



# Bridging the Data Gap with Technology

Utilizing AASHTOWare OpenAPI to connect OHDOT and KYTC

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# Bridging the Data Gap with Technology

- Large Scale infrastructure projects, like the Brent Spence Bridge, require strategic data management to ensure success.
- Leveraging shared applications and integrated APIs, agencies can improve collaboration, transparency, and decision making.
- Providing stakeholders with real-time information suited to different aspects of engagement. Federal, State, or Local.

## [Investing in Local Communities and the Brent Spence Bridge Corridor](#)

## One bridge – Two Agencies

Establishing a joint governance team and shared-data operating models to accelerate decisions.

Using the same applications for independent needs, while using API-first approach for real-time, cross-agency visibility.

Improve transparency / accountability, reduce duplication, and protect public investment.

- OHDOT and KYTC have established executive level steering committees with oversight into multiple areas.
  - Funding, Scope, Risk, Schedule
- Internal & External PMO oversight
- Domain working groups
  - Construction, Design, Finance, Data, and Compliance

# Applications

- OHDOT and KYTC license
  - AASHTOWare Project - Project Administration software
  - EDOT Platform – Electronic ticket data, safety feed, material testing
  - ProjectWise – Design and project detail software
  - ProCore – Third party consultant firm – project documentation software
- GoFormz – Quality based inspection software
  - OHDOT
    - KYTC / Consultant use for Contract Compliance
- Contractors license - Signet for prompt payment

# Data Governance & Compliance

- One Policy, Two Agencies
  - Common Data Dictionary
  - Records & Retention
  - Security & Privacy
  - Open Data & Reporting



Current

# Partner & Stakeholder Alignment

- One playbook
  - Primes & Subs: requirement for API adherence and data quality standards
  - Local Government & MPOs: read only access to relevant information or dashboards
  - National Coordination: Aligning with AASHTO guidelines and interstate best practices
  - Technical Leads : Sean Adams, KYTC and Tina Collins, OHDOT for schema alignment & rollout.

# Project Data

- The Brent Spence Bridge Project is expected to span over 7 years
  - Expected volume of Daily Work Reports for 75 to 150 inspectors, typically working 6 days a week, 52 weeks per year, with 2 shifts per day creating documentation.
    - Daily Work Reports
    - Material Sampling & Testing
    - Contract Compliance
    - Quality Inspection Reports

\* The new companion bridge will require ***approximately 95 million pounds of structural steel***. This is compared to “roughly the weight of three Brooklyn Bridges”

# Collaboration Transparency



Future Illustration

- OHDOT and KYTC have two separate sets of constructions specifications and inspection requirements.
  - Different pay item listings
  - Material data formats
  - Contract compliance documents digitally
- One source of contract modifications or payments to contractors
  - All Daily Work Reports from both agencies
  - All Subcontracts
  - Payrolls and compliance

# OpenAPI Setup

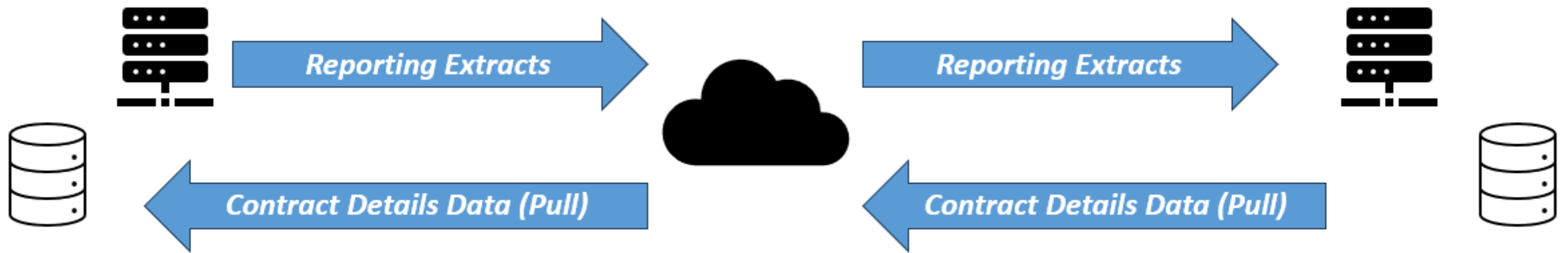
- A role is created that has access to the data needed.
  - Allows control of what is shared.
- Setup is completed within AWP Integrations.
  - A token is generated that is shared with the developer.
- KY made reference data changes to match the reference data identifiers that OHDOT was using.

# How it Works

KYTC- AASHTOWare Project

AASHTOWare OpenAPI

OH DOT - AASHTOWare Project  
System of Record



## Read from KYTC:

<https://api.aashtoware.org/ams/kytc-dev/Contracts/8468>

## Read from OH DOT:

<https://api.aashtoware.org/ams/ohdot-dev/Contracts/8468>





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