



UNIFIED PLATFORM
YOUR AIR. YOUR DATA. YOUR WAY.

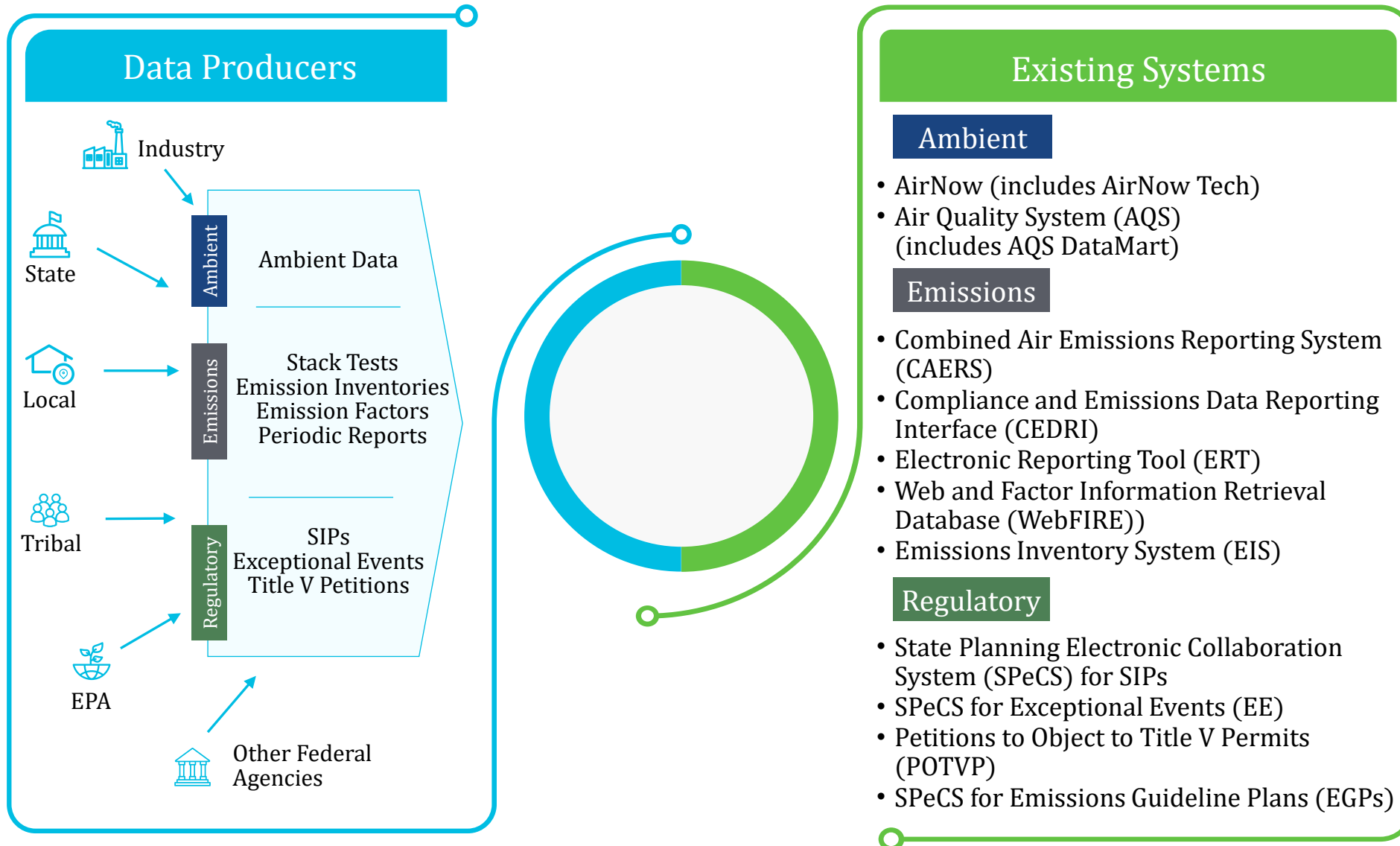
Exchange Network Forum: Unified Platform Project Update

July 9, 2026

- Unified Platform Project Background and Overview
- Unified Platform Project Data Standards and Conceptual Data Models Overview
- Frequently Asked Questions
- Looking Ahead – Engagement Opportunities
- Q & A

Disclaimer: Please note that the Unified Platform will be undergoing a rebranding, and for the purposes of this presentation, it is referred to as the Unified Platform Project. Additional details regarding the new brand identity will be shared soon.

