



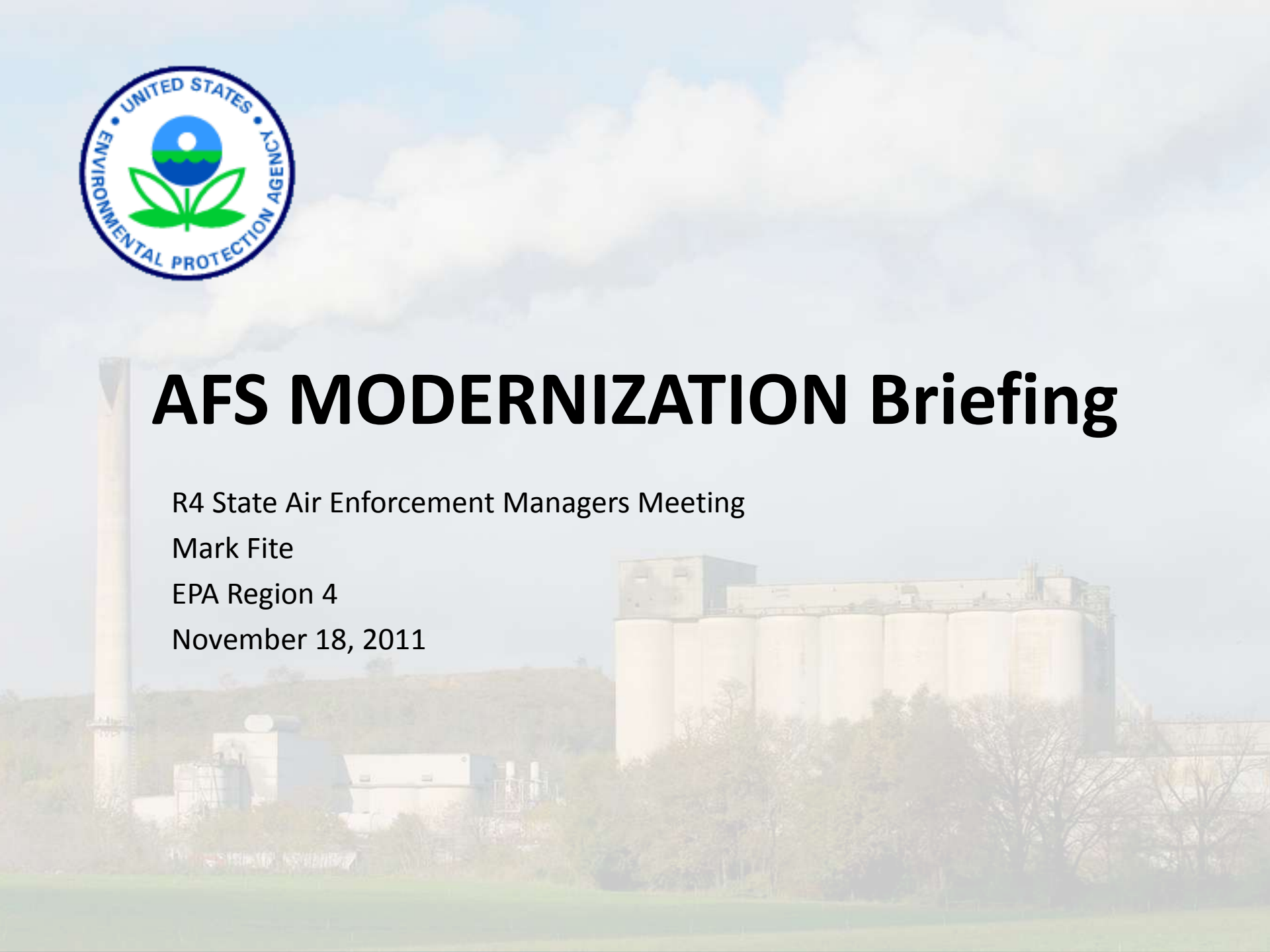
AFS MODERNIZATION Briefing

R4 State Air Enforcement Managers Meeting

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EPA Region 4

November 18, 2011



AFS in the Past

- One of three subsystems of the OAR 1990 Aerometric Information Retrieval System (AIRS). Emission inventories, compliance monitoring /enforcement, and ambient air data were in one database.
- Compliance monitoring, enforcement and limited permit data was moved to OECA in 1999, as OAR modernized the AIRS ambient air (AQS) and emissions inventory subsystems (EIS)
- Entered OECA's modernization plans in 2000 as ICIS phase III .

