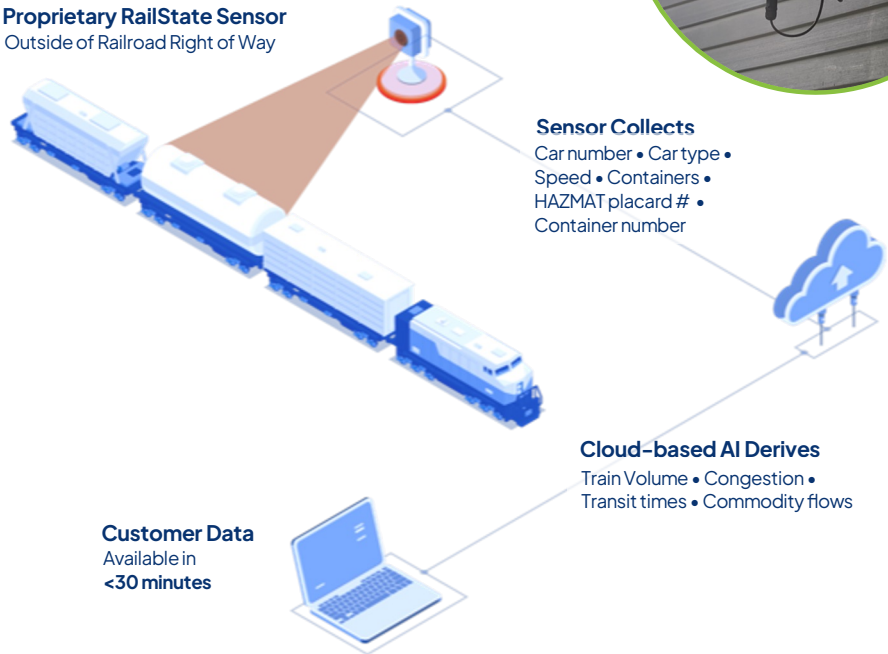


RAILSTATE

AI-Powered Sensors Driving Network Rail Data

Proprietary RailState Sensor
Outside of Railroad Right of Way



Sensor Collects
Car number • Car type •
Speed • Containers •
HAZMAT placard # •
Container number

Cloud-based AI Derives
Train Volume • Congestion •
Transit times • Commodity flows

Customer Data
Available in
<30 minutes

Battle-tested network keeps data flowing to customers:

 Continuously Updated

 Low Data Latency

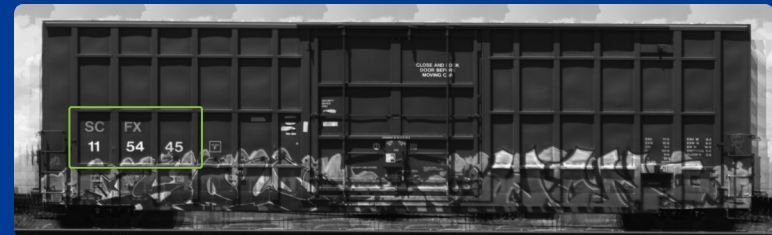
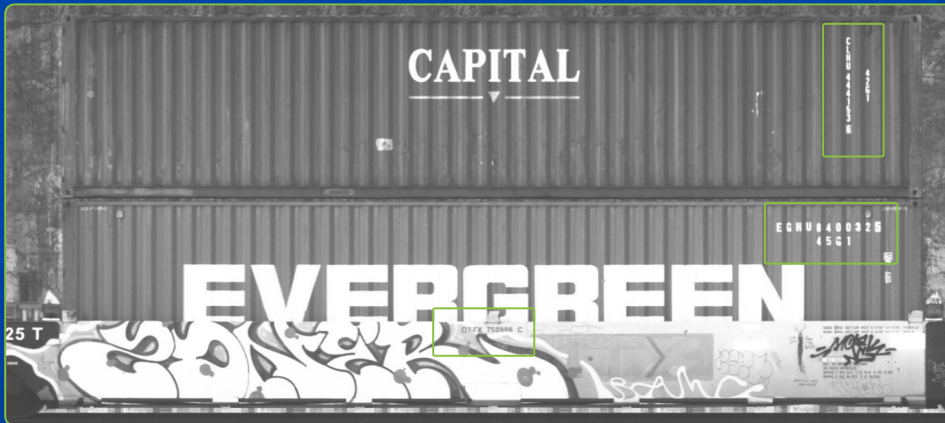
 -45 to +120 degrees

