Using Diagnostic Imaging for Trenchless Rehabilitation Planning and Design of Metal Culverts

Much of the buried infrastructure is well past the design life and beginning to fail. However, asset owners simply do not have the fiscal capacity to address all of the infrastructure needs. This heightens the need for an effective asset management plan to continuously prioritize which assets most critically need budget allocation for rehabilitation or replacement. Through Inversa's insight Lite, asset owners can more effectively trend the condition assessment results over a series of inspections, which optimizes budget and maintenance planning for the asset owner. By providing asset owners with trendable inspections of previously unobtainable data, they will be able to make more informed decisions, better prioritize budgets, and address the most at risk assets at the most effective time.

Corrugated Metal Pipe (CMP) collapse and replacement has been identified as problematic in many jurisdictions. Time and environmental conditions wear away the supporting soils of pipes. An improperly supported pipe will experience mechanical stresses, and eventually result in complete structural failure, which can collapse the road above. Inversa's technology is used to identify and assess the presence and severity of the pipe bedding envelope and backfill.

Inversa™'s unique and patented technology has established itself as a valuable partner in empowering asset owners with better data to make more informed asset management decisions. Innovative condition assessment technologies and continuous asset management are essential components to realizing the savings associated with innovative rehabilitation techniques. This is precisely where Inversa™'s illustrated experience and multi-staged approach revealed in this presentation can add value to ensure long term operational savings are achieved.