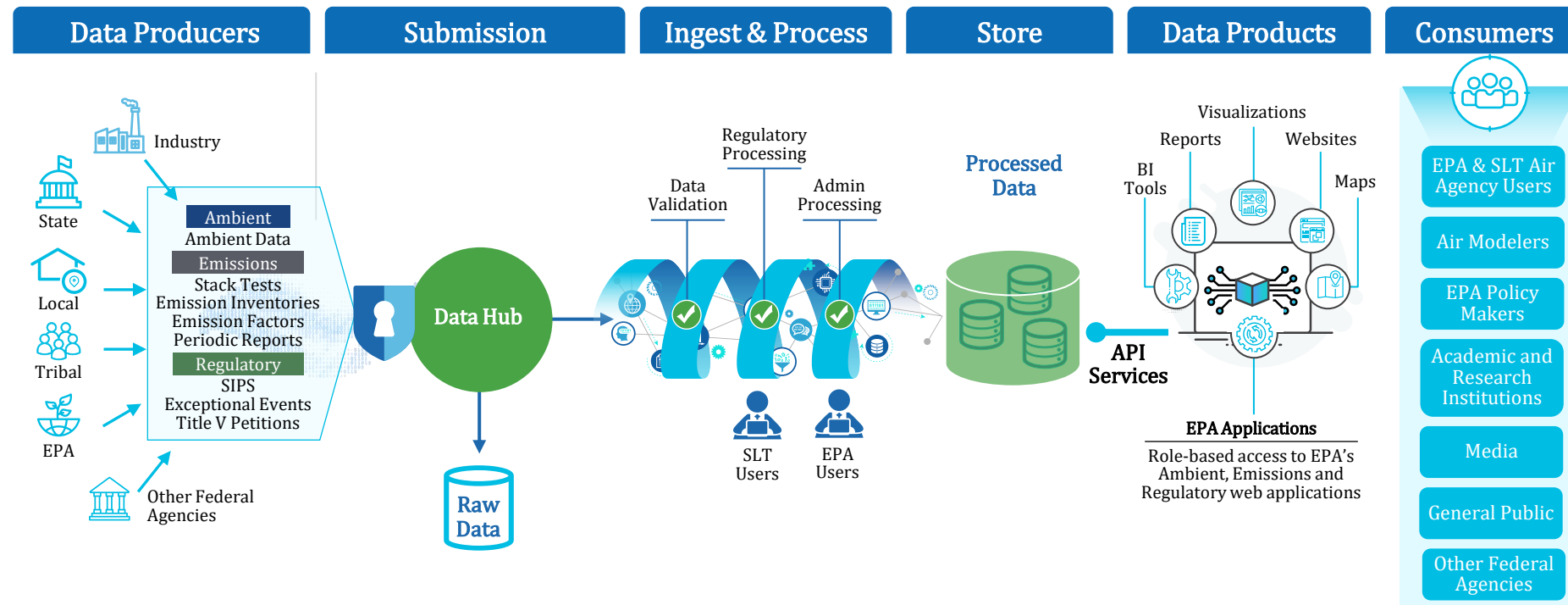
What is EPA's Unified Platform Project?



The Vision for the Future of Air Data



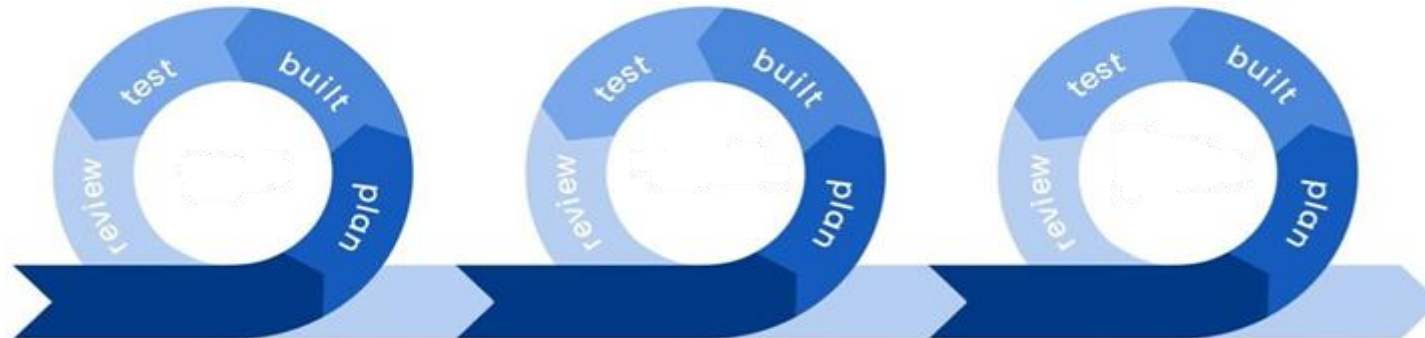
- The Unified Platform Project will result in a *new* modern system that redesigns how we collect, process, store, and share data across programs.



