



Why Connectivity is key to a Safer, Smarter, Greener driving future

Paul Gray

A photograph showing a heavily damaged and stained sneaker (tan and red) lying on a dark, textured surface, possibly asphalt or concrete. The shoe is positioned next to a car tire. In the foreground, a computer mouse and a portion of a keyboard are visible, suggesting a connection between digital technology and the real-world impact of road accidents.

**1.25M people
die every year
on the roads
globally**

**That's one person every
25 seconds**

**A further 50M
are estimated
to be injured**



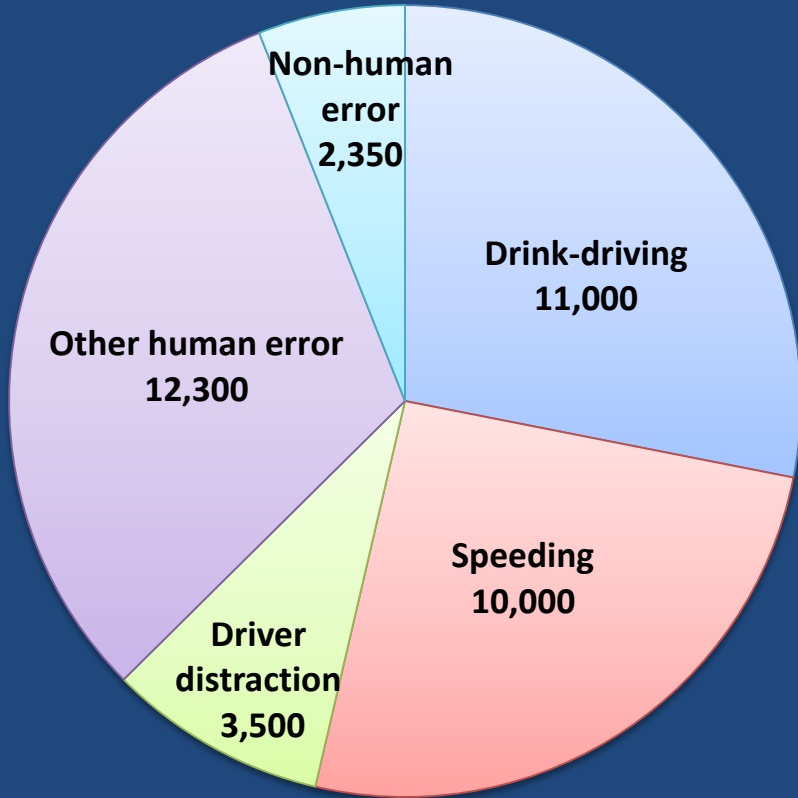
**1% GDP lost due to
congestion**

We spend *9 days* commuting every year



20%
of CO2 emissions
from road transport

94% road deaths due to human error



Autonomous Vehicles: The Vision

- A car that will drive itself
- Freeing us to do things we'd rather do
- A perfect chauffeur
- Safely



Autonomous Vehicles: The Reality

- Replicating human drivers is hard
- Mimicking human brains & eyes: suboptimal
- Leveraging the Network Effect: smarter

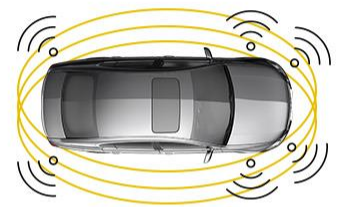


Connected Vehicle

Communicates with nearby vehicles and infrastructure; Not automated.



Connected Automated Vehicle
Leverages autonomous automated and connected vehicles.



