

# Traffic Safety Video Analytics

Take a proactive approach  
to traffic safety challenges

## Technology for the Safe Movement of All

Transoft Solutions is the leader in automated traffic and rail crossing safety analysis. Our patented technology detects dangerous interactions between all road user types to help practitioners predict, diagnose and address today's safety challenges without waiting years for crash data.



## Benefits

Our TrafxSAFE™ product suite is an on-demand video analytics platform incorporating computer vision and artificial intelligence to proactively identify safety risks. TrafxSAFE identifies and classifies every user of the transportation system, including cars, trucks, buses, vans, motorcycles, cyclists, pedestrians, and even trains at rail

crossings, analyzes their trajectories, calculates their speeds, and identifies conflicts between them. This approach allows decision-makers to proactively quantify the safety risks at any given location and across entire systems.



### Distinctly Proactive

Enhance crash data with safety analytics to quantify conflicts, analyze potential collisions and identify specific causes, allowing for more effective countermeasure selection and mitigation before the collisions happen.



### Fully Automated

Our solutions automate the process of detecting and calculating traffic and safety analytics ensuring reliability, consistency, and efficiency.



### Highly Versatile

Our system takes in video from virtually any camera or video source (including drones and 360° cameras), resulting in an easier and more flexible deployment.



### Truly Scalable

Our product suite can be applied to evaluate a single intersection, a corridor, a rail crossing, a full city or even larger system for one-time / short-term analysis or long-term monitoring.



### Data-Driven

Capture your data in video and process using AI – all analytics and outputs are based on your real data, quantifying the details on traffic flow, safety-related events, violations, and other trends to ensure a data-driven approach to actionable insights.



### Comprehensive by Design

Every road user passing through your video view is detected, identified, classified, and analyzed across 14 classifications, including bikes, pedestrians, and scooters – ensuring the most vulnerable road users are incorporated into safety decision-making.

# Solutions to fit your safety analysis needs

Pinpoint safety issues and reduce your analysis timeframe by years. With TrafXSAFE, traffic engineers and planners can produce surrogate safety metrics to prioritize the most high-risk sites, identify contributing crash factors,

and evaluate the impacts of countermeasures without having to wait for crash data. TrafXSAFE comes in three different types depending on your needs:

## TRAFXSAFE

### Video analytics to identify safety concerns.

The world's foremost video-analytics platform for proactive road safety management. Use prerecorded video or install temporary cameras to complete traffic studies at any location to identify and deal with safety issues.

## TRAFXSAFE CONNECT

### Continuous 24/7 network safety monitoring

Advanced application that uses existing camera networks to continuous livestream conflict monitoring of high-risk intersections. A live central system for collecting data, 24/7 video processing, and access to results through an online dashboard allow road safety professionals to monitor road safety continuously and proactively.

