



**Automotive and Autonomous
Product Group**

Kirk Neibert

5G can help drive transformation in the automotive industry

ELECTRIC

SOFTWARE

AUTONOMOUS



5G can help drive transformation in the automotive industry

ELECTRIC

SOFTWARE

AUTONOMOUS

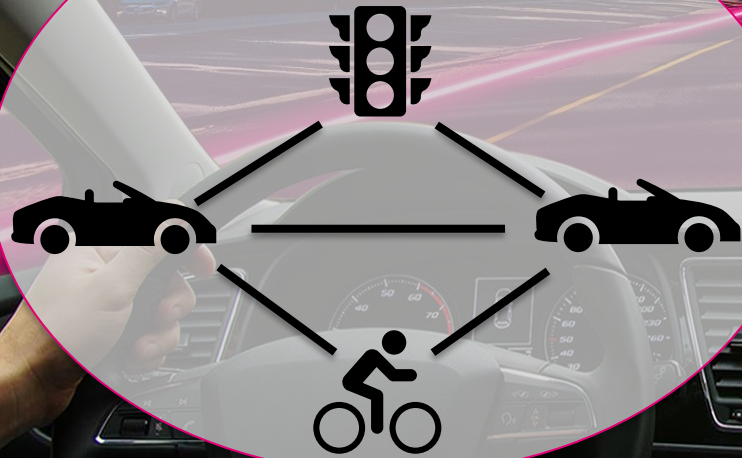
SAFETY



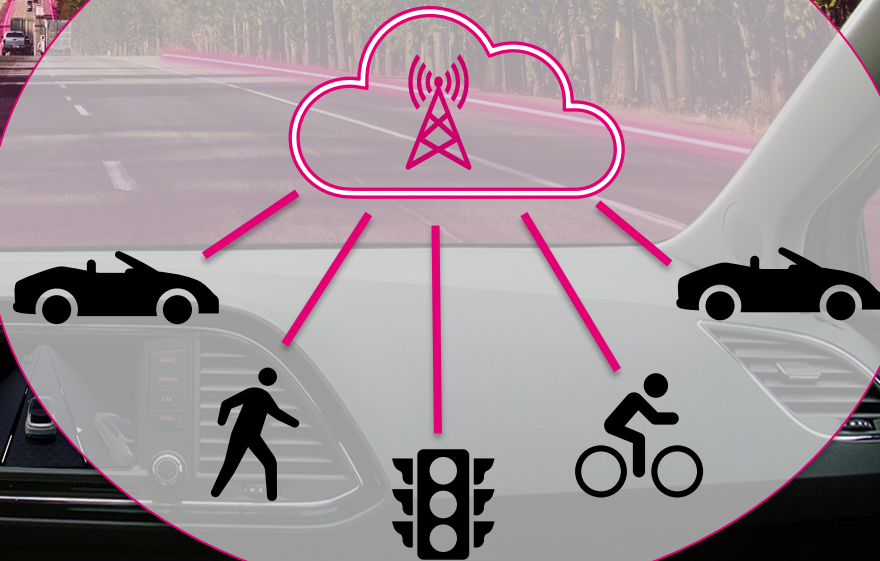
C-V2X solutions can deliver demonstrable safety benefits



