Cohda Wireless

CAV Examples

Connected Autonomous Vehicles

Cohda's mature suite of CAV-specific applications have solved critical CAV issues including localization, sensor fidelity and system cost

The next generation of CAV application layer software provides car manufacturers with advanced cooperative perception solutions.
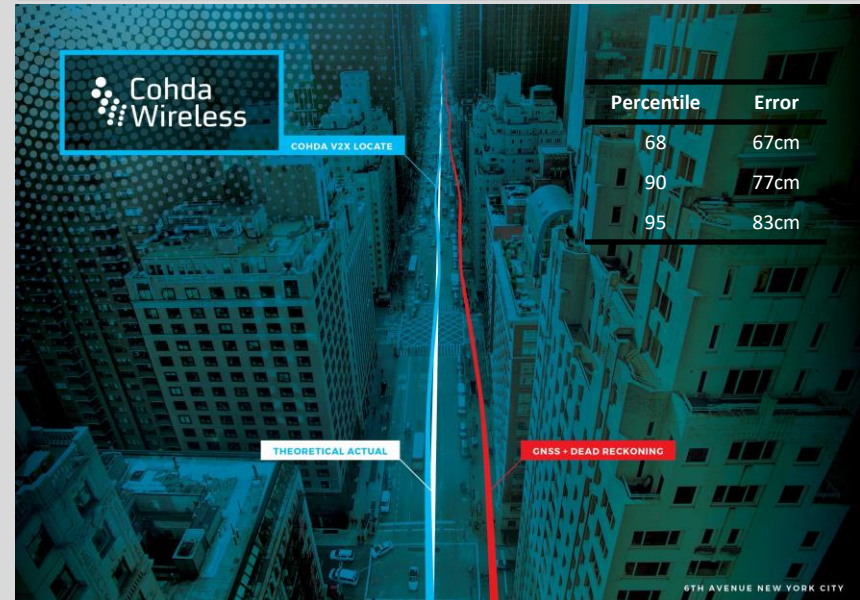
COLLABORATION AND COOPERATION ON OUR ROADS

CAV Solutions: V2X-Locate

V2X-Locate

- V2X-Locate is unique to Cohda

- Allows the vehicles to position itself with sub-metre accuracy relative to RSU's, even in tunnels, underground car parks and urban canyons where GNSS along is not sufficient

- Cohda's V2X Locate positioning system with sub-meter accuracy 95% of the time, over 275% more accurate than comparable GNSS solution.

- Performance exceeds SAE J2945 requirements (68% < 1.5m)

