State of the Practice
for
Connected Intersections

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Connected Intersections

NOTRAFFIC

Messages exchanged between signals and road users using V2X

Direct

Edge

Cloud

NOTRAFFIC

April 2023

C-V2X Waiver

National V2X Deployment Plan

Connected & Automated Vehicle Adoption

2023

Transition Period

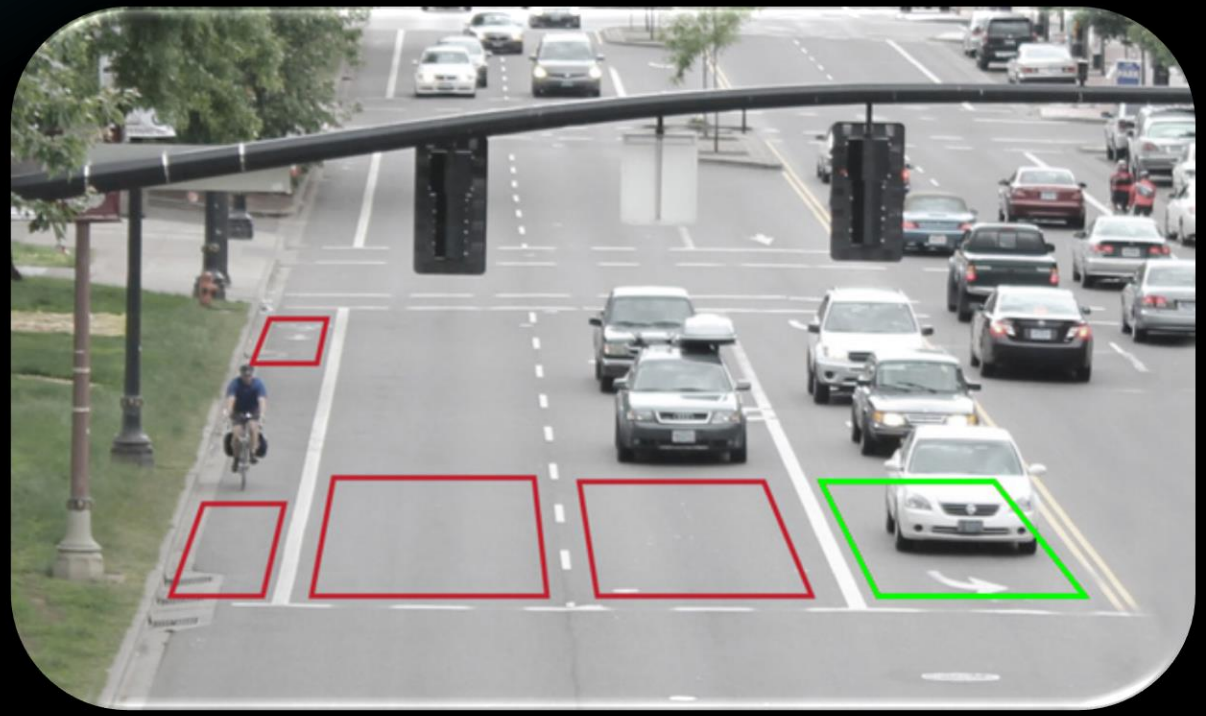
2040?
2045?
2050?

