



A large global liquids and gas transmission client recently invited Lux Modus to one of their remote northern projects to trial LuxGear under the harshest of winter conditions. This trial tested the robustness of LuxGear prior to spring and summer construction. As part of the trial, a Lux Modus field partner collected data in extreme cold on a fast pace RoW.

Data was collected at two major and complex river crossings, at mainline lowering-ins, at above and below ground risers, and at foreign crossings. Data was uploaded to LuxCloud at the end of day and processed overnight.

By the next work day, the construction managers had 3D point clouds of the previous day's construction to review. Detailed 3D models of the pipe, ditch, spoil piles, in and out of ditch pipe sections, weld locations and a variety of other pipeline data was also made available. Detailed cut and fill analysis and crossing progression analysis was also reported on.

The 3D point cloud was available for viewing via Lux Modus' LIDAR viewer (L-Viz) and the geospatial data that is the digital twin was made available to the project team via a web mapping service as part of the LuxWeb services.



*The 3D Pipeline Digital Twin is more than point clouds and images, it's GIS and CAD data-ready to be consumed via web maps and desktop / enterprise geospatial systems from which complex analysis can be conducted and custom reports generated daily.*