

Autonomous Track Inspection Program (ATIP)

To generate an extensive dataset on track health, used for proactive track and roadway maintenance and capital planning.

- Uses the latest sensors and AI technology to inspect track – measures beyond what the eye can see
- ATIP cars run in regular train service at track speed, without consuming precious track capacity
- Inspects the tracks over which 95%+ of CN's GTM's runs
- 90%+ improvement in track geometry KPI (conditions per 100 miles inspected)

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fleet size

CN has the largest fleet of fully automated track inspection cars in North America

Tracks must be inspected to identify defects that require repair and maintenance. Historically Engineering employees use hi-rail vehicles to visually inspect track, which typically operate at slower than track speed.



ATIP car:
Operating in a revenue train at track speed.



CN Hi-rail in the field:
Revenue trains cannot occupy the same track while the hi-rail is performing a visual inspection.

