

# Meeting Minutes

**Subject:** Working Group Meeting #05

**Date:** July 16, 2024 - 1:00 PM

**Location:** ODOT Central – Design Conference Room W/Virtual Attendance Option

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## Attendees:

Katie Brown – ODOT

Michael Pearson - ODOT

Siv Sundaram – ODOT

Justin Hernandez – ODOT

Randy Woods - ODOT

Brad Manhalter - OTA

Kar Wei Tang – OTA

Shane Hacker – OTA

Nick Braddy – Garver

Danny Powell – Guernsey

Mark Plum – Poe & Associates

## ADCMS Peer Exchange –

- Katie elaborated on the ADCMS Peer Exchange in San Diego. The meeting was very productive, ADCMS recipients talked about what they're doing and what they wanted to achieve. FHWA plans to focus on workforce development in future grants and would like to see cross functional teams such as bridge, traffic, and roadway cohesively working together. There was a recognized need for digital delivery focused teams that can assist other agency departments with adopting workflows, especially IT teams. Common pain points include getting IT stacks to talk to one another within an agency. Many states have legacy programs and custom built programs that they are trying to get updated etc. Many states like the idea of being Cadd neutral and finding ways to use all products together owning and sharing the data across platforms.
- Delaware is evaluating data coming off construction equipment such as location, material installed and how long in operation.
- Caltrans is looking at GIS standards and pushing data across Bentley, Trimble and Esri. Focused on C3D right now.
- Illinois is looking for ways to migrate data into GIS and establish a survey CORS data network.
- Iowa is looking at e-ticketing and at haul hub integrations with Esri. Also investigating digital delivery as-builts.
- FHWA is looking for DOTS's to move the Digital Delivery needle and realizes overlap will occur along with learning curves per DOT. FHWA has realistic expectations for DOT programs.

## TxDOT Peer Exchange –

- ODOT Digital Delivery team & supporting consultants attended a peer exchange with TxDOT in June. TxDOT is making strides in e-ticketing, and is planning to integrate models and push everything out to industry for consumption and request user feedback.
- Plans to adopt Bentley synchro platform, they've requested several additional workflow items.
- Placing a strong emphasis on survey in the beginning. QC is an important part up front especially template implementation and data dictionaries across platforms. Survey intervals will likely be at a minimum of 50' intervals.



- Looking at model manager roles and standardizing processes across platforms. They are staying with all Bentley platforms. Looking at using Bentley Infrastructure Cloud (BIC) vs. bluebeam for review process.
- GIS databases will be available across platforms.
- Construction phased modeling will be incorporated into project workflows.
- Bidding – This process resides in the design side of the house, will continue to engage other internal departments to streamline delivery processes.
- All project documents all stored in ProjectWise.
- Mandatory all parties to attend construction letting pre-bid.
- Spec book updated to include models for reduced plan sets. Plan and profiles went to roll plots, mass haul and x-sections looking to eliminate these. Worked with AGC, showed them roll plots and now they want them on every project. Roll plots were interactive so you can turn items on and off.
- Five pilots projects are ongoing, first one scheduled for 2025 has enhanced model details. TXDOT conversed with AGC to see what they needed for bidding & construction. Color coding needed for machine control, and model levels broken down so they could be manipulated. One project had to be pushed due to utility conflicts.
- Looking at naming conventions and reinventing ProjectWise like ODOT. ODOT's will start over on ProjectWise build, and tailor it for 3D model delivery. Everyone will use the same data source.
- TXDOT has plans to build the largest Unmanned Aircraft Systems (UAS) in transportation, focusing on mapping and data sourcing.
- TXDOT ProjectWise admin wrote script to analysis projects and update legacy projects to latest versioning. Testing has ended and they are looking to start conversions.
- 3D models for digital delivery will require department and consultant collaborations.
- TXDOT has a software vetting team, ODOT is going to adopt this process and modify as needed. Will allow software vendors / others to suggest an application, via online upload and ODOT would follow up with interview / demo interview scheduling etc. The intent is for the vendor to use this process as a marketing avenue so they will stop going out into the field for product demos. A committee puts together a white sheet on whether vendors are allowed to present etc. Training will be a part of the vetting process and completed before they can close out the purchase process. Pilots will go through digital delivery group for ODOT adoption.

### Implementation Plan

- Strategic Plan and Road Map final drafts are posted on the ODOT Digital Delivery website. The implementation plan is in final review and an executive summary will be posted to the [website](#) outlining prioritized tasks.

### ProjectWise (PW) Update

- PW updates will kick off in the next 30 days starting with identifying and documenting risks. The current PW environment has reached end of life.
- A new PW data source will be built, and user acceptance testing conducted for everyone to input.
- TXDOT – Developed PW in background, testing in production environment, and then plans to roll out. ODOT plans to follow suit in a similar manner.
- ISO 19650 Standards – Looking to reduce folders using meta data to move information through the lifecycle.
- Risk Registry findings and requirement gathering in the next month, new architecture and standards forthcoming.



- OTA has projects in PW as part of bond program, need to make sure on right path and not hitting any roadblocks. ODOT not touching current production data source at all. Will not bring technical dept to new data source.

#### **Workspace Update:**

- ODOT workspace to be used entirely in the future for downstream consumption.
- ODOT is investigating Cadd Neutrality – finding a way to standardize the ODOT workspace for consultants with respect to standards. Want to manage standards regardless of platform, currently looking at how to do this for Autodesk products.
- ODOT digital delivery pilot program has been testing Bentley Infrastructure Cloud (BIC) to conduct model and project reviews. Most recently the digital delivery group traveled to D5 and conducted a successful BIC project review with staff.
- How are other states using summaries with model authoring platforms? Currently most are still using 2D plans especially for structural detailing. Another method is to load PDF and link to the models. BIC solves a lot of issues and has connectors for many platforms.
- How are states handling extra hours for modeling etc? One component is the level of information need required to complete a project. The need for modeling details at project scoping would be beneficial. ODOT modeling standard documents will be prepared for industry and detailing level of effort along with BIM execution.
- ODOT is looking for Civil 3D models to test. Danny will send over models for ODOT to evaluate.
- OTA mentioned the 30/60/90 submittal milestones, what is ODOT's plan for reviewing each one? Katie – right now everything is 2D, the digital delivery group has pilot projects creating 2d sheets from the model and loading the model into BIC for supplemental review. The sheet review process is being applied to the models. The model offers a 3D view with additional details supplementing the 2D review process. QAQC team starting to establish guidelines for checking 2&3D information. Guidance for this process is in development industry wide and will be looked at as part of ODOT ADCMS Grant.

#### **RFI Software Update:**

- BoreDM – Kick off call yesterday to discuss testing.
- Pencil 9 – Need Bentley & Autodesk volunteer to test.
- TabLogs - Kick off next month.

#### **Inroads Removal**

- Bentley legacy Inroads software has been removed from ODOT design squad computers. Construction still has it currently and will move to ORD in next month tentatively.

#### **Early Adopters Update:**

- The ODOT early adopter meeting is scheduled for 7/25/2024 to discuss latest pilot projects and tools, software adoption and workflows.

#### **Roundtable**

- Will have ODOT Digital Delivery presentation at ACEC meeting.

#### **Schedule**

- Tentative next meeting date will be after September in 4<sup>th</sup> Qtr.

#### **Action Items:**

- Danny to send over C3D Models for ODOT to evaluate.