Railmetrics
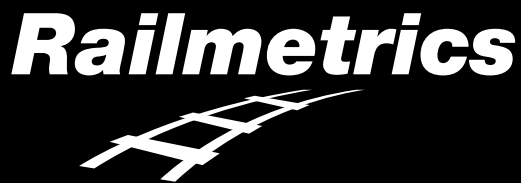
LRAIL
AI-Based Railway Inspection System

Multifunctional, 3D Laser and AI-Based Track Component Inventory and Inspection Solution

- Geometry and component inspection
- Run over run change detection capability
- Optional autonomous data acquisition and processing

- Operates at speeds up to 120 kmh (74 mph)
- 3.5m (11.5ft) wide scan gives a full view of track
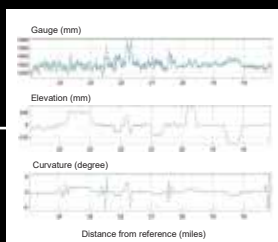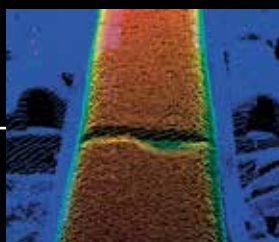- Installed on hi-rail or rail-bound vehicles

Railmetrics
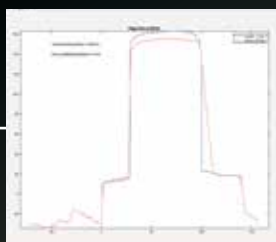
LRAIL
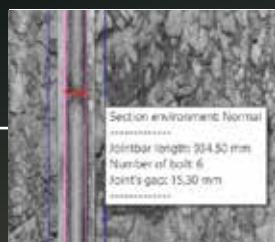## AI-Based Railway Inspection System

Rail

Track Geometry

Rail Surface Defect

Rail Wear (Top/Side)

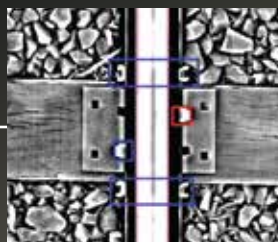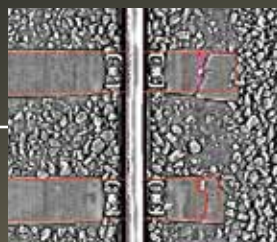Joint Bar Inventory

Ties & Fasteners
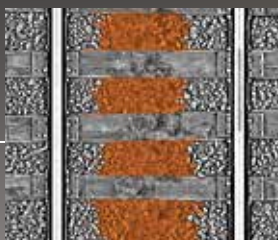

Elastic Fastener Inspection
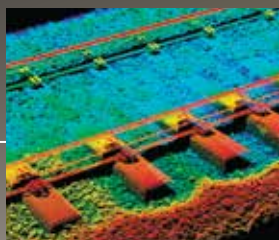

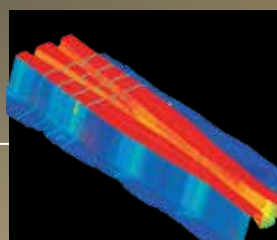Spike & Anchor Inspection
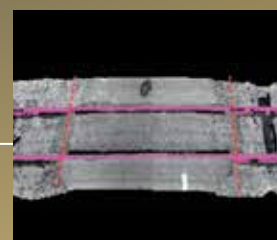

Concrete Tie Grading

Wood Tie Grading

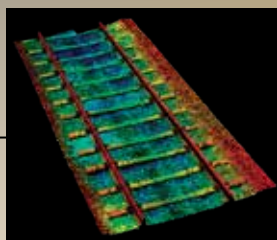## Ballast

Surface Fouling

Profile & Deficiency

Fixed Assets

Turnout Inspection

Road Crossing

Non-Proprietary Output Files

Geodatabase SHP Files

LAS Point Cloud

JPG Files

CSV Report

PRODUCT LINE OF | Pavemetrics