

# Electronic Track Authority Verification (ETAV)

Protect engineering hi-rail operators by alerting them when they approach the end of their approved work location while they inspect and maintain track.

- Significantly reduces risk of **Main Track Authority Violations (MTAV)** – MTAV's are caused when on-track vehicles venture outside their authorized work limits
- Innovative in-house navigation tool and precise location solution
- Uses high-accuracy **Global Navigation Satellite System (GNSS)** to situate on-track vehicle in real-time
- 100% of CN's main track network mapped in our **Geographic Information System (GIS)**

**2,500**

equipped fleet

**18,332**

route miles

2022 Railway Association of Canada Safety Award

*Engineering employees inspect and patrol tracks across the CN network. Engineering forces must only occupy track within the limits of their 'work block' to ensure there is no conflict with trains or other work equipment.*



**CN Hi-rail in the field:**  
*Used to patrol and inspect track*



**CN Hi-rail, interior:**  
*ETAV alerts Engineering employees when they approach, or exceed, their work limits*