Near Term

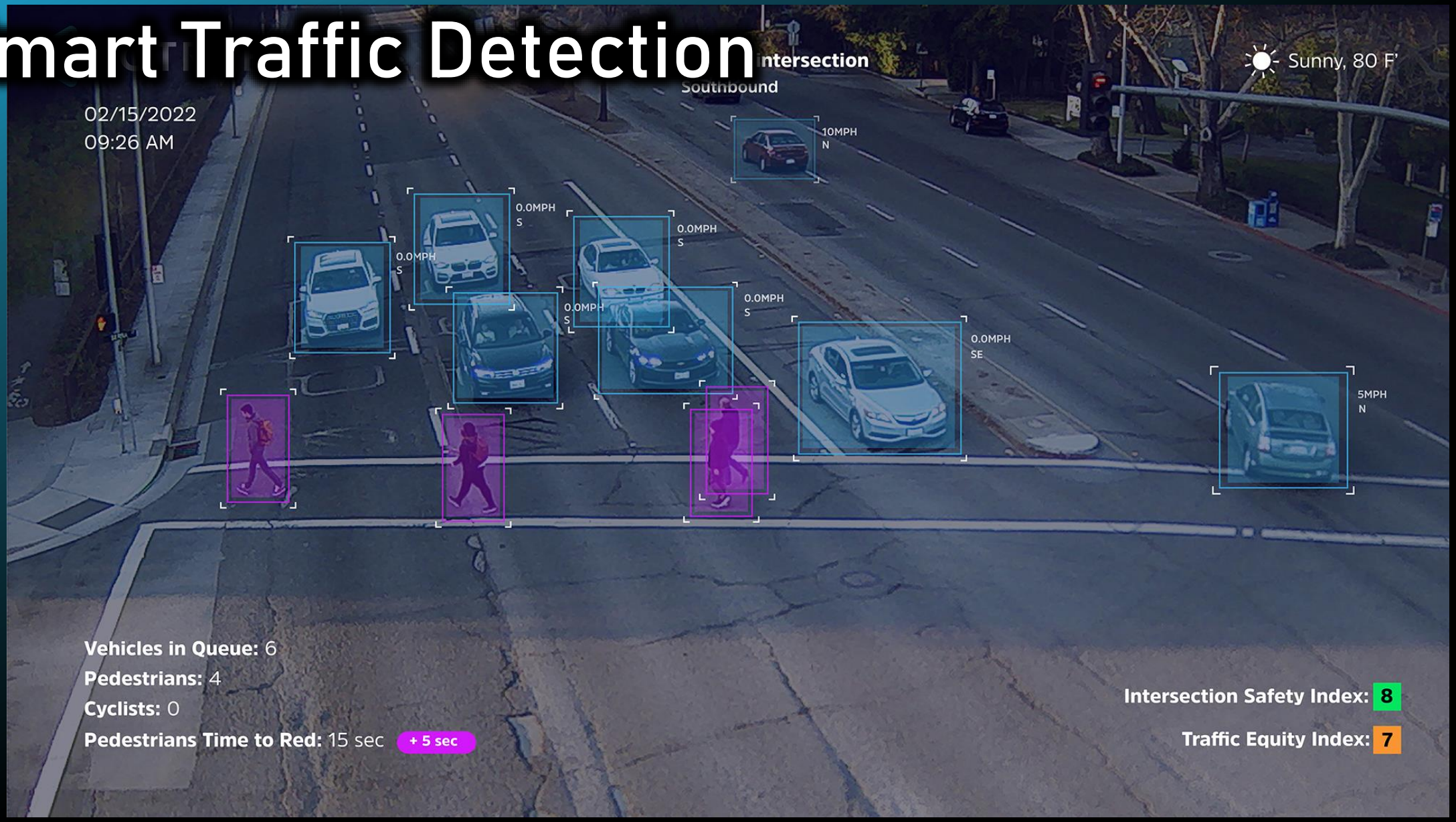
Mid Term

Long Term

Existing Traffic Detection