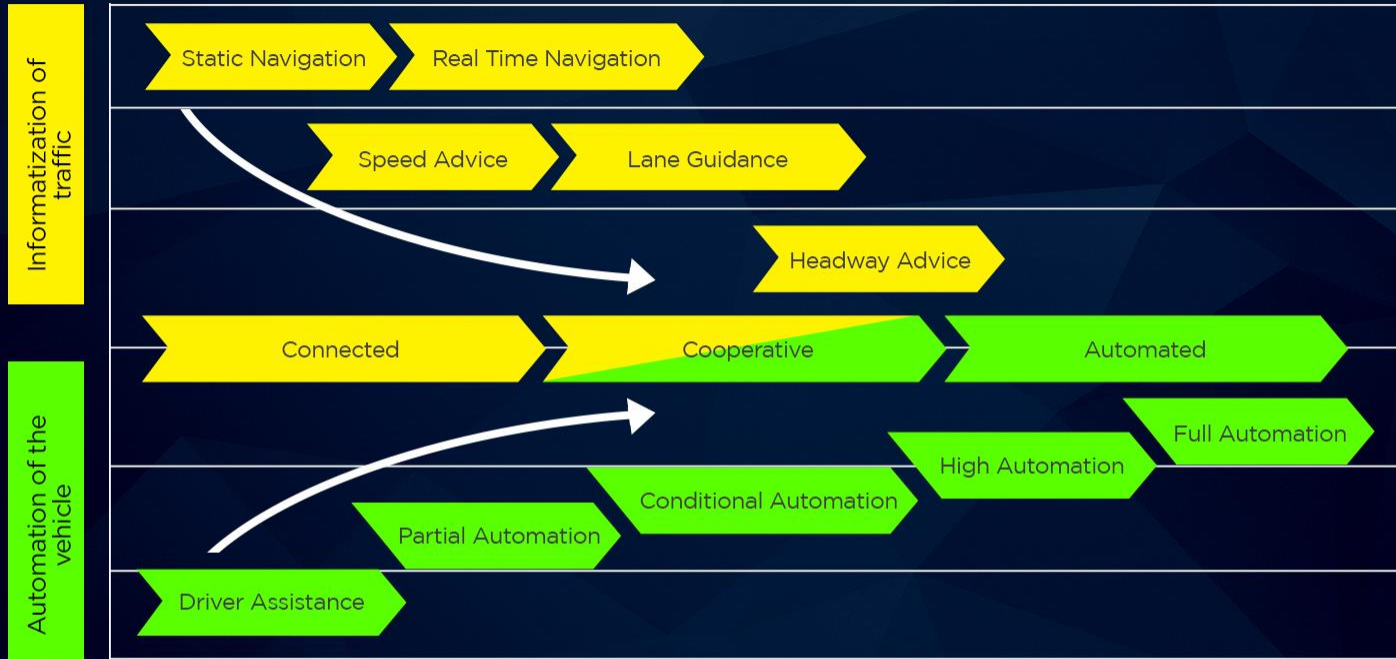
Autonomous Vehicle

Operates in isolation from other vehicles using internal sensors



“The agency believes that this fusion of connectivity and vehicle-resident technologies will advance the further development of vehicle automation systems, including the potential for truly self-driving vehicles.”

- US National Highway Traffic Safety Administration



“Work towards a coherent European framework for the deployment of interoperable connected and automated driving, which should be available, if possible, by 2019”

– European Commission Declaration of Amsterdam



“Automated vehicles that accurately detect, recognize, anticipate, and respond to the movements of all transportation system users could lead to breakthrough gains in transportation safety.”

- US DOT Automated Vehicles 3.0

Connected (Autonomous) Vehicles will

- Be safer
- Spend less time in traffic
- With lower emissions



Source: U.S.DOT

CVs & CAVs will

- Be connected to other vehicle
- Share sensor data & intention data
- Be aware of vulnerable road users
- Perceive more than we can see



Source: IIS-DOT

CVs & CAVs will

- Be tightly integrated with roads
- Enable fine tuned traffic management
- Exploit the network effect
- Make our cities Smart Cities



CVs & CAVs will

- Enable Co-operative Adaptive Cruise Control (CACC) & Platooning
- Reduce fuel consumption
- Extend EV range
- Lower CO2 emissions



