

Cooperative Automated Transportation Section [CATS]

CELLULAR

Direct Fiber

DSRC (5.9 GHz)

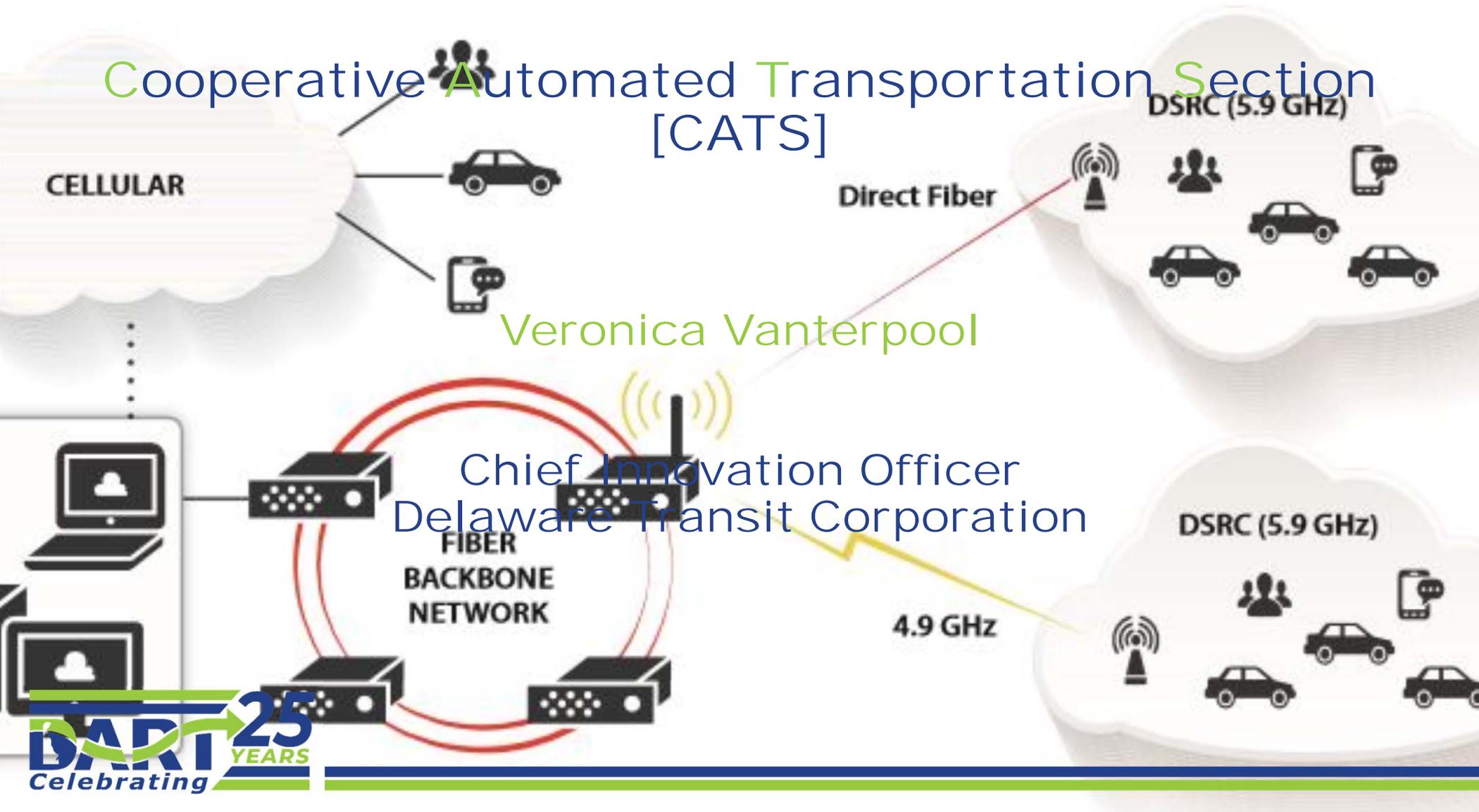
Veronica Vanterpool

Chief Innovation Officer
Delaware Transit Corporation

FIBER
BACKBONE
NETWORK

4.9 GHz

DSRC (5.9 GHz)



What is CATS?

