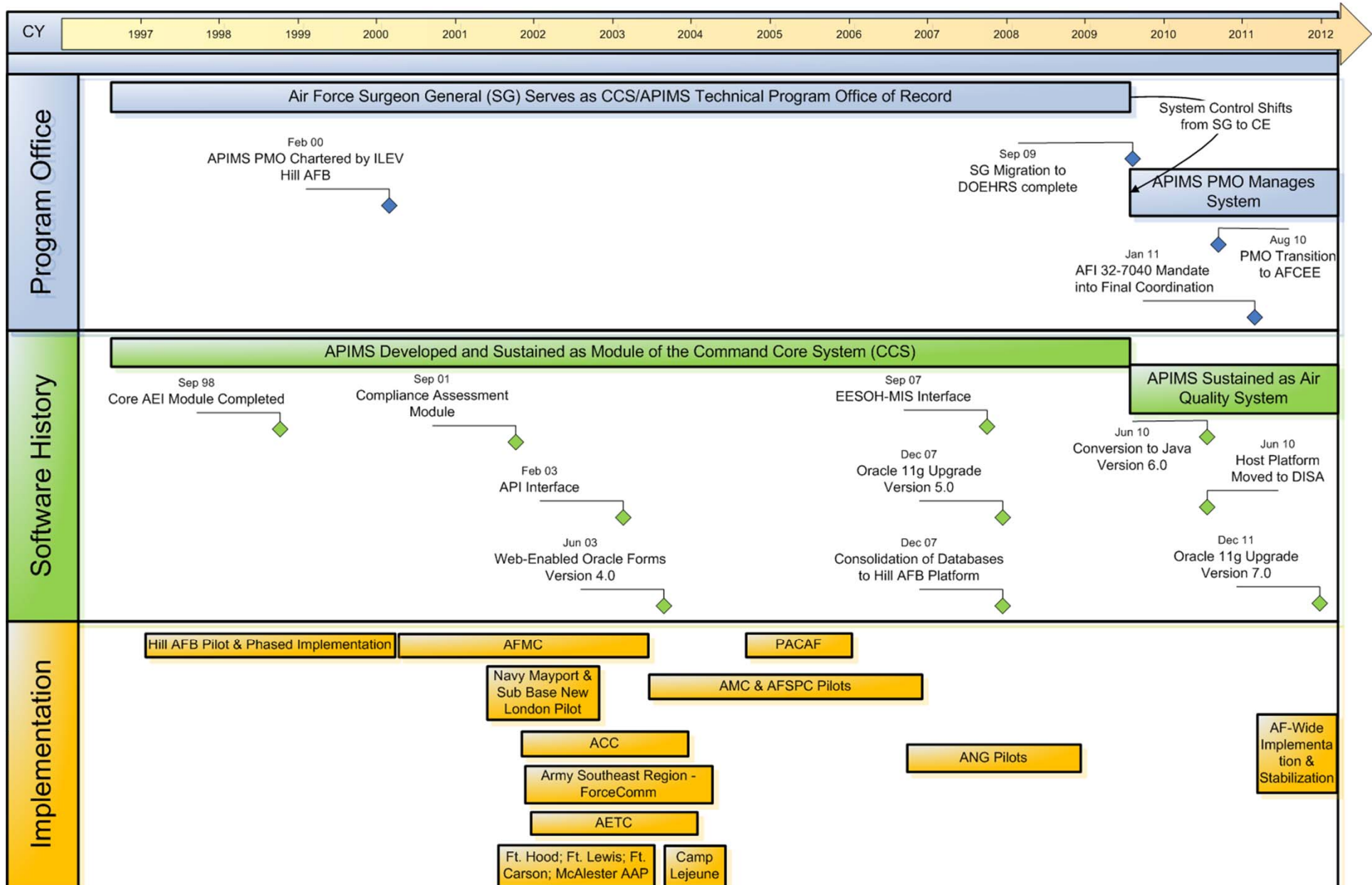
What is APIMS?

