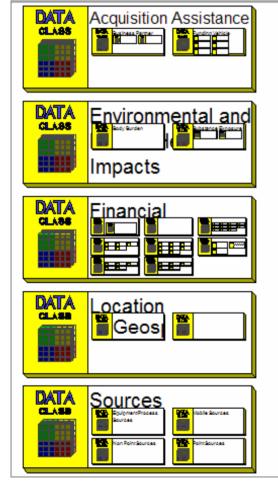
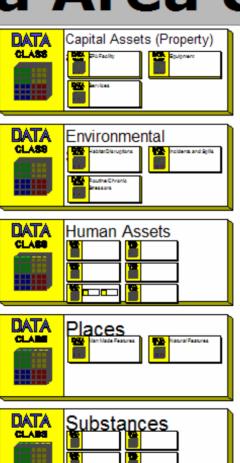
Completion Capability Area: Data Architecture
Level: 1 Practices: EPA Data Areas & Classes

EPA Data Area & Classes

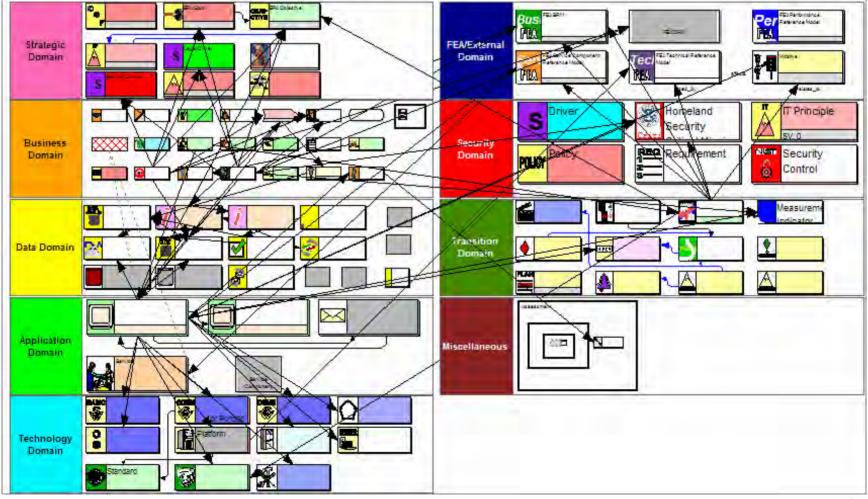




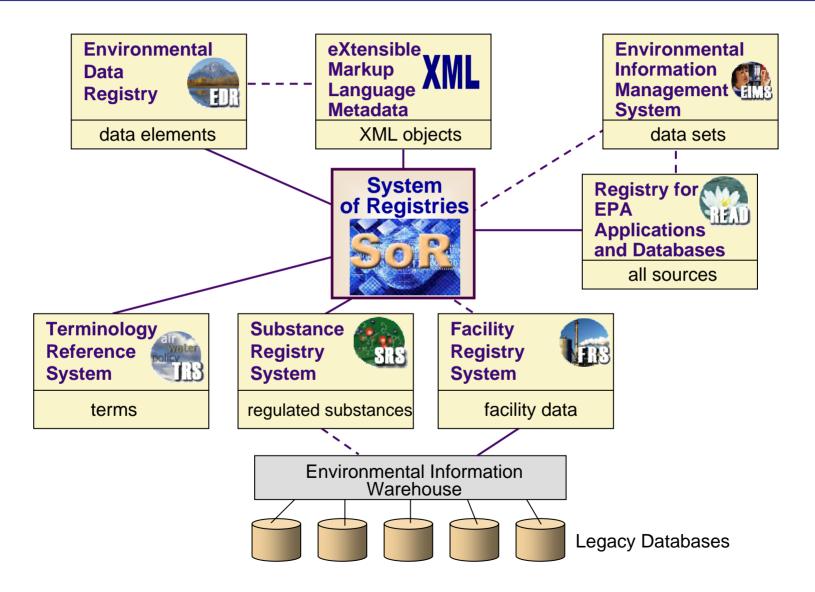


Completion Capability Area: Data Architecture
Level: 1 Practices: Baseline Agency EA Repository Metamodel

EPA Framework Metamodel 3.0

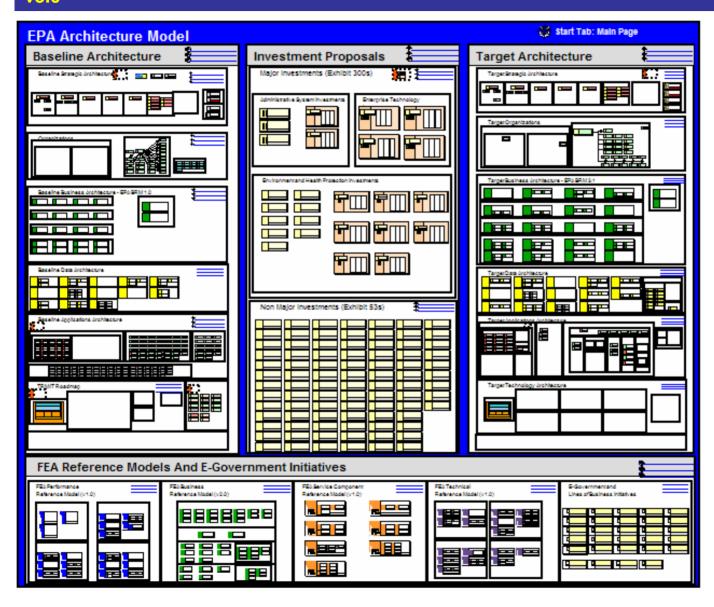


Completion Capability Area: Data Architecture Level: 1 Practices: Baseline System of Registries Conceptual Diagram

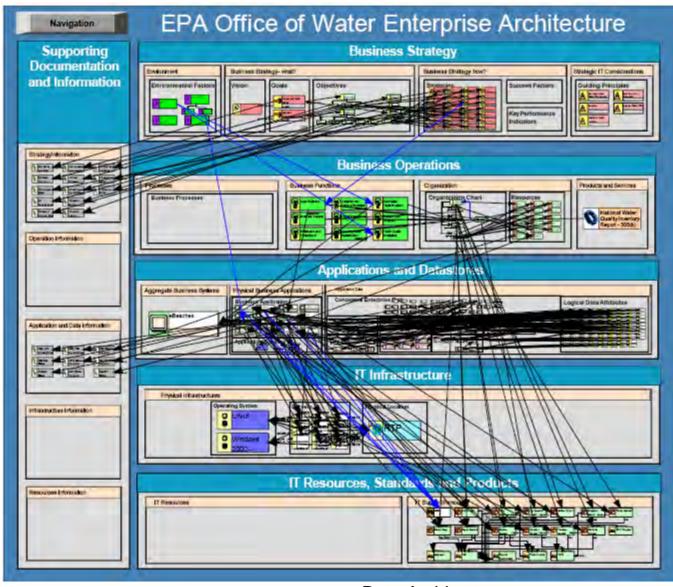


Completion Capability Area: Data Architecture

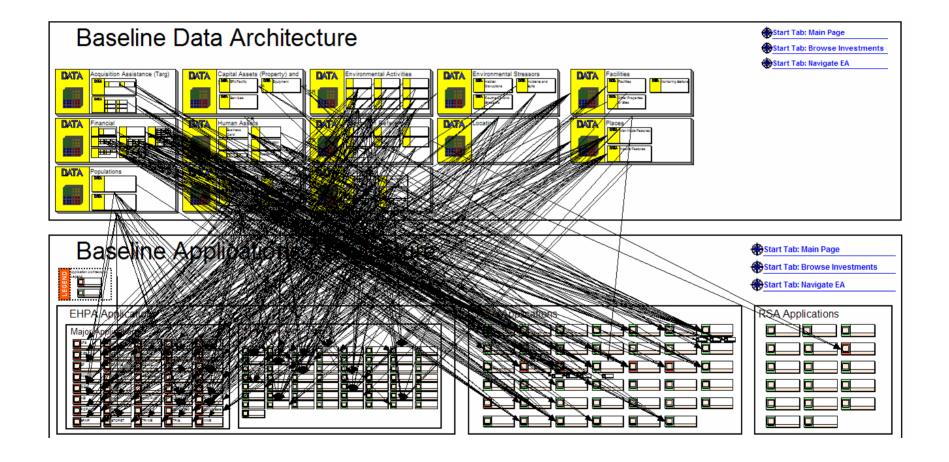
Level: 2 Practices: Baseline EPA Enterprise Architecture Repository and Tool (ART) Metamodel v3.0



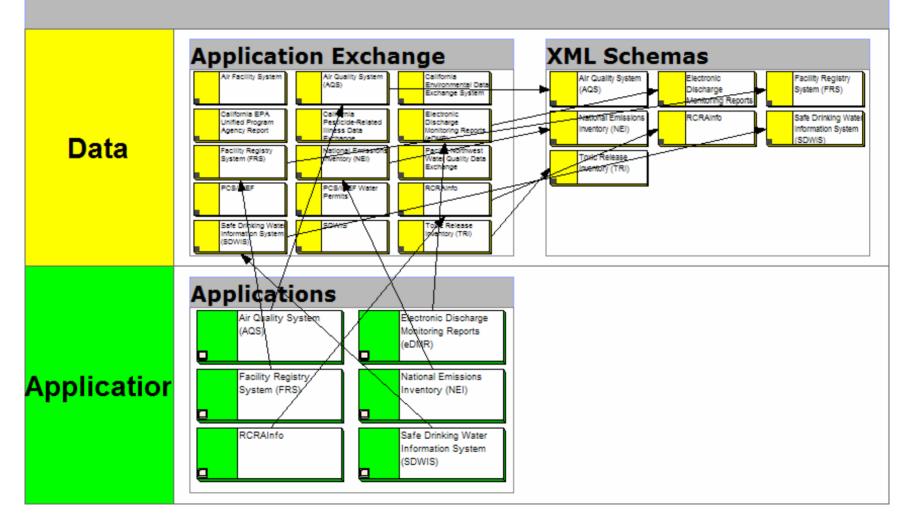
Completion Capability Area: Enterprise Architecture Level: 2 Practices: Office of Water (OW) Baseline Enterprise Architecture