Cooperative Automated Transportation Section

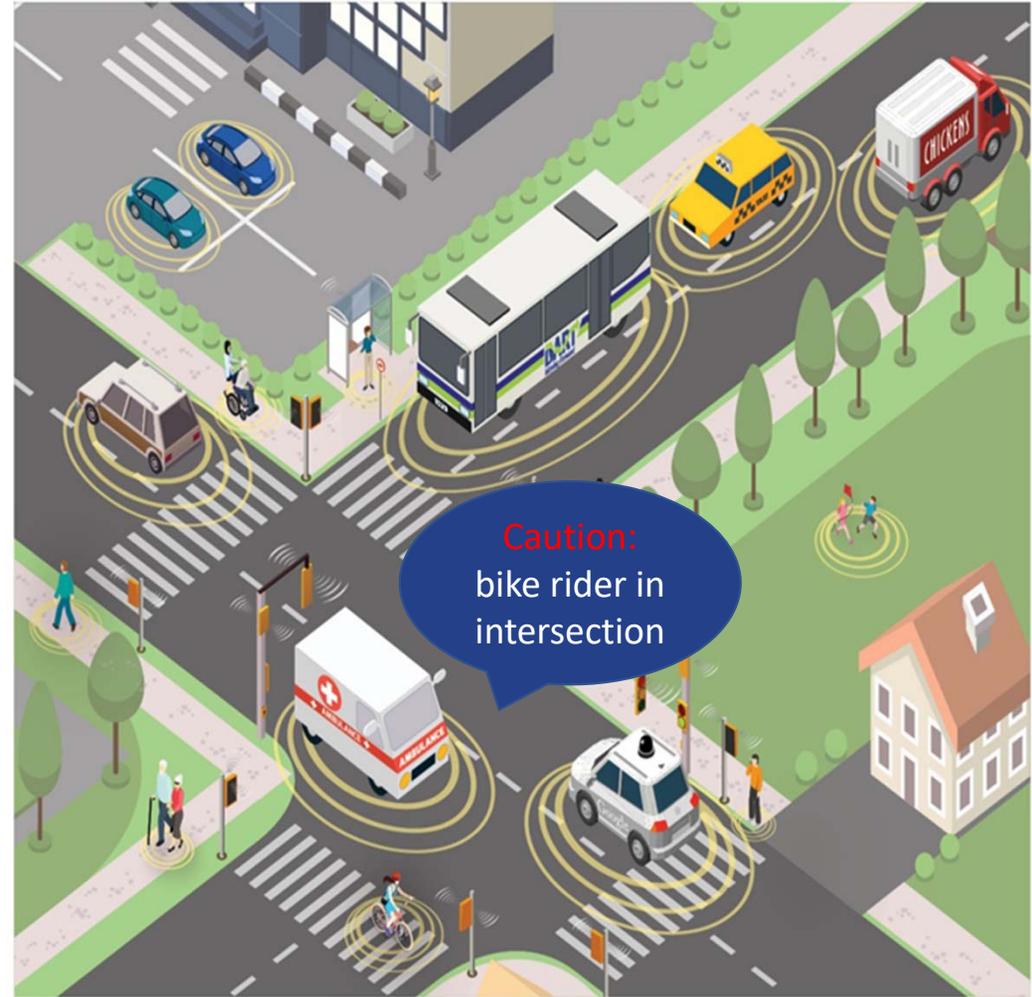
The **new** Cooperative Automated Transportation Section (CATS), within Delaware Transit Corporation, will spearhead the **next generation of transportation strategies** to improve safety, mobility and operations efficiency. CAT technology enables the **integration** of all modes of transportation to encourage a **safe, multimodal** transportation system. This new section will advance the Department's Connected and Automated Vehicles (CAV) program across the Traffic Management Center, the Department of Motor Vehicles, Planning and other sections within each of the Department's divisions. By **piloting emerging technology**, such as the purchase of two CAV transit shuttles in January 2020 by the Delaware Transit Corporation (DTC), CATS will be at the **forefront** of transportation innovation that will inform mobility around the state. As DTC responds to trends in service delivery spurred by new technology and changing demographics, CATS will position Delaware as an **incubator** for modern, efficient and technology focused transit initiatives.