V2X-Locate vs GNNS in Urban Canyon: NYC 6th Ave Test Bed

Percentile	Error
68	67cm
90	77cm
95	83cm

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COHDA V2X LOCATE

THEORETICAL ACTUAL

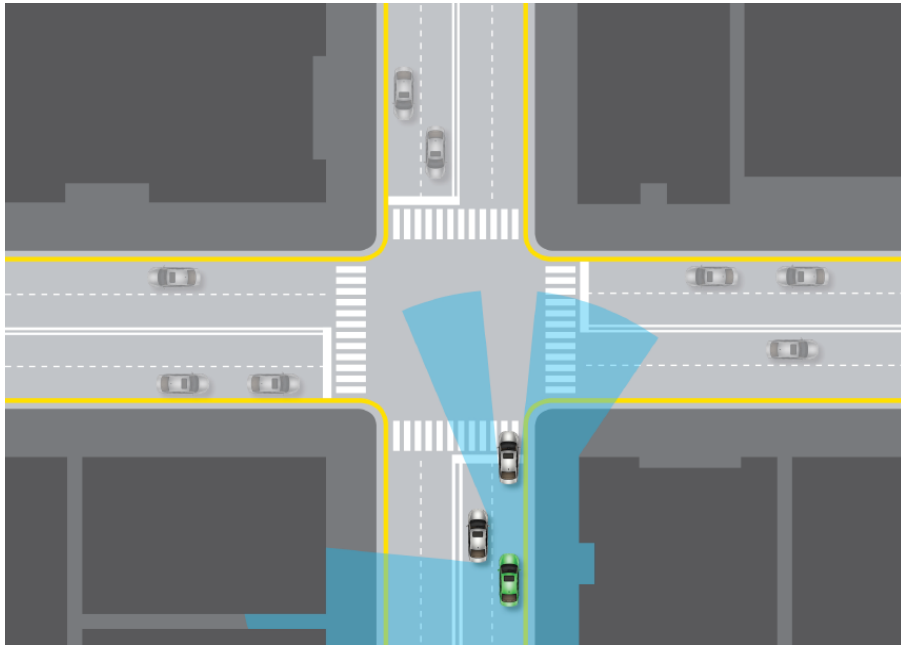GNSS + DEAD RECKONING

6TH AVENUE NEW YORK CITY
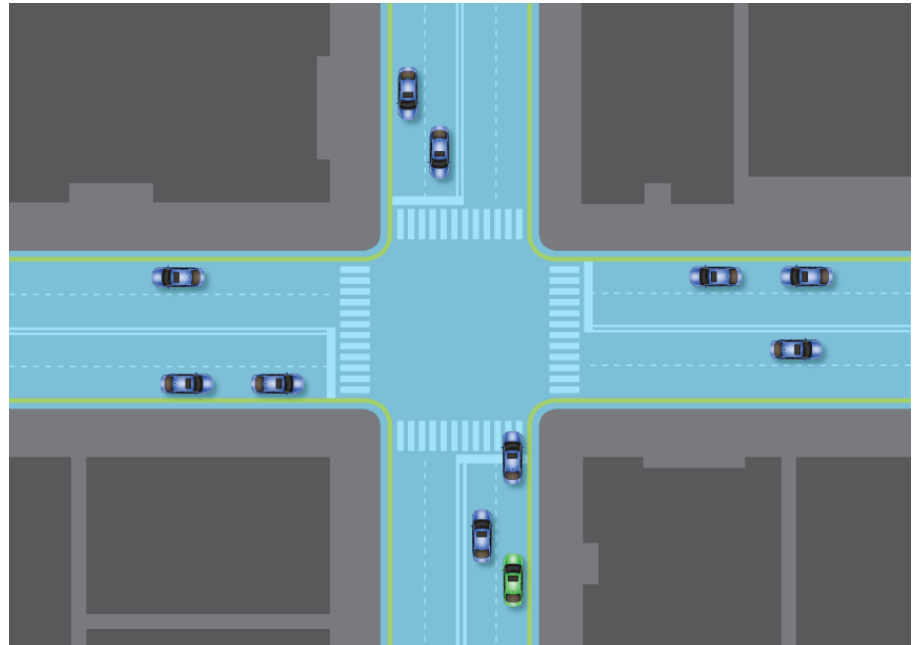
CAV Solutions: Extended Perception

