



## 2014 Exchange Network National Meeting

### Innovations in Data Collection and e-Reporting

nSite Facility Data Warehouse Solution

Wednesday, February 26th, 2014



# nSite Facility Data Warehouse Solution Agenda

- WY DEQ nSite Implementation Goals
- nSite System Overview
- Demonstration
- Open Q&A



# nSite Facility Data Warehouse Solution

## WY DEQ Implementation

### Goals of nSite Implementation

- Establish an agency-wide data sharing environment.
- Reduce the burden on agency staff responding to Phase I Environmental Assessment and FOIA requests (e.g., “Who’s doing what nearby?” – “When was this facility last inspected?”).
- Provide better responses to requests for integrated environmental data from the public, the regulated community, the legislature, and from EPA (e.g., the FacID data flow).
- Facilitate cross-program coordination for permit reviews, enforcement actions, site remediation projects, etc.



# Wyoming DEQ nSite Facility Data Warehouse Solution

## WY DEQ Implementation

### Programs and Source Systems

- The data warehouse will be populated initially with facility-site, environmental interest, and CME (compliance, monitoring, enforcement) data from the following program systems. Other data systems will be added in the future:
  - Storage Tank Program
  - Voluntary Remediation Program
  - Spills and Complaints
  - Underground Injection Control
  - Wyoming Pollutant Discharge Elimination System (WYPDES)
  - Abandoned Mine Land
  - Air Quality (Facilities and CME)
  - Air Quality (Emissions Inventory)
  - Land Quality Division (mines, pits)
  - Solid & Hazardous Waste



# nSite Facility Data Warehouse Solution

## WY DEQ Implementation

### Benefits of nSite Implementation to WY DEQ and User Groups

- Web-based GIS mapping (ArcGIS and Google Maps) capabilities -- no need for desktop GIS applications.
- Site location address cleansing.
- Derivation of site location coordinates (geocoding).
- Identification of site duplication in existing source data systems.
- Site name standardization.
- Presentation of CME data in standardized format.
- Allows users to query and download data.



# nSite Facility Data Warehouse Solution

## WY DEQ Implementation

### Benefits of nSite Implementation to the Exchange Network and EPA Data Systems

- EPA gets a more complete set of facility-site data based on multiple programs at WY DEQ.
- The data are cleaned up and fully geo-referenced, therefore more useful and accurate.
- The sites are reconciled, reducing duplication in the EPA data store.



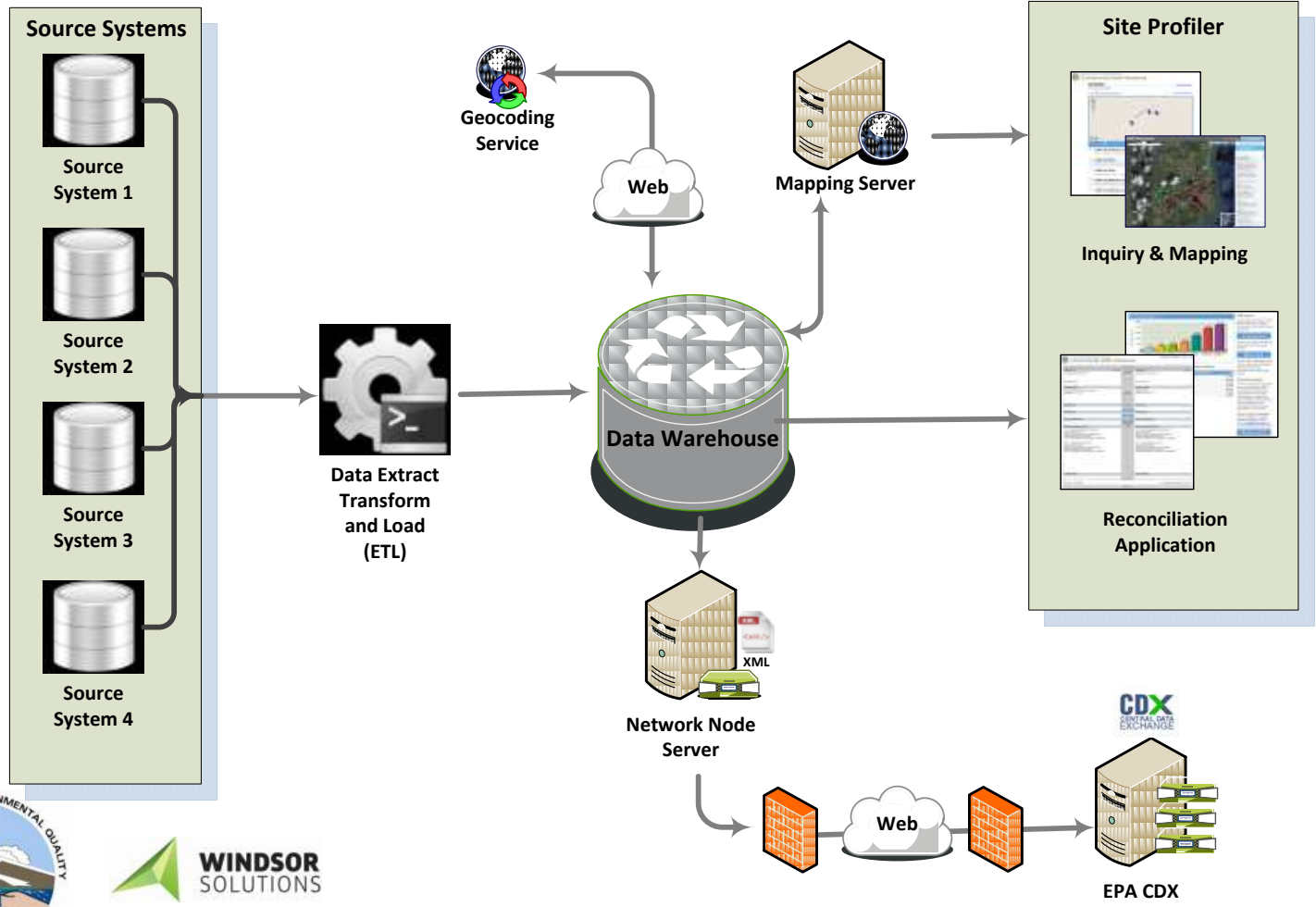
# nSite Facility Data Warehouse Solution System Overview