 Web UI and API

 6 Billion+ Images

 TLS Data Encryption

Image Capture

















RailState: Locomotive # & Owner, Car #, UN #, Container #, Car Type

AEI Tag Readers: Car # only



RailState Customers

How they use the RailState data

 <p>USDA Agricultural Marketing Service U.S. DEPARTMENT OF AGRICULTURE</p> <p>Measure grain volumes and performance on specific corridors and to critical market hubs</p>	 <p>CALIFORNIA AIR RESOURCES BOARD</p> <p>Measure emissions from locomotives using emissions tier and distance traveled</p>	 <p>Oregon Department of Transportation</p> <p>Help enhance its passenger and freight rail network</p>	 <p>Transport Canada</p> <p>Understand real time traffic flows, capacity, network performance</p>	 <p>CANADIAN TRANSPORTATION AGENCY</p> <p>Service level complaints, network analysis</p>
 <p>Environment and Climate Change Canada</p> <p>Measure emissions from locomotives using emissions tier and distance traveled</p>	 <p>Alberta Transportation and Economic Corridors</p> <p>Provincial Government – Enhances supply chain analysis and movements of Ammonia</p>	 <p>PRINCE RUPERT Port Authority</p> <p>Monitor all rail flows to port, inform capex and operations improvements</p>	 <p>BHP</p> <p>Risk assessment for new rail movements, capacity, performance, negotiation</p>	 <p>EVR A GLENORE COMPANY</p> <p>Independent data to inform discussions with RR – capacity, priority on their lanes</p>
 <p>Domtar</p> <p>Confirm delivery timing, placement, and car condition in near real-time</p>	 <p>WCSC Western Canadian Shippers' Coalition</p> <p>Industry group – Enhances supply chain analysis and operational insights for member companies</p>	 <p>STRONG PINE</p> <p>Evaluate rail movements, capacity, performance, negotiation for a new planned facility</p>	 <p>Canadian Propane Association</p> <p>Industry group – Enhances supply chain analysis and economic impact of member companies</p>	<p>Class I Railroad</p> <p>Pilot project – visibility into interchanges and operations of other Class Is to improve asset utilization and overall operations</p>



Case Study: Identifying Older Equipment

The Problem

- Large shipper suspected they were receiving older, substandard locomotives from their Class I rail partner
- No hard data to prove it – just a hunch

The AI Application

- RailState's computer vision automatically identifies and logs every locomotive that passes, capturing unit details and timestamps
- Builds an indisputable equipment record over time

The Solution

- Data confirmed the suspicion: locomotives were older than contractually agreed
- Shipper brought documented evidence to the railroad, turning a hunch into a data-backed negotiation that drove corrective action



Case Study: Tracking Commodity Flows

The Problem

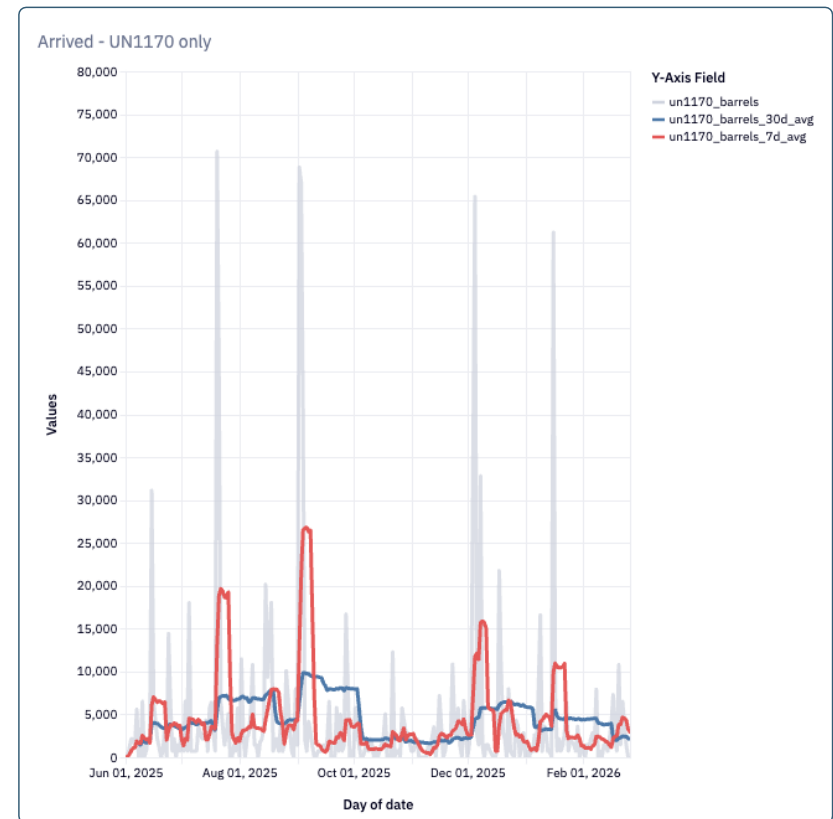
- Commodity traders rely on assumptions about where products move — with no way to verify in realtime
- Blind spots in regional commodity flows create unpriced risk

The AI Application

- Computer vision reads hazmat placards on tank cars automatically, identifying commodity type in real time
- Continuous monitoring builds a living map of commodity movement across the network

The Solution

- Confirmed an energy trader's assumptions about ethanol trade flows with hard data
- Surfaced previously unknown non-denatured ethanol movements in the region
- Provided a verified baseline — ready to act on the moment a market disruption hits



Final Thought...

Anyone can build an application now. How do you fill it with data?

The Shift

- AI tools now let a non-coder build usable software in hours for a modest subscription fee
- What used to require a dev team and months of work is becoming accessible to almost anyone

The Catch

- AI can build the tool — it can't generate the data
- No model can tell you what just rolled through a junction or what's inside a tank car

The Takeaway

- Software is becoming interchangeable; reliable, real-world operational data is not
- RailState's value is the data layer — the numbers you feed into whatever tool you build