- ▶ Air Program Information Management System
 - Comprehensive Air Quality management database
- ▶ Owned by the Air Force
 - Available to all DoD installations
- ▶ Supports requirements of *AFI 32-7040 Air Quality Compliance and Resource Management*
- ▶ Used to drive use of standard calculation methods
 - AFCEE AEI guidance documents
 - AP-42 emission factors



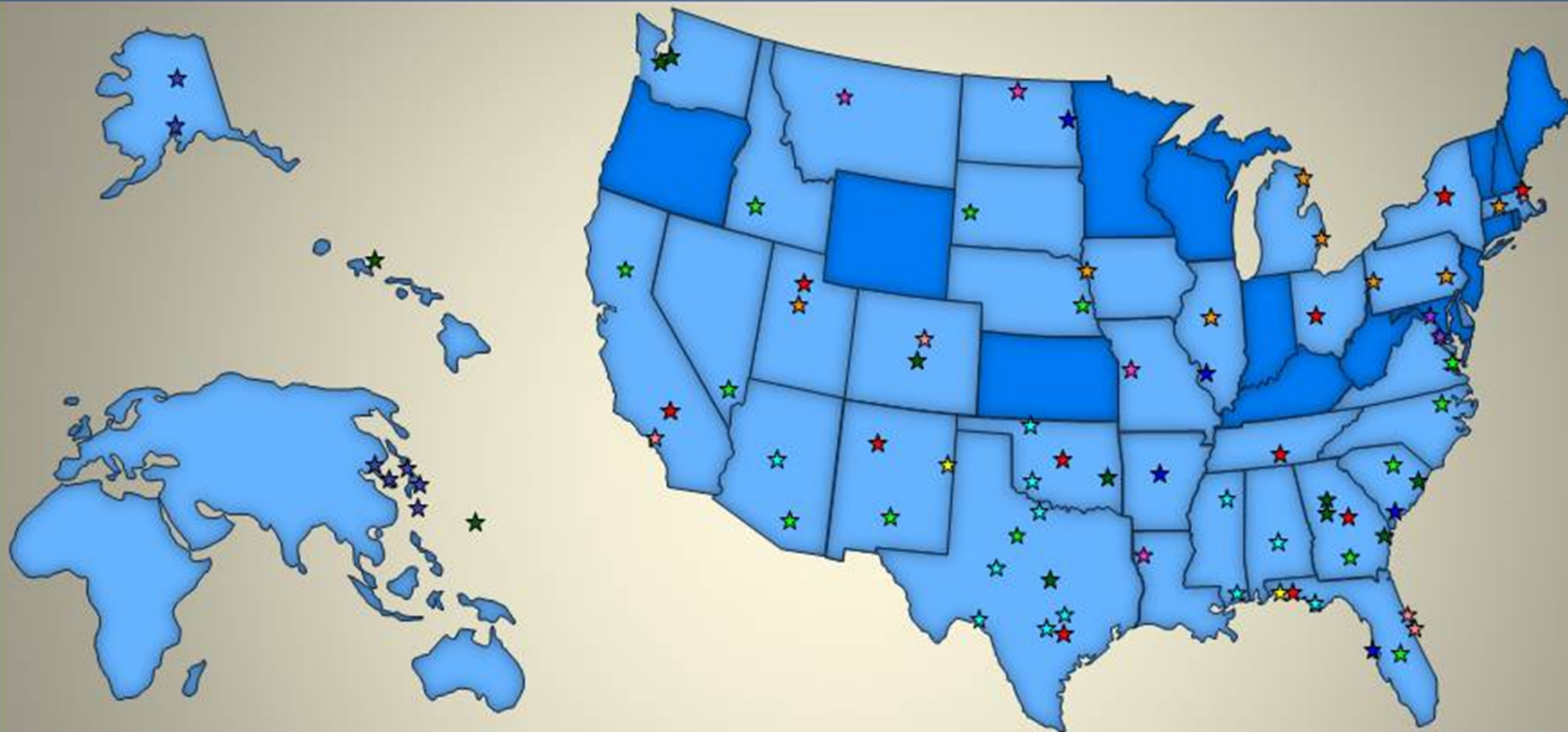


History of APIMS





User Community (DoD)



