SMART CITY

SMART STATE

ITE Western District
June 24, 2019

Presented by:

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Apex Design

Denver

Smart City Initiatives

Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD)

ATCMTD

01 Leverage Connected Vehicle (CV) Technology

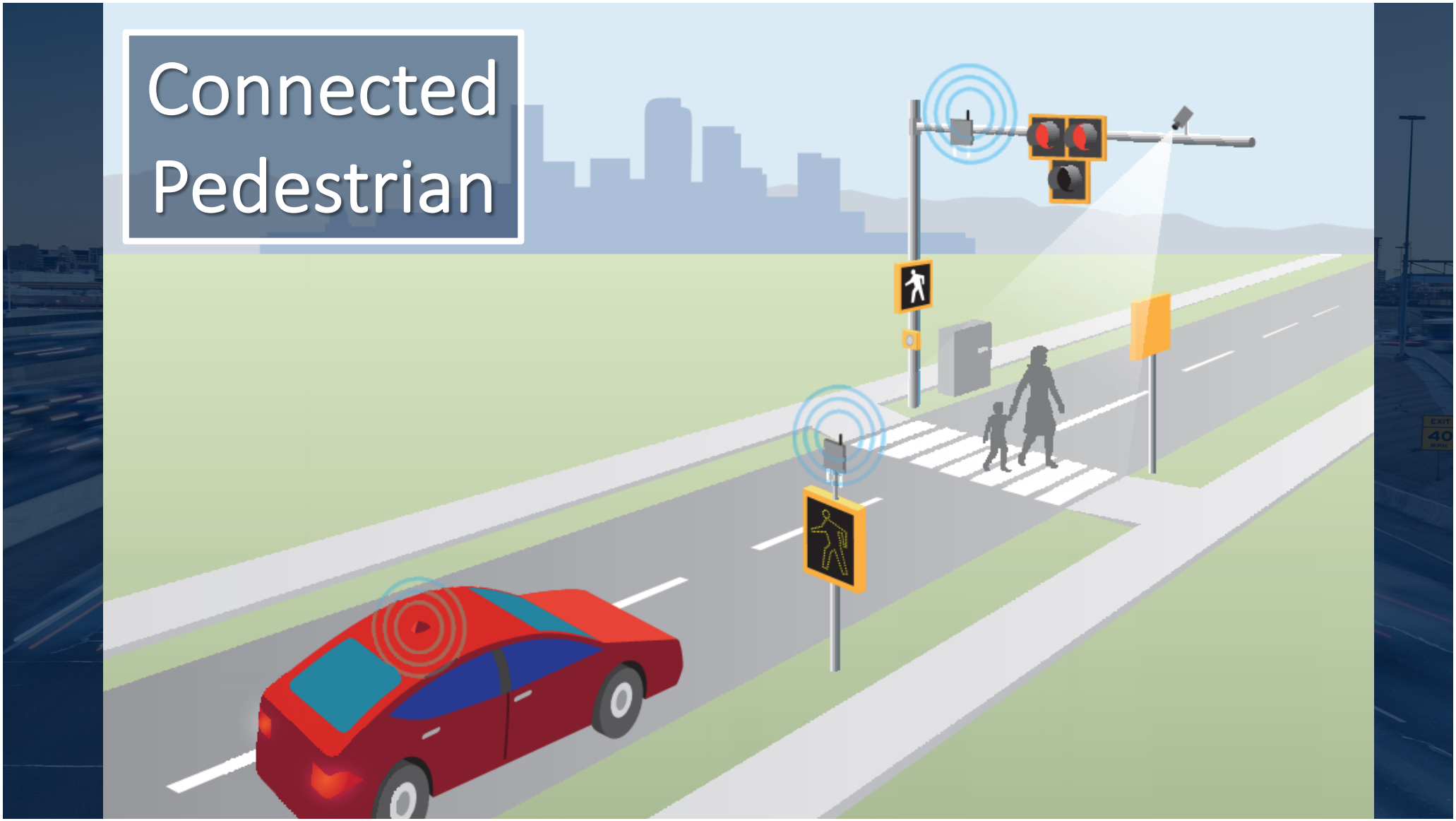
Connected infrastructure benefits for congestion & safety outcomes

