

Environmental Information



EN2015

Facility Data Integration Integrated Project Team: The Next Generation—Collaborating to Improve Data Quality and Our Services

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2015 Exchange Network National Meeting

Supporting the Business of Environmental Protection

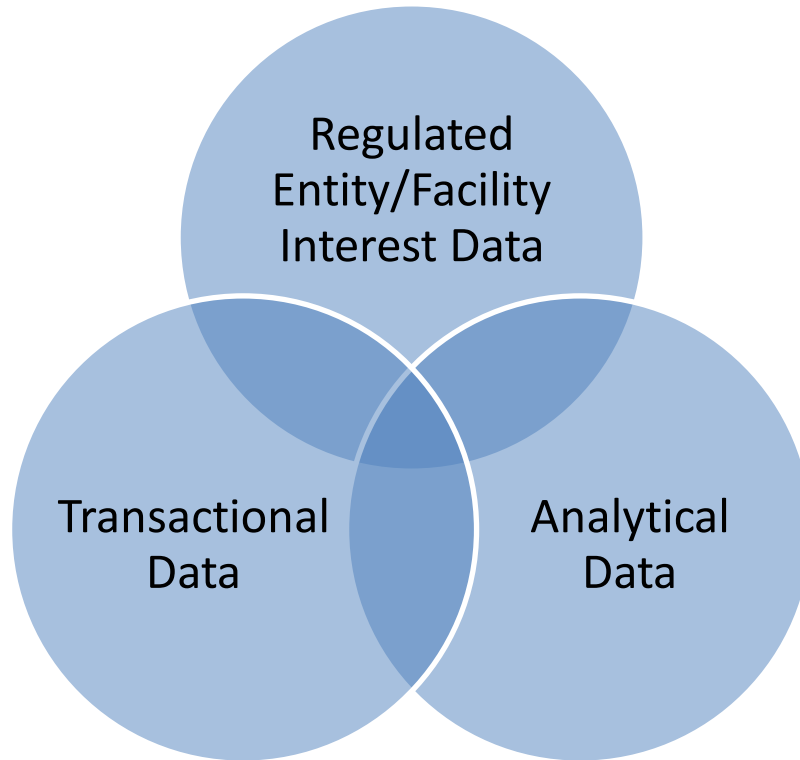
September 29–October 1, 2015
Sheraton Philadelphia Society Hill Hotel
Philadelphia, Pennsylvania

<http://www.exchangenetwork.net/en2015>

ABSTRACT

Our ability to effectively protect human health and the environment often comes down to where regulated entities are – facilities, sites, and the activities occurring at those locations. Many states still struggle with effectively integrating all of their facility information to get an accurate and complete picture of a facility’s potential impact on the environment. This integration is even more complicated when we try to share information among and between multiple states and EPA. The Facility Data Integration IPT was created to figure out how we can collaboratively address this issue. This presentation will introduce the purpose of the Facility Data Integration IPT and outline the IPT efforts to-date.

Environmental/Regulatory Data



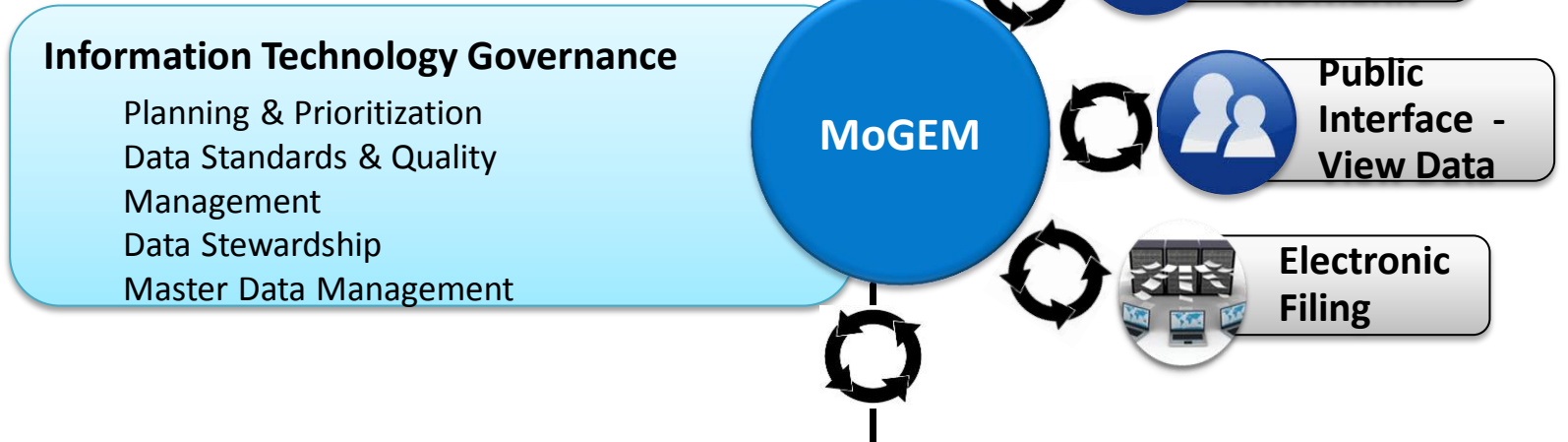
Regulated Entity Information/Facility Interest Information - Current State



**Are we
speaking
the same
language?**

Interest
Facility
Operator Certified
Regulated Entity
Location Site Permit
Individual Certification

Missouri Gateway for Environmental Management



FRS and E-Enterprise – EPA’s Approach

1. Build a network of data stewards, provide them with data quality tools, and gather their complex business requirements

FLA. 140 data stewards at EPA, states and municipalities

2. Enter high quality data at the source

FRS/CDX services for direct reporters

3. **Share core facility “profile” information with states**

Use case: reporter at a facility

Facility IPT with States, new data model

4. Harmonize core facility data elements
5. Link facilities and contacts with their corporate parent organizations

What Does FRS Need in the Facility “Profile?”

