



Over a three-month-period, a Lux Modus weld mapping partner successfully weld mapped over 13 kms of 16" transmission pipe using Lux Modus. The 3D Pipeline Digital Twin created for our partner became the backbone for the weld mapping data and provided a permanent record of the pipeline construction.

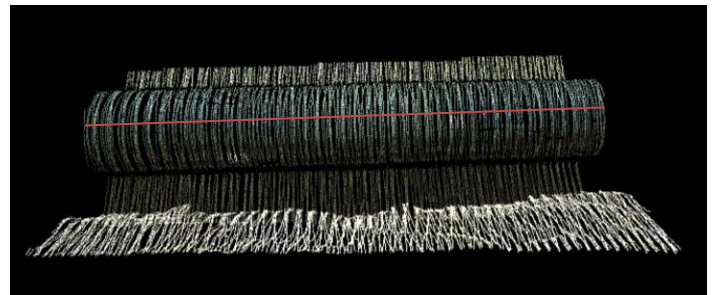
In addition to the 3D Pipeline Digital Twin, Lux Modus also captured foreign crossings, pipeline infrastructure such as risers and valves, road crossings and the above ground RoW infrastructure.



Field data was processed in LuxCloud on a continual basis with the GIS products created reflecting construction phases.

As the backbone of the pipeline data ecosystem, the 3D Pipeline Digital Twin is primarily composed of a 3D point cloud and orthoimagery. From these datasets, other high-value datasets are created including:

- A cm-by-cm 3D top of pipe centerline
- Depth of cover and weld locations
- The pipe tube
- 0 cm contours of ditch and RoW
- 3D features of RoW infrastructure
- A backfill terrain model



*When you digi-twin your pipeline during the various stages of construction, you not only create a permanent record of your asset, you also create a backbone for all pipeline data to anchor to.*

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