Completion Capability Area: Data Architecture Level: 2 Practices: Baseline Applications aligned to Data



CDX Solution Architecture

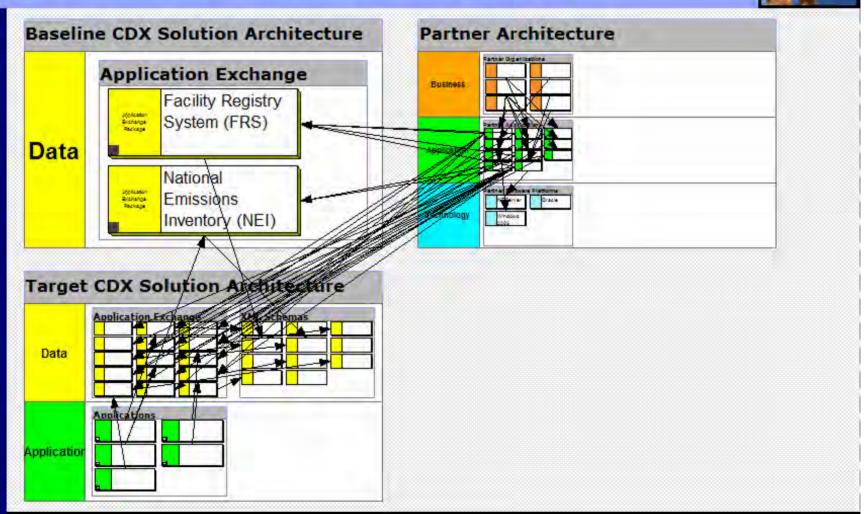


Completion Capability Area: Data Architecture

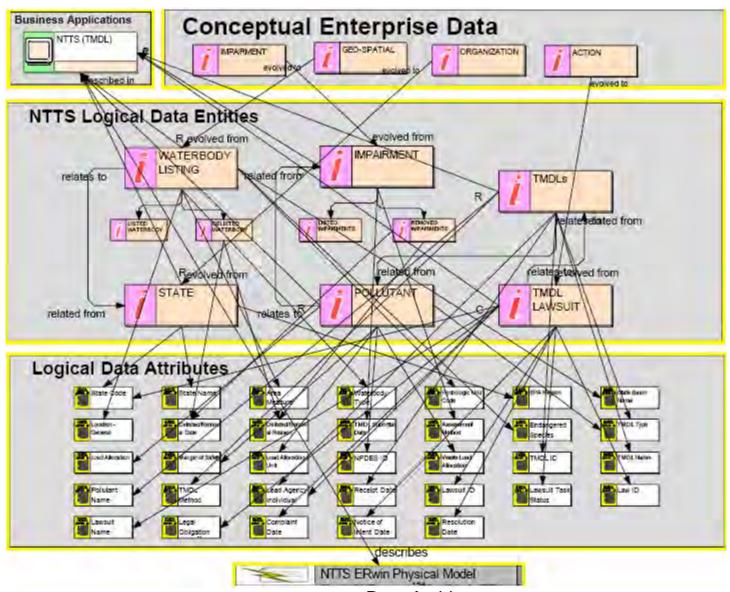
Level: 2 & 3 Practices: CDX Data Flows between EPA and External Partners

EPA Architecture Repository and Tool (ART)

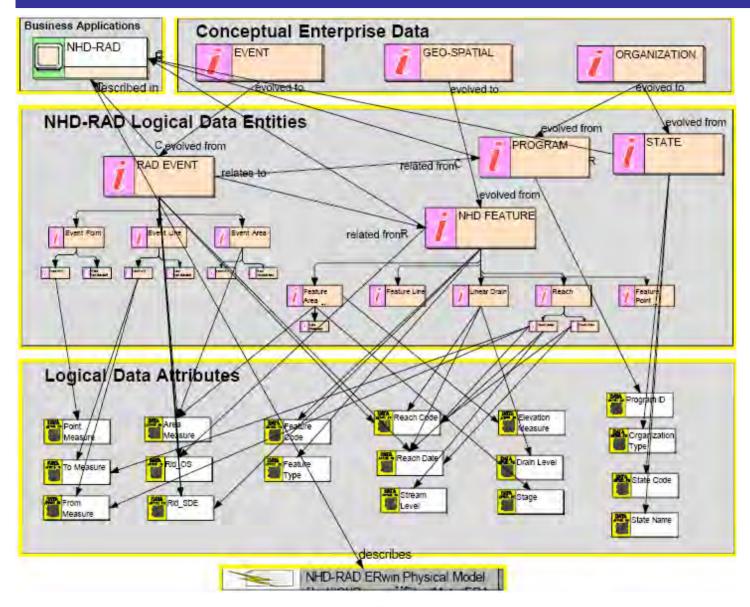




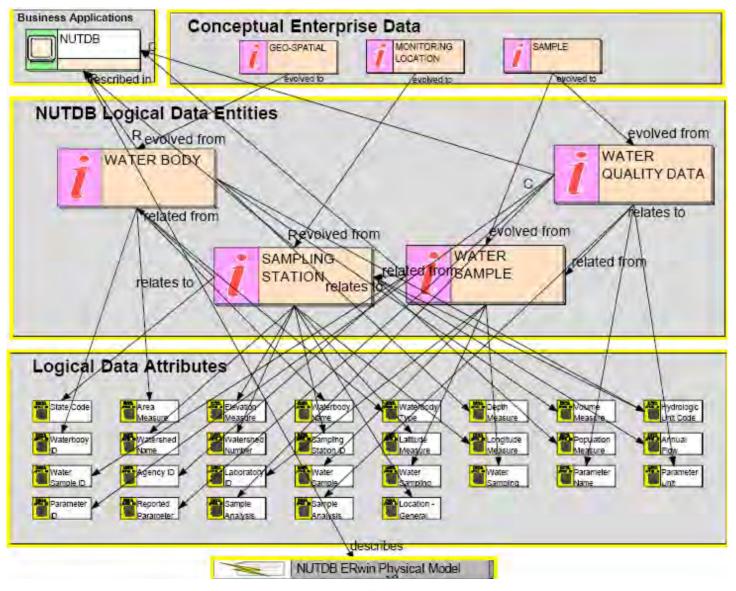
Completion Capability Area: Data Architecture Level: 2 Practices: Baseline Office of Water (OW) Applications to Data



Completion Capability Area: Data Architecture Level: 2 Practices: Baseline Office of Water (OW) Applications to Data

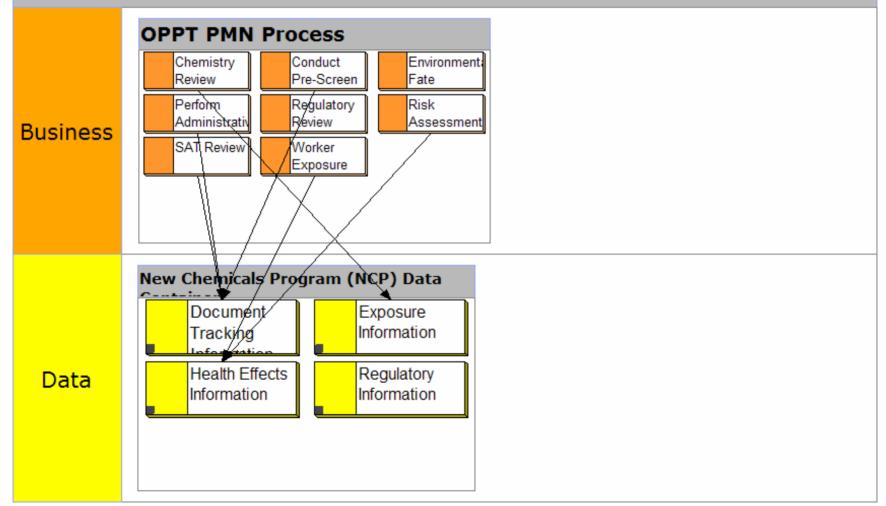


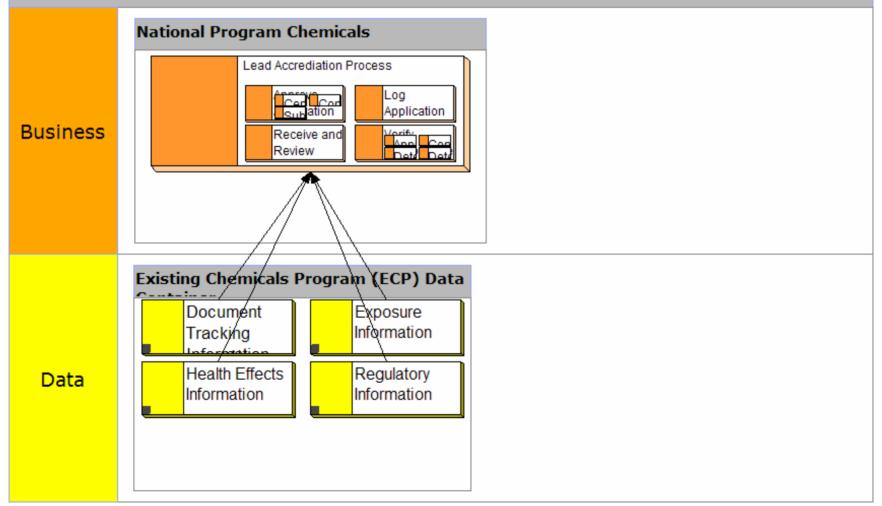
Completion Capability Area: Data Architecture Level: 2 Practices: Baseline Office of Water (OW) Applications to Data