02 Open by Default

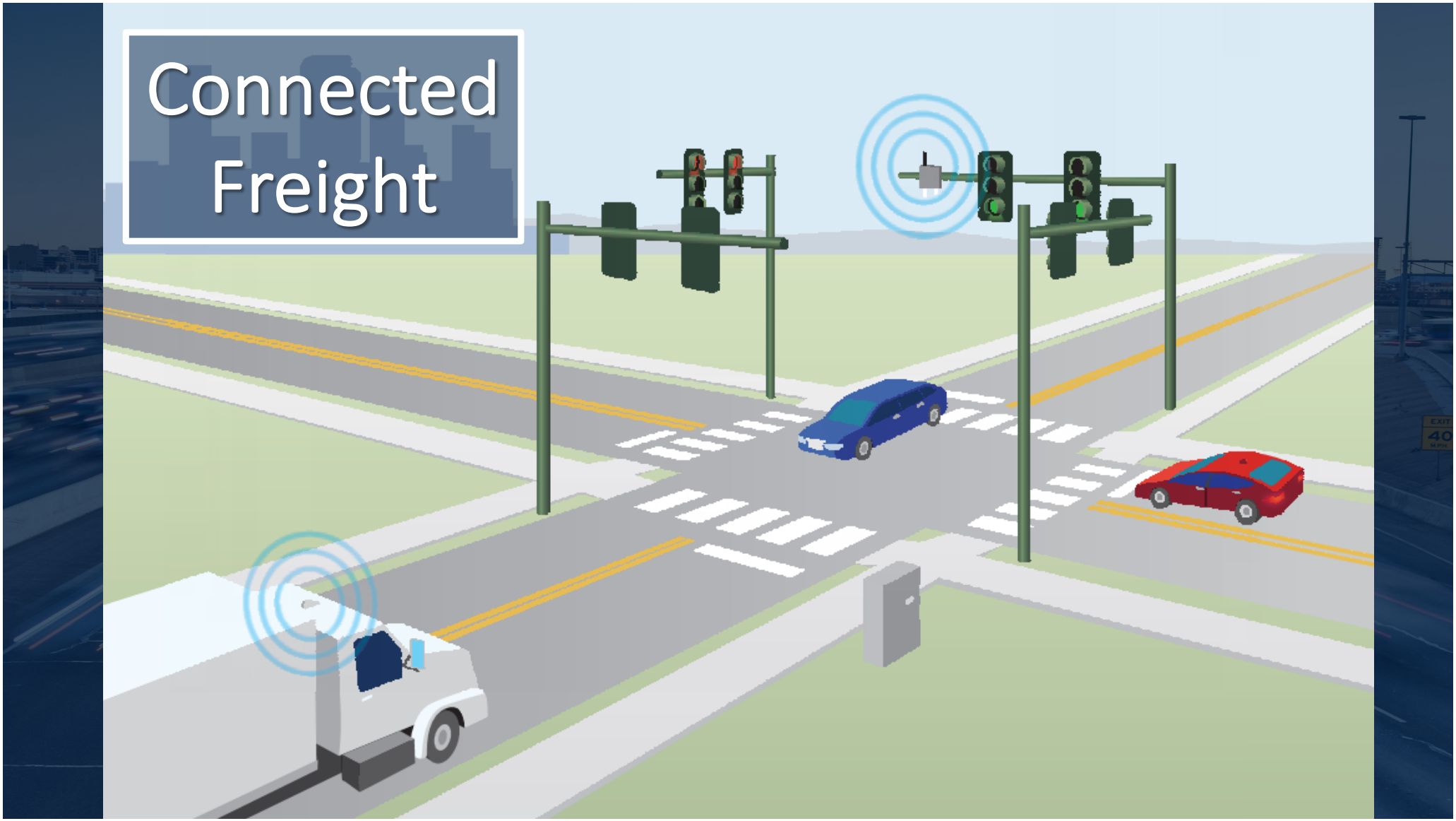
Use open source code projects & contribute back to them

