



Delivering Real Safety Outcomes with AI

How Wi-Tronix is Turning Visibility into Action at Rail Crossings and Rights-of-Way

Larry Jordan | CEO & Founder, Wi-Tronix



Inspired by technology, motivated by safety

Wi-Tronix delivers real-time operational intelligence through an AI-enabled hardware and SaaS platform – combining event recording (black box), video analytics, and proactive diagnostics across North American and Australian rail.

\$21.4B

Daily assets monitored in real-time

14K+

Rail vehicles

240B

Data points captured per day

90+

Railroads & agencies



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Class I



Short Line



US, Canada, Mexico
& Australia



Long
Distance



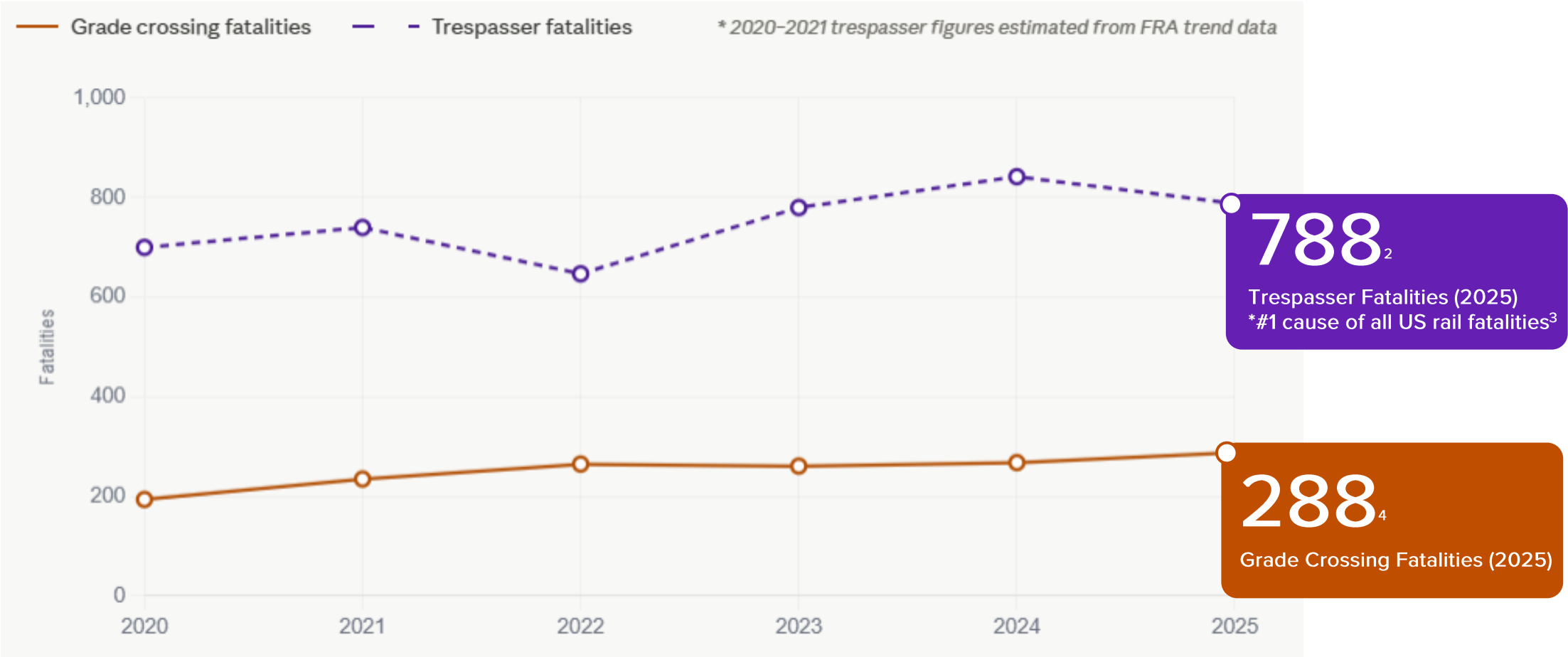
Commuter



Light Rail

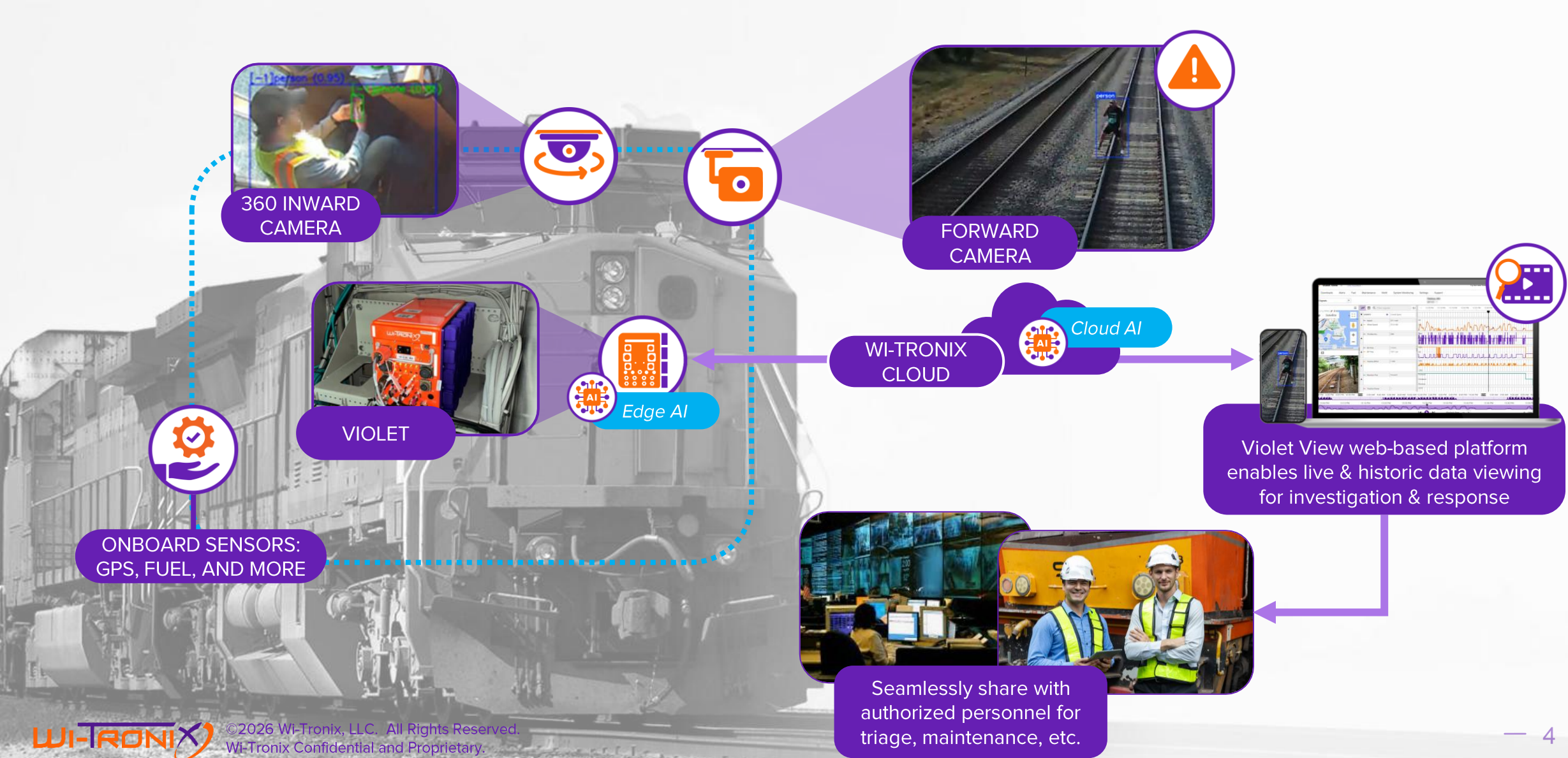
The public safety priority on America's railways

Despite decades of railroad safety improvements, two categories account for over 95% of all rail fatalities¹



The Violet Platform: the eyes, ears, and brain aboard locomotives

AI turns continuously-captured data into real-time safety decisions



FY2020 USDOT SBIR PHASE I & II AWARD



Rail Crossing Assist

Locomotive cameras automate grade crossing inspection with each passing train

Faster protections for motorists and pedestrians:

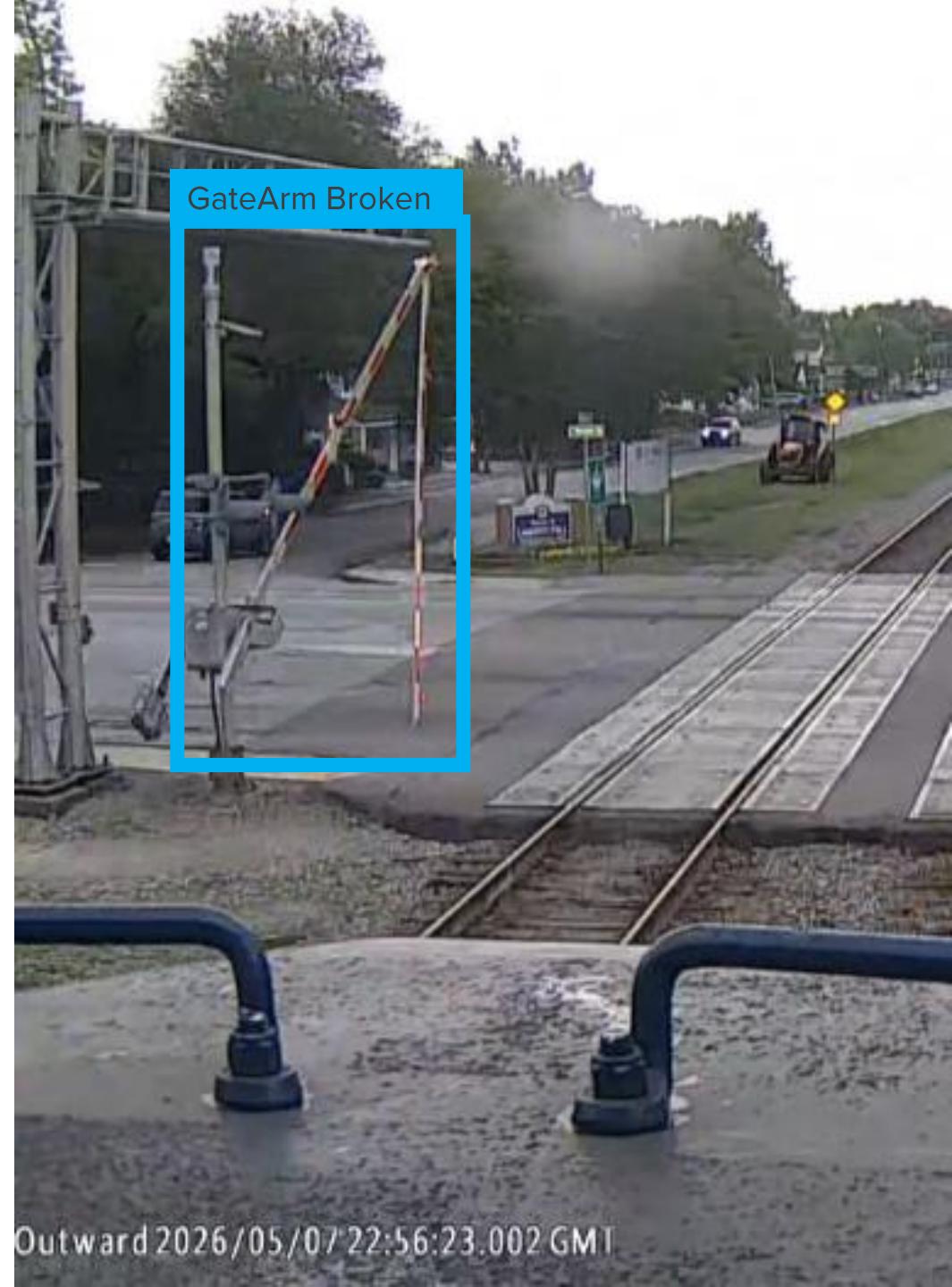
Gate arm malfunctions are detected up to 30% sooner and automatically alerts the railway

More crossings inspected, more often:

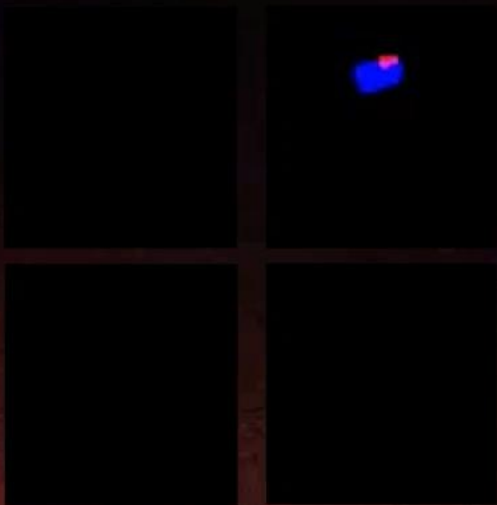
Every crossing is checked automatically with every passing train – 70,000+ daily inspections that would be impossible to staff manually

Turning reactive into proactive:

Remote verification lets dispatchers act on malfunction reports immediately, without waiting hours for a crew to drive out and confirm



id=001 | idx=001



[81]ML (0.71)

[80]ML (0.93)

[79]GA-RF-D (0.85|1.00)

[78]GA-RF-D (0.94|1.00)