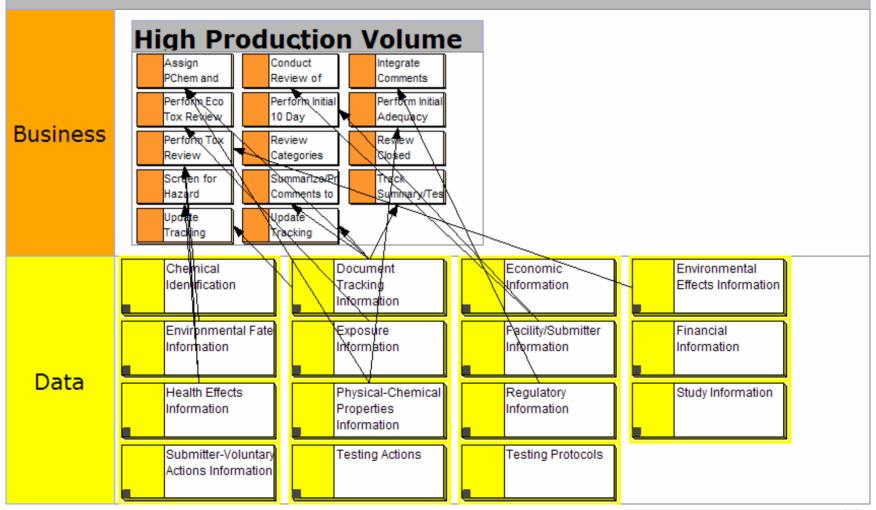


Completion Capability Area: Data Architecture

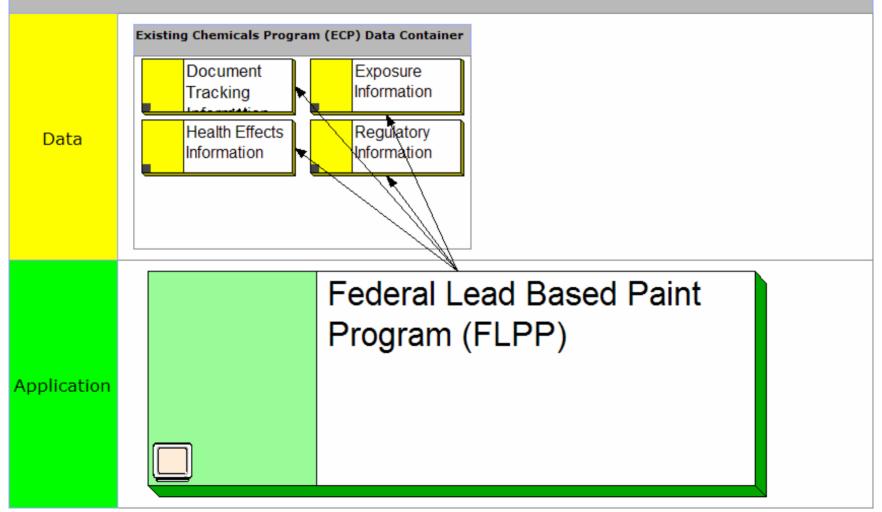
Level: 2 Practices: Baseline OPPT Business Processes to Data



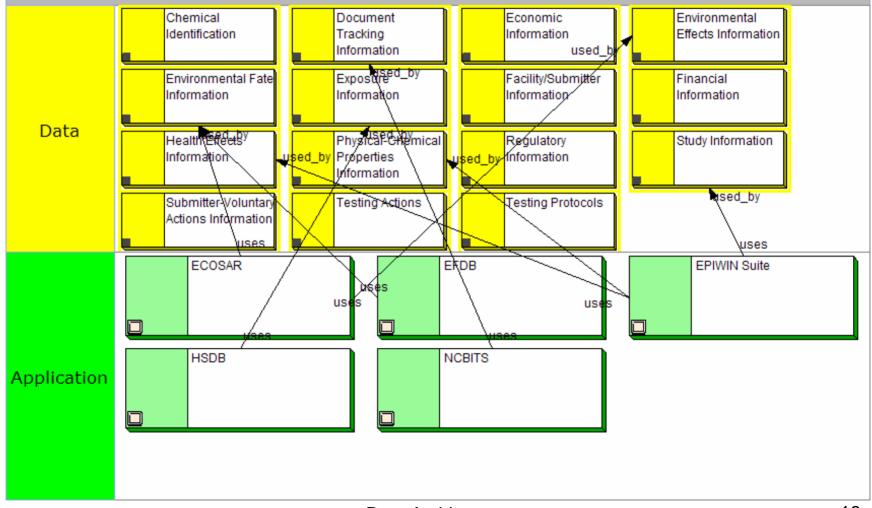


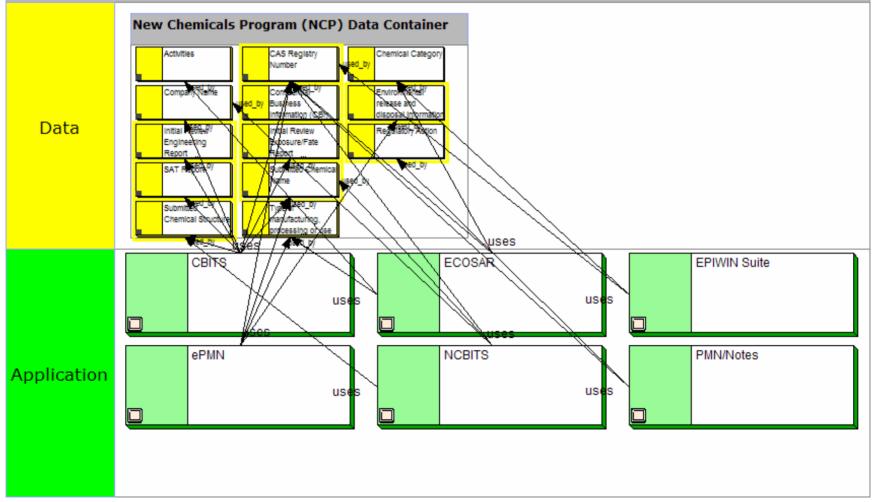


Completion Capability Area: Data Architecture Level: 2 Practices: Baseline OPPT Data to Applications

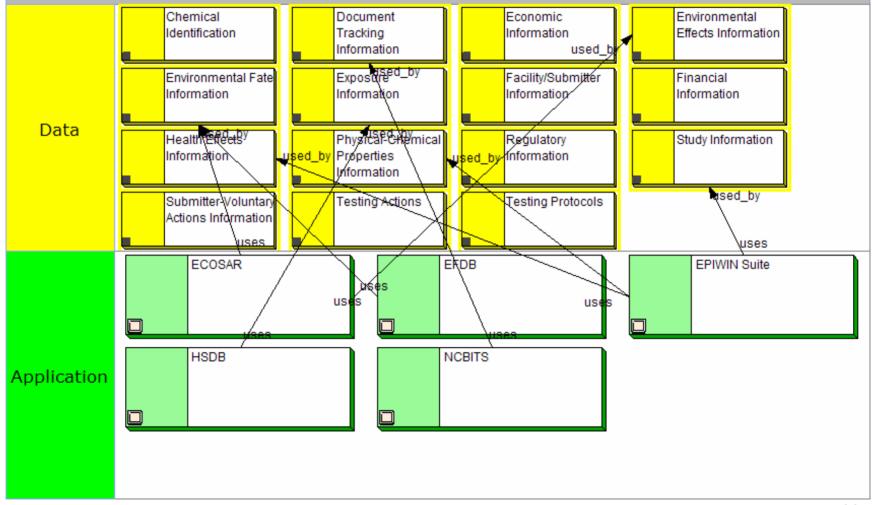


Completion Capability Area: Data Architecture Level: 2 Practices: Baseline OPPT Data to Applications

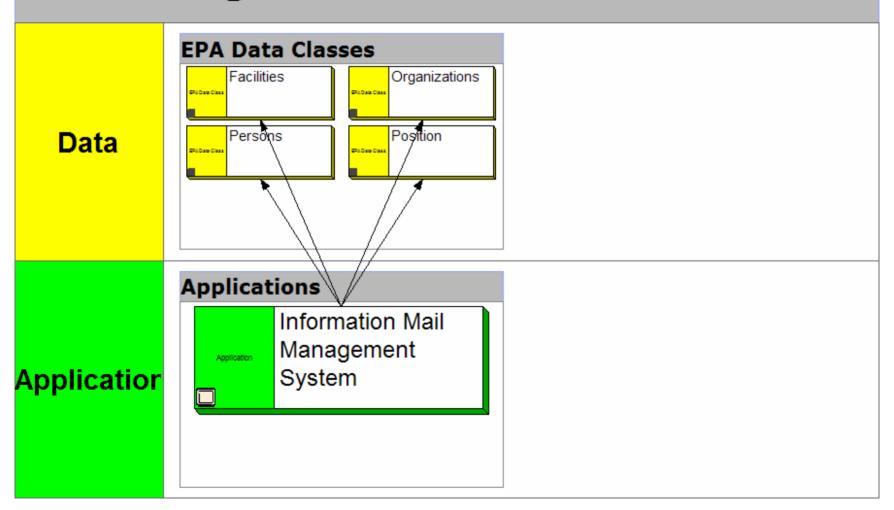




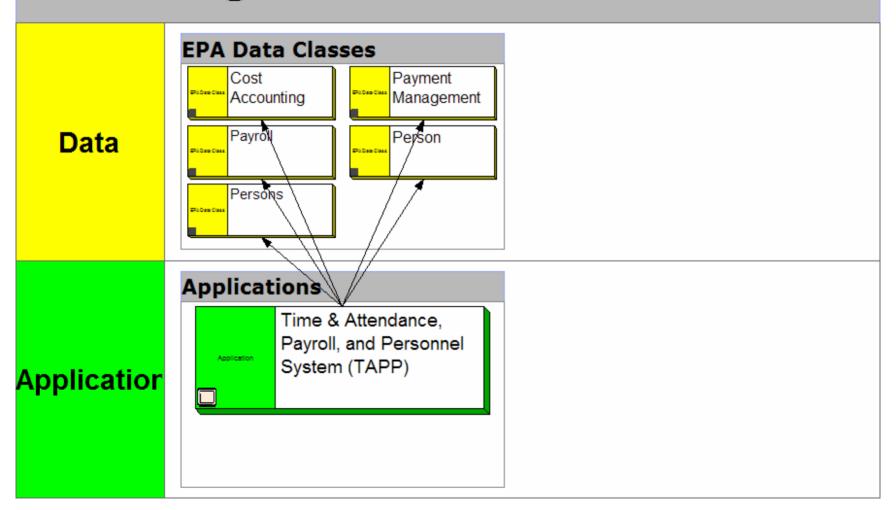
Completion Capability Area: Service Component Architecture Level: 2 Practices: Baseline OPPT Data to Applications