Connectivity is the key to safer, smarter and greener transportation infrastructure and Cohda's V2X technology is leading the way enabling cooperative perception.
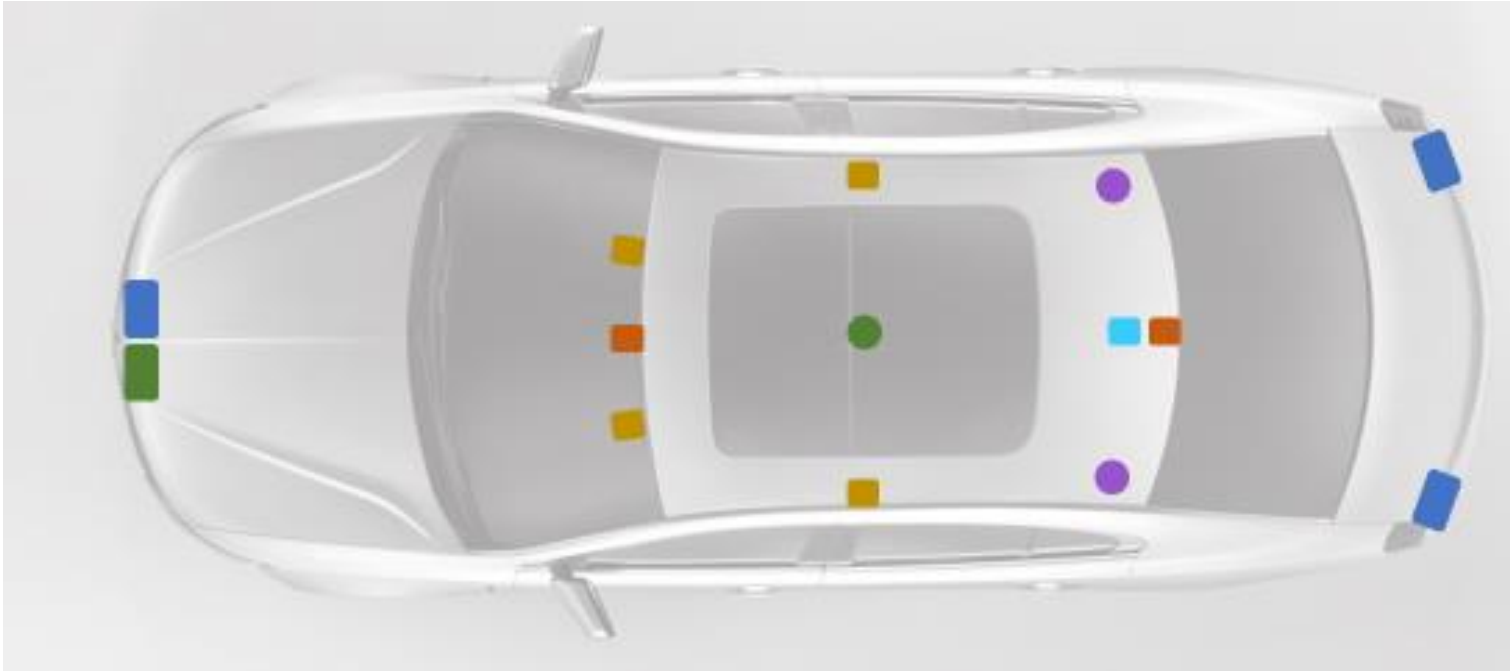

Conventional Line-Of-Sight Perception

Connected and Shared Perception via Connectivity

Cohda CAV's

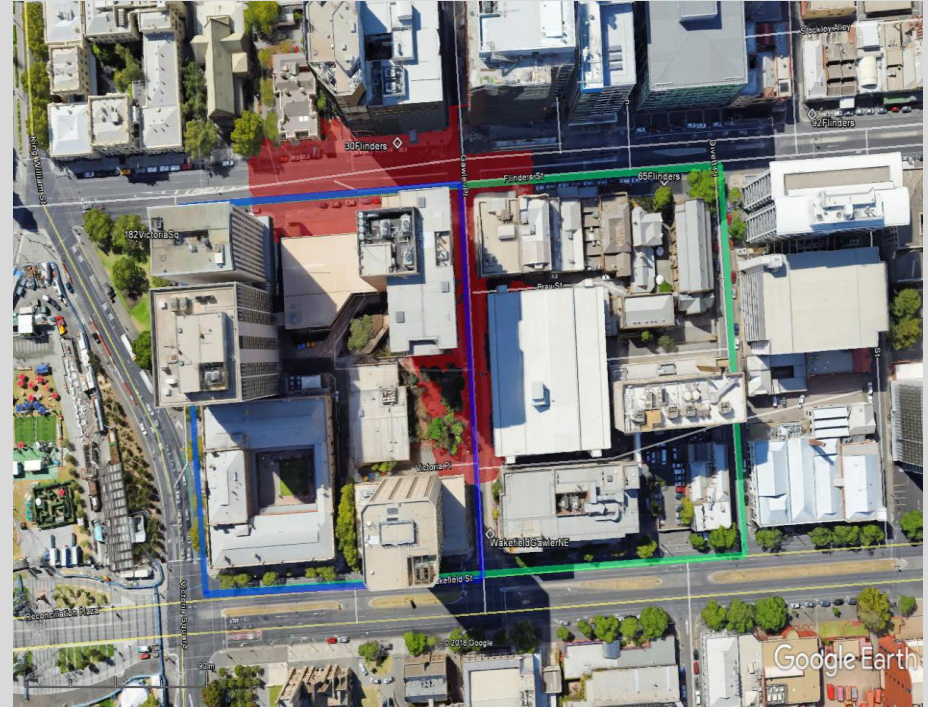|						
🟨 Wide Camera	🟧 Narrow Camera	🟦 Directional RADAR	🟩 Directional LIDAR	🟢 360° LIDAR	🟦 V2X	🟣 GNSS

Cohda CAV's: Smart Cars I Smart City

Cohda Wireless

Worlds first demonstration of a CONNECTED Autonomous Vehicle on CBD streets.