What is CATS?

Includes:

Connected and
Autonomous
Vehicles



Cooperative Automated Transportation Section

Benefits of CAV – Safety & Reduced Crashes

**BRAKE
FOR
FAMILY**



Krista Warner and Daughter – DeIDOT Tolls



**SLOW
DOWN**

SAFETY.DEIDOT.GOV



Benefits of CAV – *Reduced Traffic Congestion*



Benefits of CAV – Real-time Data



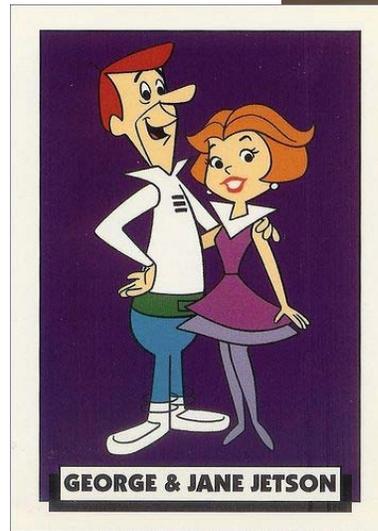
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Benefits of CAV – Priority for Emergency Vehicles



Includes:

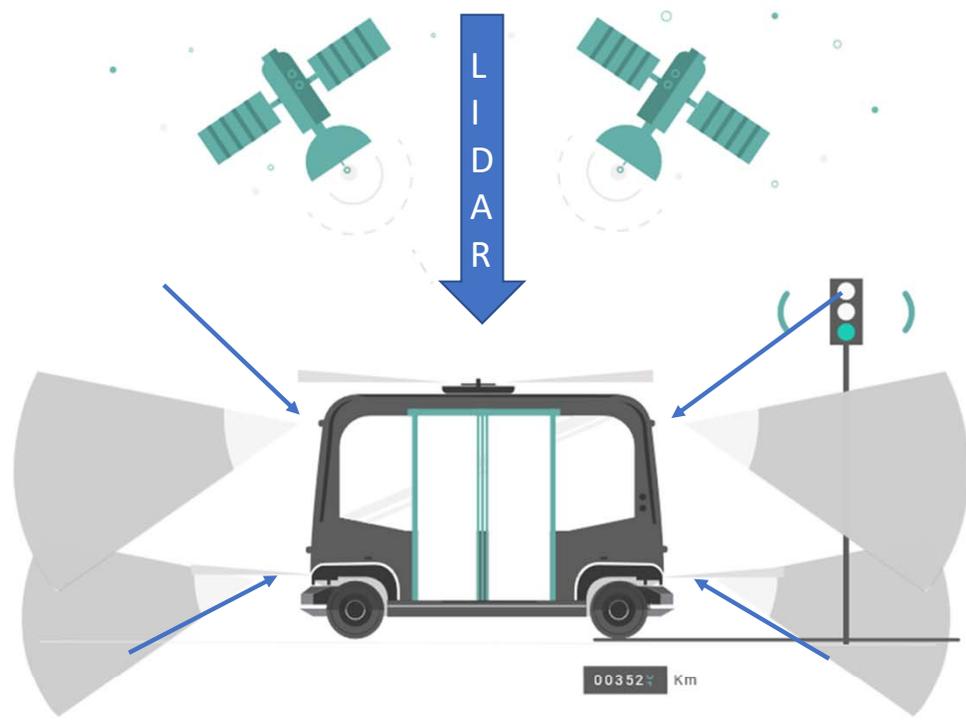
**Autonomous
Vehicle
Shuttles**



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How Does AV Tech Work?

- LIDAR + sensors
(Light Detection and Ranging)
- 3D color map
- Real-time data points



