RAIL ASSET MANAGEMENT

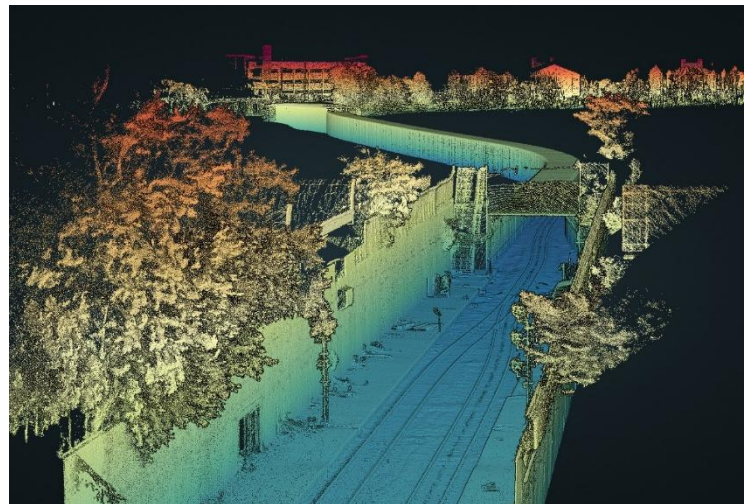Colorized 3D point cloud by LuxGear and visualized in LuxWeb

LuxGear by Lux Modus has been proven as an efficient and affordable way to capture high-density LiDAR and high-resolution imagery for rail corridors. Our LuxCloud processing engine automatically classifies, and feature extracts the Right of Way assets and overall environment.

Mounted on a geometry car or high-rail vehicle, *LuxGear* provides the accuracy and detail needed for mapping and modeling infrastructure assets for inventory management, engineering, change detection and vegetation management.
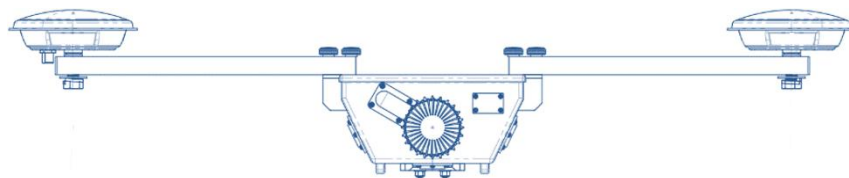
Ask us about how light and commuter rail owners and operators are changing how they manage their rail assets with our technology.

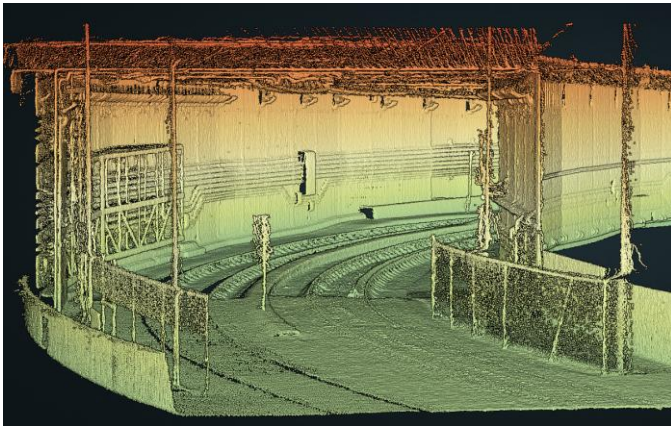High resolution photo captured by LuxGear during LiDAR scan

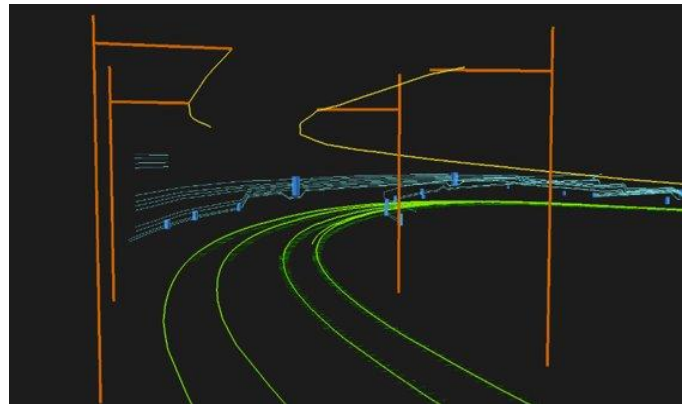Full feature 3D point cloud by LuxGear and visualized in LuxWeb

A 3D Digital Twin is more than point clouds and images. It's GIS and CAD data, ready to be consumed via web maps and desktop or enterprise geospatial systems.
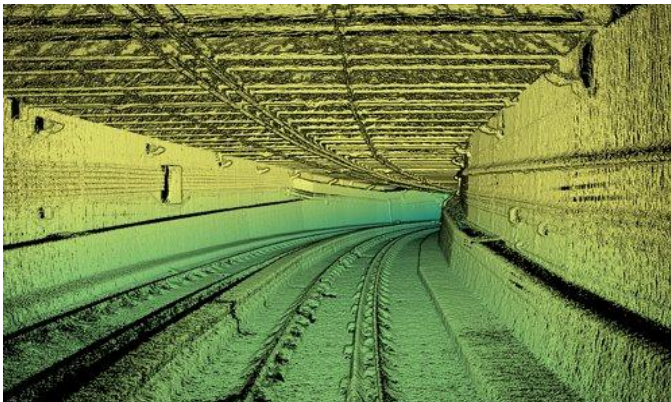
Create or update your asset inventory with 3D CAD and GIS data extracted from survey-grade, high-density LiDAR and ultra high-resolution imagery.
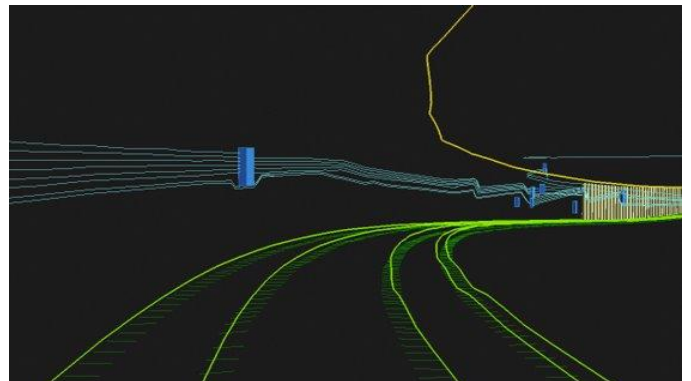

3D LiDAR Scan of Rail Tunnel

3D CAD from LiDAR Scan

3D LiDAR Scan of Rail Tunnel

3D CAD from LiDAR Scan