Minimum Viable Product (MVP) Approach



- The MVP approach focuses on delivering small pieces of the new system and building on them over time.
- The initial scope covers:
 - **State Implementation Plan submissions and tracking.**
 - Building the system framework; registering users and managing accounts.
 - Ambient monitoring networks, submitting ambient air data, performing QC on the data, and view/manage the submitted data.
 - Creating a single set of facility information; limited stack test reporting.
- Engage with internal and external stakeholders throughout the process.



Current Data and Functionality are the Foundation

- Existing data and system functionality are the starting point; the project will evolve as process improvements are identified by the business line teams.

Transition Approach

- New system features will run in parallel with existing systems.
- Existing systems will be retired only after features are tested and ready in the new system.
- Retirement timelines have not yet been determined.

June Data Standards: What We Shared and Why



Thank you for your feedback!

We appreciate the thoughtful comments received so far. Your input helps us improve the project as we continue to modernize EPA's air systems.

Why We Shared the Initial Data Standards

The first data standards packages were intended to:

- Establish a common set of business terms and data definitions.
- Introduce the first **Minimum Viable Products (MVPs)** being developed for each business line.
- Show how Conceptual Data Models and Data Standards support future Unified Platform capabilities.
- Clarify that these MVP data standards **do not represent the full scope of future functionality, reporting requirements, or reporting formats.**

Key Message

These are the foundation—not the finished system. Additional capabilities and data standards will be developed and shared over time.

Future Partner Engagement



We Will Continue to Engage Partners Where It Matters Most

Next, we will focus on:

- New or revised file formats
- Data exchange schemas
- Automated interfaces between partner and EPA systems
- Bulk data submissions

Examples

- **Ambient:** Future Ambient Data Exchange Format (planned beginning August 2026)
- **Emissions:** Future emissions inventory data format for submissions
- **Other reporting:** Modernizing PDF and spreadsheet submissions, where applicable

Online Forms (Direct Data Entry in User Interface / Bulk Uploads)

Most Unified Platform capabilities will use online forms.

- We do not anticipate regulatory changes in required data.
- EPA will maintain a comprehensive **Unified Platform Data Dictionary** describing the data used throughout the system, making data sharing easier for common data elements across programs.

Our Goal

Focus partner review where UP implementation may impact existing systems while minimizing unnecessary review and reporting burden.

What Feedback Are We Looking For?



We're Looking For

Correct terminology

Missing objects

Missing relationships

Missing data concepts

Process accuracy

Not Looking For

Database design

UI colors/layout

Technical architecture

Screen design details

Implementation approach

Our goal for the data standards and conceptual data model review process is to allow our external partners to validate our understanding of the business—not the technical implementation.

Managing the Project through Business Lines



Program Business Lines

Ambient	Emissions	Regulatory	Combined	Technical
Focuses on real-time and historical monitoring data. (<i>i.e.</i> , AQS and AirNow)	Covers emissions inventory and facility reporting. (<i>i.e.</i> , EIS, CEDRI, CAERS, ERT, WebFIRE)	Supports Clean Air Act planning, permitting, and exceptional events. (<i>i.e.</i> , SPeCS for SIPs and SPeCs for Exceptional Events, POTVP)	Identifies cross-business line efficiencies. Ensures all business lines teams are working together.	Responsible for developing the architecture, the system, and hosting environments. Ensures compliance with security and privacy policy.