## What is the nSite Facility Data Warehouse Solution?

- Provides an **integrated data store** of site data.
- Is designed to provide **visibility** to site data from across all programs within the DEQ **rather** than to **manage** program data – that responsibility stays with the source system.
- Presents a **single view** of a site and all of its **Environmental Interest** data from each program interested in the site as a **single** record.
- Program system staff maintain ***their*** data within ***their*** system, and at the same time share that data in a single place.

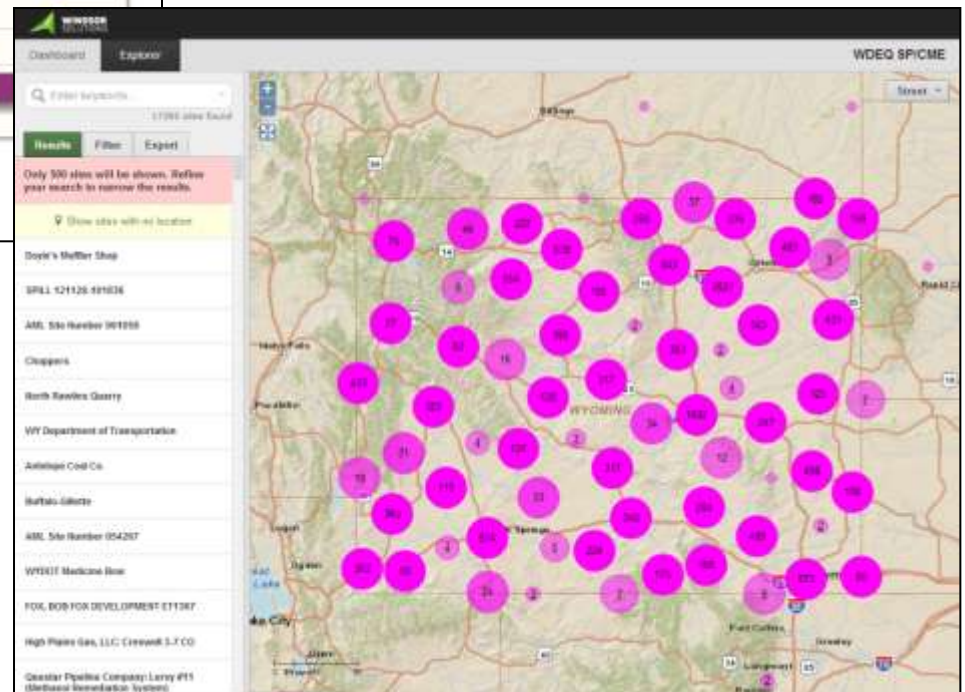


# nSite Facility Data Warehouse Solution System Overview





# nSite Facility Data Warehouse Solution Demonstration



# nSite Facility Data Warehouse Solution Questions

Any questions, comments, observations,  
gifts for the presenters ...?