03 Build Public Sector Expertise

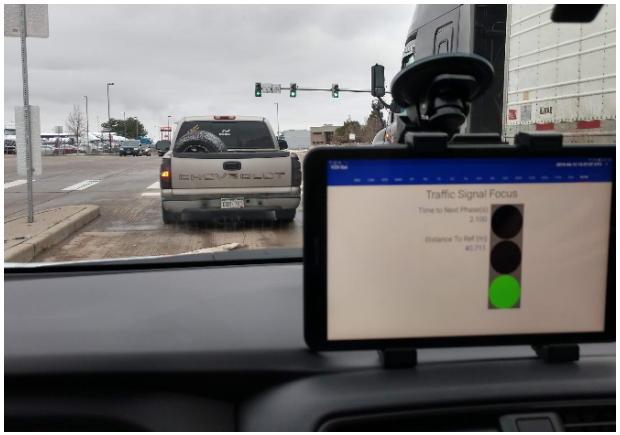
Leverage city staff expertise & build on it


Connected
Pedestrian

Connected Pedestrian Sign Rendering


Connected
Freight

Connected TMC



Start Small

Collaborate with the Community

Be Ready to Test (a lot)

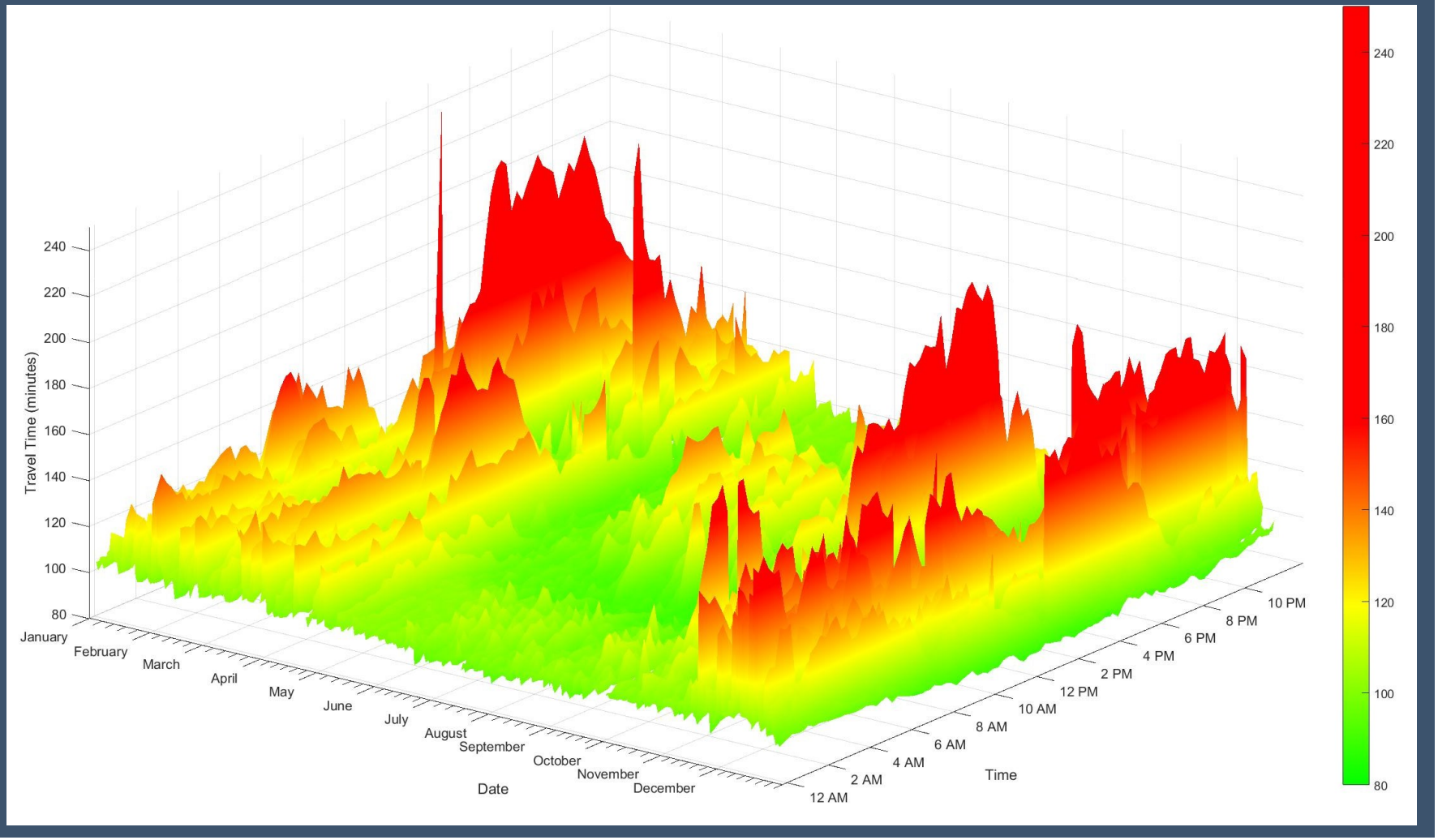
Look at internal use cases first

CDOT

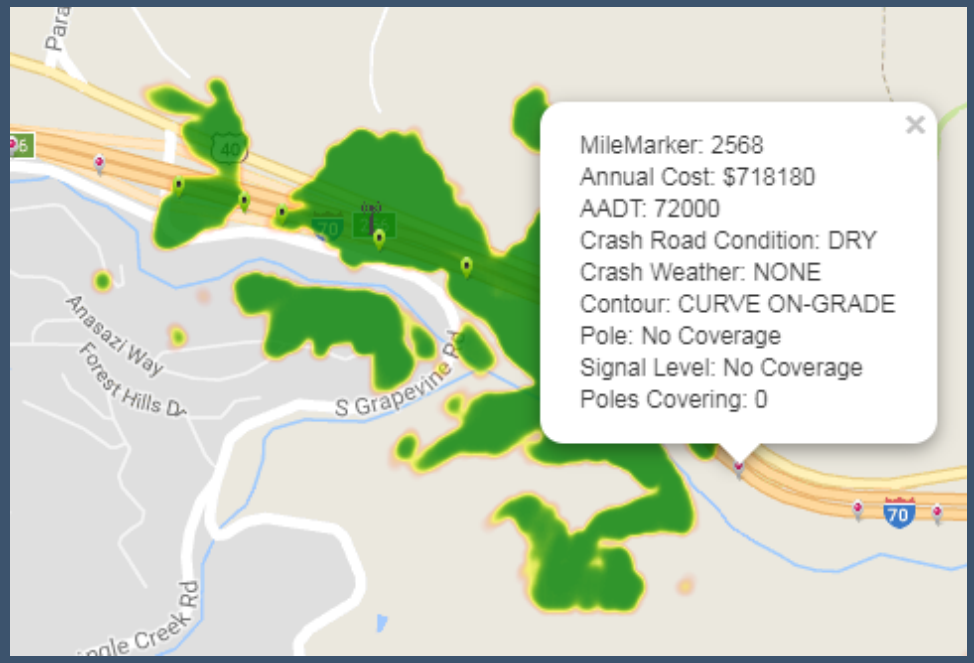