AFS Today

- Data flow is supported by Information Collection Request (ICR), which is currently pending renewal, with no major issues.
- 99 state/local/territorial/tribal agencies report, most via batch file submittal.
- AFS provides information on a universe of 40,067 major and synthetic minor sources across the country (20% in Region 4)
- FY11 provides the first substantial allocation of funding for AFS modernization.

Why Modernize AFS?

- Does **not** support current Agency goals and direction:
 - Increasing Transparency
 - National Enforcement Initiatives
 - Electronic Reporting from Sources
 - State/EPA data standards for exchange of information
- Does **not** support Programs, Policies & today's business practices:
 - Title V permit data & annual certifications
 - Tracking of Environmental Benefits/Pollution Reductions
 - Emissions tracking (e.g., EER, CEMS)
 - Data Integration
- Technologically obsolete
- Dual Data Entry of federal information (AFS and ICIS)
- States/Locals, NACAA and NESCAUM support the need to modernize

Vision for Future AFS

- Supports CAA enforcement goals & business needs
- Utilizes modern Web technologies & technical tools
- Improves data sharing with States and other partners
- Increases transparency and accountability of federal and state agencies and facilities
- Reduces burden Regions, states and local agencies
- Ensures complete, accurate and timely data for targeting, program management, and oversight
- Supports electronic reporting by facilities