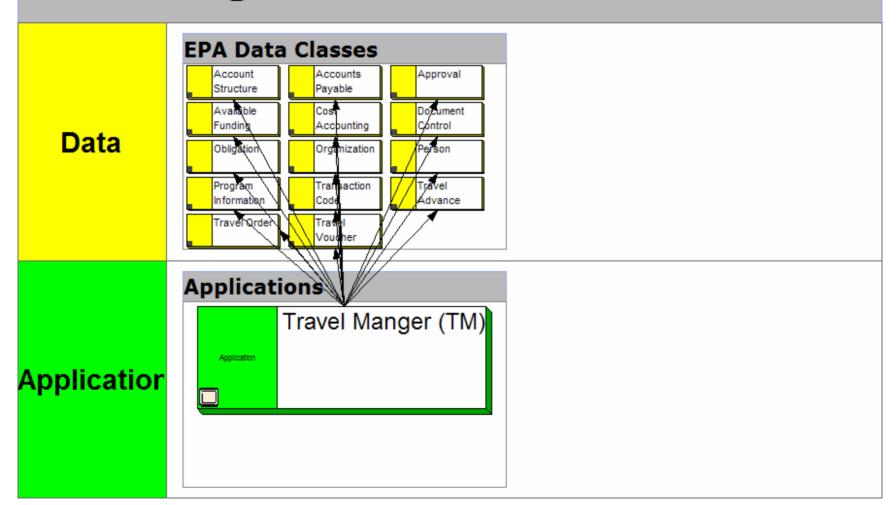
OCFO Segment Architecture



OCFO Segment Architecture



OCFO Segment Architecture

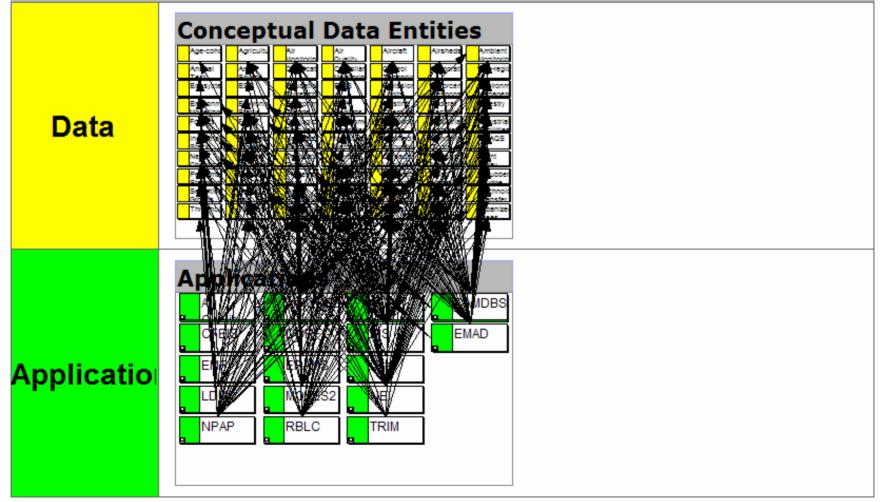


Completion Capability Area: Data Architecture
Level: 2 Practices: Baseline OAR Data to other layers

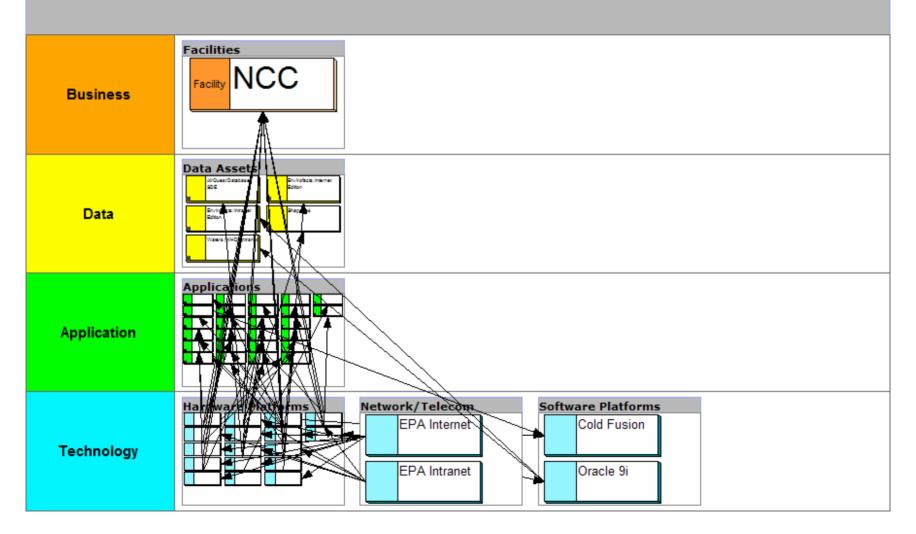
OAR Segment Architecture Objectives Sub-Objectives Sub-Object 1.1.1: More Strategic Business Data Application

Completion Capability Area: Data Architecture
Level: 2 Practices: Baseline OAR Applications to Data

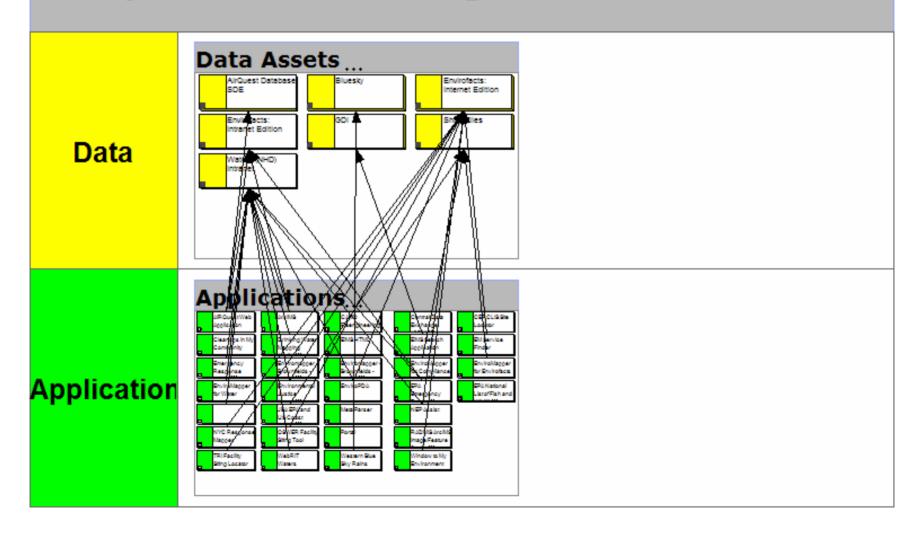
OAR Segment Architecture



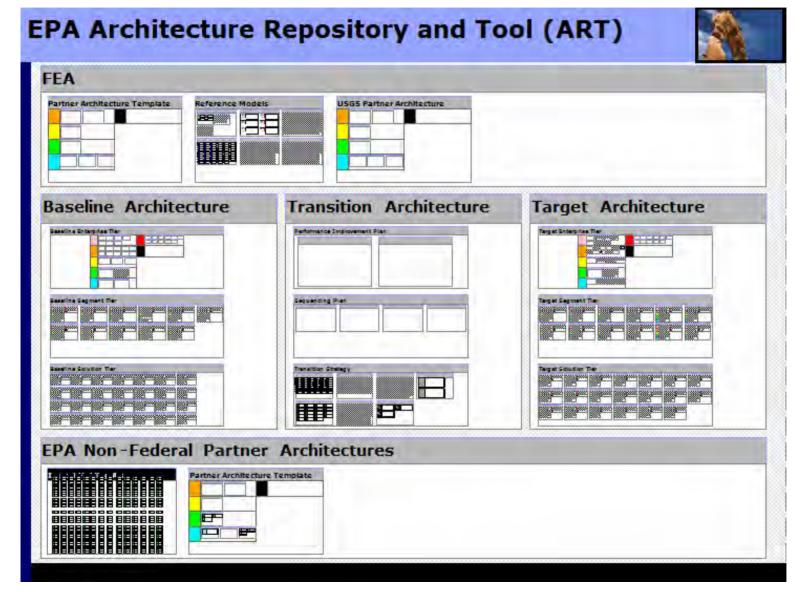
Baseline Geospatial Metadata Segment Architecture



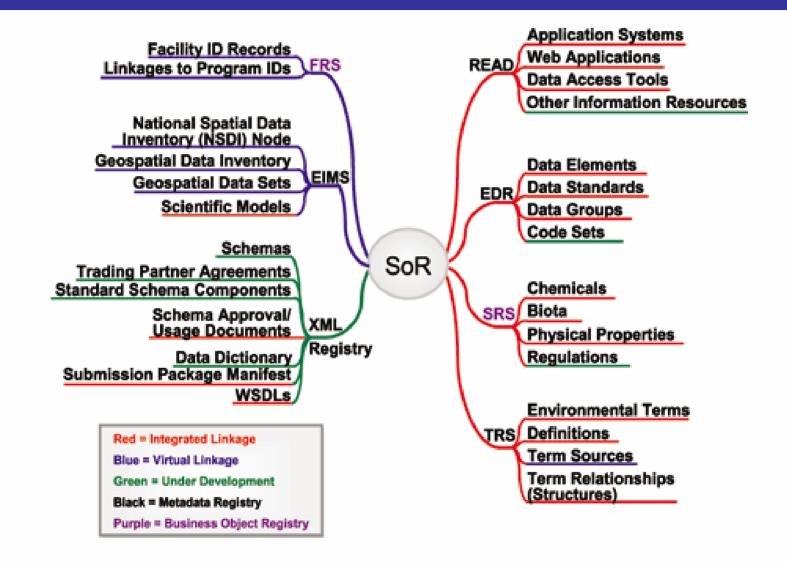
Geospatial Metadata Segment Architecture



