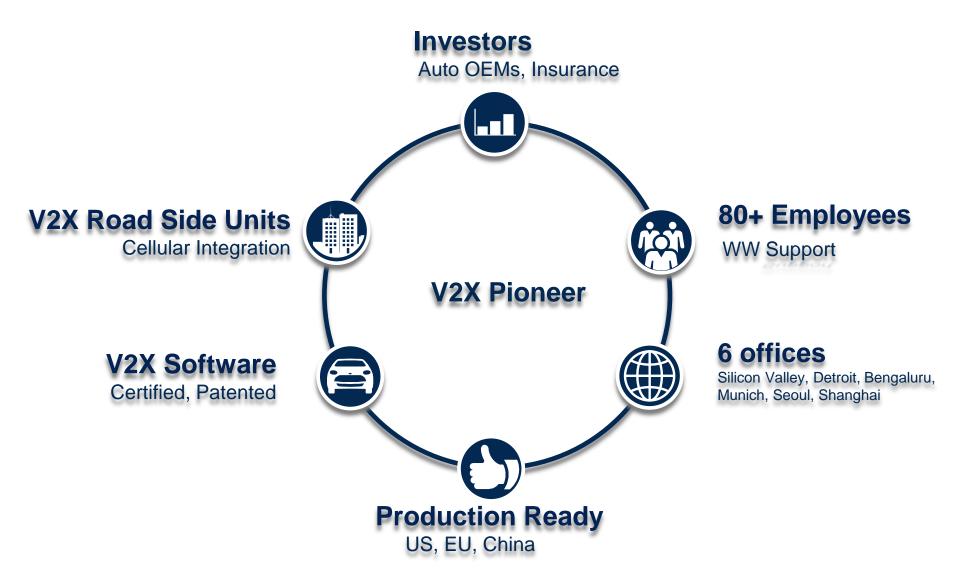


About Savari





Two major trends

Major transportation trends*

Where will trends unfold?

What and who will be impacted?

Types of V2X communication:

I = Infrastructure

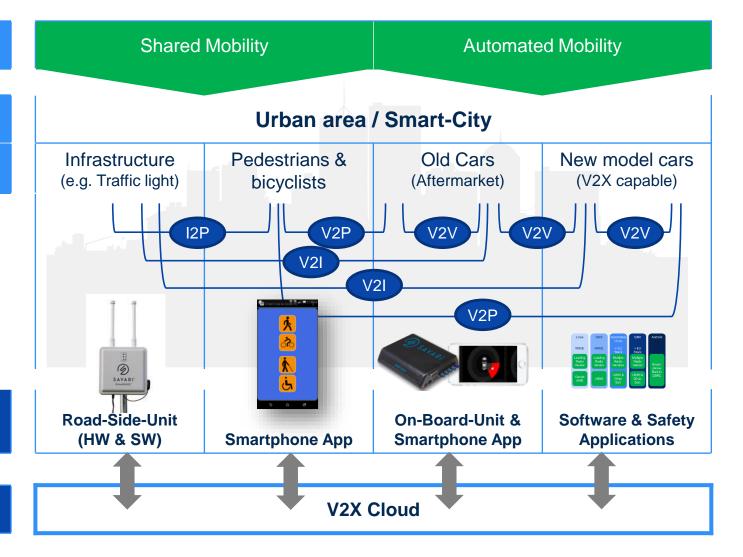
P = Phone

V = Vehicle

All communication is bidirectional

Frontend solutions

Backend solutions







Arrow = real time information sharing & analytics



Transportation Data Sources

1

Traffic Controllers
Real time data



2

LIDAR DataTraffic Perception



3

Camera DataAnalyze pedestrians, cars



4

PedestriansSmart phone



5

Traffic Centers
Centralized





Connectivity - Infrastructure

802.11p or ITS-G5

Cellular V2X (4G/5G)

Efficient spectrum usage requires two radios. Bandwidth availability is limited to 10MHz channel.

Single radio to support both V2V and V2I. Bandwidth is limited to 20Mhz channel.