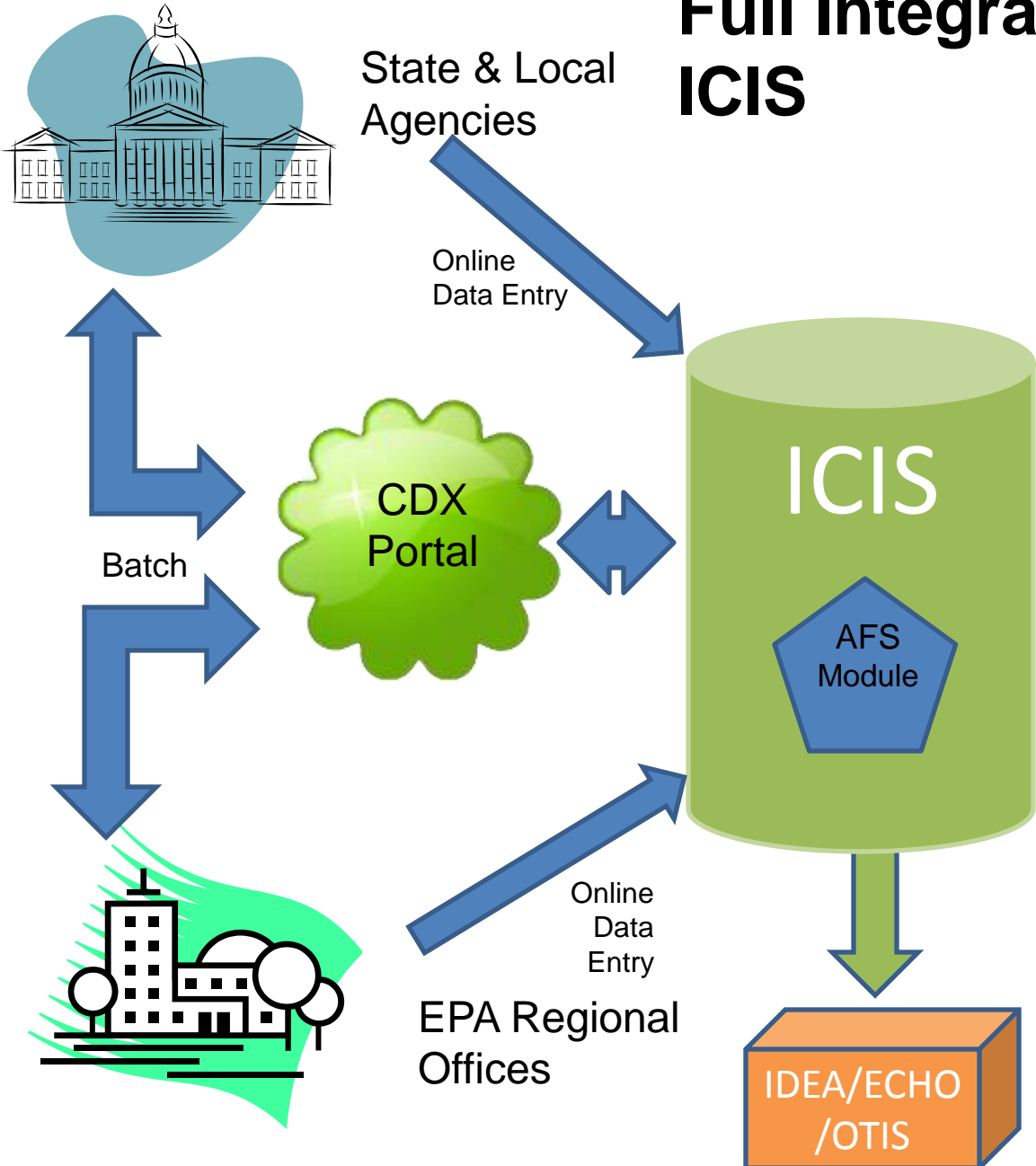
Progress to Date

- **Fulfilled Agency & OMB-mandated Preparatory Steps**
 - Needs Analysis (2002 and 2008)
 - Business Case Analysis (2008)
 - Alternative Analysis (2010)
- **Consulted Extensively with EPA/State/Local Stakeholders**
 - AFS Modernization Workgroup (2004-2007)
 - AFS Monthly Webinars and National Meetings
 - NACAA Webinars
 - NESCAUM Discussions
- **Additional Analysis and Consultation (2011)**
 - AFS Modernization High Level Design Issues Paper
 - OEI Review of AFS Alternative Analysis
 - Consultation with Gartner, an IT Think Tank
 - Consultations with staff from OAR and OEI