Connected Vehicle Initiative

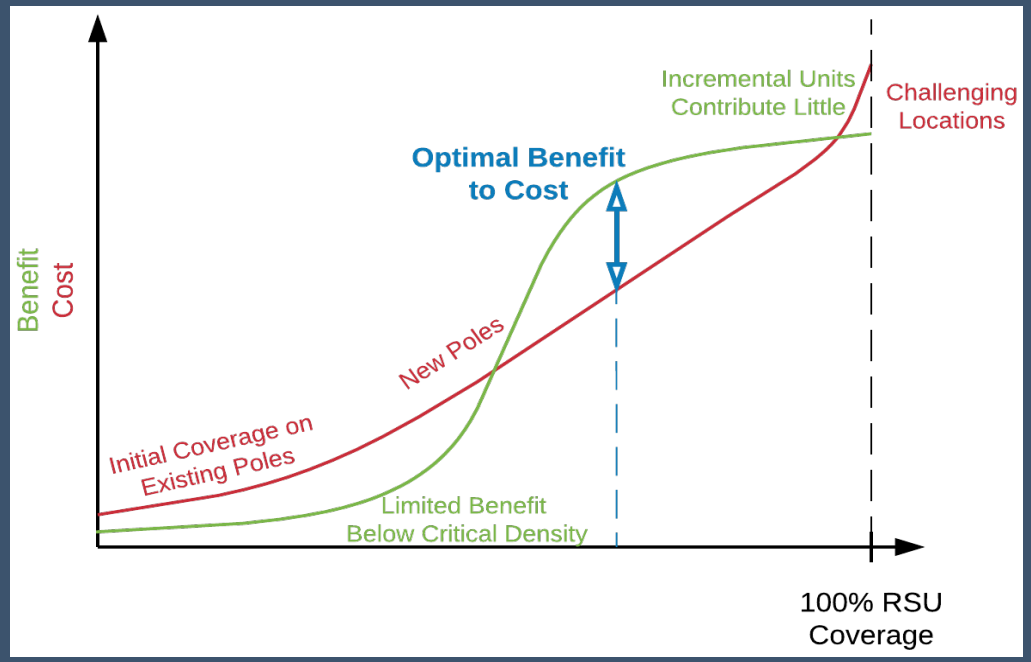
I-70 V2X Connected Vehicle Ecosystem

I-70 Mountain Corridor



RSU Optimization





01

90 Miles

