

User name: Mott MacDonald and HDR

Project name: Ontario Line – information management

Location: Toronto, Ontario, Canada

Background:

- The Ontario Line is an ambitious new subway line in Toronto that will help radically transform public transit across the city.
- It consists of 15.6 kilometers of new railway infrastructure and 15 new stations, which will reduce travel times and congestion across the city.
- Mott MacDonald and HDR are working together as technical advisors for the project.

Challenges:

- Needed a way to efficiently manage and share reliable data across multiple contracted organizations.
- Stakeholders wanted to provide visibility of the project and the impact of its construction to local communities.

Solution:

- ProjectWise established a connected data environment, while the iTwin Platform provided the basis for creating a digital twin.
- SYNCHRO and Bentley LumenRT helped improve 4D modeling and visualization capabilities, providing clear information to stakeholders and residents.

Outcomes:

- An open digital twin platform enables collaboration, bringing together engineering, enterprise, and operational data, above and below ground, in a geospatial context and at scale, to improve infrastructure delivery and performance across the lifecycle.
- ProjectWise reduced file access time by 50% while also saving 15 hours per week in reporting file status.
- SYNCHRO made the team 60% more efficient with their constructability and scheduling meetings.

Quote: "Bentley products and services are fundamental to our delivery of the Ontario Line programme - tools such as ProjectWise, iTwin and Synchro are providing unparalleled access to, control over, and insight into data shared by our project team." – *Cameron Schaefer, Transportation Digital Delivery & Data Acquisition Director, HDR*

Image caption/courtesy 1: Mott MacDonald and HDR are working together as technical advisors for the Ontario Line project. *Image courtesy of Mott MacDonald and HDR.*

Image caption/courtesy 2: Using ProjectWise as a connected data environment helps manage and share data across multiple contracted organizations. *Image courtesy of Mott MacDonald and HDR.*

Image caption/courtesy 3: SYNCHRO and Bentley LumenRT provide clear information to stakeholders and residents. *Image courtesy of Mott MacDonald and HDR.*

For more information, please contact Bentley PR at PR@news.bentley.com.