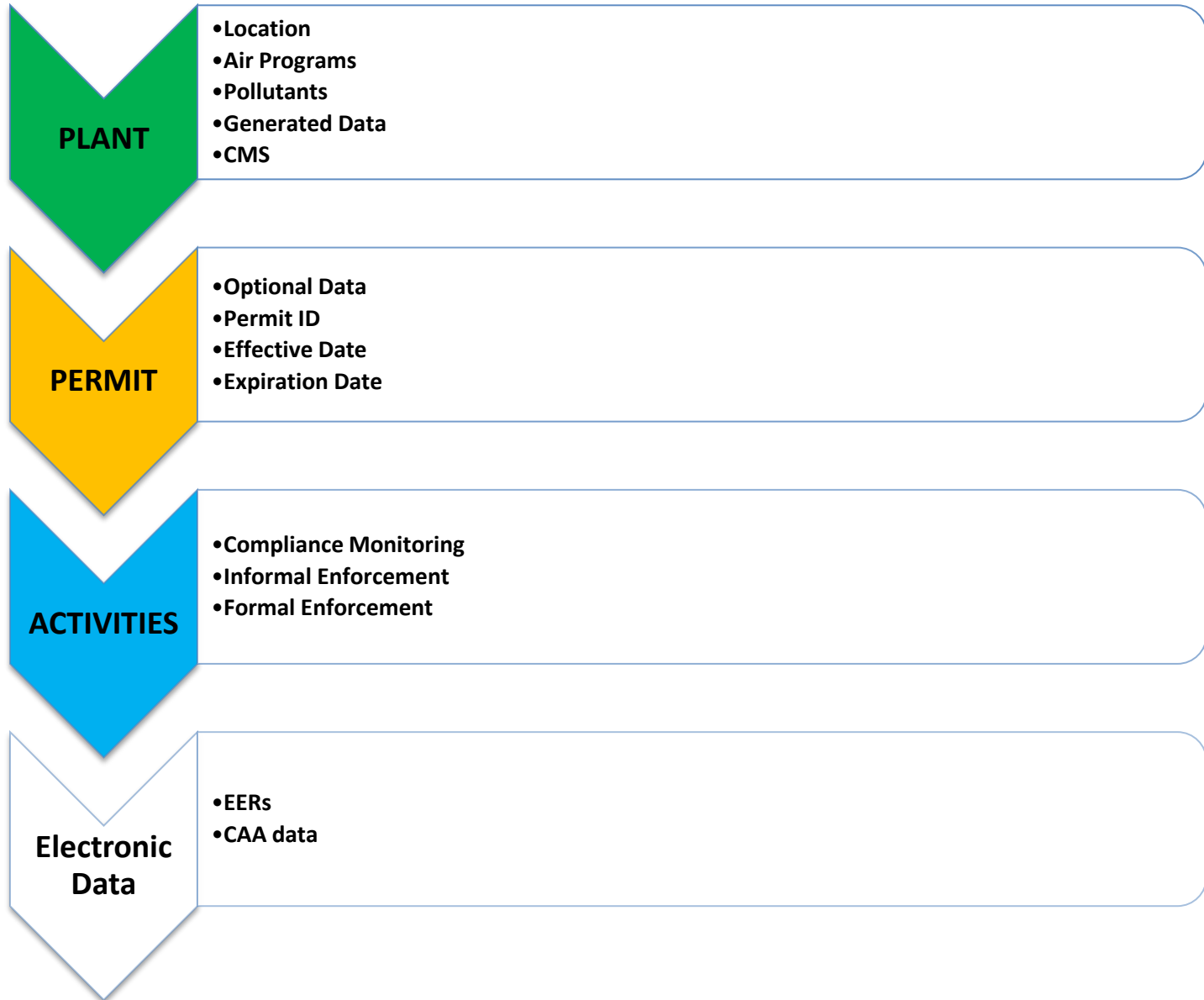
Modernization Analysis & Decision

- **Alternatives considered are distinguished by two development approaches:**
 - A stand-alone or combined system external to ICIS
 - A combined system with ICIS
- **The ICIS alternative was determined to be both quantitatively and qualitatively preferable to the other viable alternatives**
- **Senior Level Management in OECA, OAR, OEI, and OCFO agreed with OECA's recommendation to modernize AFS via integration with ICIS**