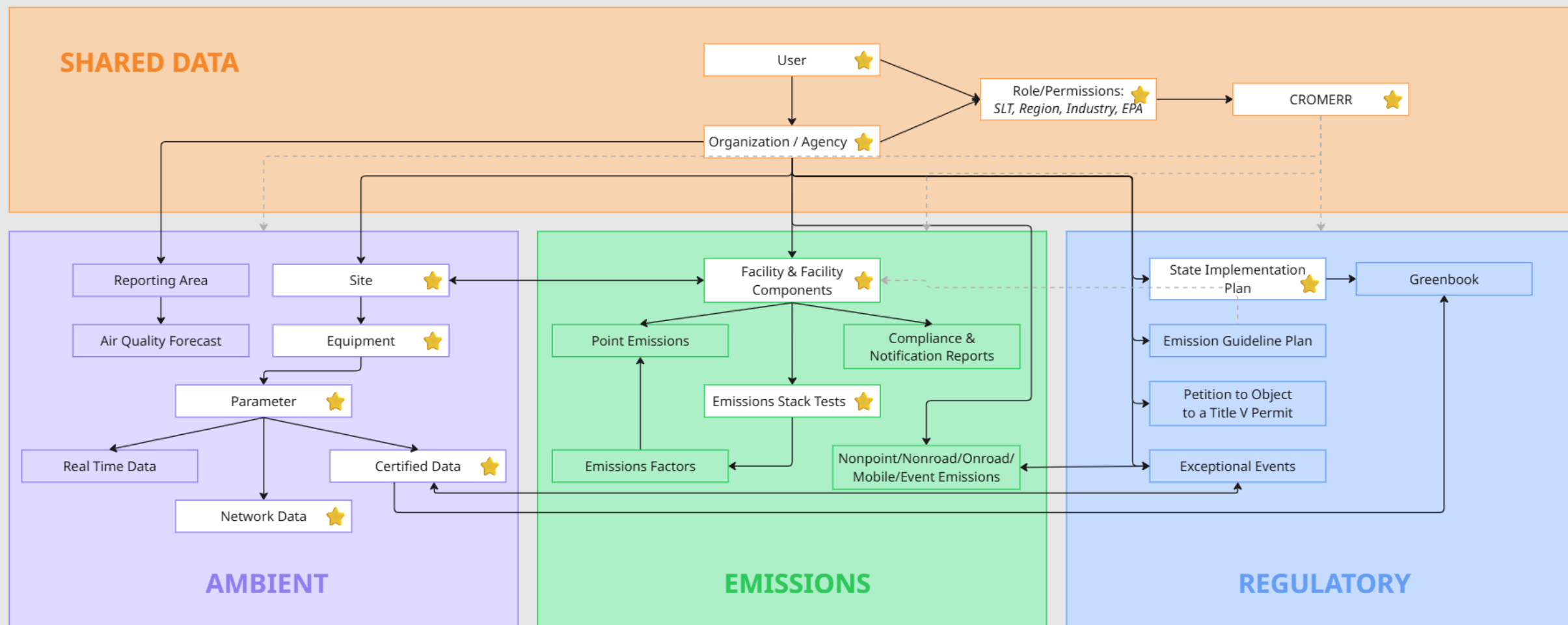
- The project is organized into five business lines – three of these are based on program groupings.
- Program business lines include EPA staff and State, Local, Tribal, and industry representatives.
- Each business line moves at its own pace based on internal and external stakeholder participation.
- Current focus is on developing and delivering MVP features.

Unified Experience Across Business Lines



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MVP Scope = ★ & white box



Q1: Are these the future reporting formats?

A1: No. These artifacts establish common terminology and data organization. Future reporting formats will be shared separately when applicable. We provided a preview of the Ambient data formats today that will be released for external partner review in August 2026.

Q2: Why are only portions of each business line represented?

A2: The new system is being developed iteratively. The June release focused on MVP use cases rather than the complete scope of functionality.

Q3: Why are you asking for feedback now?

A3: Because validating business terminology and data relationships early reduces rework later in development.

Q4: Will my existing data submissions change?

A4: Not necessarily. Many capabilities of the new system will continue using online forms with little or no change to the information being collected. When new exchange formats or reporting requirements are proposed, EPA will engage stakeholders before implementation.

Q5: What kind of feedback is most helpful?