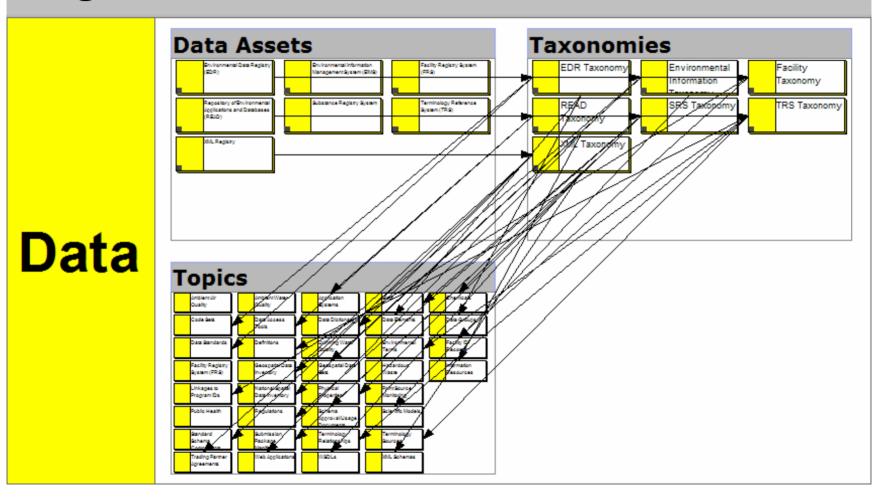
Level: 3 Practices: Target EPA Enterprise Architecture Repository and Tool (ART) Metamodel v4.0



Completion Capability Area: Data Architecture Level: 3 Practices: EPA System of Registries Information Taxonomy

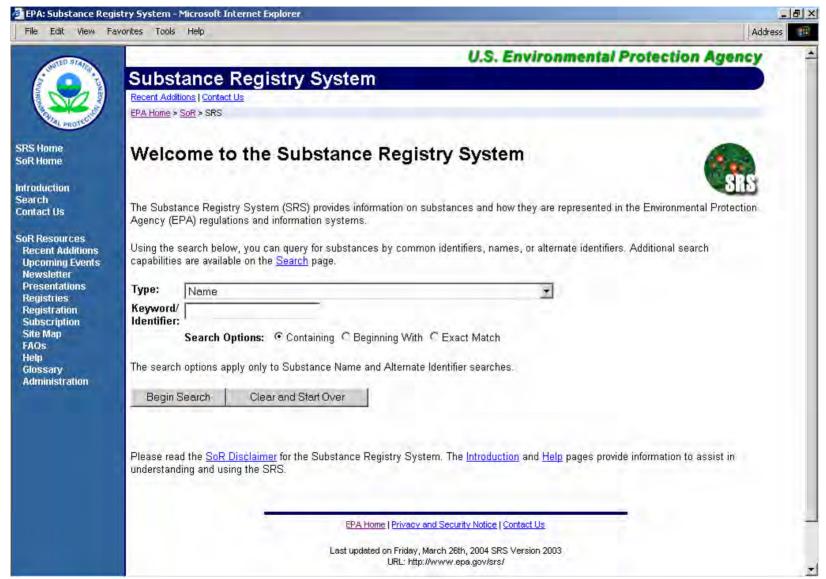


Target SoR Solution Architecture



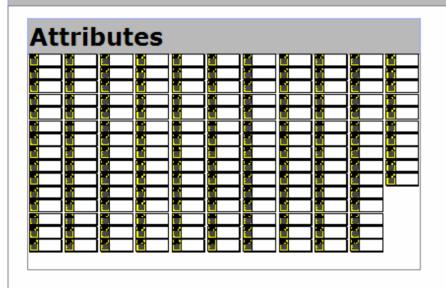


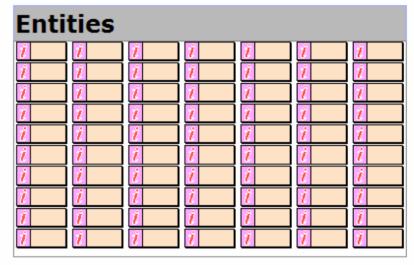


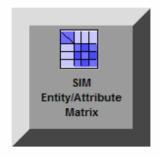




Completion Capability Area: Data Architecture Level: 3 Practices: Baseline Agency Data Model



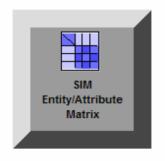






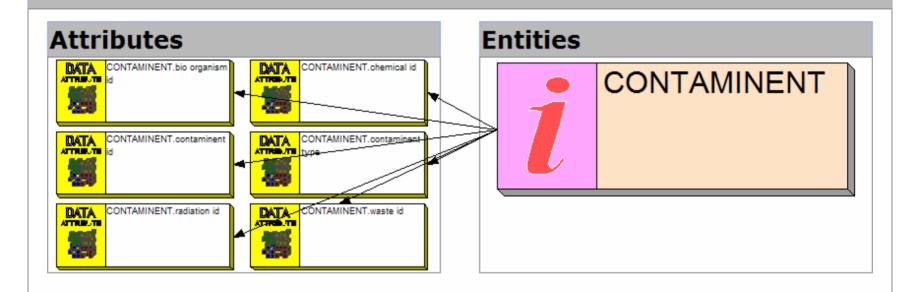
Completion Capability Area: Data Architecture Level: 3 Practices: Baseline Agency Data Model



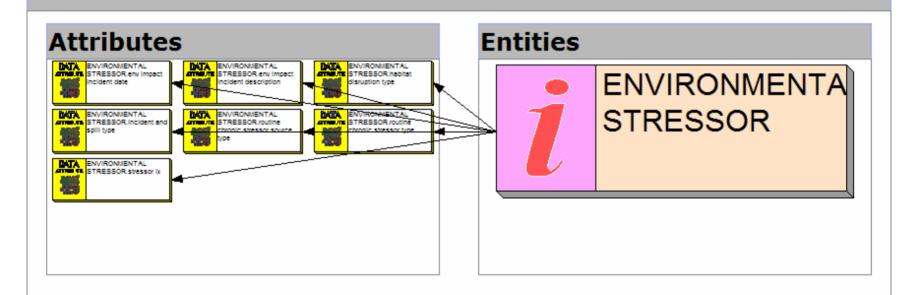




Completion Capability Area: Data Architecture Level: 3 Practices: Baseline Agency Data Model

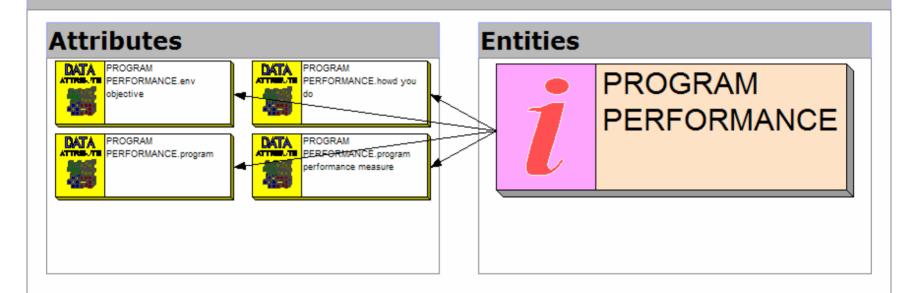


Completion Capability Area: Data Architecture Level: 3 Practices: Baseline Agency Data Model



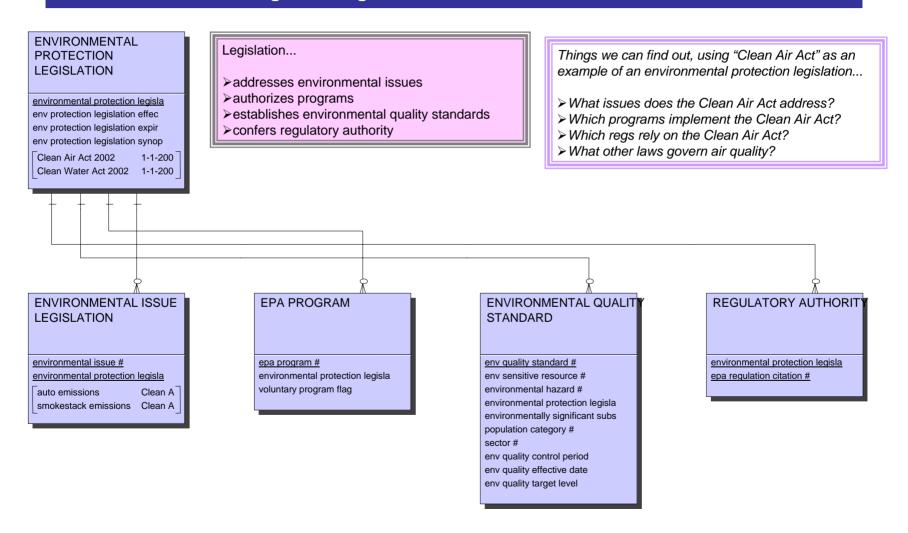
Completion Capability Area: Data Architecture Level: 3 Practices: Baseline Agency Data Model

Strategic Information Model (SIM)

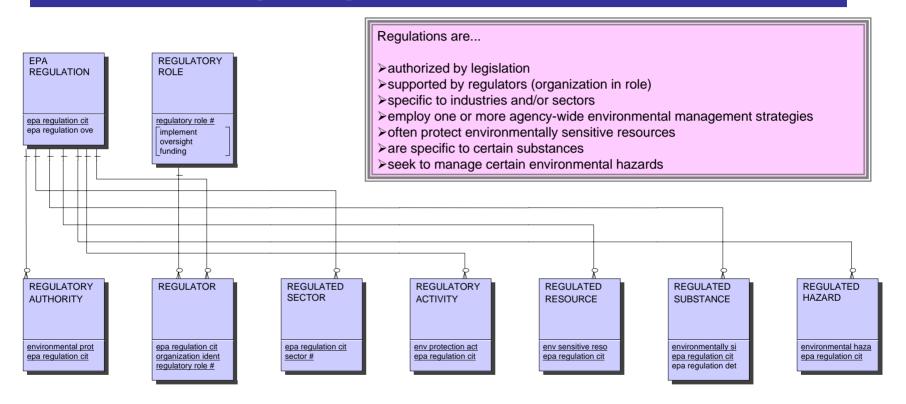


- 1. Environmental management authority *Legislation*, regulation
- 2. Environmental concern Issue, hazard, risk
- 3. Environmental components Resource, population, place, stressor, substance
- 4. Environmental management *Program, activity, incident, data, program management*
- 5. Environmental management partners Sector, organization
- 6. Places Site, facility, geographic area