Full Integration of AFS with ICIS

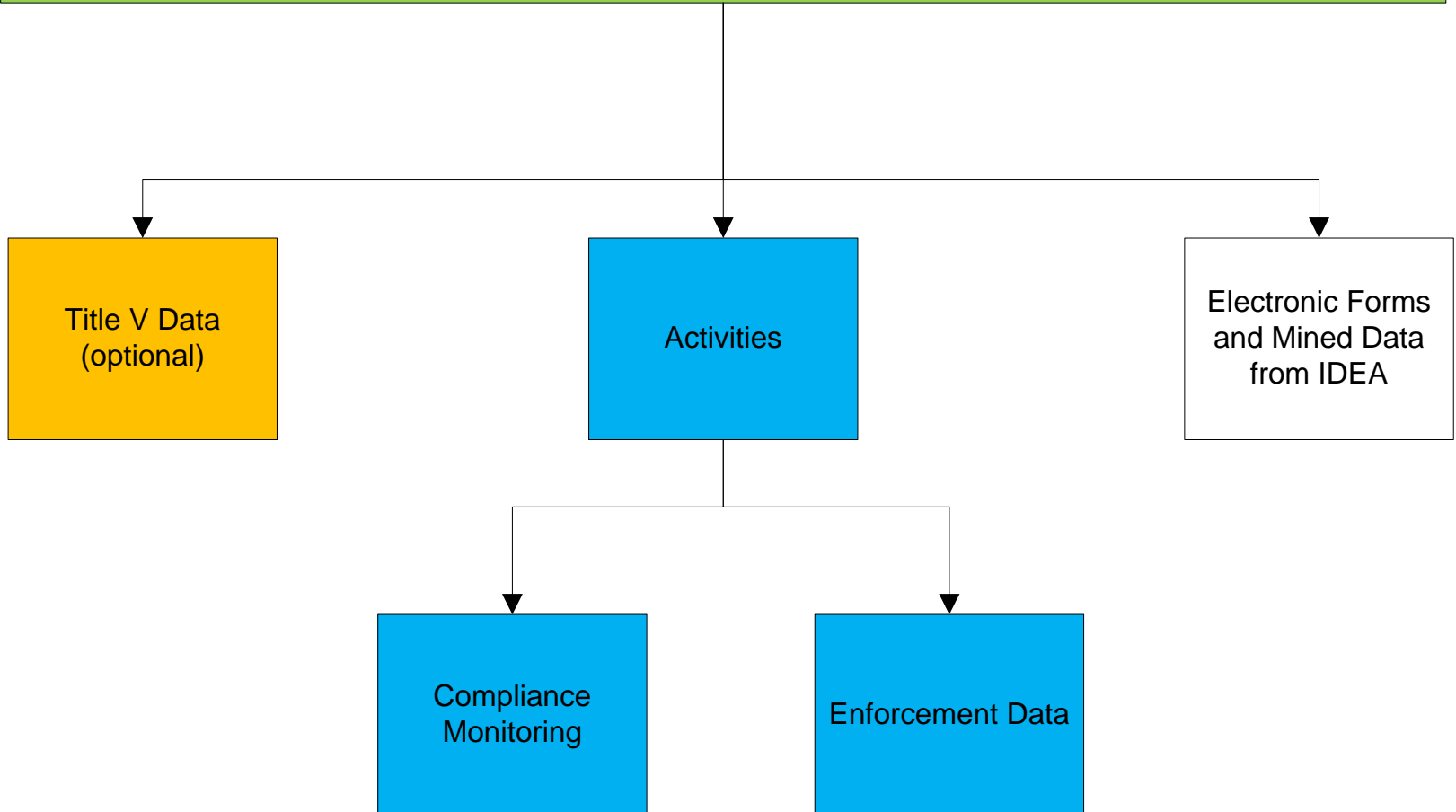


Proposed System Structure

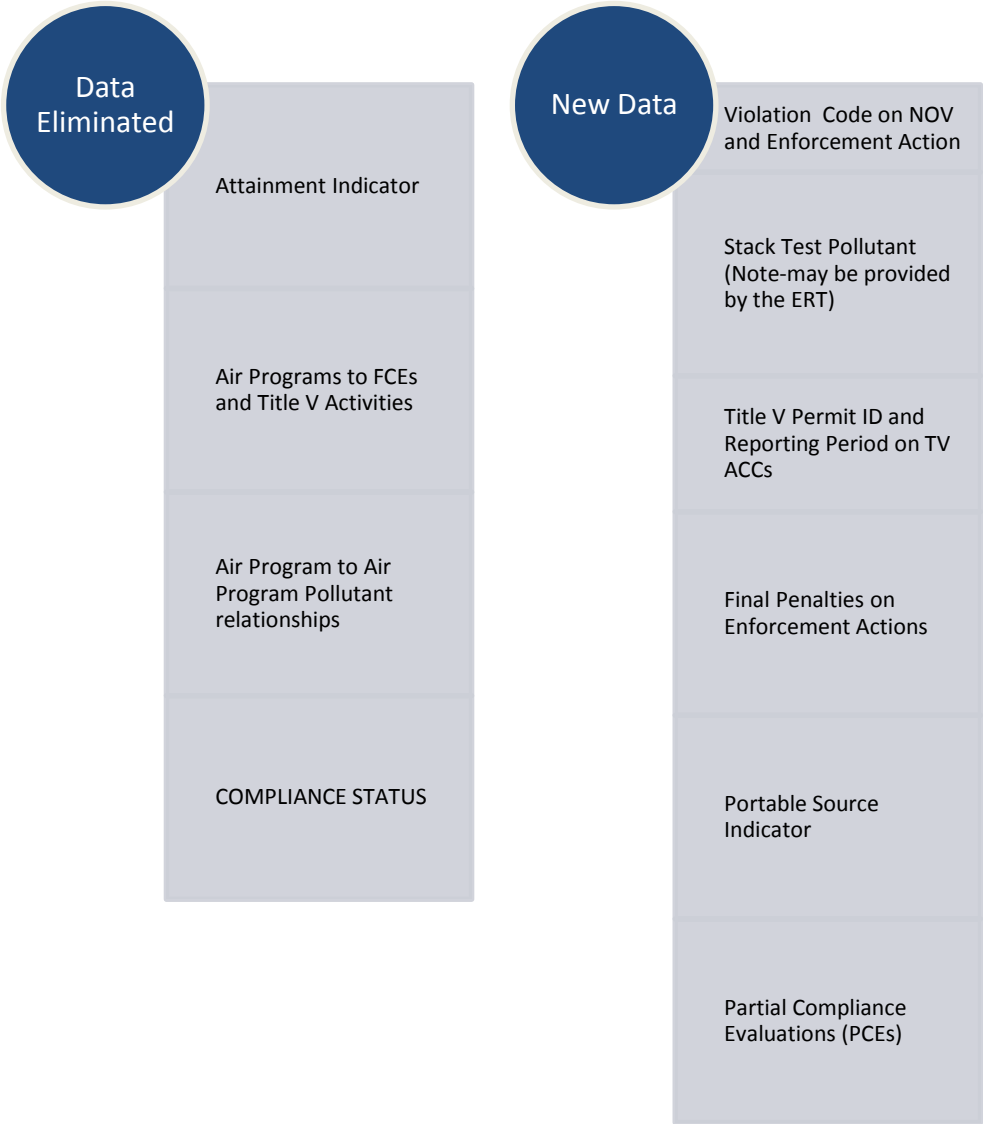


PLANT GENERAL

Basic source information such as state, address, Local Control Agency, Portable Source Indicator, applicable Air Programs, applicable Pollutants, Compliance Monitoring Strategy (CMS), default values of Classification, flags and other generated values



Synopsis of Changes to MDRs



AFS Modernization Timeline

Schedule contingent on funding

- **Ongoing**
 - Project Planning
- **FY 2012 and FY 2013**
 - Finalize Requirements
 - Design
 - Integrated Project Team to support Screen Design
 - Data Flows (including Data Base Changes, Flow Process, and Business Rule Design)
- **FY 2013**
 - Software Development
- **FY 2014**
 - Testing (including User Acceptance)
 - Implementation
- **FY 2015**
 - Retire AFS

Opportunities for State & Local Involvement

- Senior Executive Council Charter: Composed of AAs
- Senior Management Steering Group: Division level participants, open to 4-6 state or local agencies
- Modernization Workgroup: Open to all volunteers; review deliverables and provide input to EPA
 - Several R4 Programs already serving:
 - Michael Pjetraj & Bernard McKee, NC; Steve McDaniel, Knox County; Sara Fenzel, SC; Kayra Johnson, MS; Christy Monk, AL

Update on AFS ICR

- Comment Period Closed
- Awaiting OMB approval
- To see the AFS ICR:
 - Go to www.regulations.gov
 - Enter Keyword
EPA-HQ-OECA-2010-0777
 - Review the Supporting Statement
 - Review other comments