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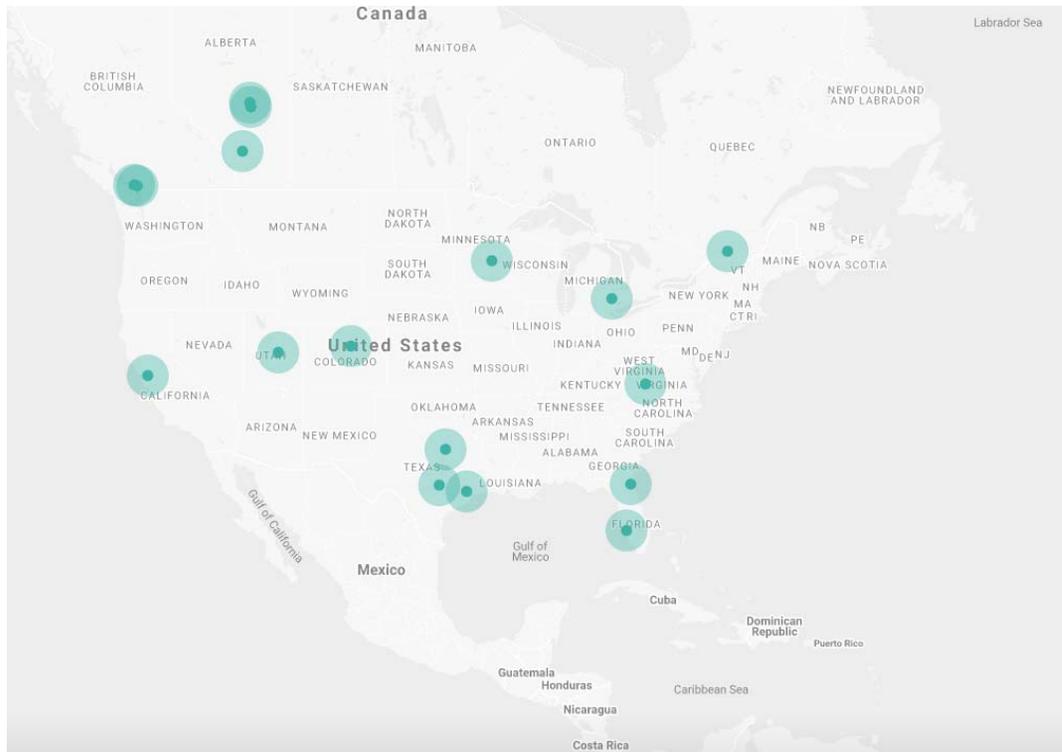


This is the EZ10



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Easy Mile in Other Cities



- First/last mile transport
- Research accessibility for older adults
- University/transit partnership
- Airport terminal to rental car
- Road show of tech around state
- Corporate campus
- Market new residential devt



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Includes:
MaaS
Microtransit



SacRT

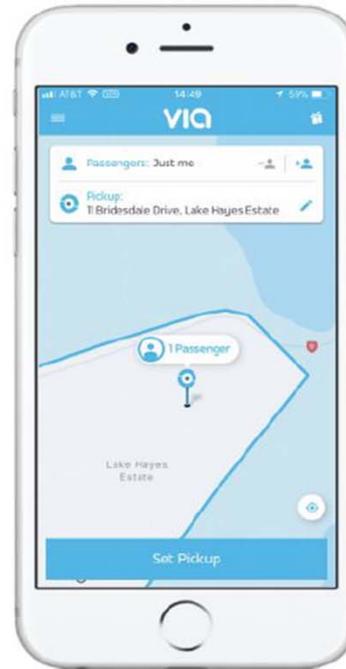
Image source: Central Ohio Transit Authority



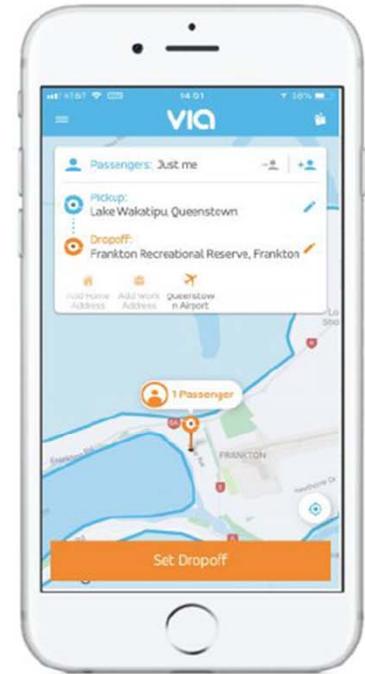
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Image source: Tri-Delta Transit/Tri My Ride



Select Pickup



Select Drop-off



Image source: Sacramento Regional Transit

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Thank you!

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