★ PACAF	★ ACC	★ AETC	★ AFMC	★ ANG	★ AFSPC	★ AMC	★ AFDW	★ Non Air Force
Eielson AFB	Avon Park AFB	Altus AFB	Arnold AFB	Alpena ANG	Buckley AFB	J.B. Charleston	Andrews AFB	J.B. Lewis-McChord
J.B. Elmendorf-Richardson	Beale AFB	Columbus AFB	Brooks City Base	Barnes ANG	Cape Canaveral	Grand Forks AFB	Bolling AFB	Ft Hood
Kadena AFB	Davis-Monthan AFB	Goodfellow AFB	Edwards AFB	Peoria ANG	Los Angeles AFB	Little Rock AFB		McAlester AAP
Kunsan AFB	Dyess AFB	Keesler AFB	Eglin AFB	Pittsburgh ANG	Patrick AFB	MacDill AFB	★ AFSOC	Ft McPherson
Misawa AFB	Ellsworth AFB	Lackland AFB	Hanscom AFB	Selfridge ANG		Scott AFB	Cannon AFB	Ft Stewart
Osan AFB	Holloman AFB	Laughlin AFB	Hill AFB	Sioux City ANG			Hurlburt Field	Ft Carson
Yokota AFB	Langley AFB	Luke AFB	Kirtland AFB	Salt Lake City ANG		★ AFGSC		Camp Lejeune
	Moody AFB	Maxwell AFB	Robins AFB	Willow Grove ANG		Barksdale AFB		Ft Gillem
	Mountain Home AFB	Randolph AFB	Rome Labs			Malmstrom AFB		McChord
	Nellis AFB	Sheppard AFB	Tinker AFB			Whiteman AFB		Hickam
	Offutt AFB	Tyndall AFB	Wright-Patterson AFB			Minot AFB		Andersen
	Seymour Johnson AFB	Vance AFB						
	Shaw AFB							



Why APIMS?

- ▶ **Data Consolidation**
 - 200+ different AEI formats being condensed to a single electronic format
- ▶ **Data Standardization**
 - Facilitates data rollups & simplifies data calls
 - Drives uniformity in calculation methodologies
- ▶ **Improving Data Quality**
 - Single data standards repository
 - Fewer errors





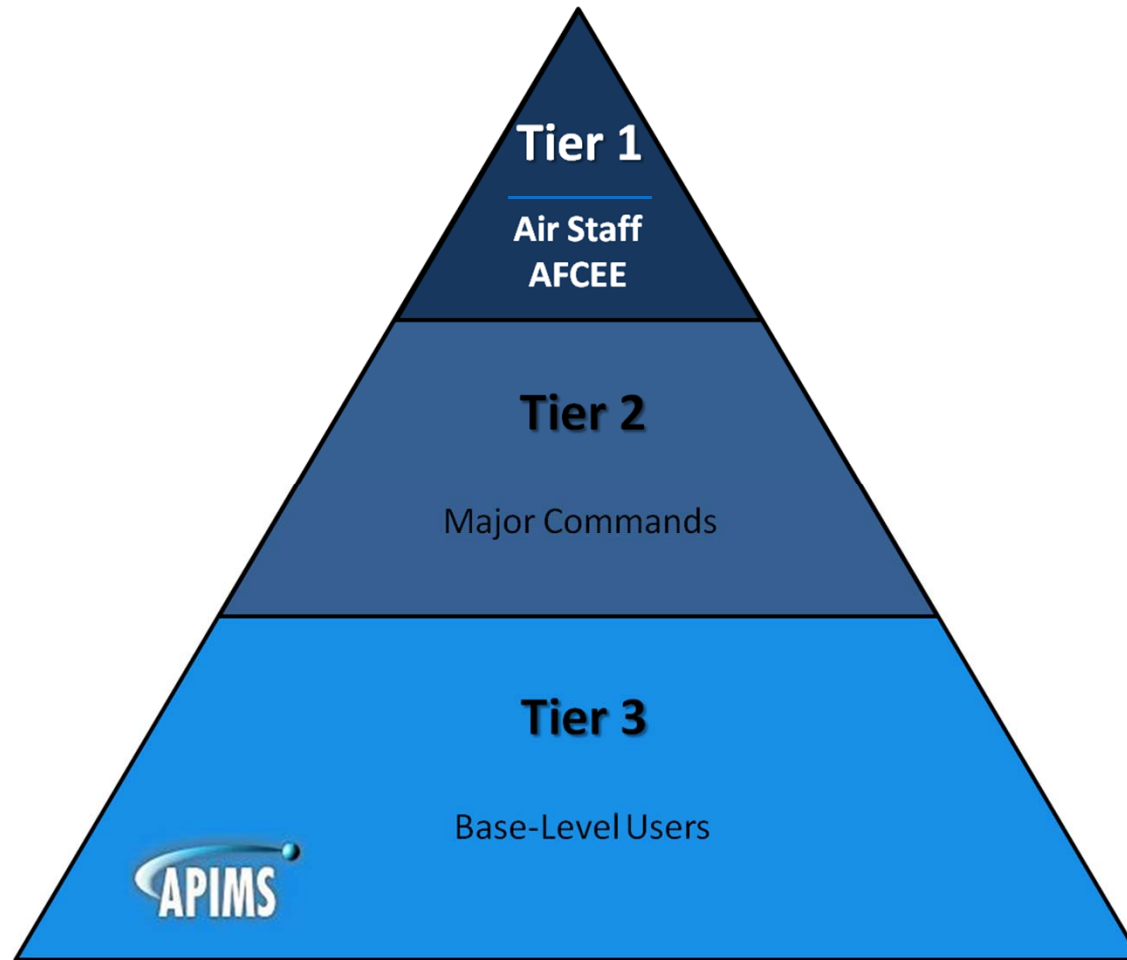
Why APIMS?