Spectrum dedicated for 5.9GHz (802.11p or ITS-G5), potential sharing with unlicensed WiFi devices

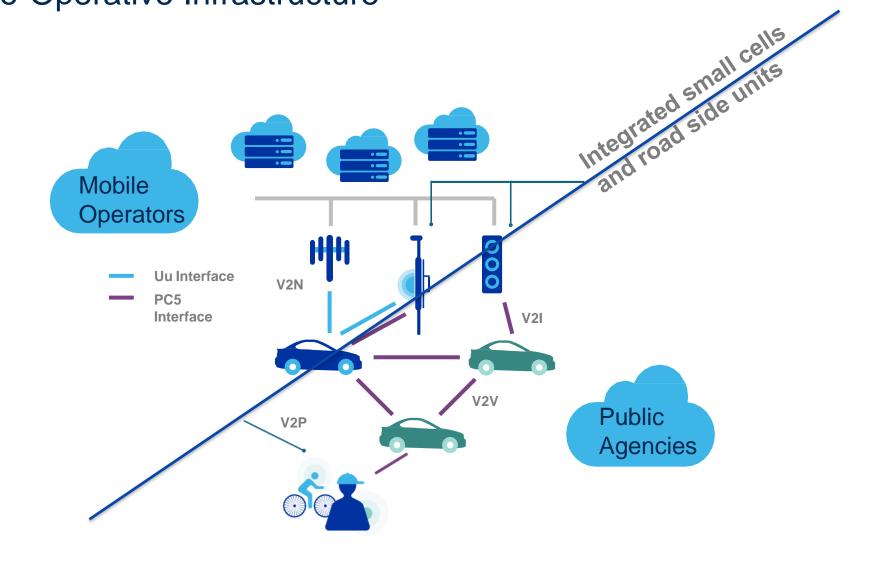
Spectrum goes beyond 5.9GHz (PC5), which is licensed spectrum (Uu), allows for extended business models

Management/Procurement of road side units dedicated to public agencies

Integrated road side units and small cells allow for lower cost of deployment; Procurement integrated with mobile operators network



Co-Operative Infrastructure





Application Deployment

Architecture



Use Cases

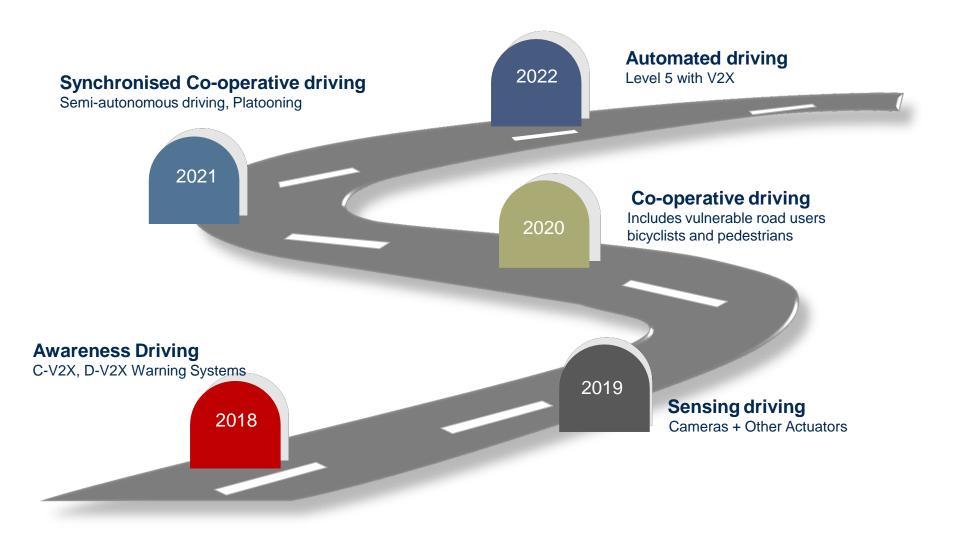
Real Time Situational Awareness

Intersection Movement Assist

> HD Sensor Sharing



Roadmap to Automated Driving





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