VERALYTIX
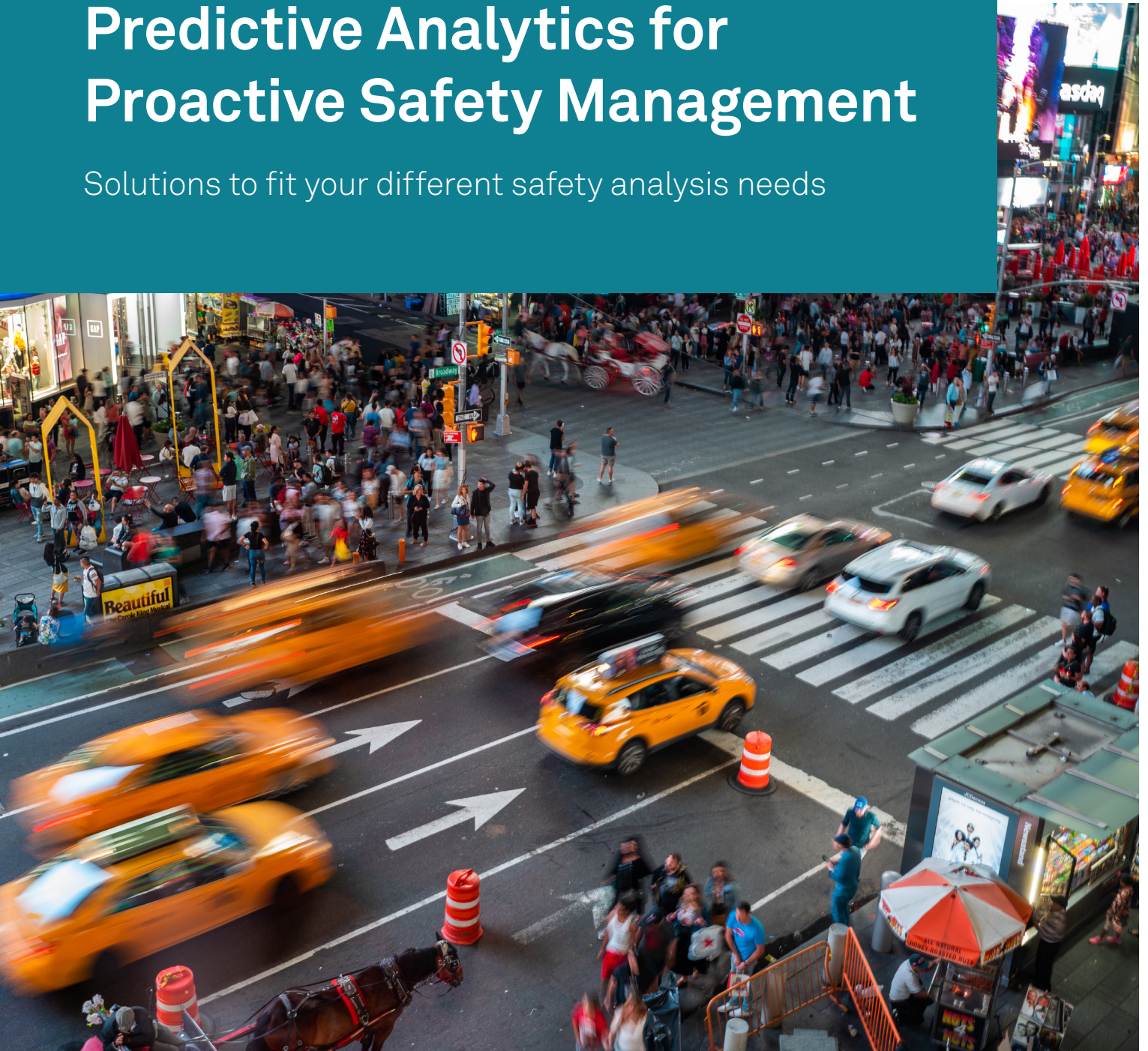
Predictive Analytics for Proactive Safety Management

Solutions to fit your different safety analysis needs

Transform everyday traffic data into powerful safety insights that help prevent crashes before they happen. VERALYTIX combines advanced AI and computer vision to deliver truth in analytics for safer streets.

VERALYTIX comes in two different types depending on your needs:

VERALYTIX
PULSE

Project-based safety analysis using post-processed video for fixed duration observation periods

VERALYTIX
LIVE

Real-time continuous monitoring and reporting through connected camera infrastructure

FEATURE	VERALYTIX PULSE	VERALYTIX LIVE
Data Insights		
Speed percentiles & average speed histograms	●	●
Heatmaps of critical conflicts	●	●
Conflict rate per 1,000 road users	●	●
Disaggregation of road user interactions by conflict types and directional movements	●	●
Random sample of video clips (critical conflicts) showing actual conflict mechanisms	●	●
Trajectory and conflict locations visualizations	●	●
Decision Support		
FHWA safety clearinghouse countermeasure mapping	●	
Global safety performance benchmarking	●	●
Comparative benchmarking across sites under the same jurisdiction	●	●
Expert system for countermeasure selection	●	
Site summary dashboard with safety performance highlights	●	●
Network-level safety star rating comparison	●	●
Long-term site performance data export		●
Detailed filtering by time of day, day of week, road user type, etc.	●	●
Enhanced customizable analysis zones	●	●
Comprehensiveness		
Enhanced suite of conflict indicators, including TTC, PET, MTTC, DRAC, Delta-V, and Gap Time	●	●

FEATURE	VERALYTIX PULSE	VERALYTIX LIVE
Critical conflicts across all road user types	●	●
14+ road user classifications	●	●
Crash severity metrics for intervention prioritization	●	
Network screening, hotspot identification, and countermeasure selection	●	
Quality of Processing		
Camera movement detection	●	●
Trajectory stabilization in the case of shaky cameras	●	●
In-built AI validation monitoring and reporting	●	●
Violations		
Pedestrian spatial violations	●	●
Enhanced spatial violations visualization	●	
Customizable movement & direction violation alerting		●
Speed violations	●	●
Crash Predictions		
Total crash predictions as a function of observed conflicts	●	
Real-time Monitoring		
Enhanced alerting for trends & real-time incidents		●
Auto-configured possible crash alert		●
Real-time customizable alerts		●
SMS, email, and in-app alerting configurations		●
Integration with NVIDIA jetson series of edge devices		●
Flexibility		
Thermal camera image processing support	●	
Shared active traveler path analysis & monitoring	●	●
Network-level edge device management		●
User-defined conflict rating priority system	●	●
Customizable and editable built-in report generator	●	
Downloadable Data Access		
15-minute flows, average and percentile speeds, and conflicts in CSV formats	●	●
Visualizations of road user trajectories	●	
Before & After		
Before & after safety effectiveness dashboard	●	

Supported Browsers
& System Requirements

For details on supported browsers and system requirements, please visit the product compatibility section using the QR code below.

TRANSOFT
SOLUTIONS

Phone (US & Canada)
1.888.244.8387

Email
sales@transoftsolutions.com

Web
www.transoftsolutions.com

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