FY2023-2024 \$1.65M CRISI GRANT AWARDED



Trespasser Safety AI Assistant

Industry-first AI detection of pedestrian behavior along active railways

DETECT

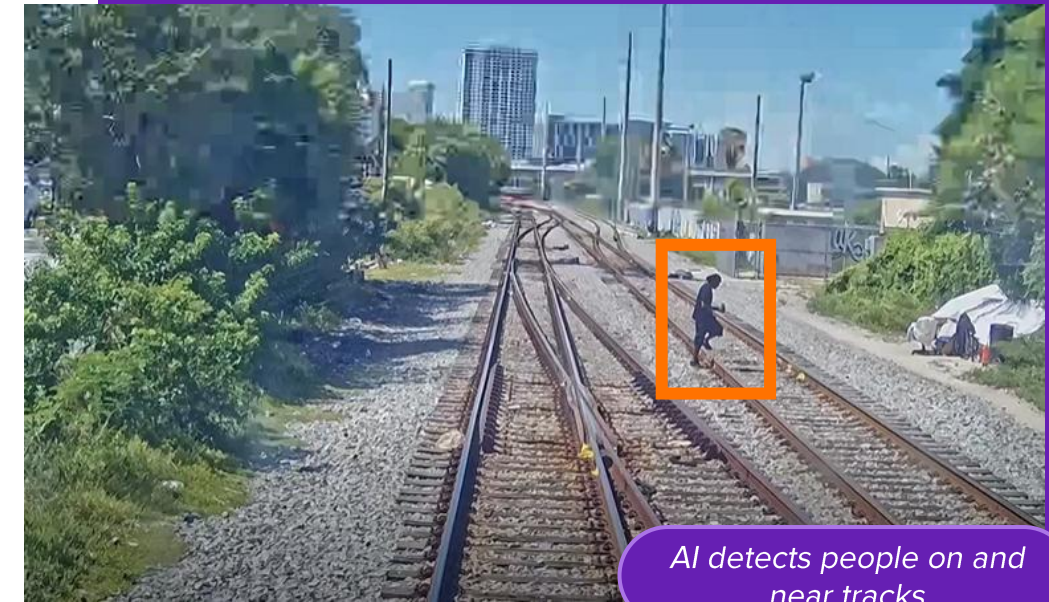
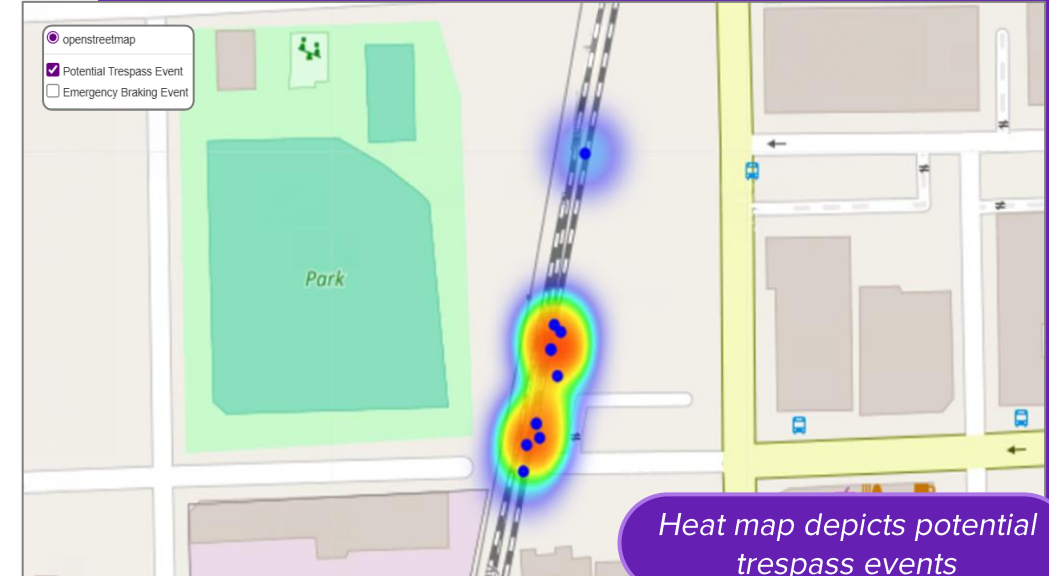
AI identifies pedestrian behavior near active railways in real time using forward-facing camera video

LOCATE

Geospatial heatmaps pinpoint high-risk areas along the corridor for targeted intervention

ACT

Data guides infrastructure, enforcement, and education investments





AI detects trespasser on the tracks

Outward 2025/01/14 19:23:12.411 GMT

Two solutions. One mission.

Improve safety and efficiency across America's railways

RAIL CROSSING ASSIST



Protecting motorists & pedestrians at crossings

- ✓ AI inspects every crossing, every train pass
- ✓ Faster crossing malfunction detection
- ✓ 70,000+ daily automated inspections

TRESPASSER SAFETY AI



Protecting communities along the right-of-way

- ✓ Industry-first pedestrian detection AI
- ✓ Near-miss data
- ✓ Heatmaps guide where to invest in prevention

Both powered by the same onboard cameras

thank you

Larry Jordan
Lawrence.B.Jordan@wi-tronix.com

wi-tronix.com



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