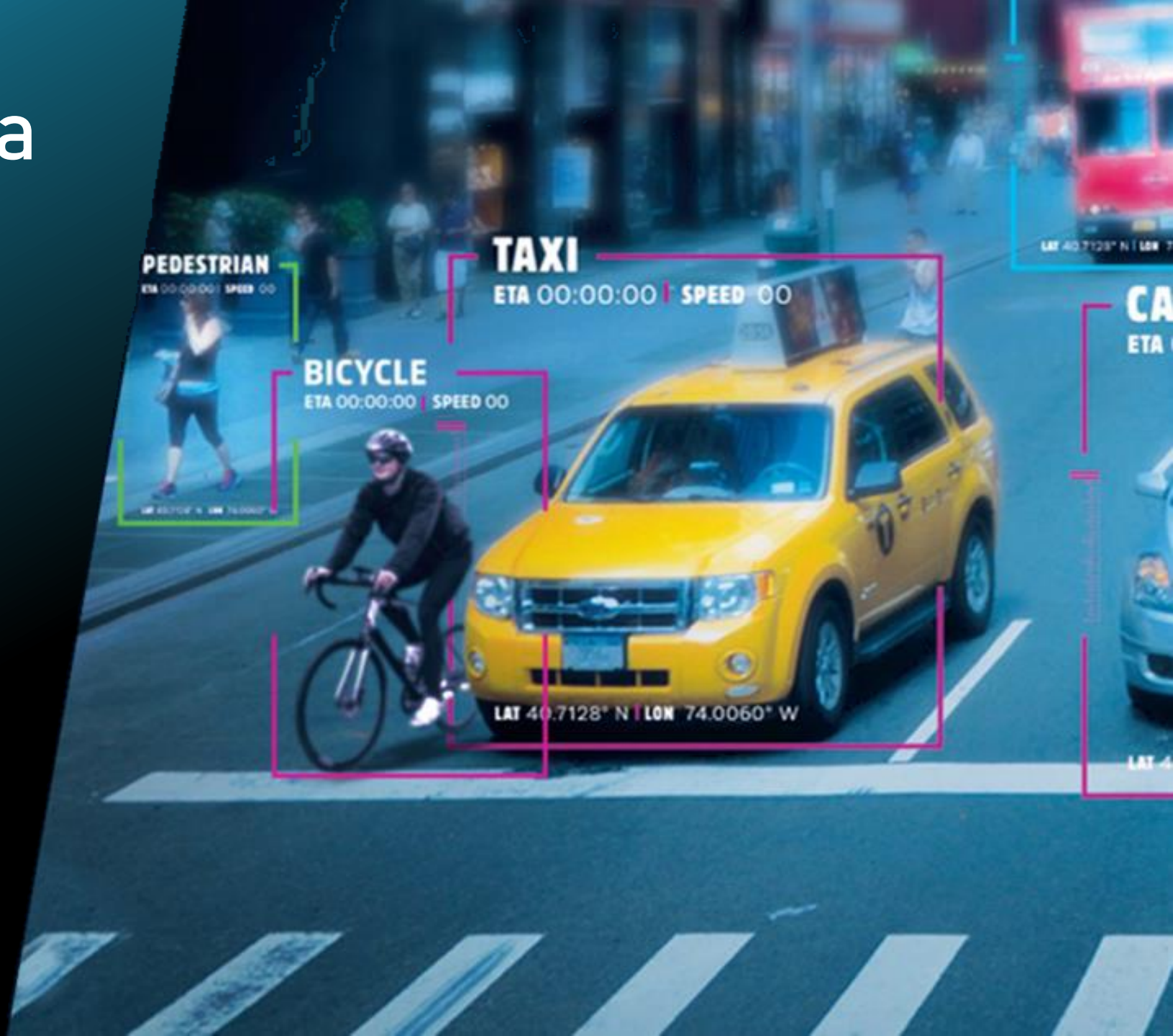


Smart Traffic Detection

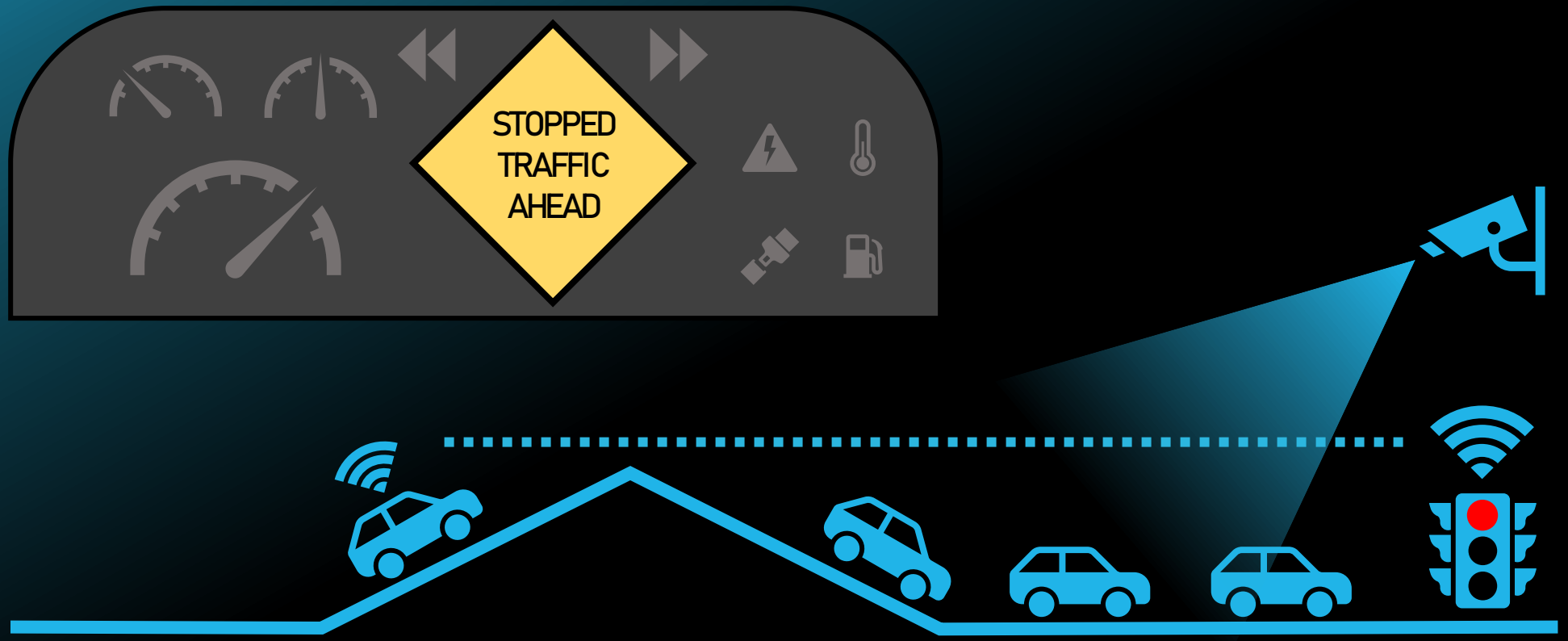


