

SNUG Auckland 22'

SmartTraf – Collect, Analyse & Interpret
Traffic Data in Real Time

UPDATE

- Initial trial established Port of Tauranga – early 2020
- Successful installations of 50+ smartmicro radars for virtual stop-line detection across NZ. Additional 60 committed to jobs
- Addition of the R2X to TSL product offering

Lessons Learned smartmicro Radar

- **POSITIONING AND ALIGNMENT**
- Cycle detection
- Easy to remotely access and configure
- Live traffic makes for easier refinement of configuration
- Utilise appropriate extensions – vertical / horizontal
- Quality of support from Germany

Smart City – Definition

“A smart city is a technologically modern urban area that uses different types of electronic methods and sensors to collect specific data. Information gained from that data is used to manage assets, resources and services efficiently; in return, that data is used to improve operations across the city.”

Current Offerings: Transport, Waste and Community Connectivity

SmartTraf – What is it?

An IoT based, single solution for travel-time, traffic counting, average speed detection, classification & visualisation of transport data

ONE SMART TOOL

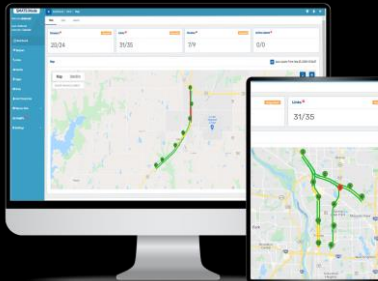
SmartTraf – Hardware and Software



smartmicro Radars – UMR11 (Type 44) & UMR12 (Type 48 and 48 Stream)



SMATS Traffic Sensors – TrafficXHub & Traffic XHub Cabinet (Controllers)



SMATS iNode – Collect, Analyse, Translate and Interpret Traffic Data

SmartTraf - Features

- Gathering travel-time data via WiFi & Bluetooth MAC address detection
- Data is synced in real-time
- Visualisation of historical data – before and after studies
- Alerts on radar data – wrong-way detection, queue length
- Ultra-high definition (4D/UHD)
- Detection – 256 vehicles, 10 lanes, 32 detection zones, 300m +
- 8 object classification
- IP Camera

SmartTraf - Benefits

- Ease of Install
- Powerful & Easy to Use Software
- Secure
- Licensing
- Compact
- Dynamic
- Scalable
- Unobtrusive

