

# Grade Crossing Safety Solution

## Uncovering Risky Rail/Highway Crossings

### What is the Solution?



A web application for identifying and quantifying the risk for accidents at over 45,000 public rail-highway crossings in the United States.



It uses predictive analytics and machine learning to identify and quantify risk at crossings.



### Who Benefits?



Railroads seeking to reduce highway-rail accidents through engineering improvements and operational adjustments.



States developing their FRA-mandated Grade Crossing Action Plan (SAP).



Public road authorities allocating resources and capital expenditures for safety improvements.



Local organizations and governments developing safety awareness programs.



Vendors providing safety solutions to the industry.

### What Does It Provide?

- A ranking and risk score for each crossing in your inventory.
- Probabilities of future accidents based on potential frequency and severity.
- A web interface to explore the data, including with maps.
- Ability to export risk data for further analysis and incorporation into other tools.
- A tiered subscription pricing model adaptable to your needs.
- For higher subscription tiers, ability to simulate the impact of crossing improvements, such as warning device upgrades.
- For higher subscription tiers, ability to import your own related data, such as engineering attributes, for custom reporting.
- Additional associated services:
  - development of custom models using your additional data;
  - models for optimally allocating engineering improvement budgets;
  - models for identifying crossings to close;
  - incorporating risk data to inform effective public safety campaigns;
  - data and analytics support for 49 CFR Part 271 Risk Reduction Programs filings.