Per Vehicle Data

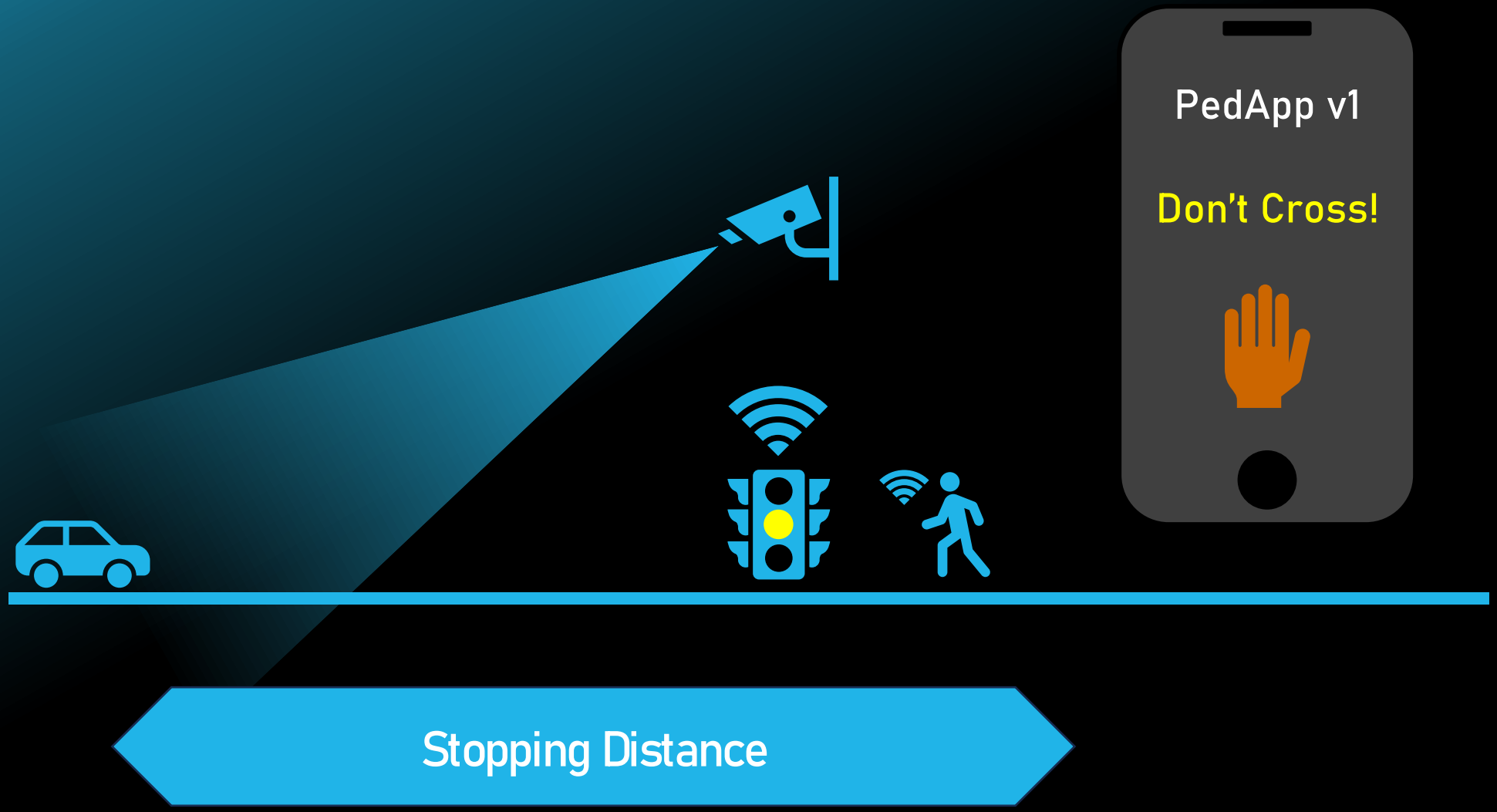
- Location
- Speed
