THE PROBLEM

- Traffic delays
- Emergency response disruptions
- Constituent frustrations
- Safety concerns

CHALLENGES

- Expensive solutions that require significant engineering and/or power connections
- Lack of data from the railroads on schedules or advanced warning systems of blockages
- State or local government's ability to fine for lengthy blockages negated by court cases

We have Solutions

Oculus Rail offers an innovative solution to collect timely data on blocked rail crossings. Our system features a solar-powered, wireless sensor equipped with advanced AI and machine learning capabilities. These sensors are strategically placed in public rights-of-way to provide:

- Timely notifications of blocked rail crossings, day or night; time-stamped images of blockages; and historical data provided in various data formats to municipal transportation engineers, public safety departments, railroads, etc.
- No special infrastructure, telecommunications connectivity or power required, allowing for easy and fast installation in almost any public right-of-way adjacent to a rail crossing.
- Cost-effective annual data subscription that mitigates the need for municipalities to own or maintain sensors.
- Free app provided with notifications available to all motorists and constituents to allow them to better plan their routes to avoid blocked crossings.

Oculus Rail sensors collect data on train blockages and durations, enabling municipalities to mitigate congestion, reroute traffic, enhance emergency response times, and provide safer and more efficient transportation networks.

CITY GOVERNMENT | COMMUTERS | TRANSPORTATION COMPANIES | FIRST RESPONDERS | RAILROADS

PUBLIC, AT-GRADE CROSSINGS IN THE US
125K+
SOURCE:
FRA RAIL CROSSING INVENTORY, 2024

REPORTED BLOCKED CROSSINGS
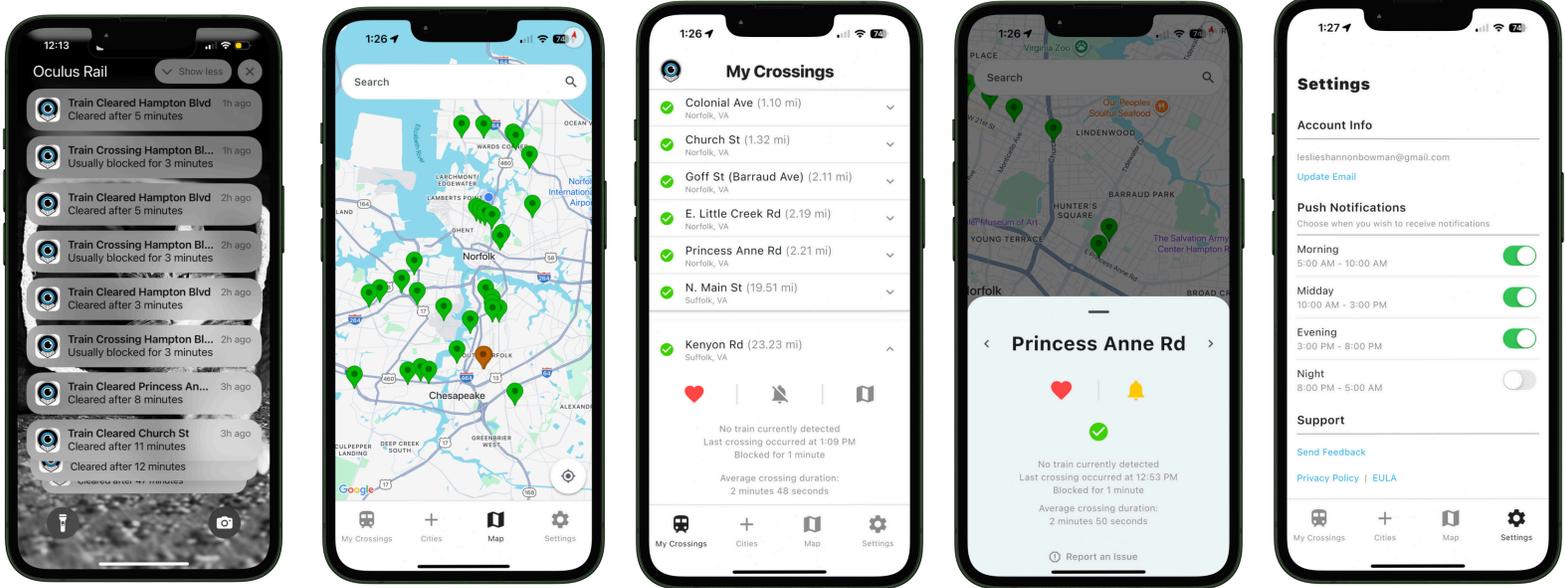## 26K
SOURCE:
FRA BLOCKED CROSSING DATA, 2024

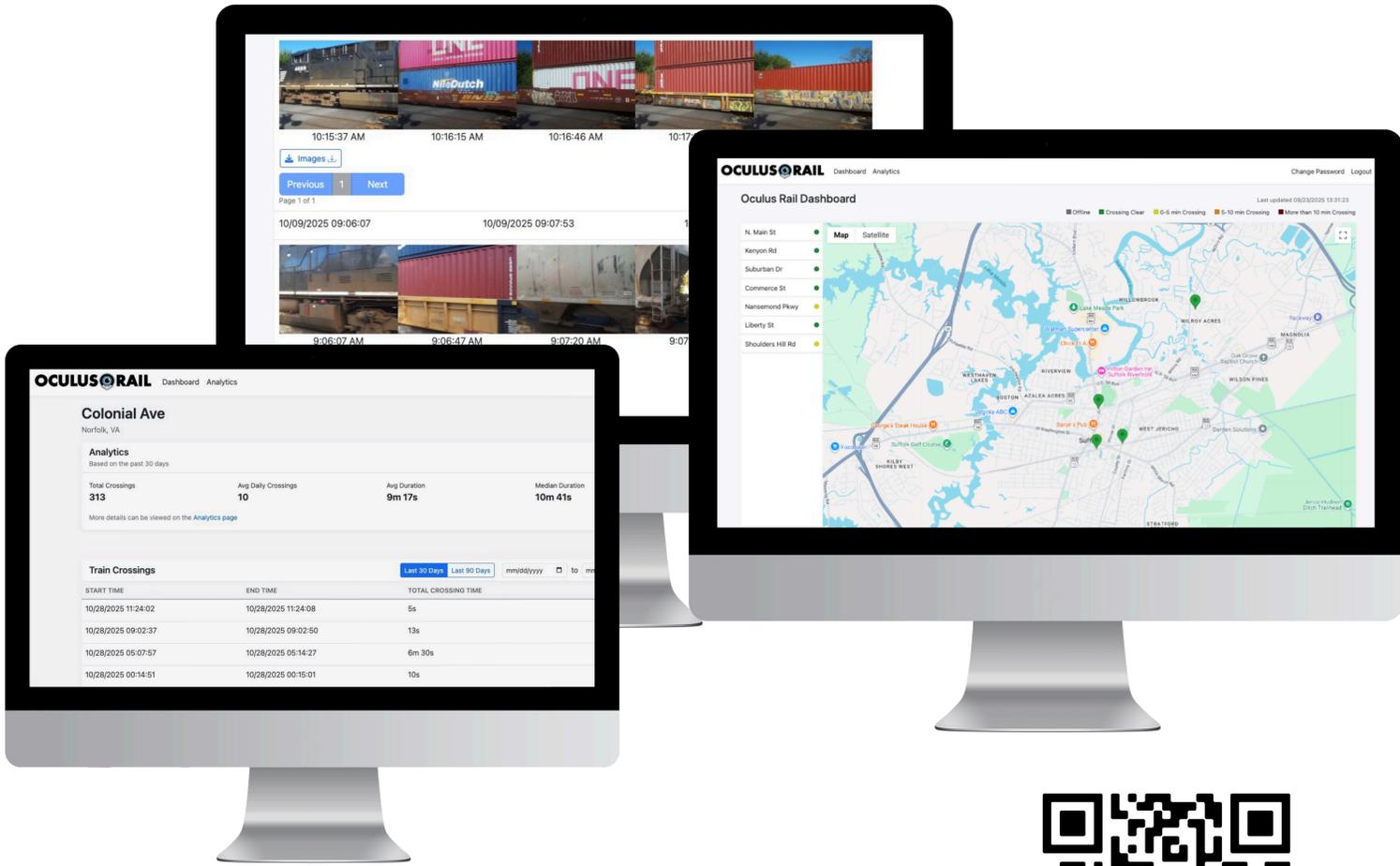FIRST RESPONDERS WERE OBSERVED BEING UNABLE TO CROSS THE TRACKS
24%
SOURCE:
FRA RAIL CROSSING INVENTORY, 2024