- ▶ Web-based, centrally hosted and easily accessible
- ▶ Only Air Quality compliance system that satisfies DoD/AF cyber security requirements
- ▶ Meets requirements of all tiers of the Air Force enterprise
- ▶ Funding constraints
 - Development/maintenance of redundant IT systems too expensive
 - simplifies generation of AElS & reduces cost





Multi-Tier Enterprise System Stakeholders





Supports Base Requirements

▶ Air Emissions Calculations

- Stationary Source Inventories
- Mobile source inventories
- Potential to Emit (PTE) calculations
- Compatibility with State reporting systems
- EPA Tanks 4.09D integrated & simplified

▶ Greenhouse Gas Management

- Executive Order 13514
- Mandatory Reporting Rule
 - Capability to export to EPA e-GGRT database planned

▶ Permit Management

- Upload copies of permits
- Documentation of permit conditions/requirements





Supports Base Requirements

- ▶ **Compliance Checking & Corrective Action**
 - Checklist & inspection result management
 - Corrective action tracking
- ▶ **Workbasket / Workflow**
 - Task scheduling & reminders
 - Compliance notifications
- ▶ **Ozone Depleting Chemical (ODC) Management**
 - Refrigerant compliance (40 CFR Part 82)
- ▶ **Record Repository**
 - Upload and store any image or compliance document
- ▶ **Quantitative Compliance**
 - Rolling totals (hourly/daily/monthly/yearly)
 - Material and emission limits vs. permit limits





Supports Base Requirements

- ▶ **Interfaces with EESOH–MIS**
 - Automates transfer of hazardous material and usage data (20,000 –300,000 records per year)
- ▶ **Pre-loaded, Stewarded & Standardized Calculation Data Set (>30,000 records)**
 - Source categories/algorithms/emission factors
 - Ability to create custom calculation methodologies
- ▶ **Reduced data call burden**
 - Data readily available to upper tiers of the enterprise



