



**US Environmental Protection Agency**

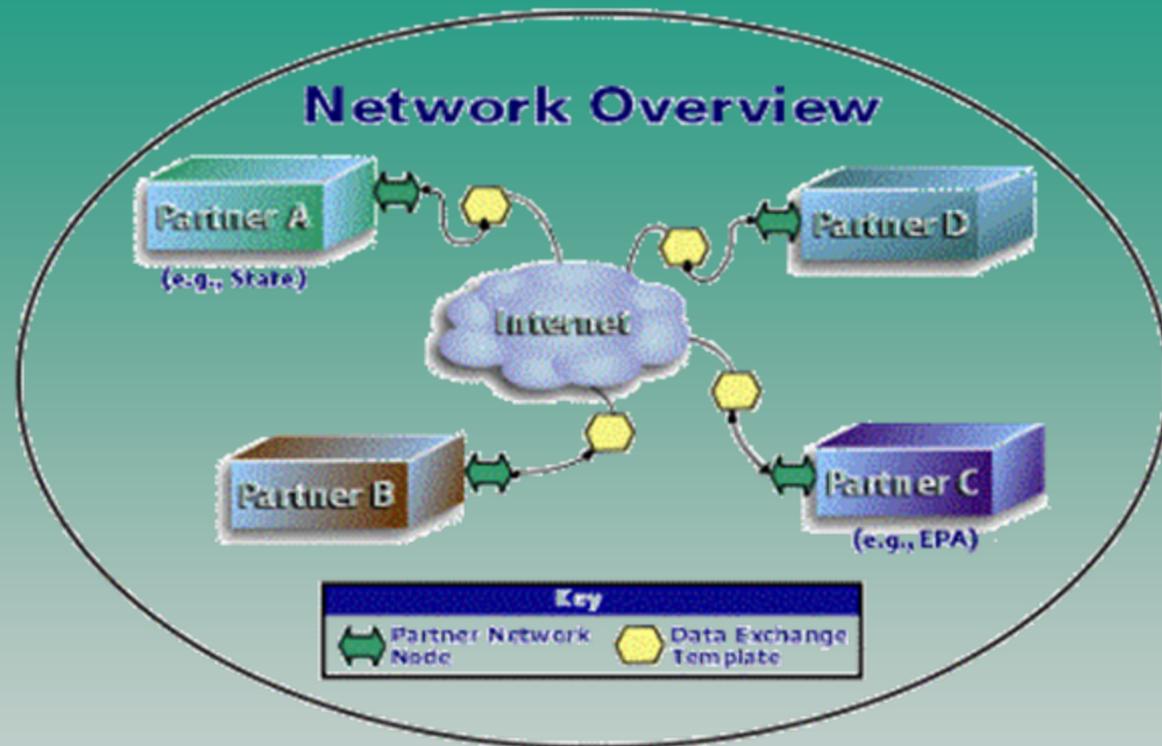
**National Environmental  
Information  
Exchange Network Program**

**November 2008**





# What is the Exchange Network?

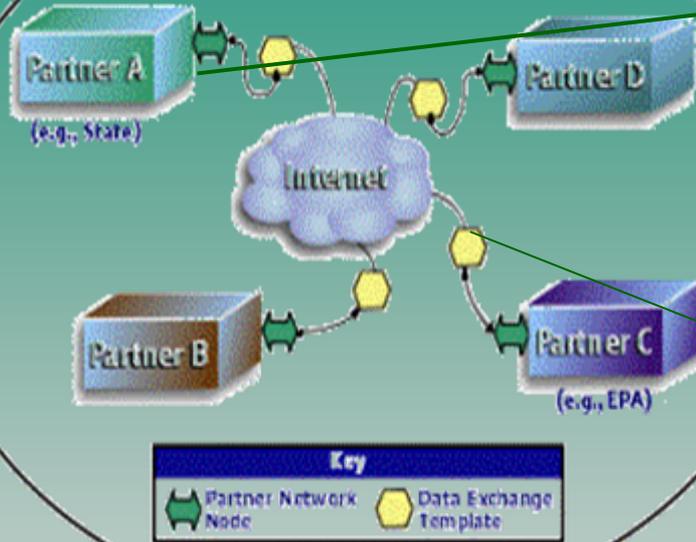


An Internet and standards-based method for exchanging environmental information between partners