Direct V2X- ITS



Network V2X - 5G



Vulnerable road user detection



Purpose-built bicycle solution



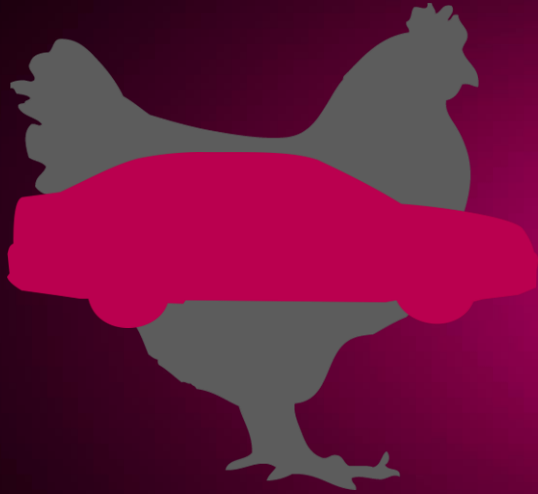
Do not pass warning



First responder prioritization

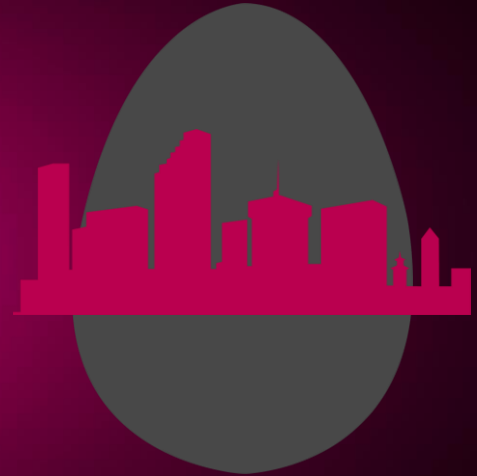


Barriers to broader adoption



- Regulatory
- Business case

*C-V2X is a
cooperative technology*



- Technology
- Critical mass

A safe systems approach to protecting vulnerable road users



A safe systems approach to protecting vulnerable road users



Safe People



Safe Vehicles



Safe Speeds



Safe Roads

Slow speed zone

School zone beacon

Hold signal for pedestrian

Mid block crosswalk

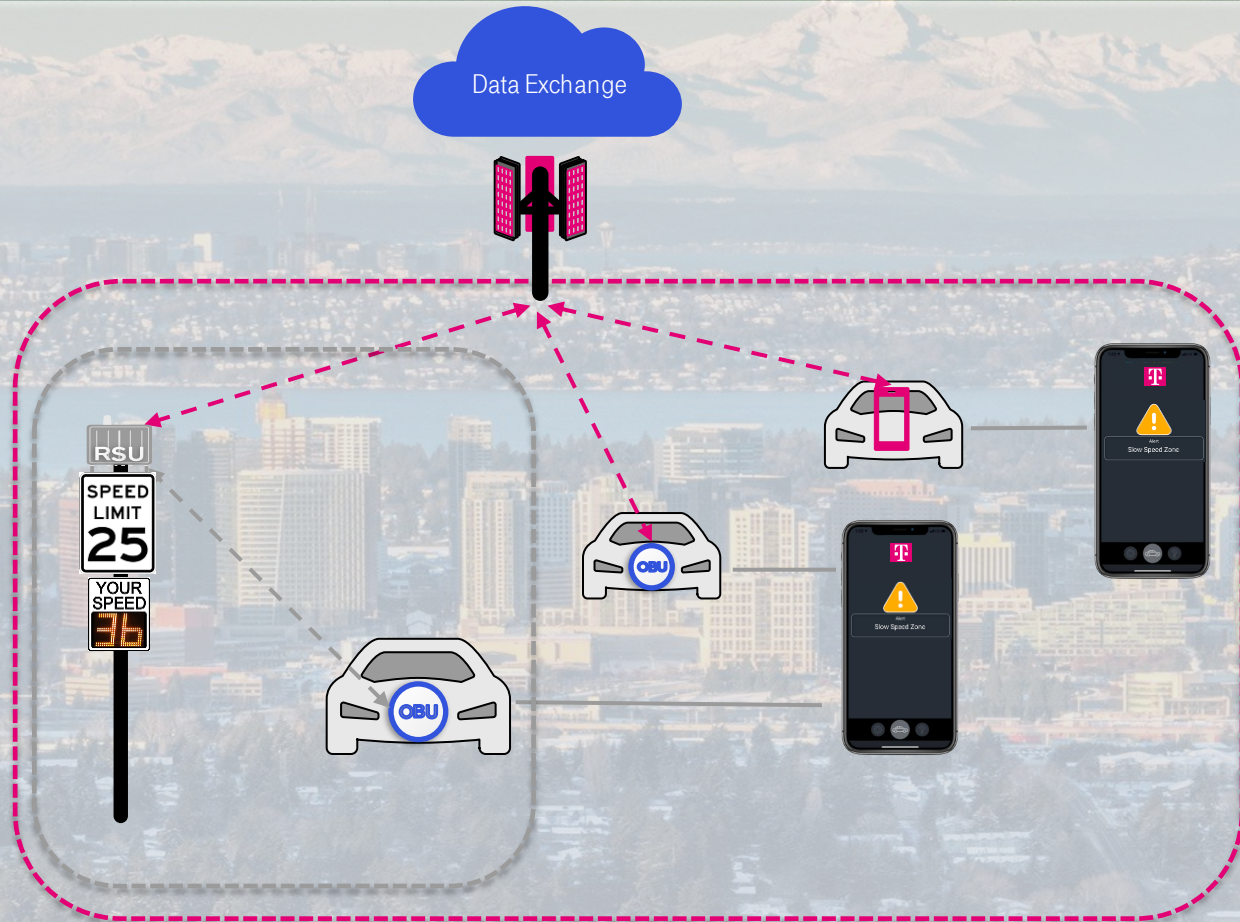
A safe systems approach to protecting vulnerable road users

