



OAQPS Unified Platform Project



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Outline of Talk

Background

What is a Unified Platform?

Guiding principles

Benefits of the project

Process and timeline

What it means for you

Q&A

STATE OF OAQPS SYSTEMS



OAQPS has many information collection systems.



80% of the ambient information collected in AirNow and AQS overlap.



95% of the Point Source emissions information collected in EIS and CAERS overlap.



Similar information collected by multiple systems.



Old, difficult to use, cumbersome web applications and tools.



Data is in distributed data sets today, making it difficult to access and analyze.

What is a Unified Platform?

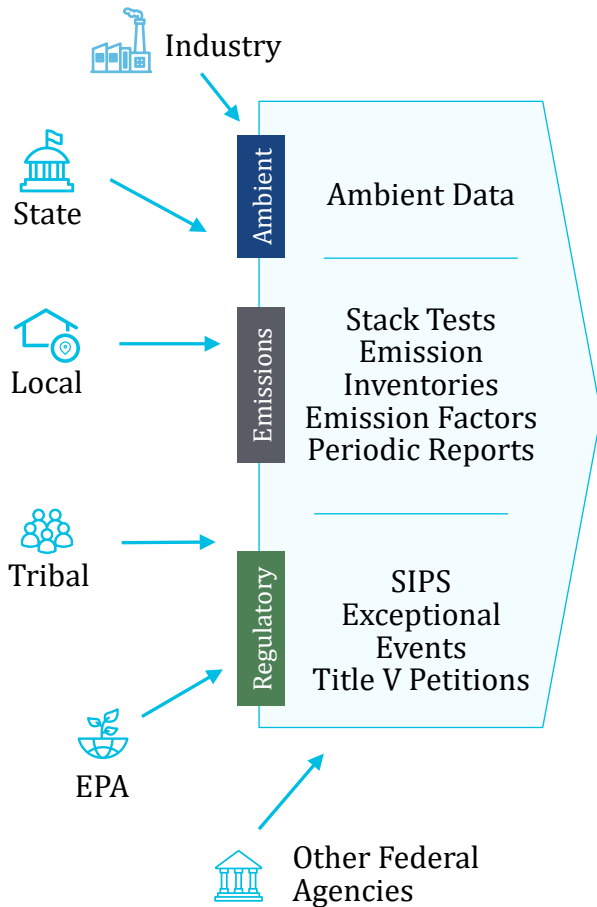


- A single architecture that accepts, processes, stores, and distributes OAQPS programmatic information.
 - Information is provided by regulated/non-regulated entities through one central mechanism.
 - Information, regardless of the program, is processed and stored in the same “place.”
 - Information, regardless of the program, is accessible from the single data store.

What is in 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)