I-70 from Golden to Vail

02

100 Roadside Units

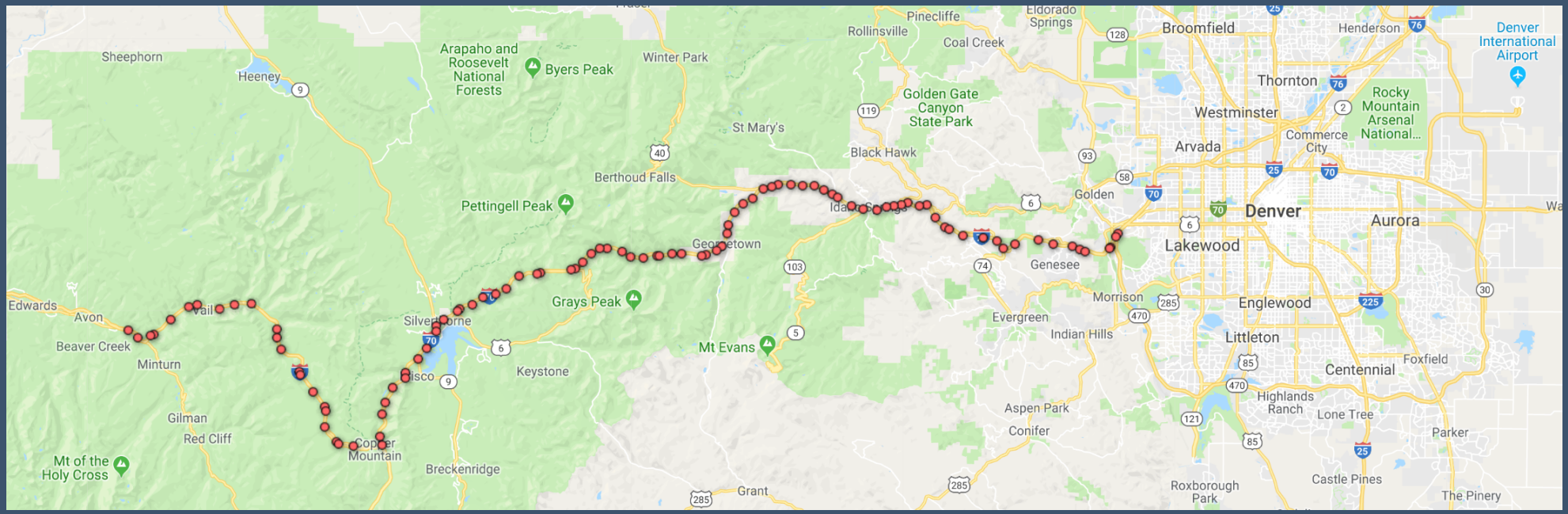
Dual DSRC and C-V2X

03

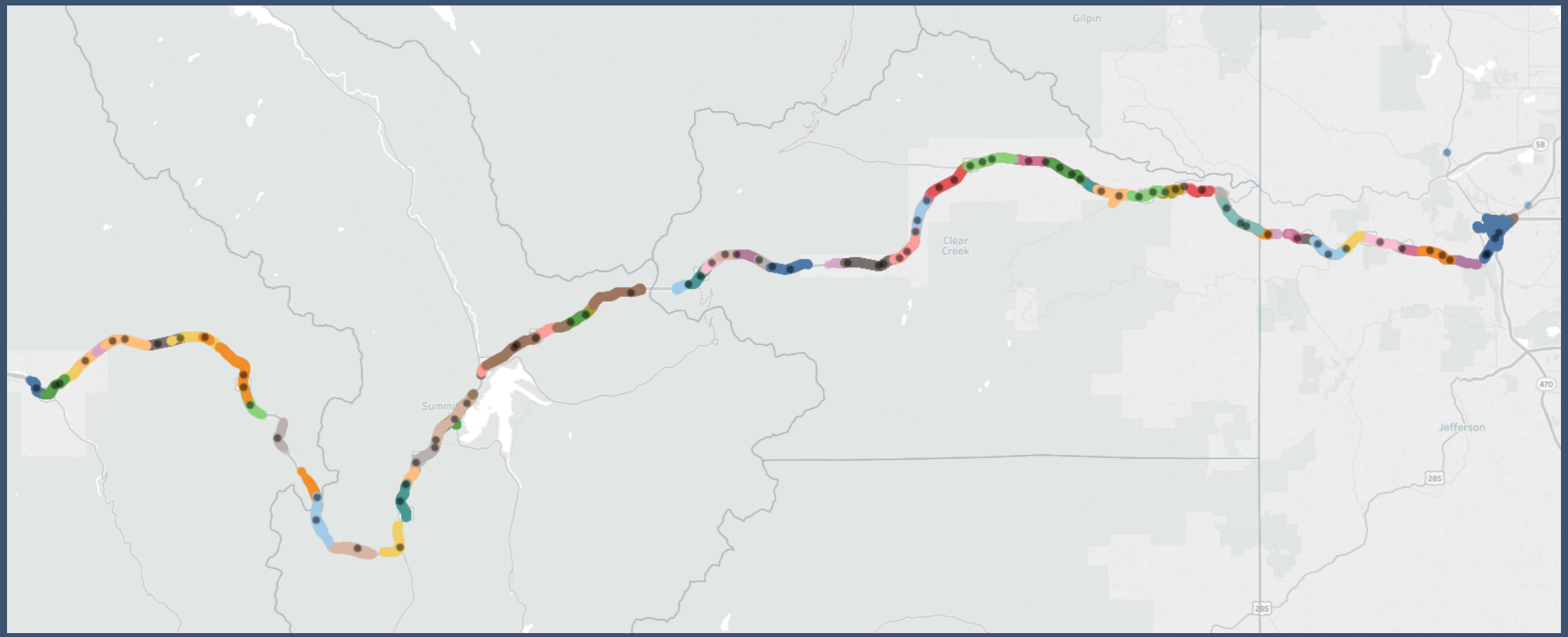
93 Vehicles Equipped

Scaling from here