A5: We are primarily looking for feedback on: Business terminology, missing business objects, missing relationships, business process accuracy, data definitions. Technical implementation details will be addressed during future design and development activities.

Q6: Will all future capabilities of the new system include Data Standards packages?

A6: No. EPA plans to publish data standards primarily when changes could affect exchanged data, reporting formats, or partner integrations. Capabilities that only involve online forms or internal system functionality may not require a separate data standards release.



Q7: Will EPA continue involving state, local, and Tribal partners throughout development?

A7: Yes. External engagement is a core principle of the Unified Platform Project. EPA will continue engaging stakeholders throughout discovery, design, build, testing, and implementation to ensure the platform reflects operational needs and reduces reporting burden.



- External engagement is a core principle of the Unified Platform Project development approach.
- The Unified Platform Project team is committed to:
 - **Continuous engagement with State, Local, and Tribal (SLT), EPA Regions, and industry partners** to help ensure the platform supports real operational needs and reduces reporting burden.
 - **Commitment to sharing air program related data exchanges** through the EPA Exchange Network Partnership [site](#).
 - **Transparent communication throughout development** so stakeholders can review progress and provide input as the system evolves.
 - **Incorporating stakeholder perspectives into system design and functionality** to better support Clean Air Act program implementation.
- Our goal is to build the new system *with* our partners, not just *for* them.

What is Coming Next?



July	August	Future
Jul 9 at 3 pm EST – Information Session Join: https://teams.microsoft.com/meet/243268716108103?p=xm4fAixpkklaX-Mb62Y Meeting ID: 243 268 716 108 103 Passcode: bd64uG9M	- Business Line Conceptual Data Model and Data Standards Feedback - Ambient Data Format Standard Document - Quarterly Unified Platform Project Webinar with Live Demo on Wednesday, August 19 at TBD	- Ongoing Project Quarterly Webinars - Emissions Data Format Reviews - User Experience Demos - User Testing

- If you have questions, contact the Unified Platform project team at: UP@epa.gov



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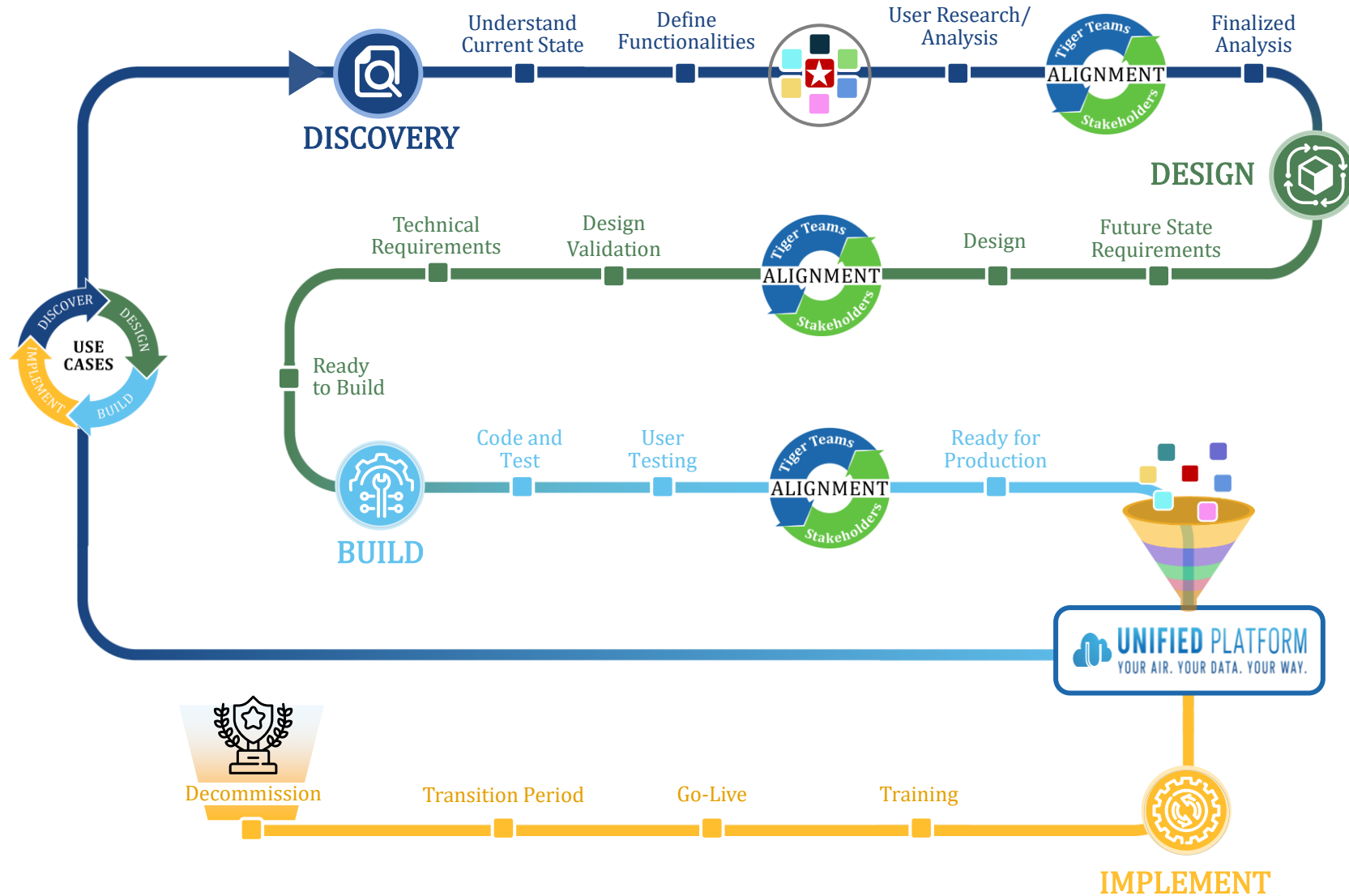
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Assembly Line Process