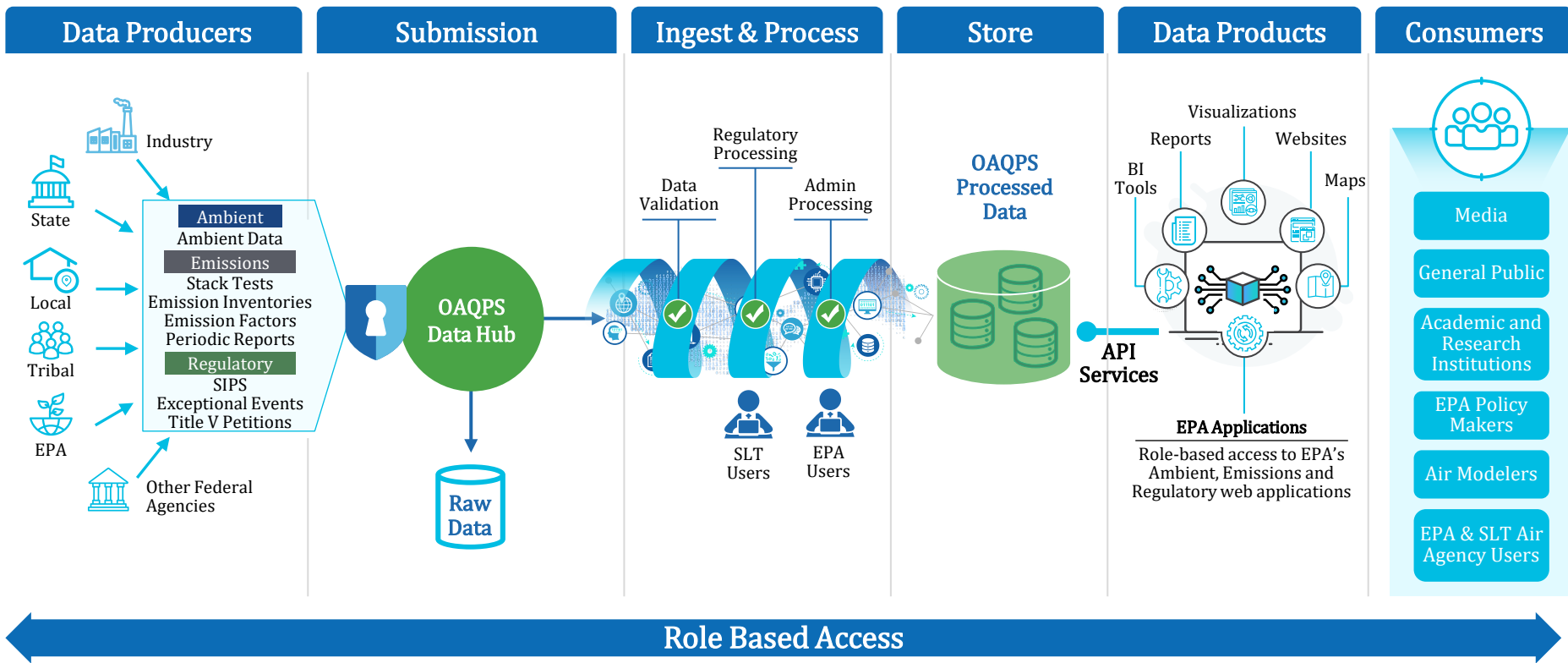
Regulatory

- 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)

What is a Unified Platform?



UNIFIED PLATFORM YOUR AIR. YOUR DATA. YOUR WAY.



Project Guiding Principles



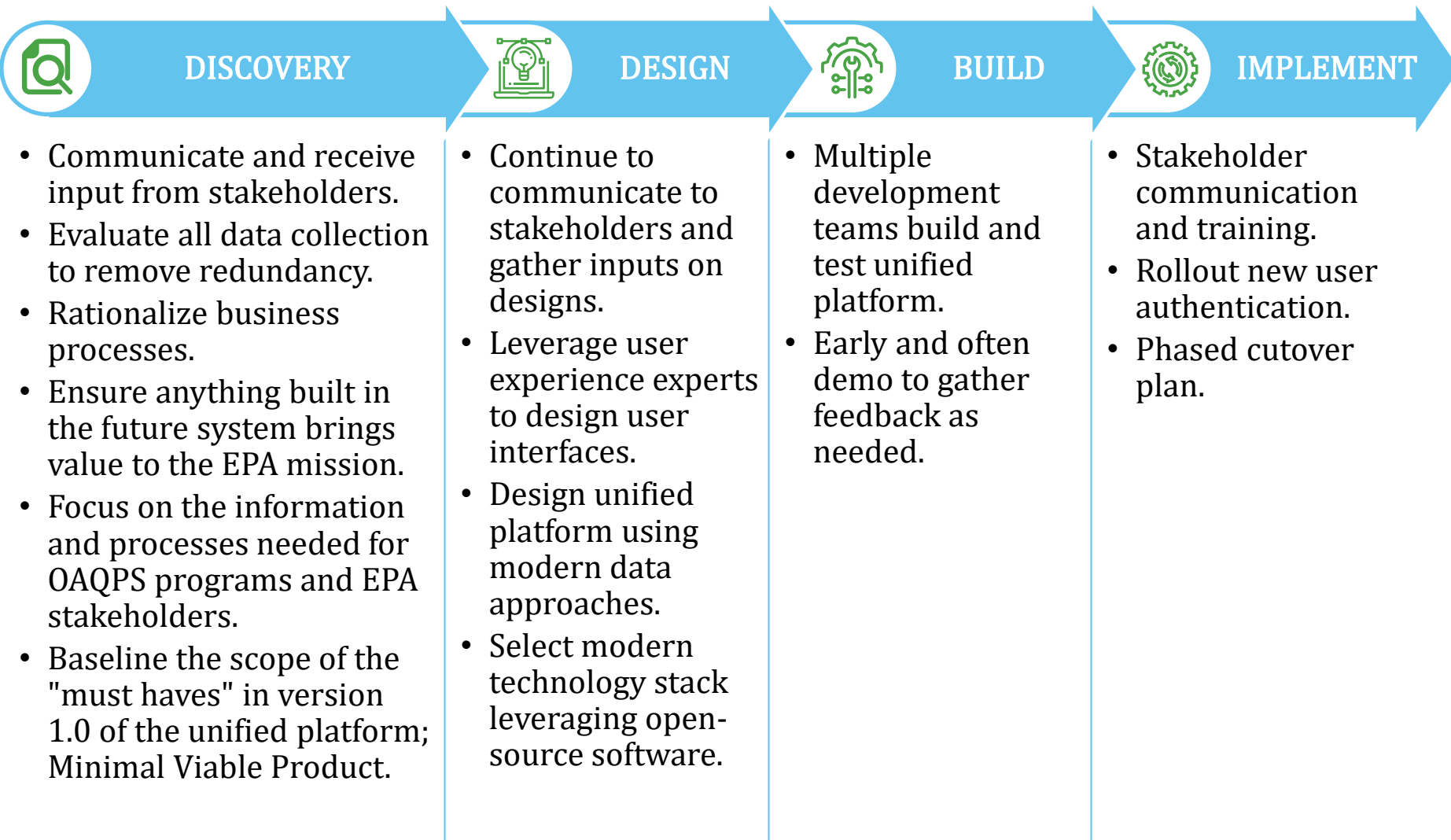
- Ensure stakeholder communication and engagement throughout the life of project.
- Follow the Agency's digital strategy.
- Adopt
 - a cloud-first approach.
 - an API/microservices-oriented architecture approach.
 - an open-source software first approach.
 - where possible, a low code/no code development approach.
- Focus on using Agency shared services that add value to the project.
- Legacy systems will be gradually phased out in favor of the new Unified Platform.