OCULUS RAIL

THE APP

Oculus Rail — Show less

- Train Cleared Hampton Blvd — Cleared after 5 minutes — 1h ago
- Train Crossing Hampton Bl... — Usually blocked for 3 minutes — 1h ago
- Train Cleared Hampton Blvd — Cleared after 5 minutes — 2h ago
- Train Crossing Hampton Bl... — Usually blocked for 3 minutes — 2h ago
- Train Cleared Hampton Blvd — Cleared after 3 minutes — 2h ago
- Train Crossing Hampton Bl... — Usually blocked for 3 minutes — 2h ago
- Train Cleared Princess An... — Cleared after 8 minutes — 3h ago
- Train Cleared Church St — Cleared after 11 minutes — 3h ago
- Cleared after 12 minutes

My Crossings

- Colonial Ave (1.10 mi) — Norfolk, VA
- Church St (1.32 mi) — Norfolk, VA
- Goff St (Barraud Ave) (2.11 mi) — Norfolk, VA
- E. Little Creek Rd (2.19 mi) — Norfolk, VA
- Princess Anne Rd (2.21 mi) — Norfolk, VA
- N. Main St (19.51 mi) — Suffolk, VA
- Kenyon Rd (23.23 mi) — Suffolk, VA

No train currently detected
Last crossing occurred at 1:09 PM
Blocked for 1 minute
Average crossing duration:
2 minutes 48 seconds

My Crossings · Cities · Map · Settings

Princess Anne Rd

No train currently detected
Last crossing occurred at 12:53 PM
Blocked for 1 minute
Average crossing duration:
2 minutes 50 seconds

Report an Issue

Settings

Account Info
leslieshannonbowman@gmail.com
Update Email

Push Notifications
Choose when you wish to receive notifications

- Morning — 5:00 AM – 10:00 AM
- Midday — 10:00 AM – 3:00 PM
- Evening — 3:00 PM – 8:00 PM
- Night — 8:00 PM – 5:00 AM

Support
Send Feedback
Privacy Policy | EULA

My Crossings · Cities · Map · Settings

DASHBOARD

Images · Previous 1 Next · Page 1 of 1

10:15:37 AM · 10:16:15 AM · 10:16:46 AM
10/09/2025 09:06:07 · 10/09/2025 09:07:53
9:06:07 AM · 9:06:47 AM · 9:07:20 AM

OCULUS RAIL — Dashboard · Analytics

Oculus Rail Dashboard

Offline · Crossing Clear · 0–5 min Crossing · 5–10 min Crossing · More than 10 min Crossing
Last updated 09/23/2025 13:31:23

- N. Main St
- Kenyon Rd
- Suburban Dr
- Commerce St
- Nansemond Pkwy
- Liberty St
- Shoulders Hill Rd

Map · Satellite

OCULUS RAIL — Dashboard · Analytics — Change Password · Logout

Colonial Ave
Norfolk, VA

Analytics
Based on the past 30 days

Total Crossings	Avg Daily Crossings	Avg Duration	Median Duration
313	10	9m 17s	10m 41s

More details can be viewed on the Analytics page

Train Crossings — Last 30 Days · Last 90 Days — mm/dd/yyyy to mm

START TIME	END TIME	TOTAL CROSSING TIME
10/28/2025 11:24:02	10/28/2025 11:24:08	5s
10/28/2025 09:02:37	10/28/2025 09:02:50	13s
10/28/2025 05:07:57	10/28/2025 05:14:27	6m 30s
10/28/2025 00:14:51	10/28/2025 00:15:01	10s