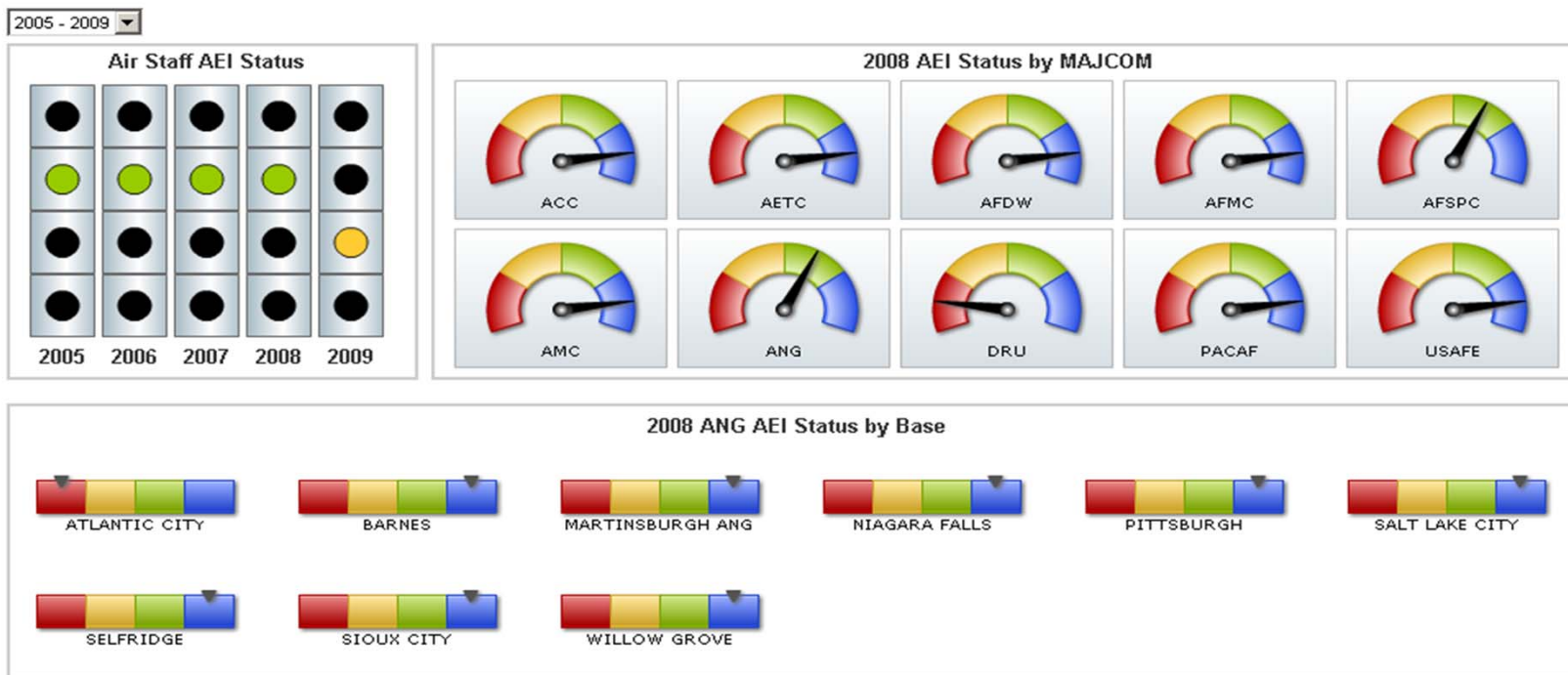
Enterprise Management Features

- ▶ Single Repository for Air Quality Data
- ▶ Attainment status visibility
- ▶ Instant access to permit information
- ▶ Use of emission calculation standards drives data uniformity and accuracy



Enterprise Management Features

- Online submittal of AEI for enterprise review



Report Submissions

5 records found.