“Things” (objects of interest/facilities)

regulated & non-reg. business processes, including emission points, boilers, storage facilities, mobile sources, sampling points, etc. [Need permanent IDs]

•Where they are

point locations, polygons, on a complex site/campus. [Sites need permanent IDs]

•Why we care about them (Environmental Interests)

regulation, permit, Emergency response, etc.

•Attributes about them

equipment/process details, NAICS & SCC codes, additional attributes for determining regulatory requirements. Also, contacts [IDs] and parent companies [IDs]

•Associations between them

‘Thing 2 is a component of Thing 1’, ‘Thing 3 flows to Thing 4’, ‘Company X owns Thing 1’, ‘Contact A is from Company X’, and ‘reports for Thing 1’, etc.

FACILITY DATA INTEGRATION IPT

**HOW DO WE DO
THIS ACROSS THE
ENTIRE
ENVIRONMENTAL
REGULATORY
ENTERPRISE?**

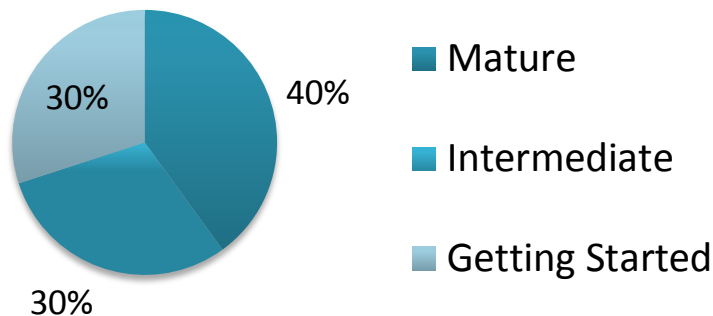


Facility Data Integration IPT (Integrated Project Team)

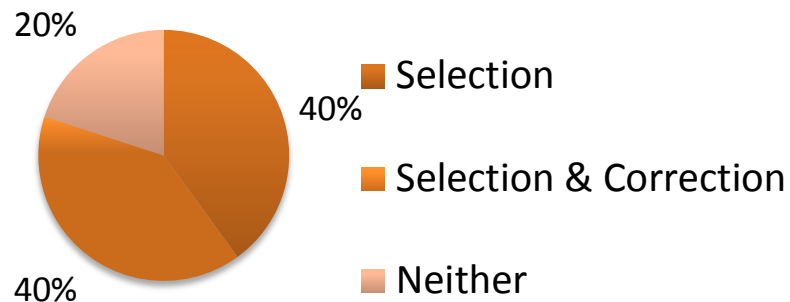


Array of Experience - IPT Survey Results

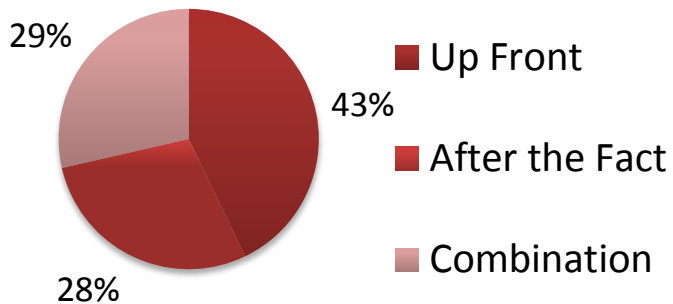
Maturity Level



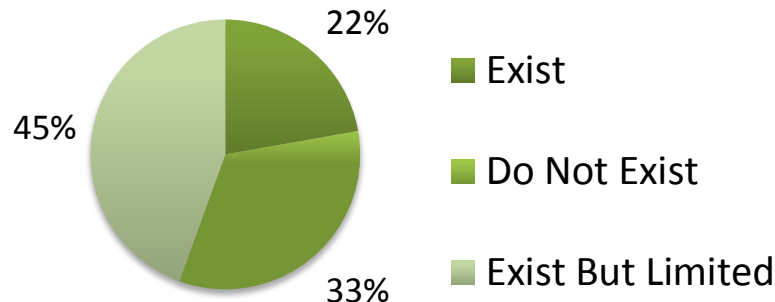
Data Presented



Reconciliation Stage



Formal Policies & Processes



Array of Experience - IPT Survey Results

• Lessons Learned

- Management of historical data and campus style facilities
- Communications between programs is key
- Address regulatory constraints
- Minimize number of data elements that are common across divisions
- Understanding of what is on the ground is fundamental
- Buy-in from management is essential
- Engage staff that have an interest in data integration and reconciliation
- Include related tasks in job descriptions
- Agree upon common definitions
- This is an ongoing and long-term process



• Challenges

- Reconciling and understanding the differing purposes and interest in data
- Providing flexibility for unique circumstances
- Regulatory differences in how facilities are defined
- Training staff
- Aligning information technology with established business rules
- Determining authoritative source
- Defining how information should be shared and used
- Eliminating duplicate data
- Getting all parties to look at the big picture
- Making participation easy
- Fear of losing control of data and implications at the program level

Join Us For Our Next Call

October 8, 2pm Eastern

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