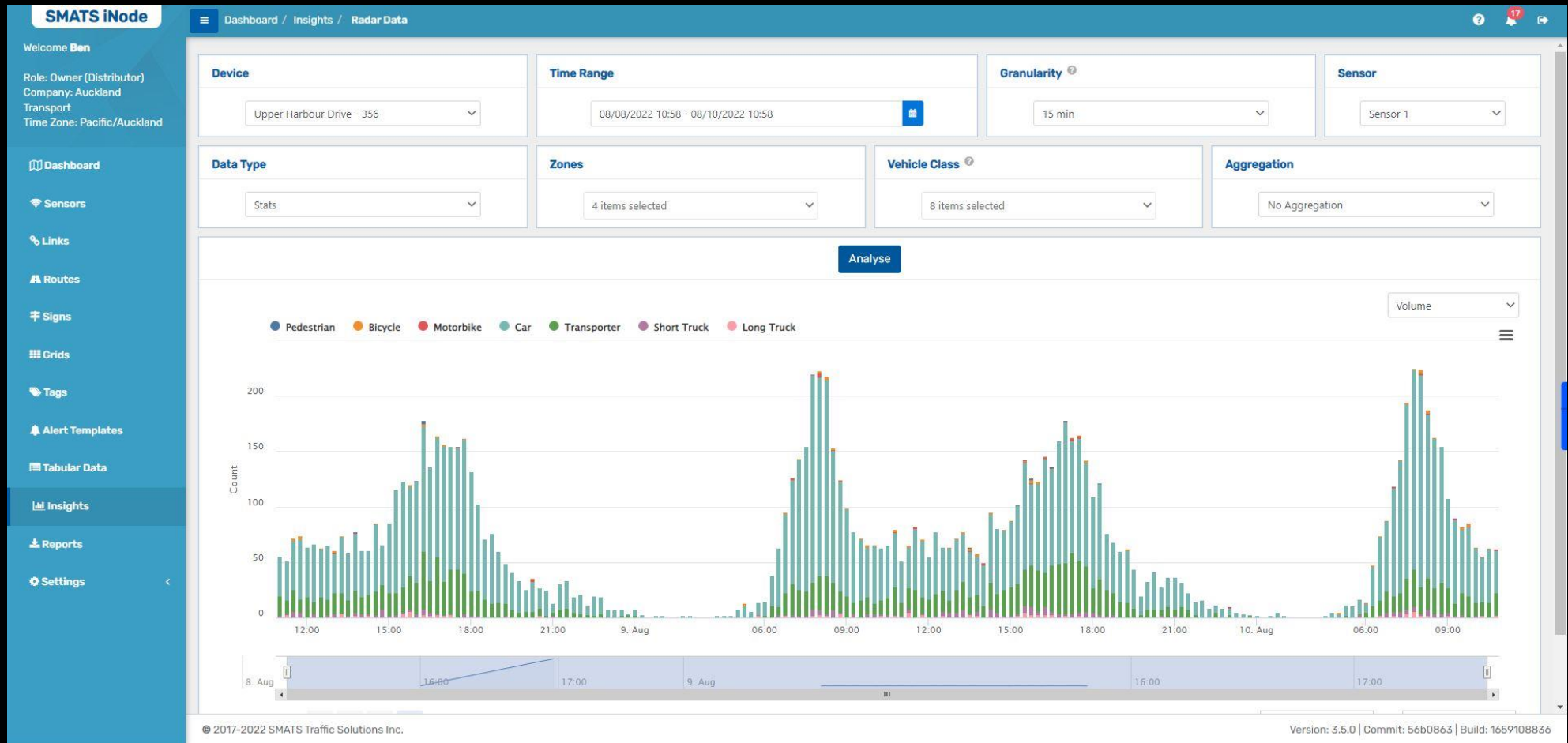
SmartTraf – Application

- Eyes on the network – real-time traffic statistics, provision for future development, safety improvements/enhancements
- More efficient pavement design – classification of axle loads
- Central city traffic planning – identify congestion and inform future improvements
- Cycle lanes – measure uptake and inform future investments
- Smart TMP's – measure real time traffic volumes, before and after studies