- Heading
- Type



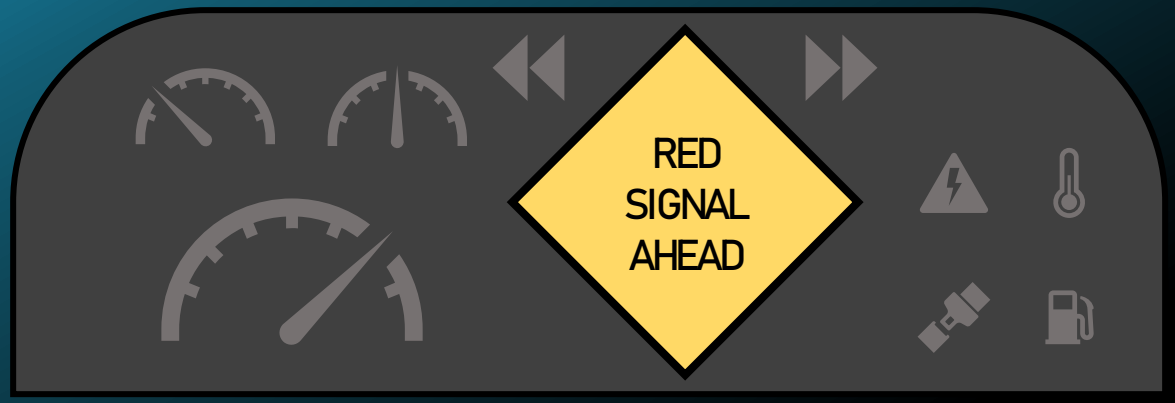
Queued Traffic Warning (CAV Mix)