# Breaking it down!

## Network Overview



## ➤ Nodes

- Hardware and software used to exchange information on the Network
- Transfer point on the Network

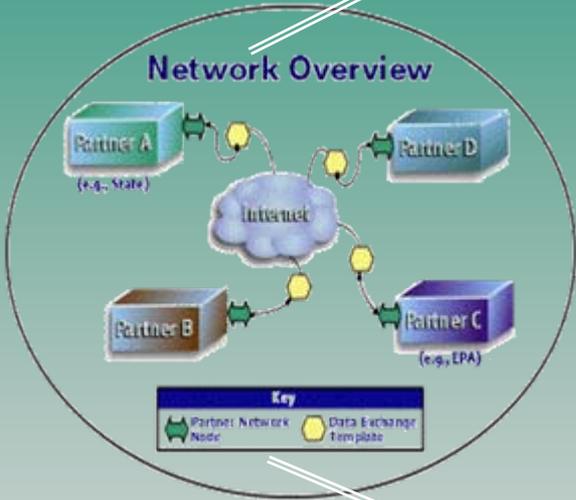
## ➤ Data Exchange Templates

- Describe format of data being exchanged
- Consist of XML schema
- Incorporate data Standards
- XML Schema for flows found in the Registry



# How the pieces fit together

## Environmental Department



Web Server Node



State systems may or may not be integrated.

Both partners map data to be exchanged to same XML Schema

Internet

## EPA

EPA NODE (CDX)

SDWIS Federal System

RCRAInfo

Drinking Water Reporting Schema Package

```
<SDWIS: DrinkingWaterReport>
  <Site Information>
    <Facility #><location>
    <Chemical Info>
    <limit><.88ppm>
```

DET

Hazardous Waste Reporting XML Schema Package

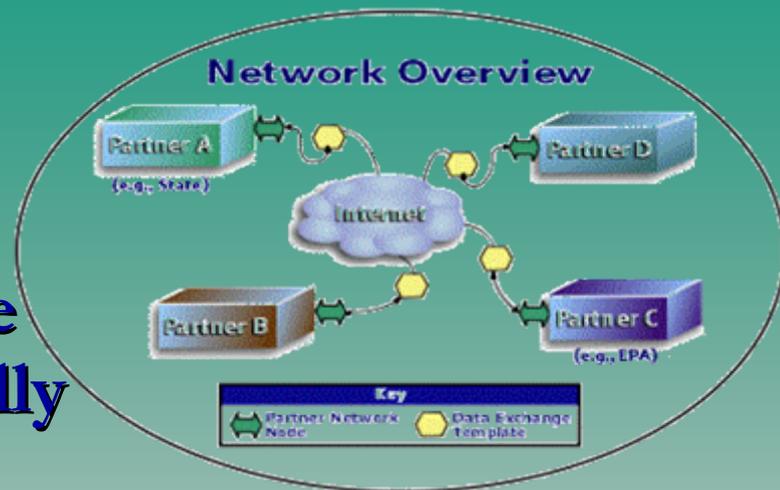
```
<RCRA Facility Status Report>
  <Site Information>
    <Facility #><location>
    <Status Code>
```



# Exchange Network Grant Program

## Purpose:

- Assist states, tribal governments, and territories to develop the capabilities to participate fully



## Goal:

- Enhance electronic reporting capabilities
- Reduce information collection and reporting burdens
- Integrate data from different sources
- Provide timely access to environmental data
- Improve data quality