Example – Upper Harbour Drive



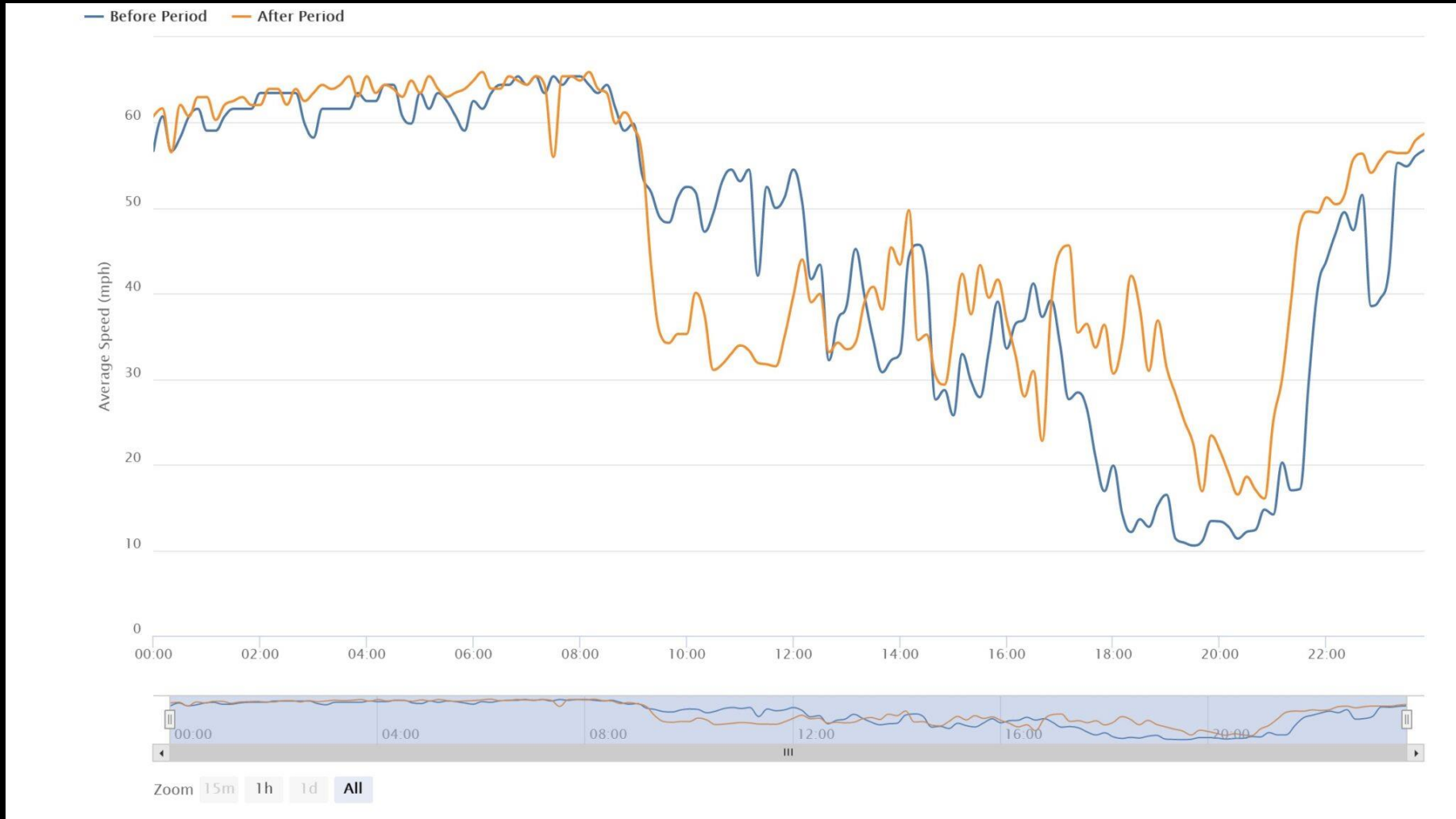
Radar – Traffic Statistics



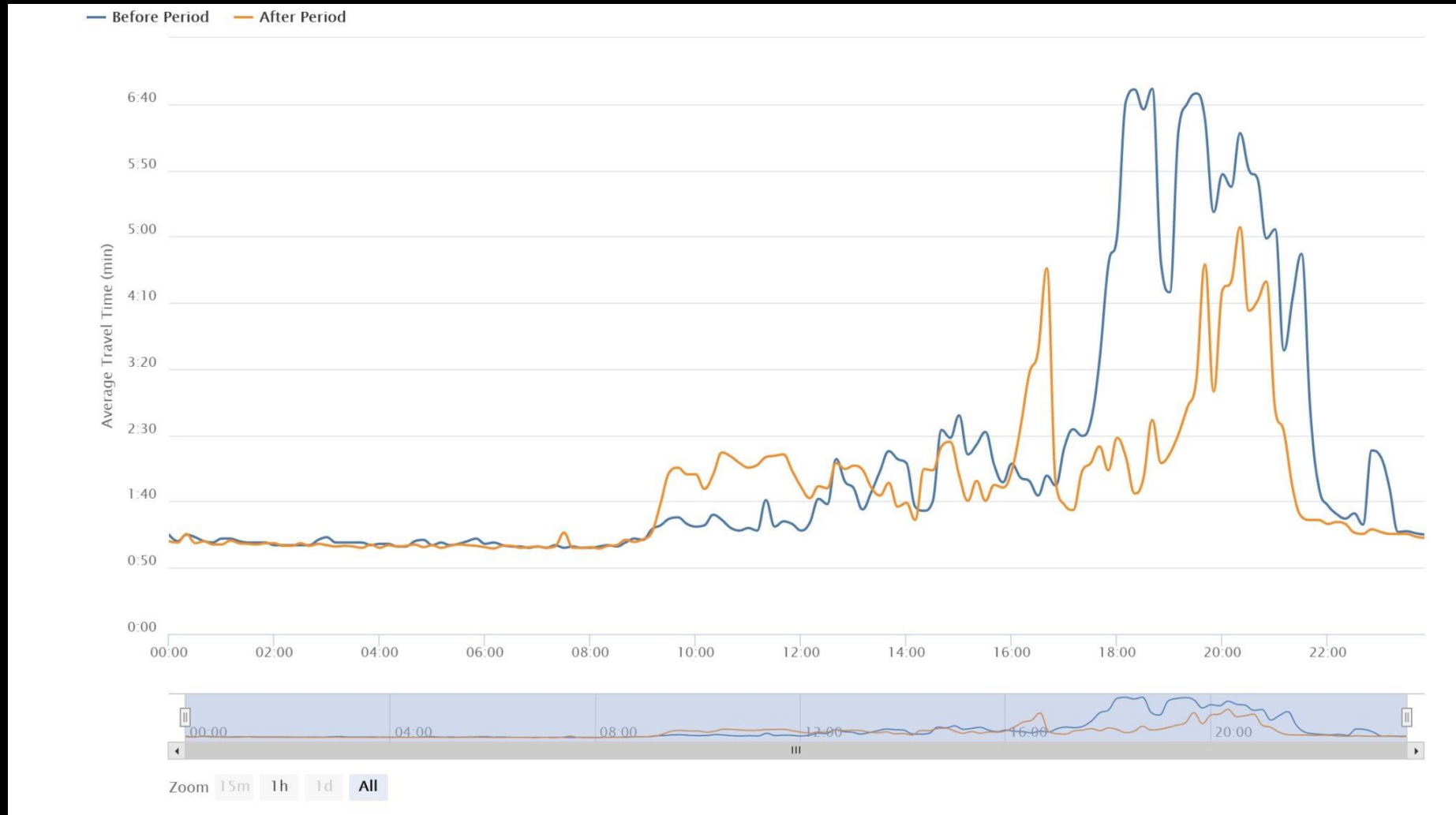
Radar – Zoned Speed Analysis



Single Link – Multiple Speed



Single Link – Multiple Travel Time



SmartTraf – Current and Upcoming Projects

- Auckland Transport – Cycleway Detection
- Napier City Council – Intersection Classification
- NPDC & Waka Kotahi – Intersection Classification
- TTOC – Intersection Classification
- EBA (Eastern Busway Alliance) - Travel Time, Before and After Comparisons, Smart TMP's, Intersection Management

SmartTraf – Why Invest?

Smart Decisions

Smart Data

ONE SMART TOOL

SmartTraf – Live Demo

- iNode - <https://inode.smatstraffic.com/dashboard/insight/radar>