Example of the Assembly Line Process



Stakeholders:



State



Local



Tribal



EPA



Other Federal Agencies



Industry

Ambient

Organization & Account Creation

Organization & User Management

Configure & Manage Network

Emissions

Facility Inventory Management

Account Creation & User Management

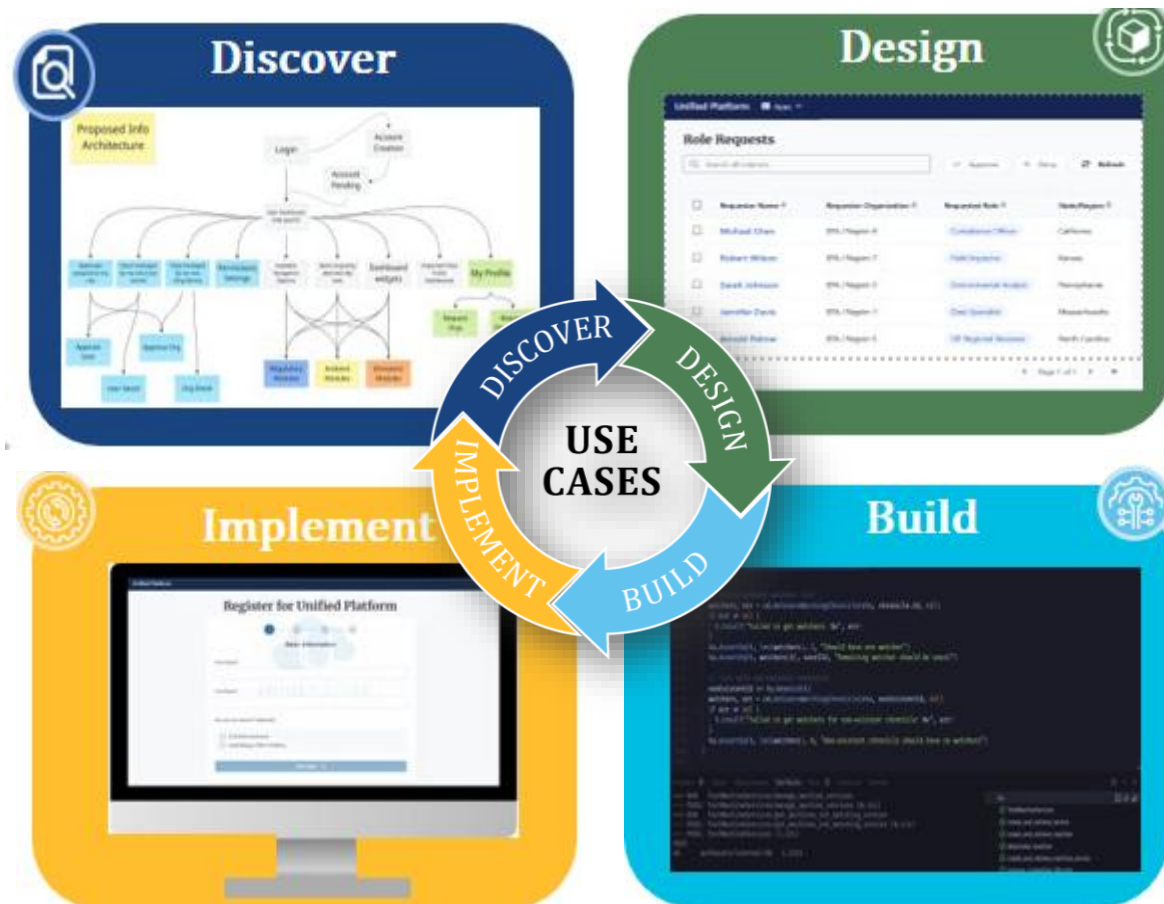
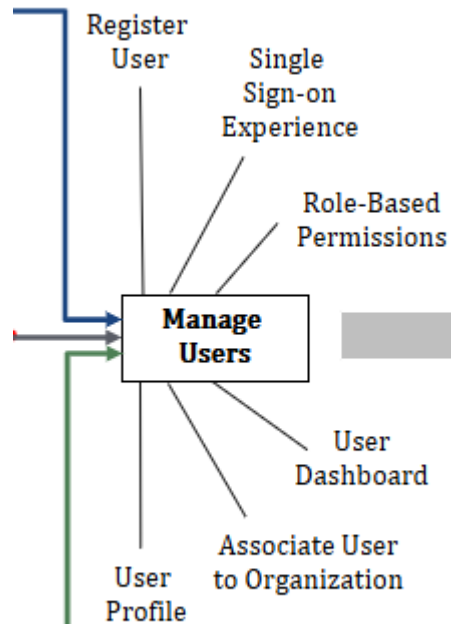
Manage Users & Facilities Access Requests