# FY 2009 Grant Program Focus

## Evaluation Criteria

- **Expected Environmental Outputs, Outcomes and Environmental Results** (20 points)
- **Feasibility/Approach** (20 points)
  - design of project and relationship between project goals, outputs, outcomes, and environmental results.
  - clearly articulates the roles and responsibilities of each partner, the milestones, and a schedule that ensures the work will be accomplished during the project period.
  - clearly stating coordination between the IM/IT department and Environmental/Health programs on this project (e.g. regularly scheduled meetings, a coordination plan, or as described in Appendix D).
  - identified potential problem areas and project dependencies.
  - potential for other Exchange Network partners to build on its results.



# FY 2009 Grant Program Focus

## Evaluation Criteria

- **Relevance/Significance (30 points):**
  - deploying regulatory and national system flows,
  - establishing new 2.0 Nodes,
  - upgrading Nodes,
  - Network publishing,
  - establishing non-regulatory data flows, and
  - developing innovative projects
- **Budget, Resources and Key Personnel (10 points)**
- **Environmental Results Past Performance (20 points)**



# FY 2009 Grant Program Focus

- **Enhance basic IM/IT capabilities**
- **Develop or Upgrade Exchange Network nodes or node clients**
- **Develop/Update Exchange Network data flows:**
  - Air Facility System (AFS) and/or Air Quality System (AQS);
  - Beach Notification;
  - Facility Registry System (FRS);
  - Integrated Compliance Information System – National Pollutant Discharge Elimination System (ICIS-NPDES);
  - Emission Inventory System (EIS);
  - Resource Conservation and Recovery Act Information System (RCRAInfo);
  - Safe Drinking Water Identification System (SDWIS);
  - Toxics Release Inventory System (TRIS); and
  - Water Quality Exchange.
- **Implement collaborative, innovative projects that demonstrate the value of the Exchange Network**



# Eligible Water Data

- Water Quality Exchange (WQX)
- Beach Data
- Safe Drinking Water Identification System (SDWIS)
- Integrated Compliance Information System – National Pollution Discharge Elimination System (ICIS)-NPDES



# Water Quality Exchange (WQX)

- The Water Quality Exchange (WQX) allows Network partners to share ambient water quality data with the U.S. EPA.
- WQX represents the next evolution for EPA's STORET model for sharing water quality data.
- EPA will transition away from a distributed database model towards the Exchange Network model for the sharing of data. This transition is expected to be fully completed in 2009. The release of WQX constitutes a major component of that transition.



# Water Quality Exchange (WQX)

## ■ Version 1

- The physical conditions in the environment at the time of a site visit;
- The chemical and bacteriological make-up of the water sampled;
- Chemical analyses of fish tissue collected.

## ■ Version 2

- Biological Taxon Abundance data, including population census, frequency class, group summaries, and individual results;
- Toxicity data;
- Habitat Assessment scores and their related metric scores;
- Biological Index scores and their related metric scores.



# Exchange Network Grant Program

## FY 2009 Grant Program

### ■ NEIEN Grant Program Solicitation Notice

- Issued September 2009
- Available on line:

<http://www.epa.gov/exchangenetwork/>

<http://exchangenetwork.net/>

- Available by calling Pat Eklund 415-972-3738

### ■ Schedule

- November 21, 2008 – Applications due to EPA
- April 2009 – Notification on funding recommendations





# Exchange Network Grant Program

## Hints for FY 2009

- ❖ **Read Grant Guidance carefully**
- ❖ **Focus on priority data flows**
- ❖ **Look for opportunities to link environmental and health data**
- ❖ **Emphasize accomplishments with funds received to date and gaps**
- ❖ **Look at grant drawdown**
- ❖ **Make sure your semi-annual and final technical reports have been sent to the NEIEN Program Manager (Pat Eklund)**



# Exchange Network Grant Program

**For more information**

**Contact:**

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