SOUTH
AUSTRALIA

27

 Cohda Wireless

27

 Cohda
Wireless

NO VEHICLE ACCESS

OUR MISSION

**TO MAKE TRANSPORTATION SAFER AND MORE ENJOYABLE FOR ALL ROAD
USERS, AND WITH LESS IMPACT ON THE ENVIRONMENT**





Ann Arbor, USA



Munich, Germany



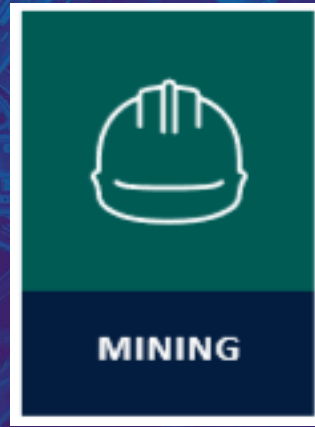
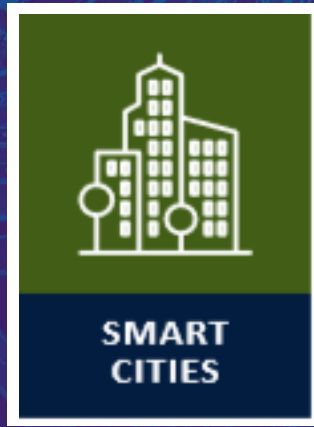
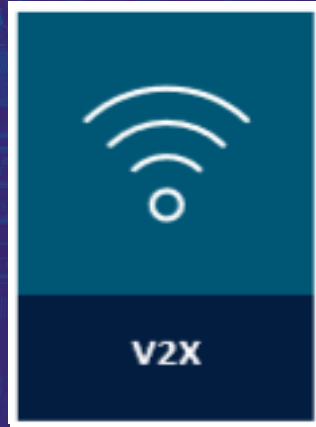
Shanghai, China



Headquarters
Adelaide, Australia

-  Cohda Office
-  Cohda Distributor

Four Key Sectors

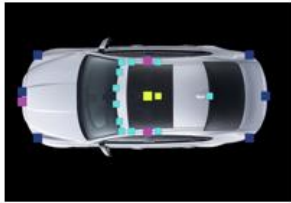


PRODUCT PORTFOLIO

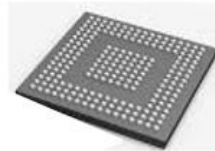
Cohda has developed a hardware agnostic software solution that is enabling hardware products to communicate in the fast developing connected and autonomous vehicle market



Software: V2X-Stack



Software: CAV Applications



Chip Set Solution



On Board Unit ("OBU")



Road Side Unit ("RSU")



22,000
devices sold

850
Customers

60%
share of trials

70
design-ins

35
design-wins

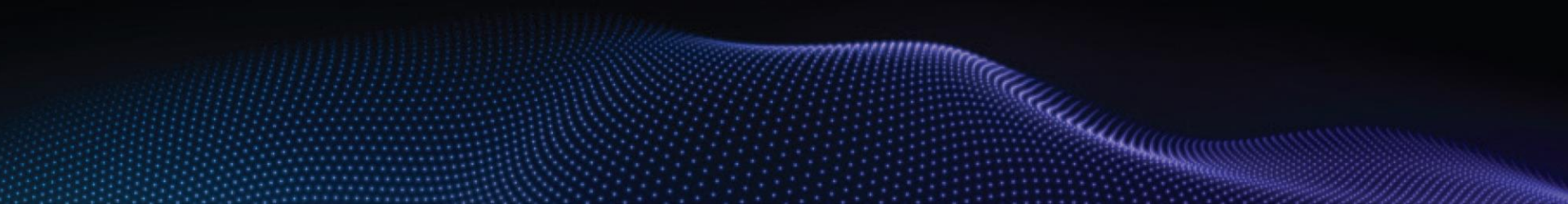


Platooning Video



Takeaways

- Connected vehicles are key for a safer, smarter future for all road users
 - Autonomous Vehicles must be connected
 - Enables deployment of applications for safety, productivity, mobility
 - Makes available valuable data for traffic intelligence
- There is the chicken-or-egg problem of connectivity adoption
 - Cohda working with others to actively solve this
- Cohda is the leader in Vehicle Connectivity and putting the C in CAV





SAFER | SMARTER | GREENER

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