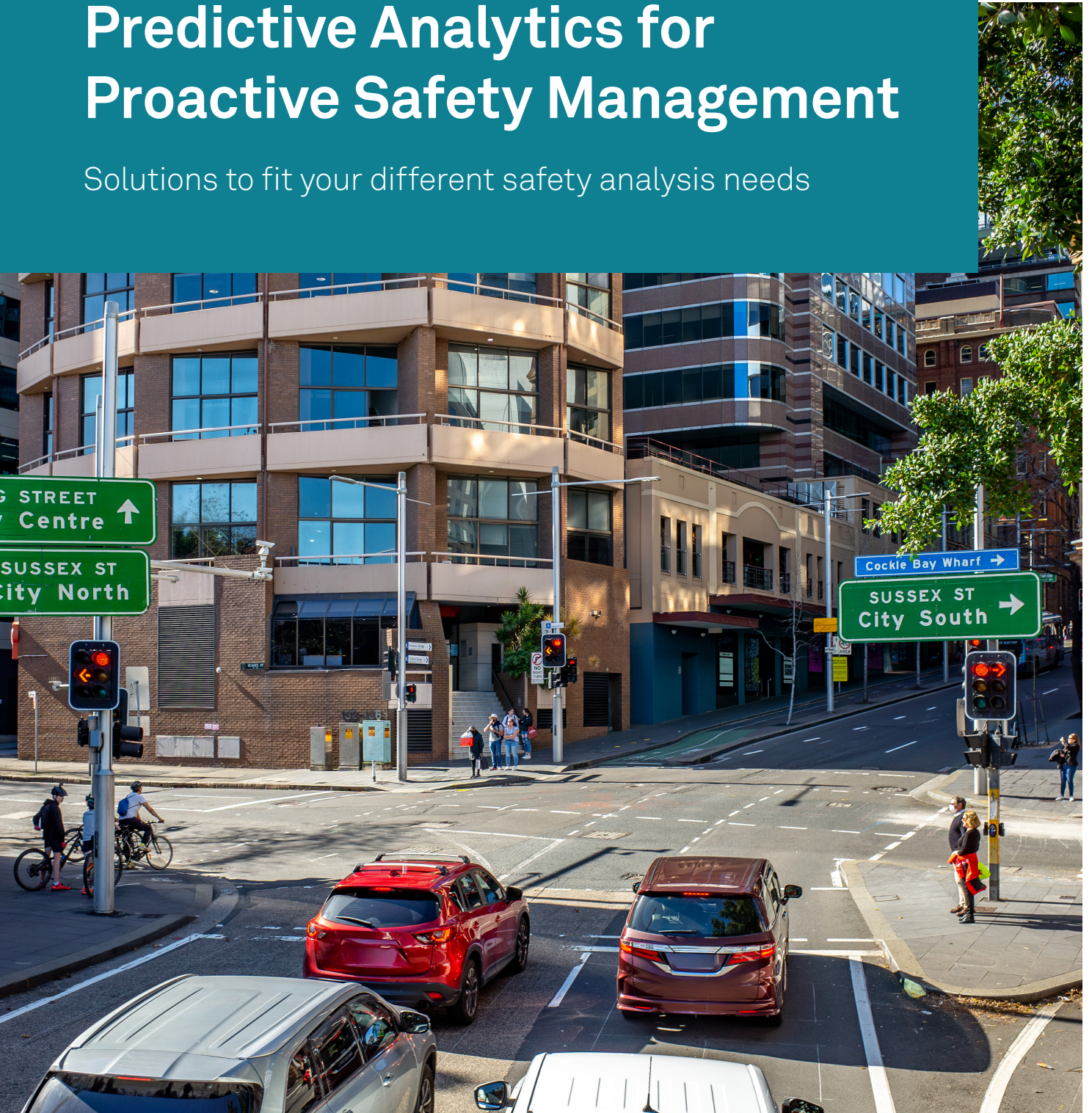


## Predictive Analytics for Proactive Safety Management

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
<b>Data Insights</b>		
Total and average flows per movements and road user types	●	●
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	●	●
Trajectory and conflict locations visualisations	●	●
<b>Decision Support</b>		
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 customisable analysis zones	●	●
<b>Comprehensiveness</b>		
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 prioritisation	●	
Network screening, hotspot identification, and countermeasure selection	●	
<b>Quality of Processing</b>		
Automatic detection of unwanted camera movements	●	●
Trajectory stabilisation in the case of shaky cameras	●	●
In-built AI validation monitoring and reporting	●	●
<b>Violations</b>		
Pedestrian spatial violations	●	●
Enhanced spatial violations visualization	●	
Customisable movement & direction violation alerting		●
Speed violations	●	●
<b>Crash Predictions</b>		
Total crash predictions as a function of observed conflicts	●	
<b>Real-time Monitoring</b>		
Enhanced alerting for trends & real-time incidents		●
Auto-configured possible crash alert		●
Real-time customisable alerts		●
SMS, email, and in-app alerting configurations		●
Integration with NVIDIA® Jetson™ series of edge devices		●
<b>Flexibility</b>		
Thermal camera image processing support	●	
Shared active traveller path analysis & monitoring	●	●
Network-level edge device management		●
User-defined conflict rating priority system	●	●
Customisable and editable built-in report generator	●	
<b>Downloadable Data Access</b>		
15-minute flows, average and percentile speeds, and conflicts in CSV formats	●	●
Visualisations of road user trajectories	●	
<b>Before &amp; After</b>		
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.



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Scan the code  
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