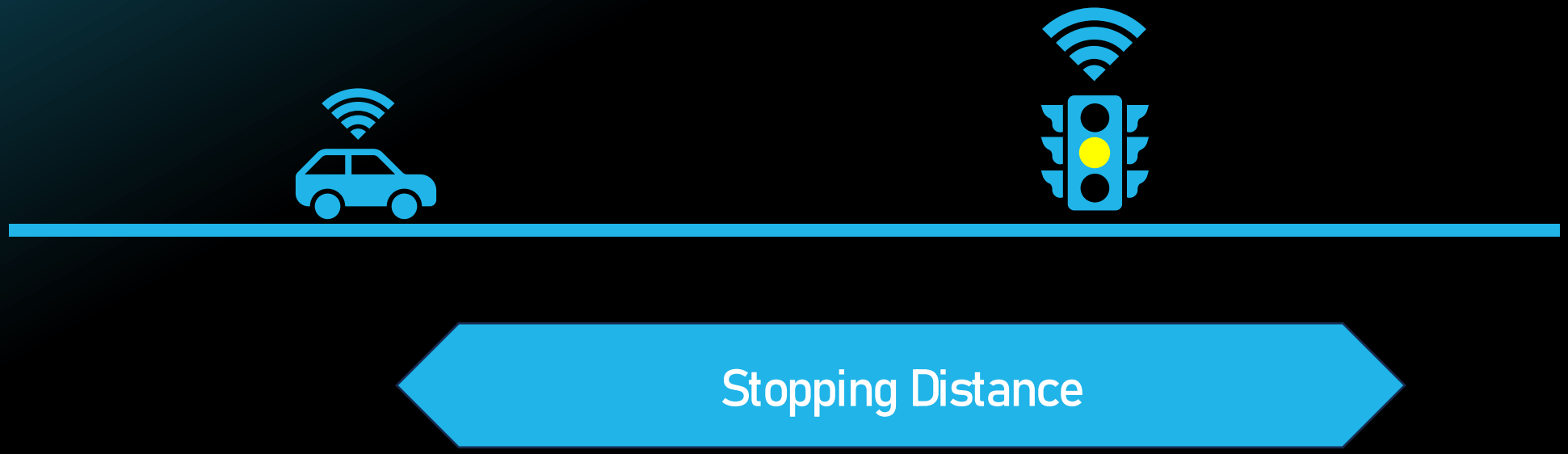


Red Light Running Warning (Non-CAV)

