



Signal Analytics

In Partnership with CATT Lab



Continuously monitor every movement in your network without investing in equipment.

Poorly timed signals waste time, increase emissions, and create unsafe conditions. **INRIX Signal Analytics** delivers the insights agencies need to improve traffic flow, safety, and efficiency—without installing a single piece of equipment.

This cloud-based solution transforms how agencies manage signals by using connected vehicle data to deliver continuous, systemwide performance insights—helping you move from reactive fixes to proactive improvements.

With Signal Analytics, you gain the power to prioritize investments, target problem areas, and justify improvements with confidence.

Whether you're looking to retime signals, evaluate a corridor, or close data gaps—our solution gives you the intelligence you need to make smarter, faster decisions that benefit your entire network.

Key Benefits

- ▶ **Network-Wide Visibility**
Analyze every intersection and corridor—no hardware required.
- ▶ **Fast, Scalable Insights**
High-frequency vehicle probe data to spot issues & trends.
- ▶ **Easy-to-Use Tools**
Before/After comparisons, summaries, daily reports, & data visualizations in a few clicks.
- ▶ **Detailed Performance Metrics**
Including Arrivals on Green, Travel Time, Delays & more.
- ▶ **Integrate Into Existing Tools**
API access to bring our high-quality signal metrics to your GIS, BI, or ops dashboards.

Signal Analytics Delivers ROI for Agencies of Every Size

FASTER DECISIONS



No more waiting for complaints, field data, or contractor reports.

SMARTER PRIORITIZATION



Get network-wide insights to focus on areas where it matters most.

LOWER COSTS



No installation or maintenance costs—just insights on demand.

Key Metrics and Features

Metrics Available

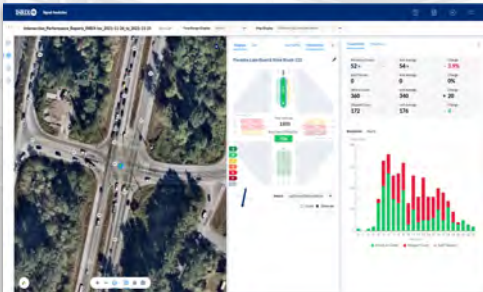
- ▶ Vehicle Count by Movement
- ▶ Turn Movement Percentages
- ▶ Travel Time
- ▶ Average Speed
- ▶ Percent Arrival on Green (POG)
- ▶ Control Delay
- ▶ Level of Service (LOS)
- ▶ 3-Minute Delay Count
- ▶ Trajectory Plots
- ▶ Travel Time Index
- ▶ Planning Time Index
- ▶ Level of Travel Time Reliability

Signal Analytics gives agencies the powerful insights they need to identify and solve performance issues at scale in a cost-effective way.

“We are using Signal Analytics to quantitatively verify the extent of existing issues and the degree of improvement/benefit once we make changes and adjustments.”

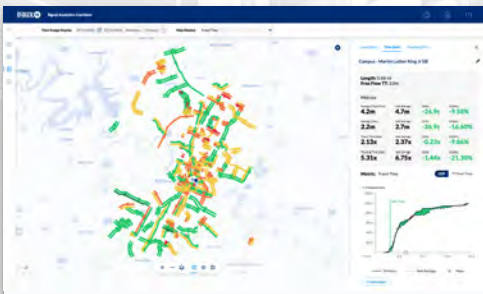
Lance Ballard, Traffic Engineer,
Kimley-Horn (City of Austin)

Features to help you better manage systemwide traffic signal performance by working smarter, not harder.



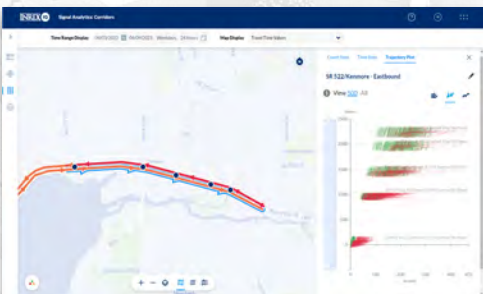
Evaluate Intersection Performance at Scale

Quickly identify underperforming intersections and diagnose issues like delay, split failures, and poor progression —without hardware or fieldwork.



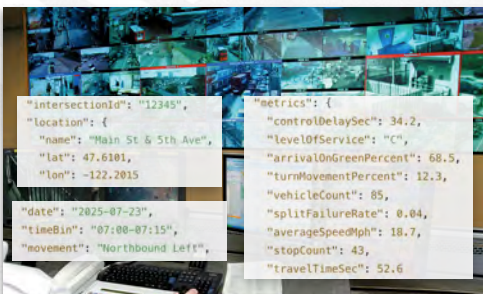
Analyze Before & After Performance

Compare performance between any two time periods side-by-side to validate interventions, identify bottlenecks, and report results with clarity.



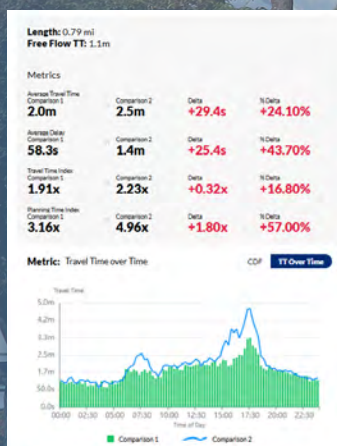
Uncover Bottlenecks Along Key Corridors

Visualize traffic flow across signalized corridors to spot inefficiencies, compare directions, and target improvements that reduce delay and improve progression.



Use API to Bring Metrics Into Your Tools

Agencies with existing platforms can use the Signal Analytics API to supplement existing data sources, extend coverage, and power in-house tools with systemwide performance metrics.



Data You Can Trust

Signal Analytics processes over 130 million vehicle intersection crossings each week, covering approximately 300,000 intersections—and growing. It delivers granular performance insights and complements detector-based platforms by validating and enhancing signal timing parameters.

- ▶ Signal Analytics uses **high frequency, high resolution** GPS point data from **connected vehicles**
- ▶ Results are generated at **15-minutes granularity** at intersection, approach, movement, and corridor level
- ▶ Complete **detail and transparency** of metrics and trends are provided within Signal Analytics

As a leader in transportation data and intelligence for more than 20 years, INRIX helps world class organizations make calculated decisions about the world around them. INRIX transforms 36B+ data points into insights for some of the most innovative public sector agencies and businesses to help them keep the world moving smarter, safer, and greener.

- ▶ INRIX captures **120M** trips per day in the US (1 out of every 7 miles driven in US)
- ▶ Insights are sourced from **145+ countries**
- ▶ **36B+** real-time data points collected each day, **25M+** every minute
- ▶ **2T+** KM of vehicle trip data representing **35B+** driving hours

Work smarter. Act faster. Save time and money.

Transform your signal management with INRIX Signal Analytics.



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