1.1 Environmental management legislation



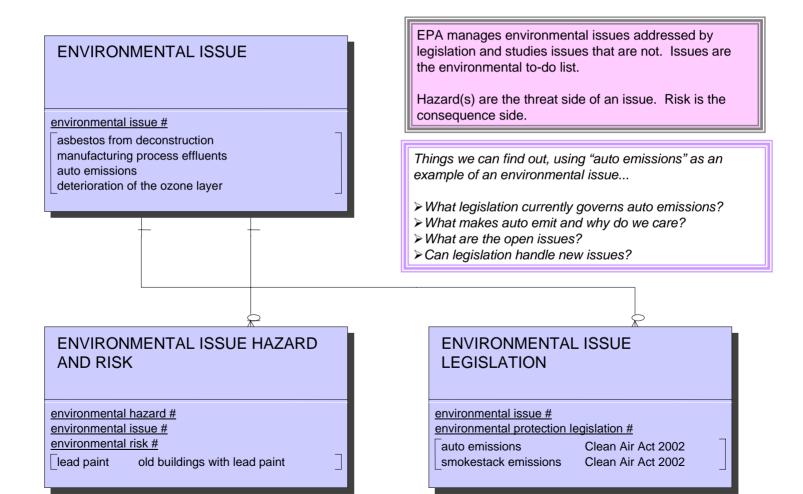
1.2 Environmental management regulation



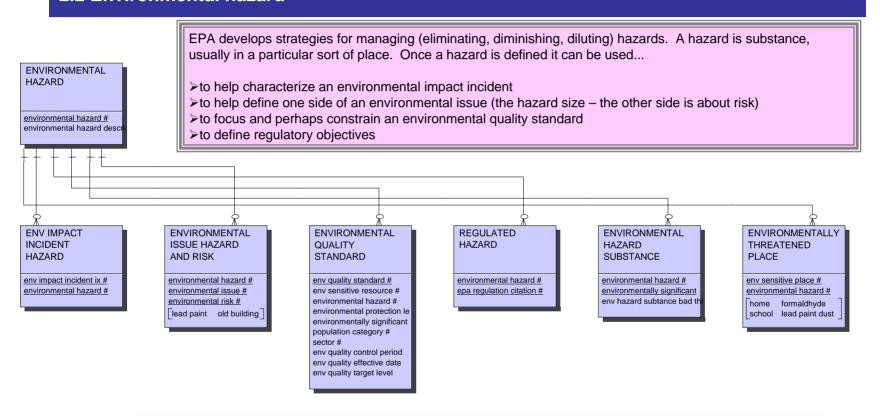
Things we can find out, using "auto emission standards" as an example of an EPA regulation...

- > Where did EPA get the authority to issue auto emission standards? Is the authority still valid?
- > Who implements auto emission standards?
- > Which regulations require permitting?

2.1 Environmental issue



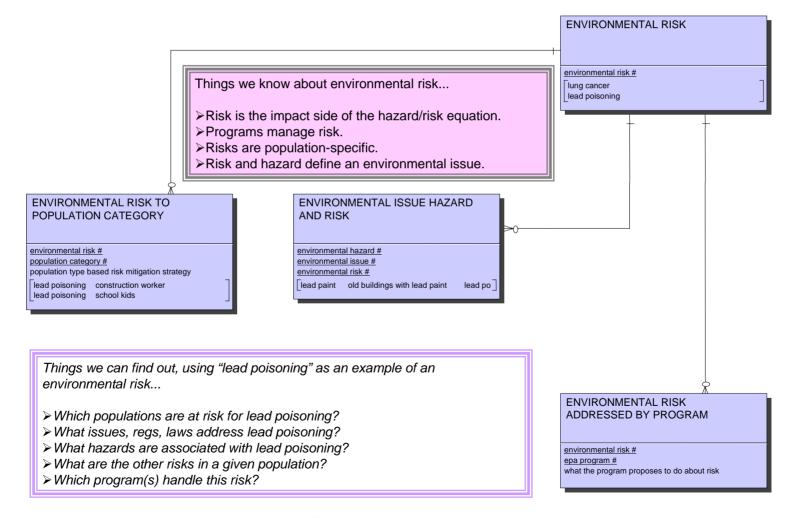
2.2 Environmental hazard



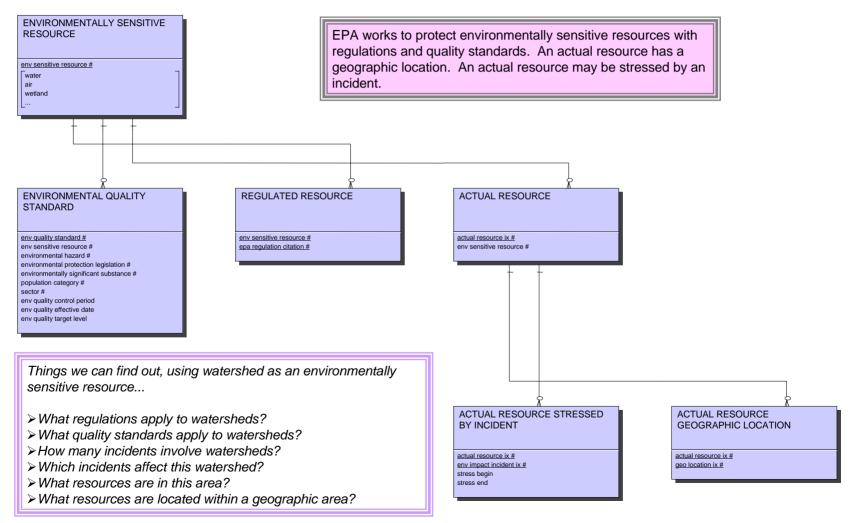
Things we can find out, using "lead paint dust" as an example of an environmental hazard...

- > What sort of places have lead paint dust?
- > What other problems do those places have?
- How many incidents involve lead paint dust?
- > What issues, regs, laws and standards address lead paint dust?
- > What other hazards involve lead paint?

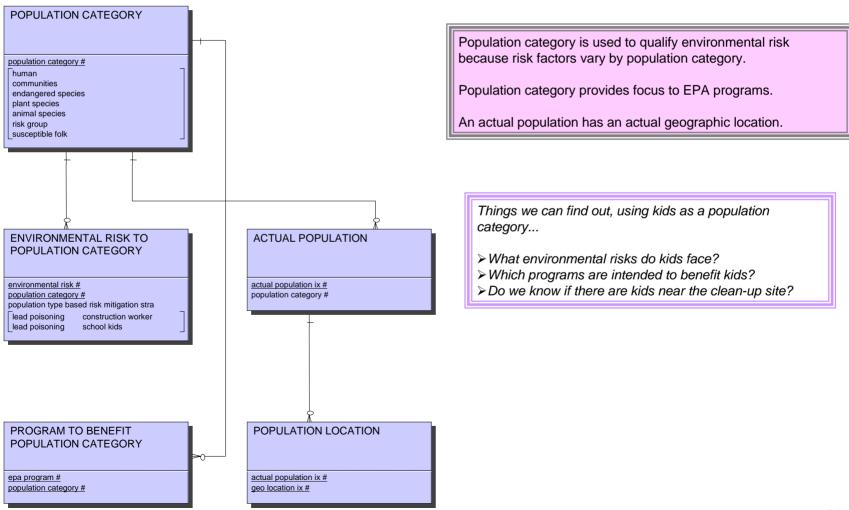
2.3 Environmental risk



3.1 Environmentally sensitive resource

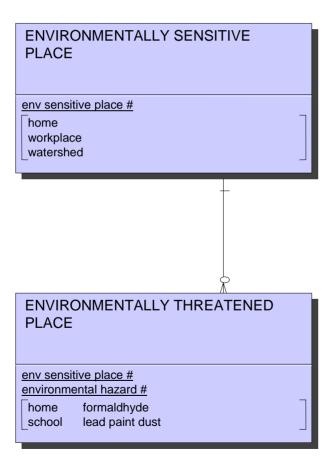


3.2 Environmentally sensitive population



Data Architecture

3.3 Environmentally sensitive place

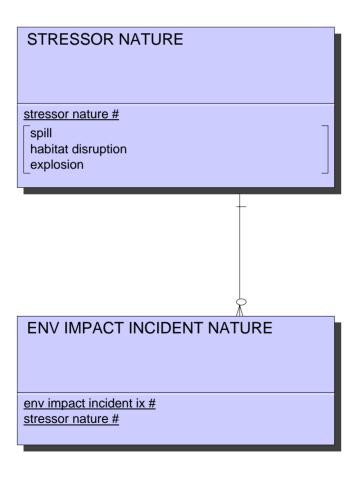


An environmentally sensitive place is used to qualify environmental threats. Hazard / risk assessments are different for different sorts of places.

Things we can find out, using the home as an environmentally sensitive place...

- > What environmental hazards are found in the home?
- ➤ What sort of places are threatened by a given hazard?

