

5th Digital Delivery Quarterly Session

September 26, 2024

Question: How would a university civil engineering program get involved in this?

Answer: If a Civil Engineering program is interested in joining the Higher Education Committee, send an email to Digital Delivery at RA-PDDIGITALDELIVERY@pa.gov and include the contact information for the individual representing the university.

Question: How/when will HOP project use Digital Delivery?

Answer: At this point in time, Digital Delivery is not expected to be required for HOP (Highway occupancy permits) projects for some time. We will be looking to implement various aspects such as utilities because if utilities are placed within the Right-of-Way, we need to know where they are located. We will be looking to develop a database to capture this data.

Question: Will Digital Delivery be at Transportation Engineering and Safety Conference?

Answer: Yes, both Scott McMasters and Jennifer Steen will be presenting along with Rob Nuss, from KCI.

Question: Would the 2025 Construction Summit be valuable to construction inspectors as well?

Answer: The initial round of Contractor Summit sessions in January 2025 are geared toward contractors to understand how to interact with the model deliverables in order to bid and construct a project. Inspection staff will be part of the just in time training sessions conducted for each project prior to construction. The Digital Delivery team will also be presenting at various winter schools during the off season in 2025 for inspection staff.

Question: Is AutoTAB going away, and if it is how projects are moving forward if a project does not utilize the full digital delivery process.

Answer: Eventually, AutoTab will be eliminated in the future. The team is looking to develop workflows for items in a 2D environment as well as 3D because digital delivery is about the transfer of data. As we develop new workflows, we will be adding pay item numbers to model elements through item types. Pay item reports will be generated from the model and uploaded directly to ECMS. We are currently developing the workflow and standard format to provide the same information from Summary and Tab sheets.

Question: Will we be able to see the D4 pilot bridge project if we do not attend APC?

Answer: There will be recordings of various aspects of the D4 bridge. We have a recorded interview with the contractor on the project.

Question: What will be the consistent program used to access Digital Delivery for Design - Construction - Asset Management System. Is that ECMS?

Answer: ECMS will still be used as the contract management system that houses all the project information, including digital delivery projects. PPCC will still be used for construction workflows. PennDOT currently uses the Bentley suite of products for design, such as OpenRoads Designer and OpenBridge Modeler. To view the models in construction,

contractors are able to utilize the Synchro platform, including Synchro Control and Synchro Field, for digital delivery projects. For mandatory pre-bid meetings for digital delivery pilots, requests for guest access to the project Synchro Control environment can be done via the project's special provision. More information about the current digital delivery projects in design or construction can be found on the [Digital Delivery website](#).

Question: On projects involving railroad coordination, where is the program with respect to communicating the evolution of digital delivery so, when the time comes, the railroad entities can review progressive design plans.

Answer: We have reached out to all of the Class 1 railroads and others to convey exactly what we are doing in regards to digital delivery. Most of the existing pilot projects are small in nature with a low complexity and little to no railroad coordination. Upcoming Digital Delivery projects will be more complex and may need more railroad coordination with our team. Many Class 1 railroad are already utilizing 3D design tools. We are working closely with these outside agencies as we continue the development of digital delivery.

Question: Will Autodesk projects be compatible?

Answer: Currently, there are no Autodesk projects being piloted in the digital delivery process. The IFC file deliverable, which is an Open Data Standard, will be able to be ingested by different CAD software packages, as the Department's goal is to be software agnostic. We are currently developing workflows and piloting projects with IFC deliverables as part of our ADCMS grant.

Question: Central Office Geotech just attended the BIM for Infrastructure Pooled Fund Digital Delivery Kick-off meeting last week. How will notes and special provisions be handled in the 3D models? Also, how will dynamic test and static load test results will be captured?

Answer: Currently, general notes and details are being handled on sheet models within the model files. These are found in the 2D view of the model. In the future, General Notes may be housed somewhere else, such as ECMS. Geotechnical data is currently being captured in traditional methods and provided in traditional deliverables, such as reports and tables. As one of the states participating with the Pooled Fund, we will be collaborating with the project team for industry changes and advancements.

Question: Would PennDOT's workspace work with AutoCAD?

Answer: The Department is working on a State Kit for Autodesk that mimics PennDOT's Bentley workspace, but the State Kit is not ready to be released yet.