Cohda's V2X connectivity extending the perception horizon to extend around corners & unique to Cohda our V2X-Locate technology for accurate positioning
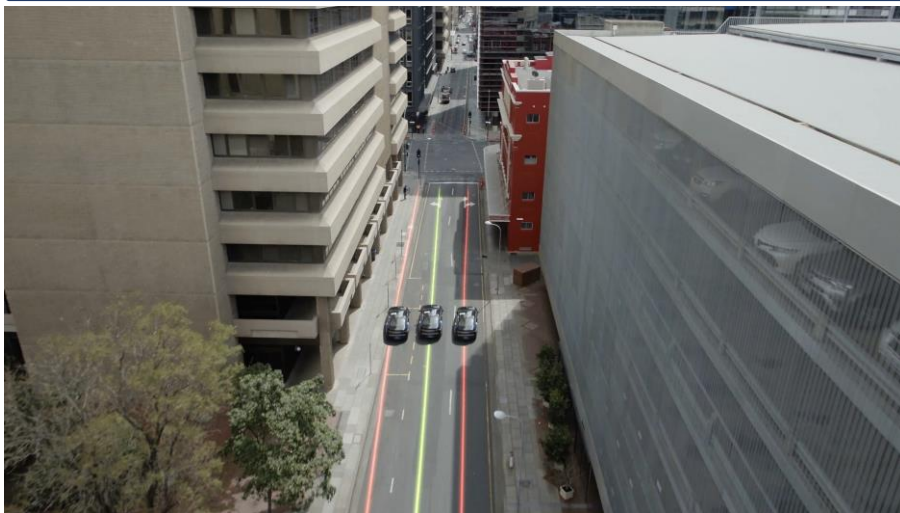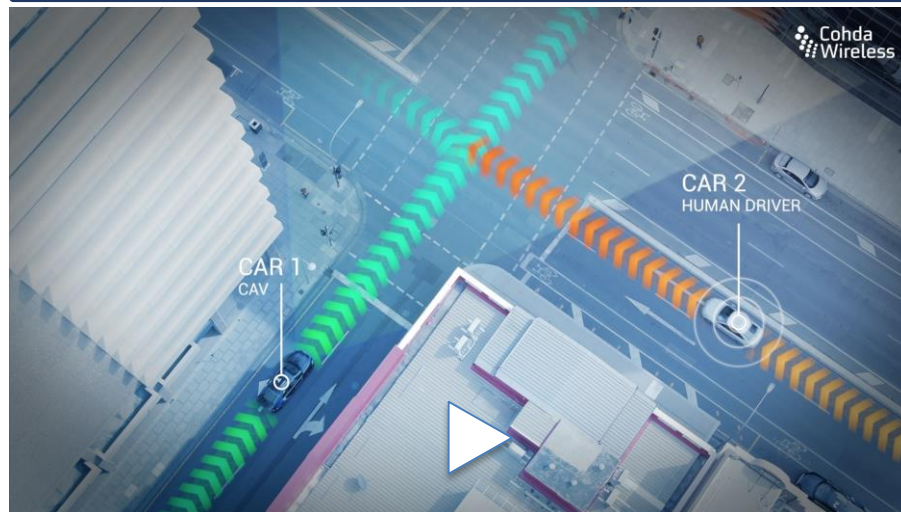
Cohda CAV's: Smart Cars I Smart City

Connectivity is the key to safer, smarter and greener transportation infrastructure and Cohda is leading the way

V2X-LOCATE: Accurate Positioning

CONNECTED Autonomous Vehicle: Extending Perception

LINK TO EVENT VIDEO: https://www.youtube.com/watch?v=WbwYFCxfqhw&t=50s