



The Unified Platform Emissions Inventory Conference

September 2025

Questions? Please email NEI_help@epa.gov

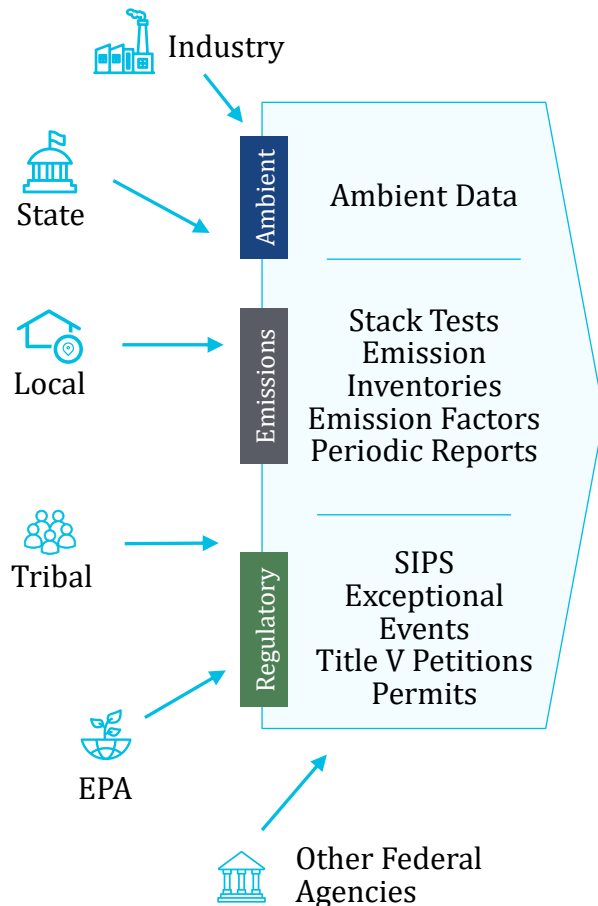
Today's Agenda

- What is the Unified Platform?
- ✨ New Facility Inventory Mockups Demo ✨
- Q&A
- Tell us your feedback!

Unified Platform Project Scope



Data Producers



Existing Systems

Ambient

- AirNow (incl. AirNow Tech, AirNow App, AirNow.gov)
- Air Quality System (AQS) (includes AQS DataMart)

Emissions

- Combined Air Emissions Reporting System (CAERS)
- Compliance and Emissions Data Reporting Interface (CEDRI)
 - Electronic Reporting Tool (ERT)
 - Web and Factor Information Retrieval Database (WebFIRE))
- Emissions Inventory System (EIS)

Regulatory

- State Planning Electronic Collaboration System (SPeCS) for SIPS
- SPeCS for Exceptional Events (EE)
- Petitions to Object to Title V Permits (POTVP)
- SPeCS for Emissions Guideline Plans (EGPs)
- Electronic Permit System (EPS)

Emissions High Level Overview



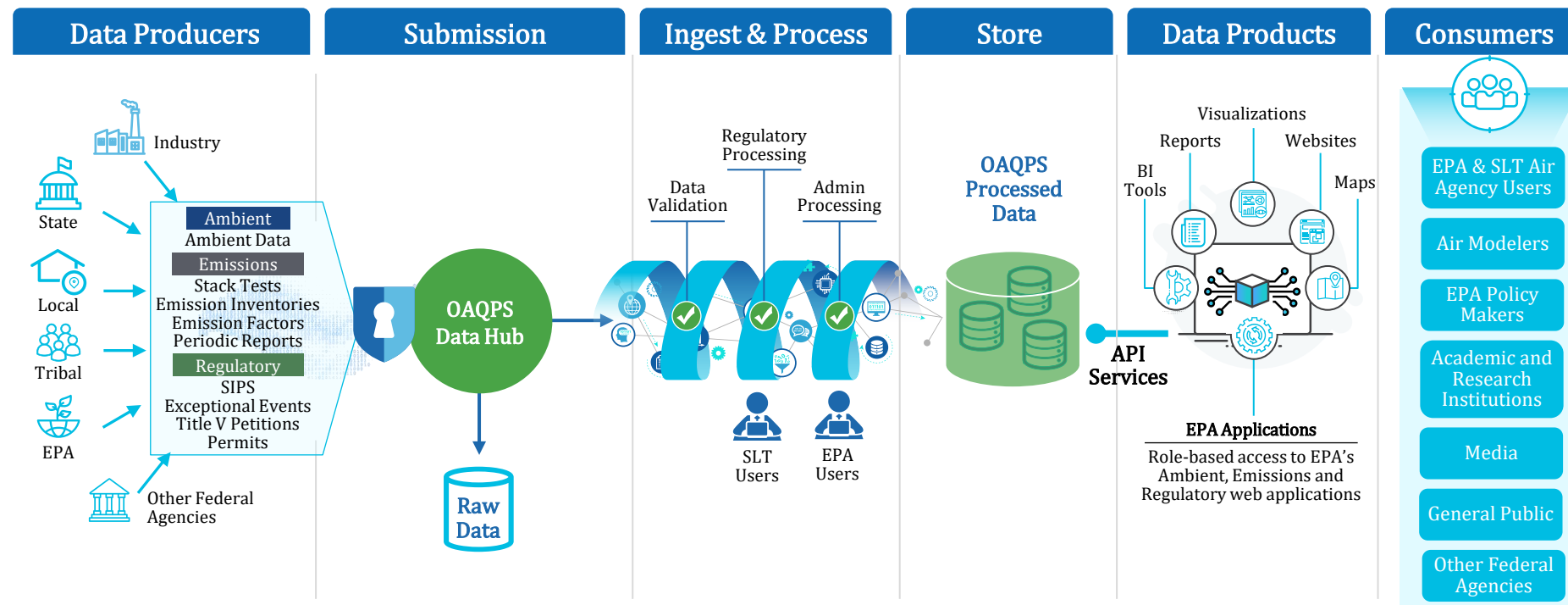
The Unified Platform will combine and replace *functionality* from the following Emissions systems:

- **EIS** – Emissions Inventory System
- **CAERS** – Combined Air Emissions Reporting System
- **CEDRI** – Compliance and Emissions Data Reporting Interface
 - **ERT** – Electronic Reporting Tool
 - **WebFIRE** – Web and Factor Information Retrieval Database

The Vision for the Future of Air Data



The Unified Platform is a ***new*** modern system that will replace outdated air quality data tools like AirNow, AQS, CEDRI, and EIS. Instead of simply combining old systems, EPA is **redesigning how we collect, manage, and share air data** across programs like ambient air, emissions, and regulatory planning.



Functionality in the Unified Platform



Overlapping Functionalities

Unified Experience Design System

Login, Account Creation, User & Organization Management

In-App Notifications & Email Notifications

Data Submission

Data Distribution

User Dashboards & Reports

Certify & Review

Ambient	Emissions	Regulatory
Configure & Manage Network	Facility Inventory Management	Update Review / Area Pages
Data Certification	Prepare Regulatory Emissions Data for Submission & QA Data	Manage Backend Data
Quality Control Review	Develop Emissions Factors	Internal & Sanction Clocks
Air Quality Forecasting	Prepare NEI Data for Submission & QA Data	Deficiencies for Redesignation
Reporting Areas	Refine Data for Annual Reports	Area Status & Reclassification

How We're Building the Unified Platform



The Unified Platform project follows a repeatable “Assembly Line” model in conjunction with an internal and external stakeholder engagement philosophy that is implemented throughout all phases:

- **Discovery:** Understand current systems and data needs.
- **Design:** Collaborate on future-state workflows through user-centered design.
- **Build:** Develop, test, and validate features; migrate legacy data.
- **Implement:** Deploy features, pilot new system components, train users.



Our process is **Agile** - **stakeholders are continually involved** in iterative design, development, and testing.

Designing Functionality in the New System



User focused development:

- What are the objectives and tasks (use cases)?
- How to design the best system to perform these?

For example: enter data for an emissions unit, get a PM_{2.5} report.

Emissions Functionality Categories



		Related Legacy Systems				
		EIS	CAERS	ERT	CEDRI	Web FIRE
Replace ERT & CEDRI	Facility Inventory Management	X	X		X	
	Account Creation & Management	X	X		X	
	Manage Users & Facilities Access Requests	X	X		X	
	Submit Formerly CEDRI Emissions Data				X	
	Prepare Formerly CEDRI Emissions Data for Submission & QA Data			X	X	
	CROMERR Process (Certify & Review)		X		X	
	Search and View Data/Reports	X		X	X	X
	Manage App Properties & Notifications	X	X		X	
Replace WebFIRE	Develop Emissions Factors					X
Replace EIS & CAERS	Prepare NEI Data for Submission & QA Data	X	X			
	Submit SLT NEI Data	X	X			
	Export Data & Generate Reports	X	X		X	
	Refine Data for NEI (& other annual reports)	X				

We would like your help with this category today.

Use cases included in Facility Inventory Management:

- Searching for a facility
- Requesting access to a facility (so a user can work with that facility with their relevant permissions e.g. prepare, certify and submit, review a report)
- Creating a new facility
- Viewing and editing an existing facility
- Managing my facilities (viewing and editing all facilities the user is associated with)
- Combining duplicate facilities
- Locking facility data points preventing edits
- Reviewing a bulk upload of facilities
- Performing a bulk upload of a facility

*These will NOT be shown
in the Demo today*

Did we miss any items specific to facility inventory management that are not included in this list?

