



Final Report

Materials Management Section Project

Project 0092-23-52

September 2023

WisDOT Evaluation and Transition of Bentley, Inc., OpenGround Geotechnical Database Management Software for Integration with Civil 3-D

Objectives

- Test and develop Bentley, Inc., OpenGround® cloud-based software package for use as WISDOT's geotechnical data management platform.

Benefits

- Expand and improve WISDOT's geotechnical data management capabilities by transitioning to Bentley's OpenGround software platform.

“Open Ground has the potential to be WISDOT's future geotechnical data management software platform and provides for substantial improvement over our current gINT software package.” – Dan Reid, BTS Geotechnical Engineering Unit

WisDOT Project Contact

Dan Reid

BTS Geologist

Daniel.reid@dot.wi.gov

Interested in finding out more?

Final report is available at:

[WisDOT Research website](#)

Background

WisDOT Bureau of Technical Services (BTS) Materials Management Section's (MMS) current geotechnical data management software package, gINT, is nearing the end of its useful life cycle and is being discontinued by Bentley, Inc., in 2026. There are also compatibility issues between gINT and Civil-3D, the current WisDOT Bureau of Structures (BOS)' design software package. These issues have required BTS to seek out and evaluate a better solution for geotechnical data management that is compatible with Civil 3-D.

Methodology

One-year licenses for OpenGround (OG) i3 Cloud Service Subscription, OG Manager, OG Integrator, OG Collector were purchased and evaluated. The software and cloud service were tested to assess functionality within the WisDOT IT environment, compatibility with importing historical gINT files/data, user interface/ease of use, field data collection, and integration of OG software with Civil 3-D. (WisDOT's software design package).

Results

The evaluation and testing of the OG platform indicated there were many issues with this platform that proved to be problematic. These issues included a complicated and difficult user interface (particularly with boring log template design, and with creating and generating fences and cross-sections), inability to easily import historical gINT data, and difficult integration with Civil 3-D. Discussions with Bentley staff indicated that other software add-ons and unanticipated additional consulting time/costs with Bentley and/or other vendors would be required to overcome these issues.

Recommendations for Implementation

Based on the testing and evaluation results, adoption and use of the OpenGround software platform as WisDOT's geotechnical database management platform is not recommended.

This report summarizes Project 0092-23-52

WisDOT Evaluation and Transition to Bentley, Inc., OpenGround Geotechnical Database Management Software for Integration with Civil 3-D
Materials Management Section Project