Benefits of the Project

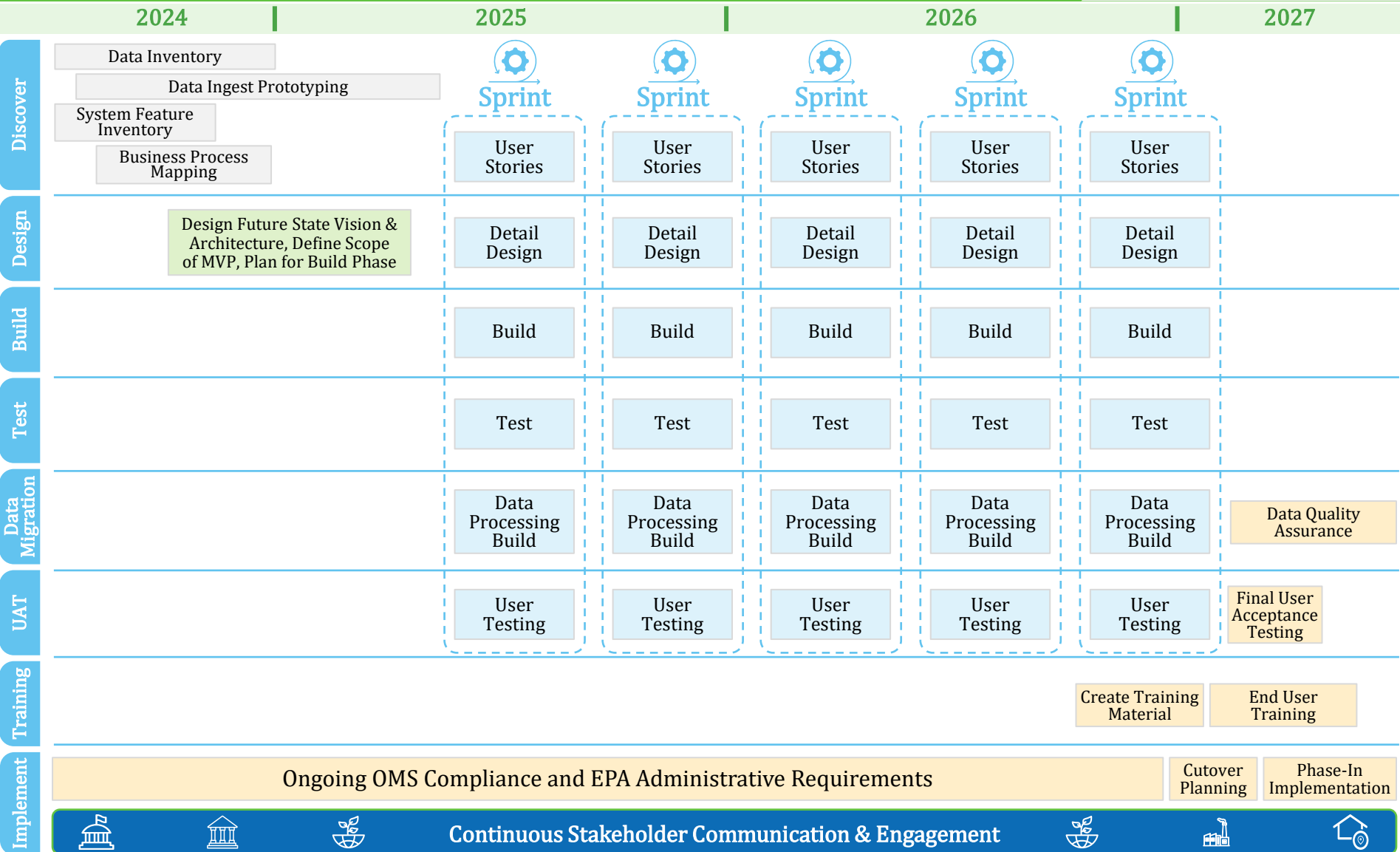


- Modernize data submission and retrieval.
- Modern applications to interact with data.
- Streamlined user experience.
- Reduce the burden on SLTs and EPA.
- Faster application development and updates.
- Lower overall costs of operations for EPA.

This work includes the development of a unified platform to incorporate programmatic and community air quality information, to improve accessibility of the information for permitting authorities and communities so that EPA can better monitor air quality improvements over time.



Timeline



What This Means for You?



- Legacy systems will be gradually phased out in favor of the new Unified Platform.
- Use Login.Gov to authenticate and manage passwords.
- Consistent modern user interface.
- Streamlined access to information.
- Take advantage of what is working well today while leveraging more modern technologies.
- Look for Unified Platform.
- User training and training guides will be provided.

Questions and Contact Information

Primary Point of Contact

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(in process of setting up)