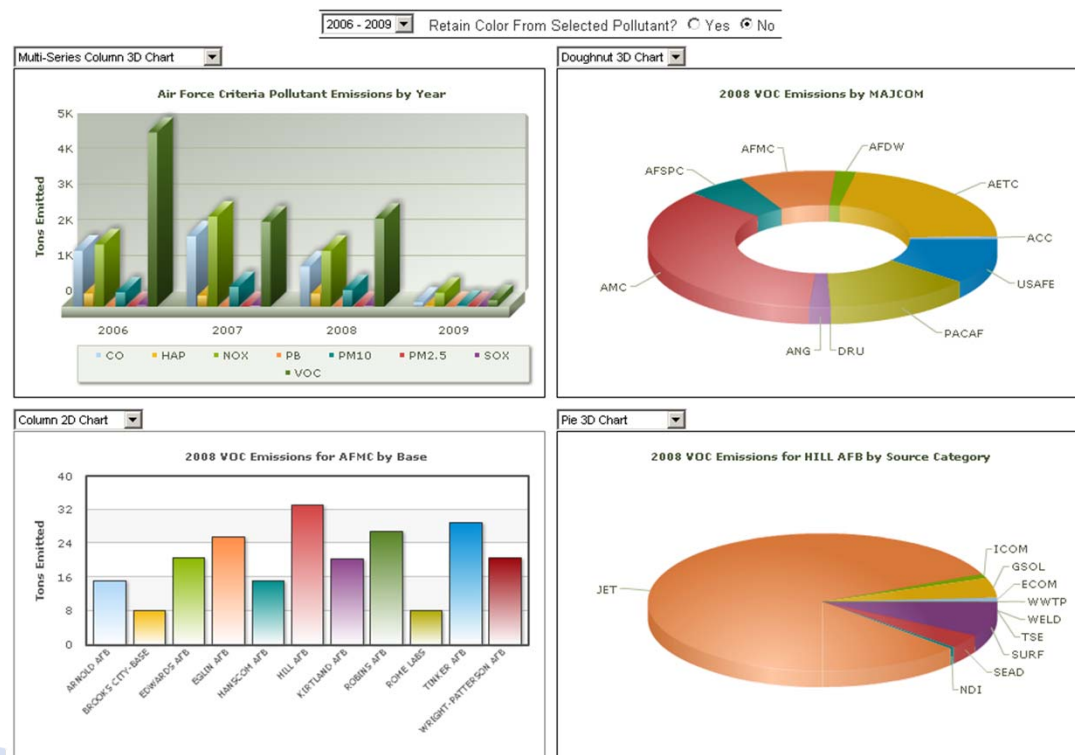
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	2009	ARNOLD AFB	JULIE WALLACE
	2009	HILL AFB	MEGAN EVANS
	2009	LITTLE ROCK AFB	Ronnie L Shaw
	2009	ROME LABS	Jaclyn Karam





Enterprise Management Features

- ▶ Real-time data visibility & trend analysis
- ▶ Drill-down enterprise data rollups





Lessons Learned

- ▶ Optional use of an enterprise solution = inconsistent use
 - Many users reverted back to historical nonstandard data management methods
- ▶ Adequate system sustainment budget needed to keep system viable
 - Keep up with current technologies or users grow restless
 - Make software changes to meet evolving requirements
- ▶ Provide users with bulk data loading capabilities
 - Application Program Interface (API)
- ▶ Reduce duplicate data entry – deploy to shop floor
 - Let shops enter their own emission source throughput data
 - Air Quality manager validates before use



User Support Services

- ▶ Help Desk
 - ▶ (800) 274-4406 or apims@ngc.com
 - ▶ Available 7:00 AM – 6:00 PM Central
- ▶ Ad-hoc reporting Support
 - ▶ Call help desk for custom reporting support or
 - ▶ Write your own reports using Oracle Discoverer
- ▶ Training
 - ▶ Beginner training 3-day hands-on course at PMO office
 - ▶ Training guides available for download in APIMS
 - ▶ Monthly refresher webinars
- ▶ Technical Advisory Group (TAG) participation
- ▶ Software upgrades
 - ▶ Including user-submitted change requests





Future of APIMS

- ▶ Use of APIMS to be mandated by AFI 32-7040
 - Revision in final coordination
- ▶ Complete Air Force-wide implementation
- ▶ CAA section 118 compliance
 - Self certification of emissions certificate for POVs
- ▶ Defense Environmental Programs Annual Report to Congress (DEP ARC) reporting
 - Proof of concept for Air Quality in work
- ▶ Improve data standards maintenance capability
 - Consolidate duplicate data sets to a single set





APIMS PMO POCs

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Questions???