RSUs Deployed



RSU Coverage

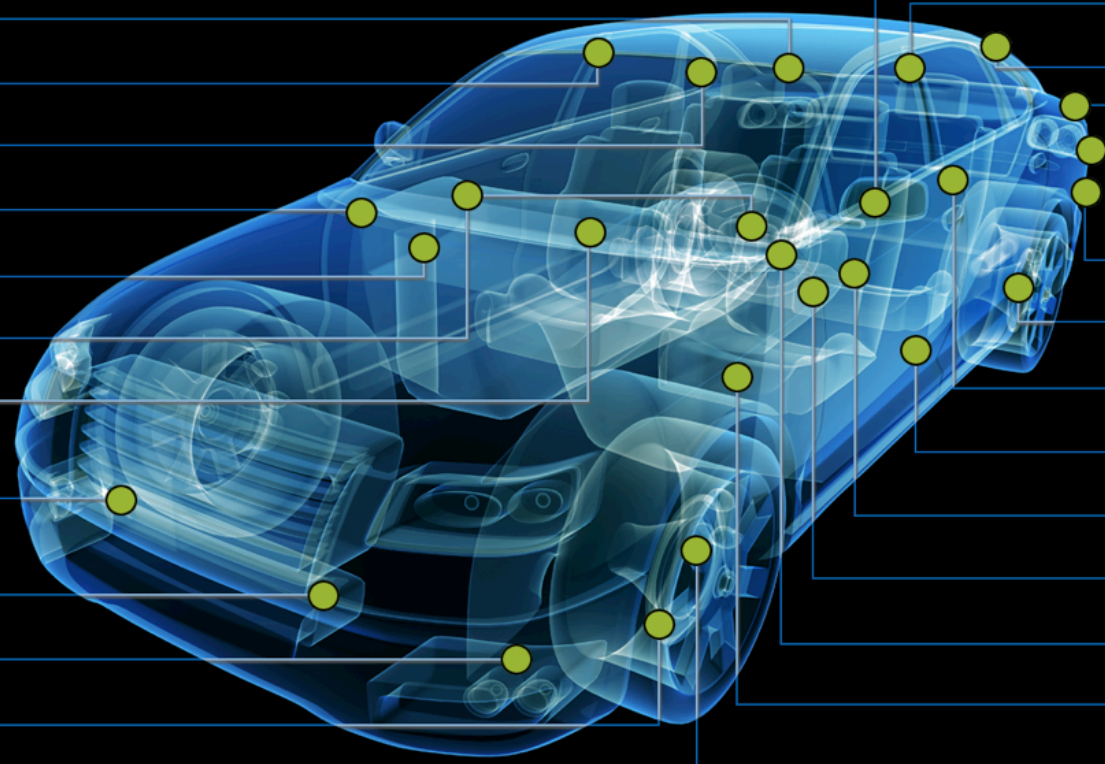


RSE & OBE

Connected Vehicle Platform

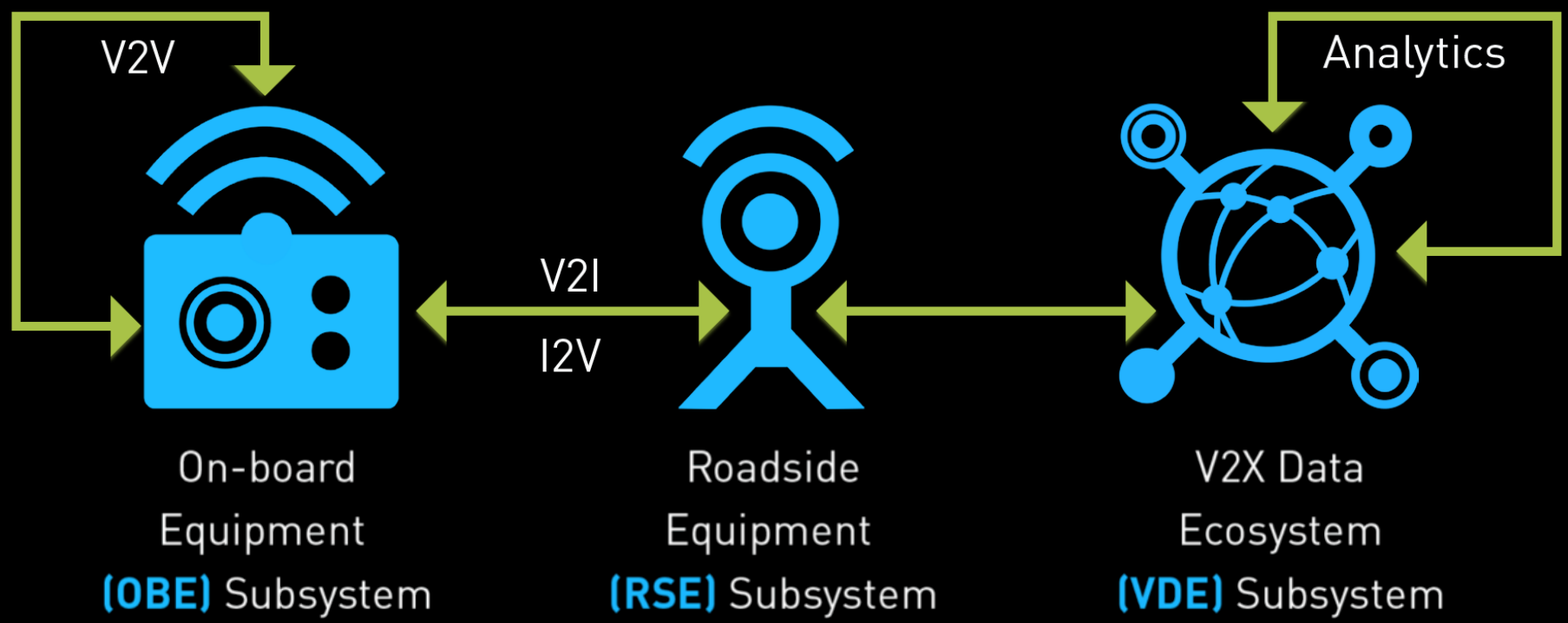
Panasonic

Today's cars have a lot to say ...