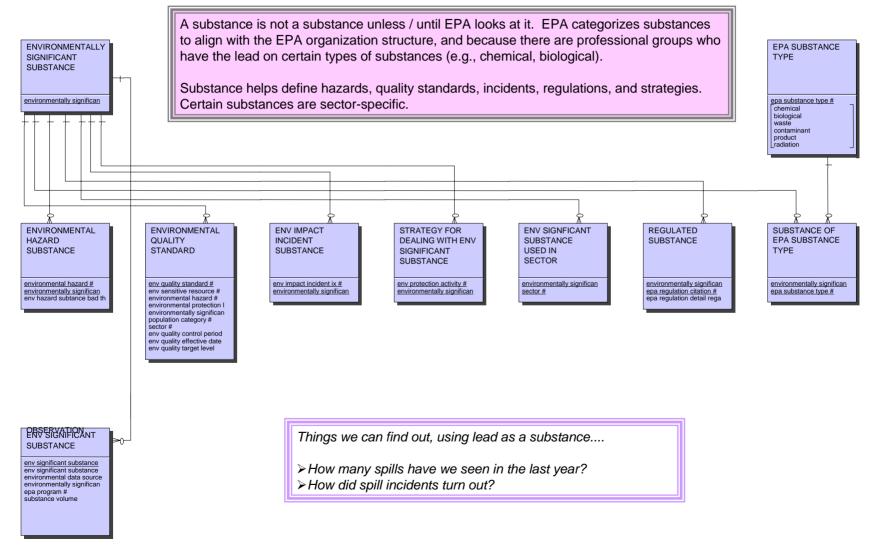
3.4 Environmental stressor

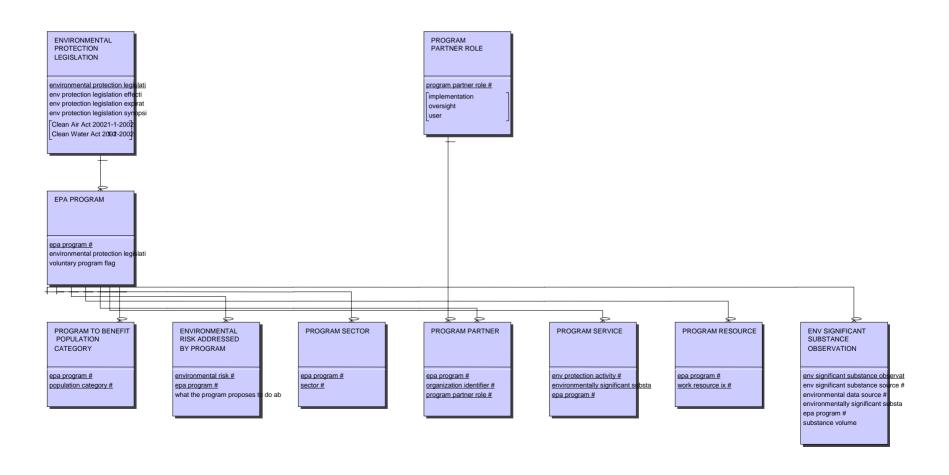


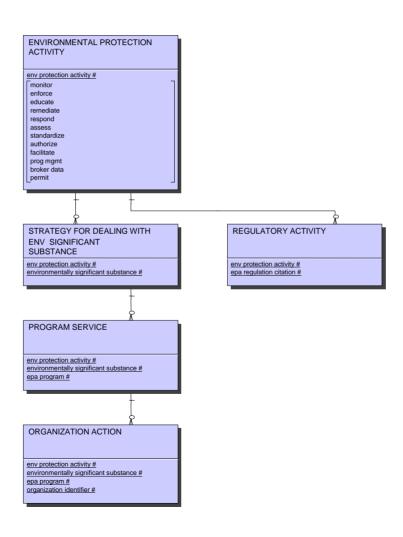
Stressors provide a way to characterize environmental impact incidents in order to facilitate response and management.

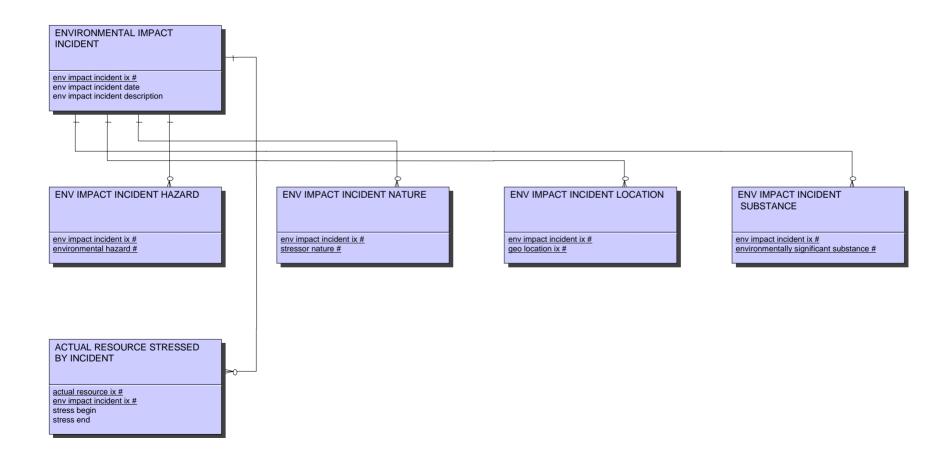
Things we can find out, using spill as a stressor...

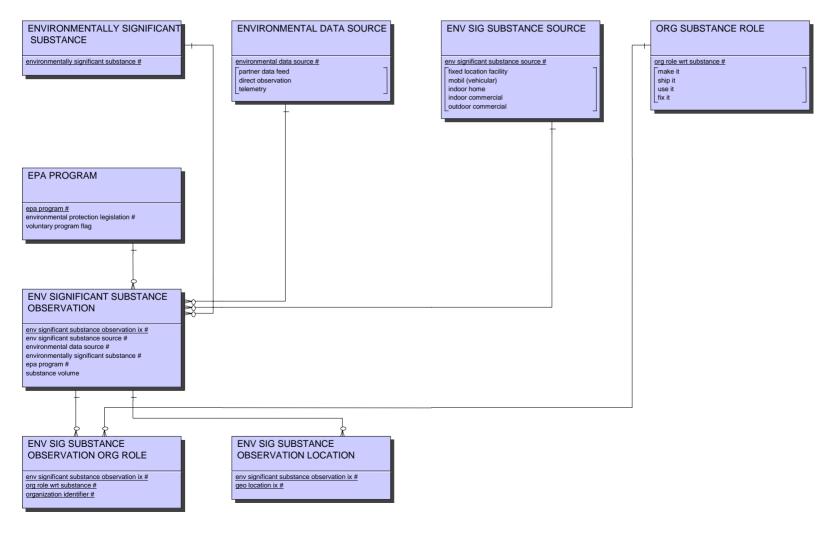
- ➤ How many spills have we seen in the last year?
- > What did spill incidents turn out?

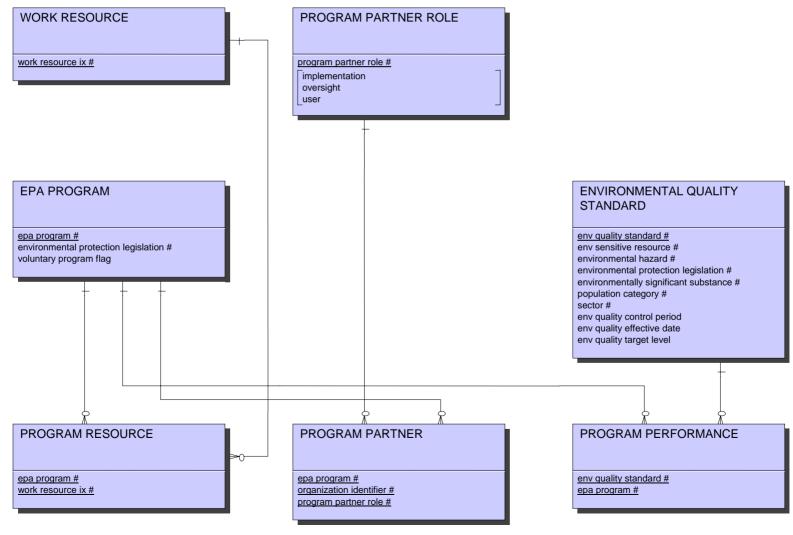




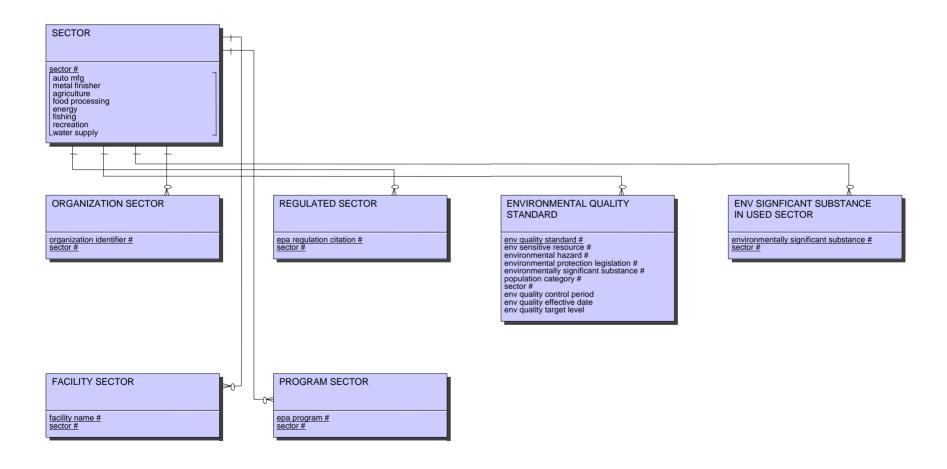








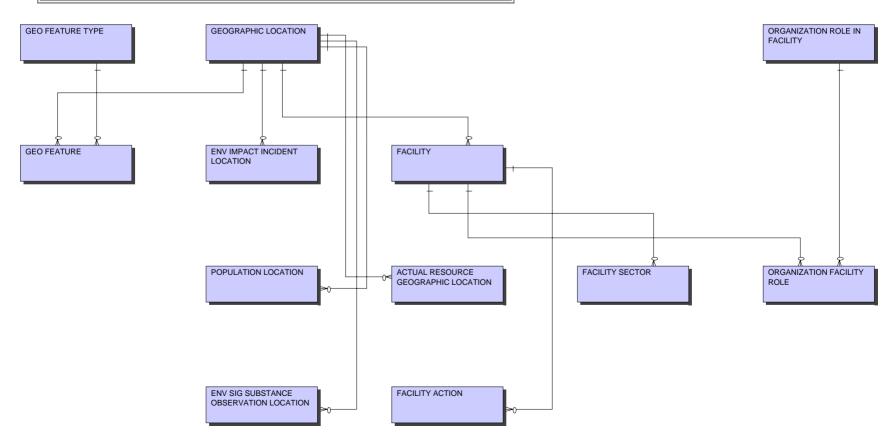
5.1 Sector



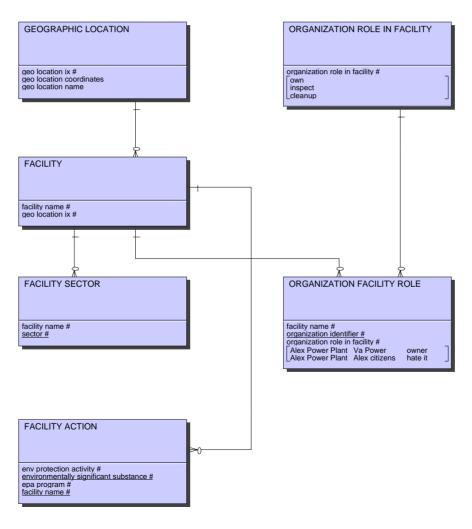
5.2 Organization ORGANIZATION TYPE ORGANIZATION organization identifier # org type # federal gov state gov local gov country produćer academia association Linterest group ORGANIZATION CHARACTERIZATION ORGANIZATION SECTOR FOR A TBD GOOD REASON organization identifier # org type # organization identifier # sector # PROGRAM PARTNER ORGANIZATION FACILITY ROLE epa program # organization identifier # facility name # organization identifier # program partner role # organization role in facility # Alex Power Plant Va Power LAlex Power Plant Alex citizens hate it ORGANIZATION ACTION **ENV SIG SUBSTANCE OBSERVATION ORG ROLE** env protection activity # environmentally significant substance # env significant substance observation ix # org role wrt substance # epa program # organization identifier # organization identifier

