SMATS TRAFFIC DATA MANAGEMENT

Driving Decision Making with Smart Traffic Data

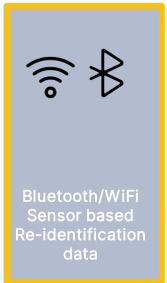




iNode™ – Ingests (raw) transportation data from multiple sources











iNode cleans, processes and analyzes the raw data to support...



Traffic Operations

- Traffic Signals Management
- Congestion Detection
- Wrong-way Detection
- · Work Zones Monitoring
- Traffic Calming
- Cut-through Analysis
- Safety



Transportation Planning

- · Origin-Destination
- Corridor Study
- · Complete Streets
- Lane Re-Allocation
- Count Data Collection

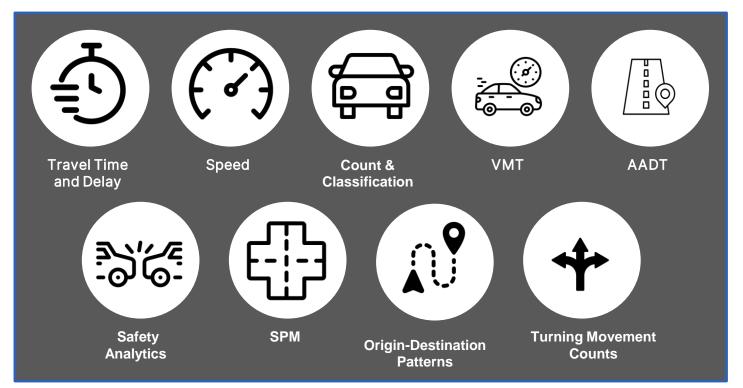


Traffic Engineering

- Traffic Impact Studies
- Bottleneck Detection
- Traffic Signal Retiming
- Calibrate Simulation Models
- Travel Time Reliability Data
- Signal Performance Measures



Transportation metrics generated through iNode

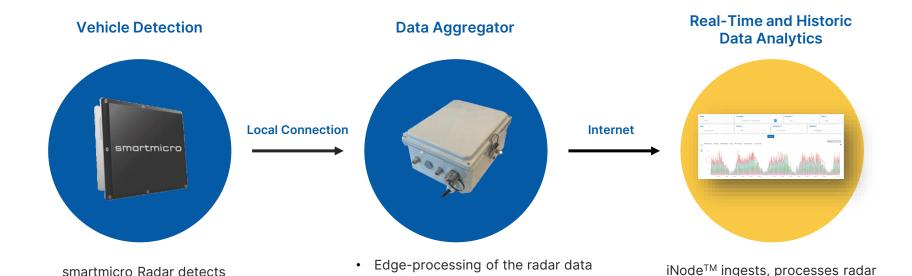




Integrating smartmicro radar with iNode

How does it work?

objects



Onboard LTE Modem

Bluetooth and WiFi MAC address detection



collected data and produces visual

analytics and insights

Benefits of integrating smartmicro radar with iNode

Multiple ready to use metrics

- Count and classification (smartmicro Radar)
- ✓ Travel time (TrafficXHub™)
- ✓ Origin-destination patterns and analysis (TrafficXHub™)

Edge data processing

- Data collected and stored locally for security in case of communication loss
- ✓ Edge processing minimizes data transmission between radar and iNode (<1GB/month).
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- ✓ 2-way remote communication with radar via LTE, without requiring a static IP.

Easy firmware maintenance and upgrade

- Radar watchdog
- Radar remote monitoring and firmware upgrade

Automated alerts

- Real-time local triggers for queue detection, wrong-way detection, etc.
- Email alerts on data triggers





Use case 1

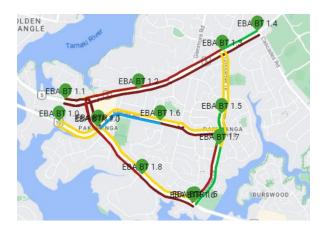
Country

- New Zealand
- 24 locations in 4 Cities

Use cases

- Count and Classification
- ✓ Travel Time
- ✓ Origin-Destination
- Queue Measurement









Use case 2

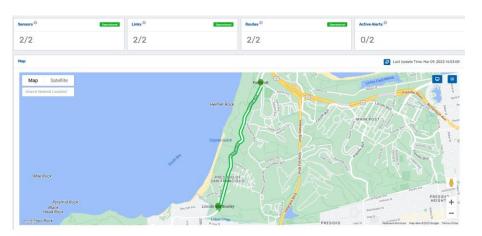
Country

- ✓ US (San Francisco)
- Presidio Trust

Use cases

- Wrong-way detection
- Count and classification
- Stop-sign running violations
- Origin-Destination











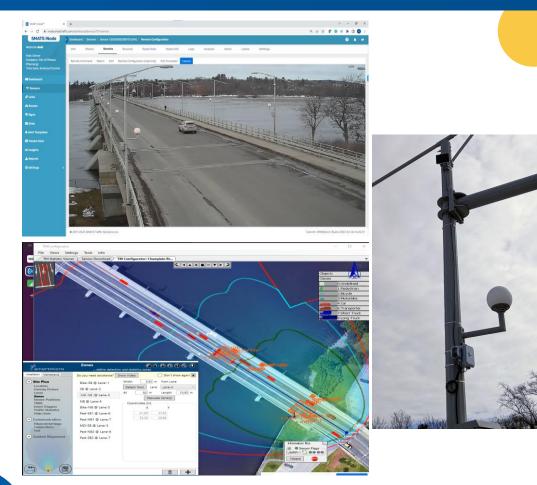
Use case 3

Country

- Canada
- City of Ottawa

Use cases

Inter-provincial Multi-Modal
Count and Classification





Why SMATS?

- TS?
- Full data collection capabilities for all your traffic operations, planning and engineering needs
- Powerful + User-friendly Analytics platform (iNode) with data fusion capabilities and deep end-to-end analytics
- Lower cost, and flexible contract terms we make it work for your projects and budgets







THANK YOU.

Questions? Get in touch:



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