Facility Inventory Pain Points



Based on the feedback we've received so far from EPA staff, we've heard the following pain points with functionality in current systems:

- Difficult to search for facilities in CEDRI & FRS (Facility Registry Service)
- Easy to mistakenly make duplicate facilities
- Inconsistent facility data across systems
- Difficult to upload and QA facilities in bulk
- CEDRI and EIS use different facility IDs
- Difficult to compare emissions data across emissions system
- Unable to store and view facility configurations at different points in time

Did we miss any pain points that you would like to add to this list?

Merging Facility Records



Current state before merged

The same real world facility looks slightly different in each system today

CAERS Facility Record		
Primary ID:	783111	
Name:	JP's Shoe Factory, INC	
Street Addr:	100 footstep st, suite 500	
Alt IDs Other ID's that this facility is known by in other systems		Where did this alt ID come from? (an agency or a legacy system?)
Alt ID 1:	AI0327	NCBCRAQA
Alt ID 2:	837293	TRI-MEweb

EIS Facility Record		
Primary ID:	783111	
Name:	JP's Sneaker Factory	
Street Addr:	100 footstep st	
Alt IDs Other ID's that this facility is known by in other systems		Where did this alt ID come from? (an agency or a legacy system?)
Alt ID 1:	AI0327	NCBCRAQA
Alt ID 2:	563811	EIS

CEDRI & FRS Facility Record		
Primary ID:	999983156850	
Name:	JP's Shoe Factory	
Street Addr:	200 footstep st, suite 500	
Alt IDs Other ID's that this facility is known by in other systems		Where did this alt ID come from? (an agency or a legacy system?)
Alt ID 1:	CEDRI10044651	CEDRI

Differences are highlighted yellow

After merged in the Unified Platform

★ Unified Platform Facility Record ★		
Primary ID:	ff8ghg837t9	
Name:	JP's Shoe Factory, INC	
Alt Name 1:	JP's Sneaker Factory	
Alt Name 2:	JP's Shoe Factory	
Street Address:	100 footstep st, suite 500	We would NOT store all alt addr. We would ask them to pick which address to keep from the 3 available
Alt IDs Other ID's that this facility is known by in other systems		Where did this alt ID come from? (an agency or a legacy system?)
Alt ID 1:	AI0327	NCBCRAQA
Alt ID 2:	783111	EIS
Alt ID 3:	837293	TRI-MEweb
Alt ID 4:	783111	EIS
Alt ID 5:	AI0327	NCBCRAQA
Alt ID 6:	563811	EIS
Alt ID 7:	999983156850	FRS
Alt ID 8:	CEDRI10044651	CEDRI

We don't keep these IDs because we already have them above

New Facility Inventory Mock-ups Demo

Future State - Highlights



Redesign Goals

Minimize errors and duplicates	More intuitive and user friendly
A single reliable data source	Clearer and more transparent processes

Request Access

DashboardFacilitiesDataAdministration

Search & Request Facility Access

Search Facilities

Facility Name

UP Facility ID

Agency Facility ID

Alternate Facility ID

Alternate ID Source

Search

Q Search Map

Create A Facility

DashboardFacilitiesDataAdministration

Create

Facility ABC

Release Points

Completed Release Points

Release Point 1

Release Point 2

Request Merge

DashboardFacilitiesDataAdministration

Facility Management- Duplicates

Name (Select all)	Address	NAICS	Agency Facility ID	Status	Last Active
Facility ABC	2700 Facility Parks Blvd, Pigeon Forge, TN 37863	0000	0000000000	Under Construction	2 minutes ago
Placeholder	2700 Facility Parks Blvd, Pigeon Forge, TN 37863	0000	0000000000	Temporarily Shut Down	20 days ago
Placeholder	2700 Facility Parks Blvd, Pigeon Forge, TN 37863	0000	0000000000	Temporarily Shut Down	5 months ago
Placeholder	2701 Facility Parks Blvd, Pigeon Forge, TN 37863	1111	0000000000	Operational	6 months ago
Placeholder	2702 Facility Parks Blvd, Pigeon Forge, TN 37863	1111	0000000000	Operational	6 months ago
Placeholder	2700 Facility Parks Blvd, Pigeon Forge, TN 37863	7777	0000000000	Operational	5 years ago

Future State - Search and Request Access



Enhancements

- Modern search features like a visual map
- Condensed and searchable table for filtering and scanning results quickly
- Bulk action features to save time on tasks

UP

Dashboard ▾ Facilities ▾ Data ▾ Administration ▾

Search & Request Facility Access

Search Facilities

Facility Name UP Facility ID Agency Facility ID Alternate Facility ID Alternate ID Source [Advanced Search](#)

Search Results
Request access to facilities based on the following results.