## TRAFXSAFE RAIL

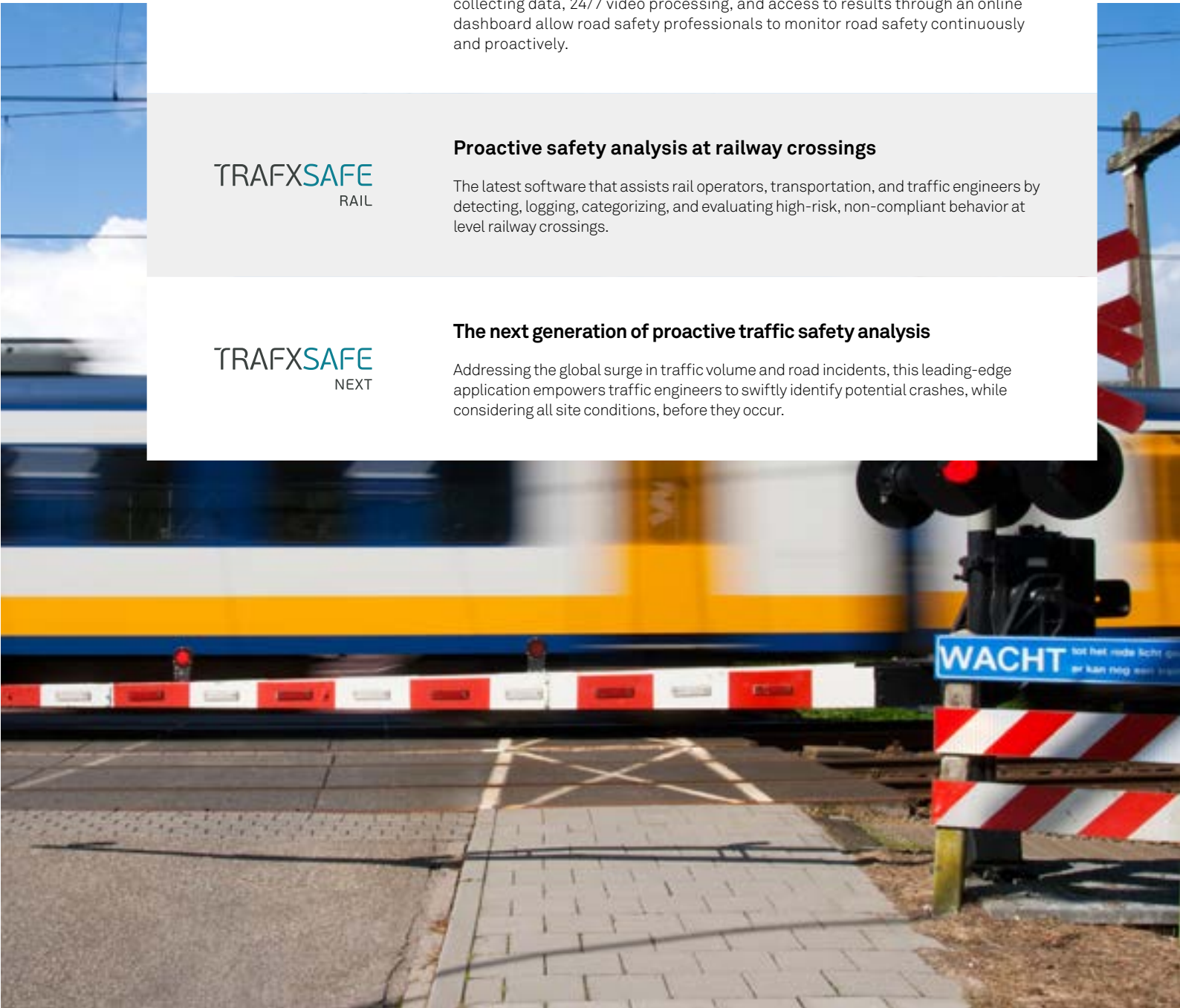
### Proactive safety analysis at railway crossings

The latest software that assists rail operators, transportation, and traffic engineers by detecting, logging, categorizing, and evaluating high-risk, non-compliant behavior at level railway crossings.

## TRAFXSAFE NEXT

### The next generation of proactive traffic safety analysis

Addressing the global surge in traffic volume and road incidents, this leading-edge application empowers traffic engineers to swiftly identify potential crashes, while considering all site conditions, before they occur.



## Platform Requirements

- TrafxSAFE suite is a web-based application that does not need any additional system requirements. (\*TrafxSAFE Connect requires an on-site server).
- TrafxSAFE suite works from your web browser, no CAD platform or installation needed.
- TrafxSAFE suite accepts Chrome, Explorer, and Firefox web browsers.

## System Requirements

- Highspeed internet connection.



**Phone (Europe / Mid. East / Africa)**  
+31 (0) 10 258 78 78

**Email**  
[infoeu@transoftsolutions.com](mailto:infoeu@transoftsolutions.com)

**Web**  
[www.transoftsolutions.com/emea](http://www.transoftsolutions.com/emea)

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