Regulatory

Account Creation & User Management

Manage User Access Requests

Data Submission



Air Programs and Systems



System	Programs	Regulatory Authority
Air Quality System	- Ambient Air Monitoring - NAAQS - Quality Assurance - Exceptional Events	CAA §109, §172, §182, §189 40 CFR Parts 50, 53, and 58
AirNow	- AQI - Fire and Smoke	CAA§103, §319 40 CFR Parts 58.50 and 58 Appendix G
Emissions Inventory System	Emissions Inventories	40 CFR Part 51
Combined Air Emissions Reporting Interface	- Emissions Inventories - Performance Tests	
Compliance and Emissions Data Reporting Interface	- Performance Test, Notification, Periodic, & Title V Reports - ICRs	CAA § 111, 40 CFR Parts 60, 59, and 61 CAA § 112, 40 CFR 63 CAA § 129, 40 CFR 52
Electronic Reporting Tool	Stack Testing	CAA § 111, 40 CFR Parts 59, 60, and 61 CAA § 112, 40 CFR 63 CAA § 129, 40 CFR 52
Web Factor Information Retrieval Database	Emissions Factors	CAA §111, 40 CFR 60 CAA §112, 40 CFR 63 CAA §130
MOSAIC Platform – SIPs, Exceptional Events, Title V Petitions, EGPs (no existing application)	- State Implementation Plans - Exceptional Events - Title V Petitions - Emissions Guideline Plans	CAA § 109 CAA § 110 CAA §319(b), 40 CFR Parts 50.1, 50.14, and 51.930 CAA § 111, 40 CFR 60 CAA § 112, 40 CFR 63

How External Engagement Participants are Selected



- The Unified Platform Project External Engagement Coordinators worked to identify and invite participants using the following criteria:
 - System Experience
 - Participants were selected based on their direct use of EPA air data systems across the ambient, emissions, and regulatory business lines
 - Workflow Role(s)
 - Users representing key functions such as data submission, review, analysis, compliance, and program oversight were prioritized
 - Stakeholder Representation
 - Users from SLT agencies, EPA Regional Offices, and industry partners where applicable
 - Availability & Alignment
 - Participants were chosen based on their availability and relevance to the specific engagement activities planned for each business line