☐	Name	Address	Agency	Agency Facility ID	Request Status	Company Name	
☒	Facility ABC Alt ID- Dolly cafe, Dolly...	2700 Facility Parks Blvd, Pigeon Forge, TN 37863	Placeholder Data	0000000000	Approved	placeholder	
☒	Placeholder Alt ID- placeholder data	2700 Facility Parks Blvd, Pigeon Forge, TN 37863	Placeholder Data	0000000000	Pending	placeholder	
☐	Placeholder Alt ID- placeholder data	Placeholder address, State, City, zip code	Placeholder Data	0000000000	Denied	placeholder	
☐	Placeholder Alt ID- placeholder dat...	Placeholder address, State, City, zip code	Placeholder Data	0000000000	Approved	placeholder	
☐	Placeholder Alt ID- placeholder dat...	Placeholder address, State, City, zip code	Placeholder Data	0000000000	Approved	placeholder	
☐	Placeholder Alt ID- placeholder dat...	Placeholder address, State, City, zip code	Placeholder Data	0000000000	Approved	placeholder	

Grouping Panel

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Future State - Create A New Facility



UP

Dashboard

Facilities

Data

Administration

+ Create

Primary record

Additional facility details

Release points

Release Point Tolerance

Units

Processes

Control Devices

Paths

Review & Submit

Facility ABC

Operating

Edit

UP ID 0000000000 | Agency ID 00000 | TNDAQ

1111 Facility St. Suite #11, Pigeon Forge, TN 37863

Release Points

Please complete the following information concerning your facilities release points, or [bulk upload](#) your facility's details, release points, units, controls, and control paths for review.

Completed Release Points

This is a summary of your release points. Select "Edit" to change the release point details.

Release Point 1

Delete

Edit

UP Release Point ID (1)

Release Point Latitude

Release Point Longitude

Release Point Type

Placeholder ID

Placeholder Latitude

Placeholder Longitude

Placeholder Type

Release Point 2

Release Point Latitude*

Release Point Longitude*

35.7951° N

83.5312° W

The latitude/longitude exceeds the release point tolerance.

Error

Enhancements

- Transparent and flexible process
- Errors shown in real time
- Ability to correct errors or continue without correction
- Bulk upload at any point in the flow
- Saving progress as you work

U.S. Environmental Protection Agency

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Future State - Request Facility Merge



Unified Platform

DashboardFacilitiesDataAdministration

Log OutHelpDP

Role Requests UP

Request Merge Facilities

Select Facilities

Create Combined Facility

Submit Merge Request

Edit Components

Request Merge Facilities

Select facilities from the table that you would like to request to merge then select Request Merge Facilities at the top of the table to create your new combined facility record. If the facility draft is not selected or edited it will be deleted. No changes will be made to unselected facilities.

Edit Facility DraftDelete Facility DraftRequest Merge Facilities

Search all columns

Name (Select all)	Address	NAICS	Agency Facility ID	Status	Last Active
☐ Dollywood Facility Draft	2700 Dollywood Parks Blvd, Pigeon Forge, TN 37...	0000	0000000000	Under Construction	2 minutes ago
☐ Placeholder Alt ID- placeholder da...	2700 Dollywood Parks Blvd, Pigeon Forge, TN 37...	0000	0000000000	Temporarily Shut Down	20 days ago
☐ Placeholder Alt ID- placeholder da...	2700 Dollywood Parks Blvd, Pigeon Forge, TN 37...	0000	0000000000	Temporarily Shut Down	5 months ago
☐ Placeholder Alt ID- placeholder da...	2701 Dollywood Parks Blvd, Pigeon Forge, TN 37...	1111	0000000000	Operational	6 months ago
☐ Placeholder Alt ID- placeholder da...	2702 Dollywood Parks Blvd, Pigeon Forge, TN 37...	1111	0000000000	Operational	6 months ago
☐ Placeholder Alt ID- placeholder da...	2700 Dollywood Parks Blvd, Pigeon Forge, TN 37...	7777	0000000000	Operational	5 years ago

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Enhancements

- Streamlined and clear process
- Preventing duplicate facilities before new facilities are created
- Clean data and clear versioning
- Minimizing tracking and reporting errors by creating a single source of truth

Q&A

Please type your questions into the area for Q&A

Future opportunities to share your feedback



Thank you for your feedback today! If you'd like to share more feedback about what you saw today and/or participate in more feedback sessions like this in the future...please fill out [this interest form](#).

We will also have listening sessions as follows:

- **Ambient Systems Listening Sessions (identical content)**
 - September 22, 2025, at 2:00 PM
 - September 30, 2025, at 1:00 PM
- **Emissions Systems Listening Sessions (identical content)**
 - September 29, 2025, at 1:00 PM
 - October 6, 2025, at 2:00 PM
- **Regulatory Systems Listening Sessions**
 - TBD

Interest Form QR Code



Thank you for your time today!