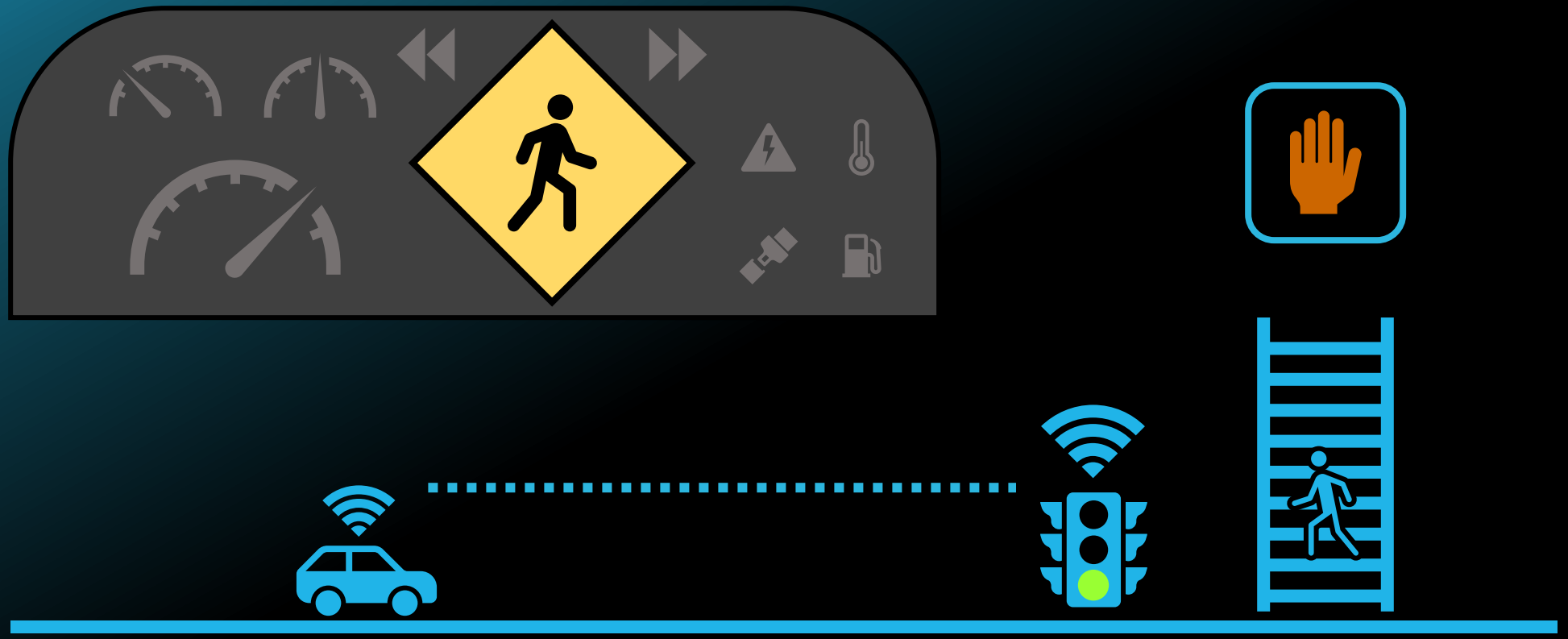
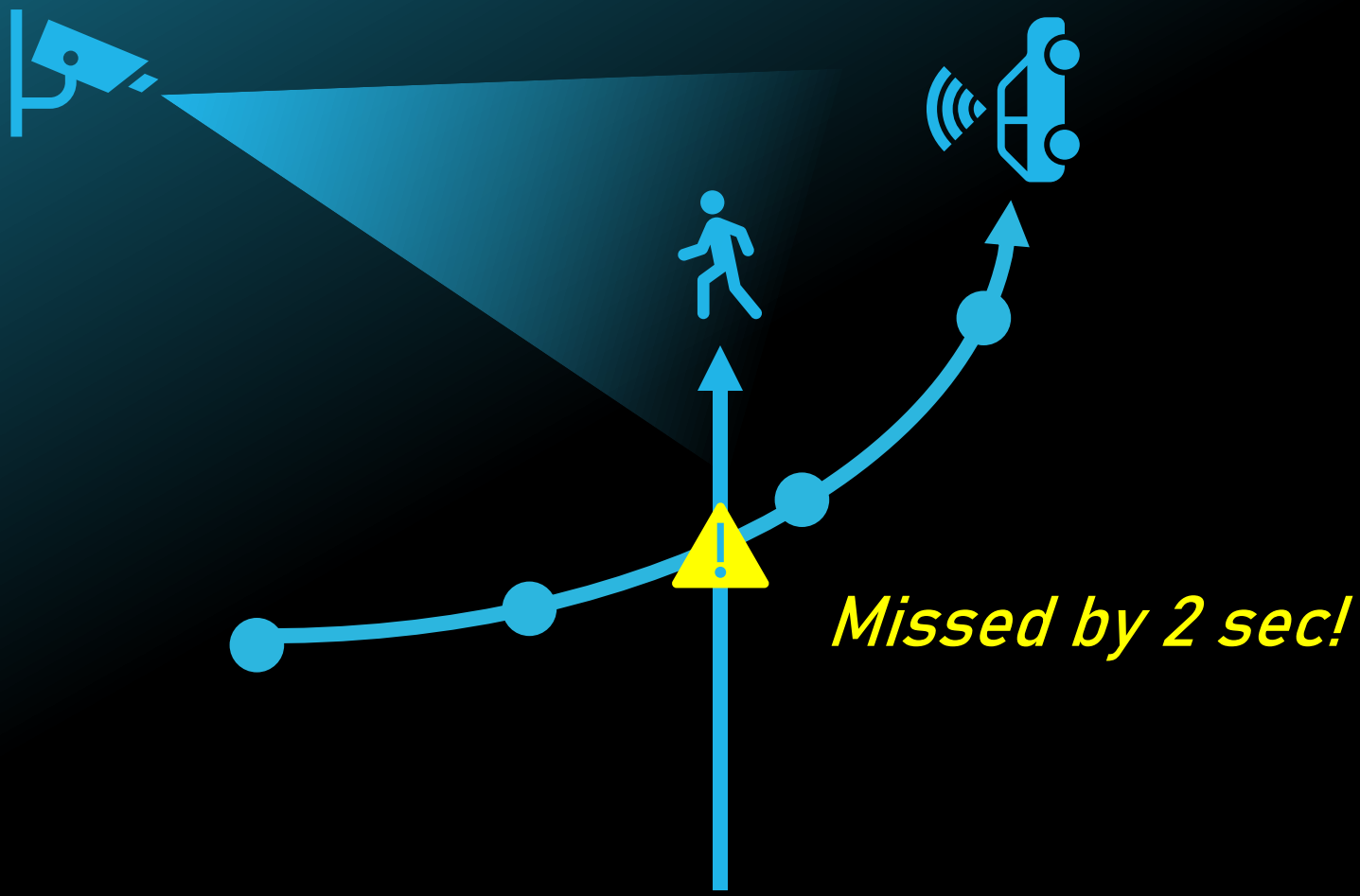


Red Light Running Warning (CAV)





Pedestrian Warning (CAV Mix)



Near Miss History (CAV Mix)