6 Places

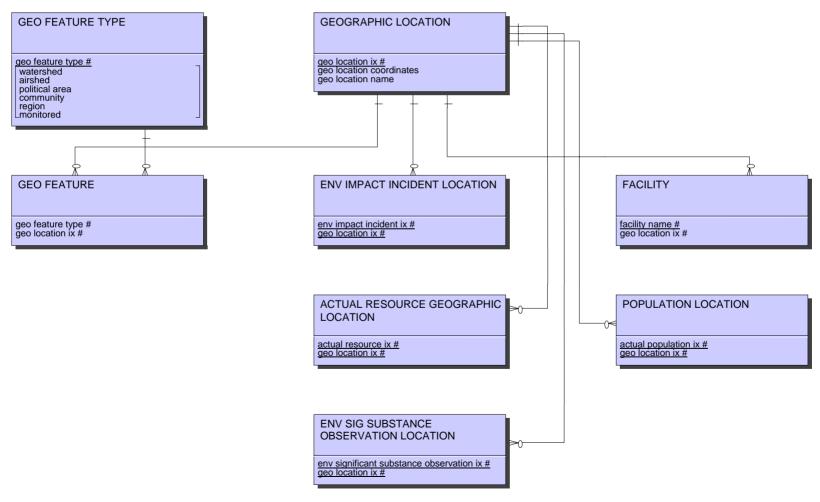
- 6.1 Sites
- 6.2 Facility
- 6.3 Geographic area



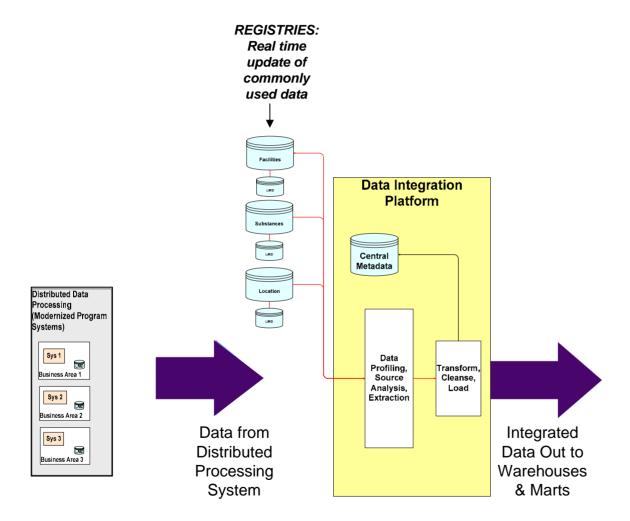
6.2 Facility



6.3 Organization

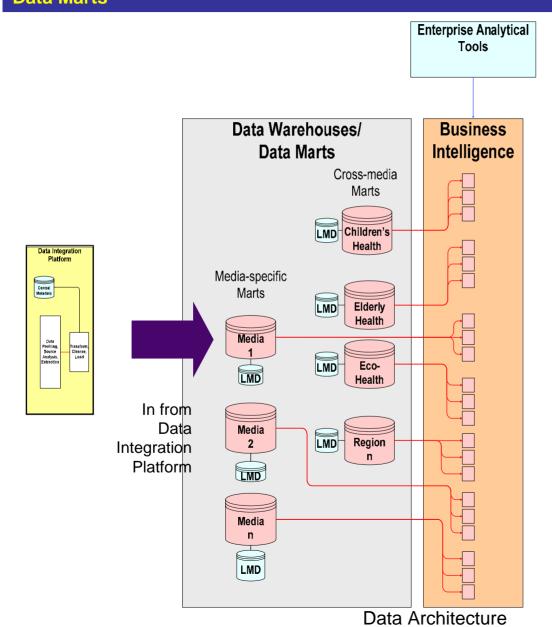


Completion Capability Area: Data Architecture Level: 3 Practices: Target Enterprise Tools Registries integrated with Data Integration Platform



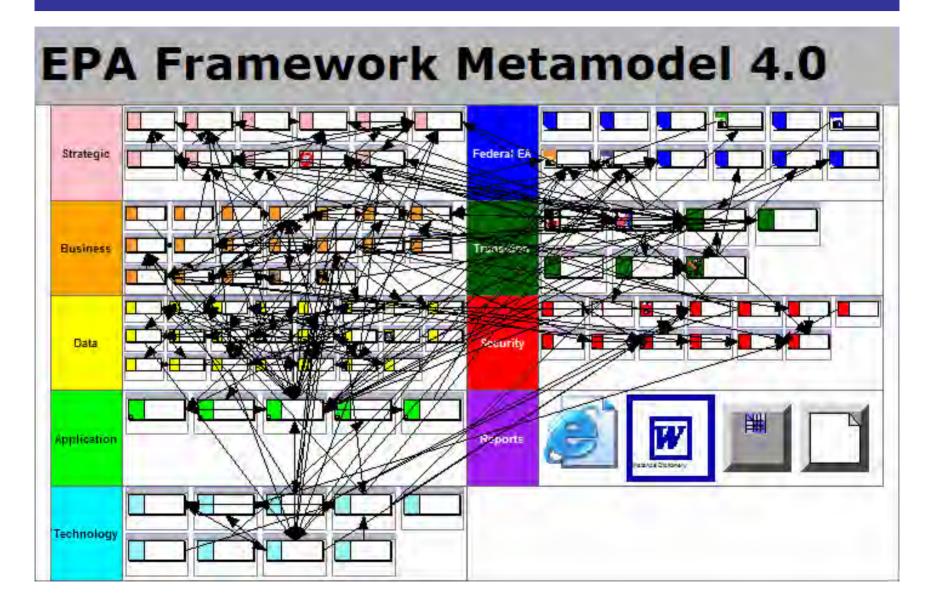
Completion Capability Area: Data Architecture

Level: 3 Practices: Target Enterprise Tools Registries integrated with Data Warehouses and Data Marts



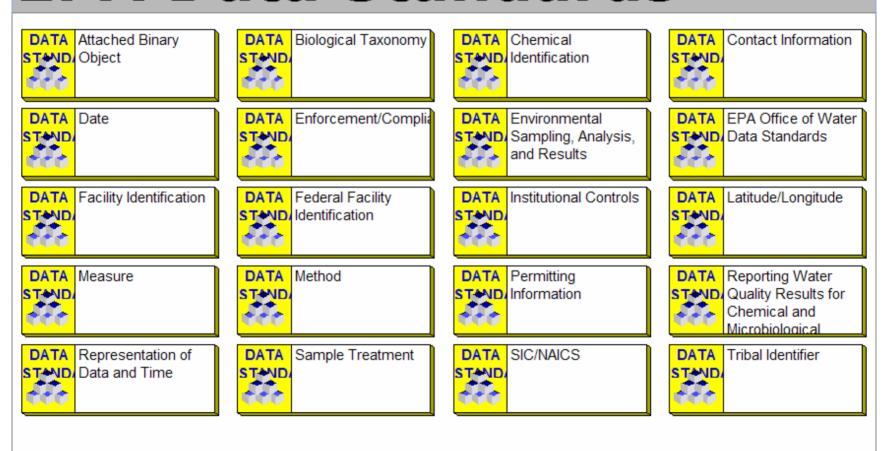
Completion Capability Area: Data Architecture

Level: 3 Practices: Target Agency EA Repository Metamodel



Completion Capability Area: Data Architecture
Level: 4 Practices: Published EPA Data Standards

EPA Data Standards



Completion Capability Area: Data Architecture Level: 4 Practices: EPA Data Standards on the Internet



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Data Standards



- · EPA Final Standards
- EPA Standards Under Development
- · EPA Superceded Standards
- · Program Specific Data Standards
- Data Standards Process
- Data Standards References

The vision for the Environmental Protection Agency's (EPA) data standards program is to promote the efficient sharing of environmental information among EPA, states, tribes, and other information partners through the cooperative development of data standards. In partnership with the Environmental Data Standards Council (EDSC), the EPA is developing data standards for environmental information collection and exchange. The use of common data standards among partners will foster consistently defined and formatted data elements and sets of data values, and provide public access to more meaningful data. The data standards are developed by EDSC sponsored action teams that include members representing states, tribes, and federal agencies. All proposed data standards are submitted for public review before adoption by the EDSC and the EPA. The links below enable users to quickly access key components of final EPA standards and standards under development. Data standards being adopted by the EDSC can be found at www.envdatastandards.net.

EPA Final Standards

The following data standards have been adopted by the EPA for use by Agency program offices. Specific usage and implementation instructions can be found in the EPA Business Rules associated with each final data standard. For each data standard there are data element lists and related standard documents such as EPA Business Rules and implementation fact sheets describing how a data standard is to be used by Agency programs. Data standards, EPA business rules, and data elements are available for viewing and downloading in several file formats. The final standards and associated documents are also available in zipped, preformatted file formats for easy download and use.

Attached Binary Object (Ver 1) Bibliographic Reference (Ver 1) Completion Capability Area: Data Architecture
Level: 3 Practices: Target ART Solution Architecture

ART Solution Architecture