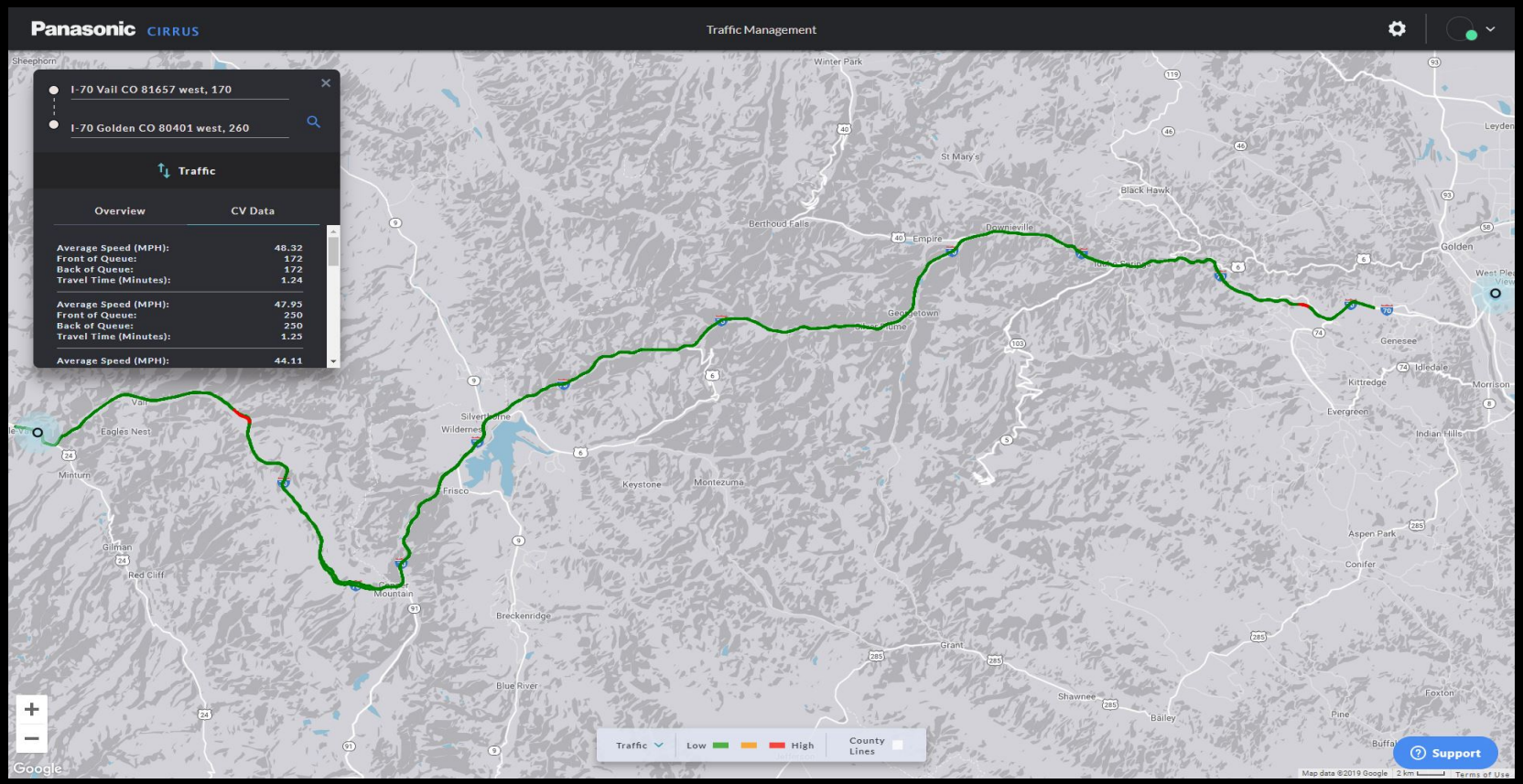
Panasonic

V2X System



Panasonic

V2X Data Use Case: Vehicle Queue Visualization



Panasonic