Slow speed zone

School zone beacon

Hold signal for pedestrian

Mid block crosswalk



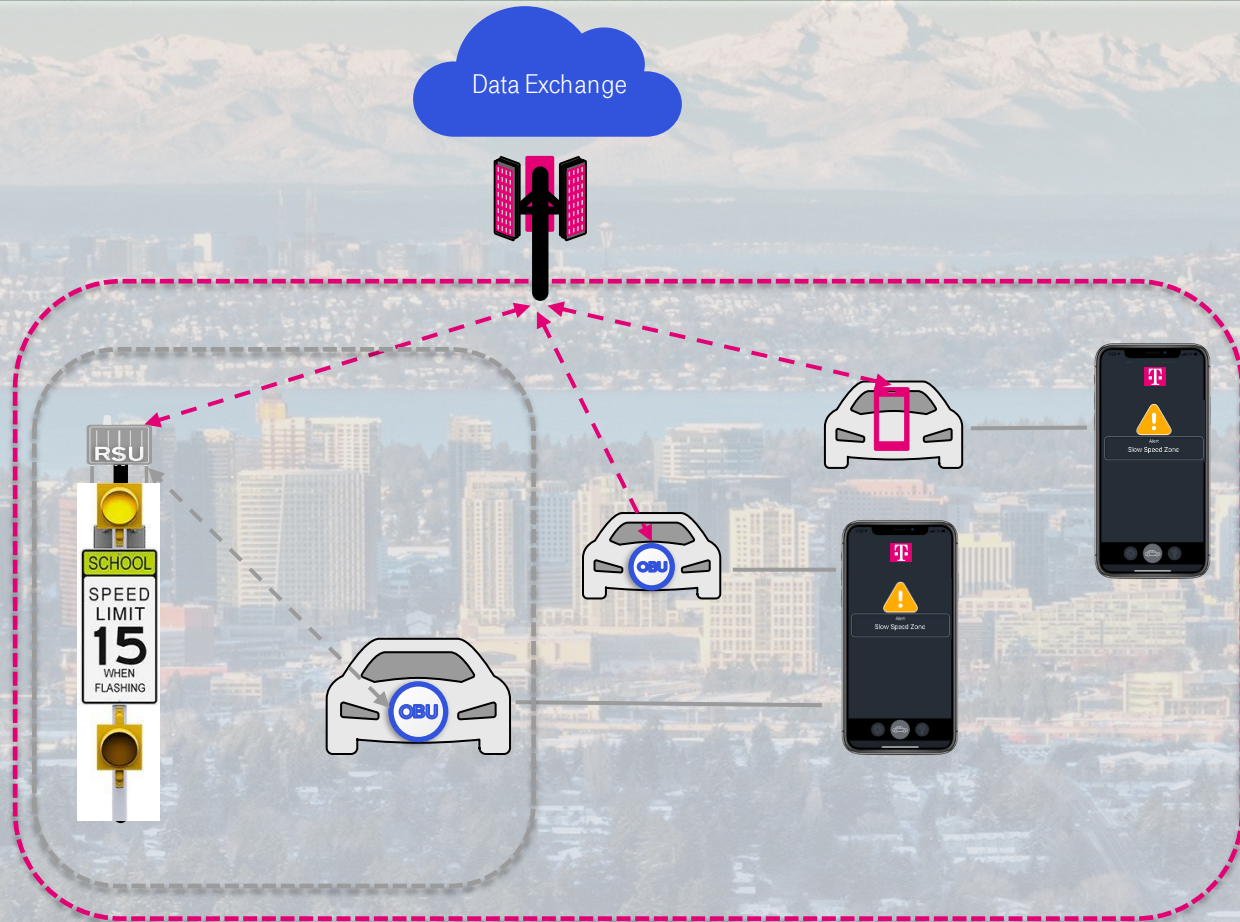
A safe systems approach to protecting vulnerable road users

Slow speed zone

School zone beacon

Hold signal for pedestrian

Mid block crosswalk



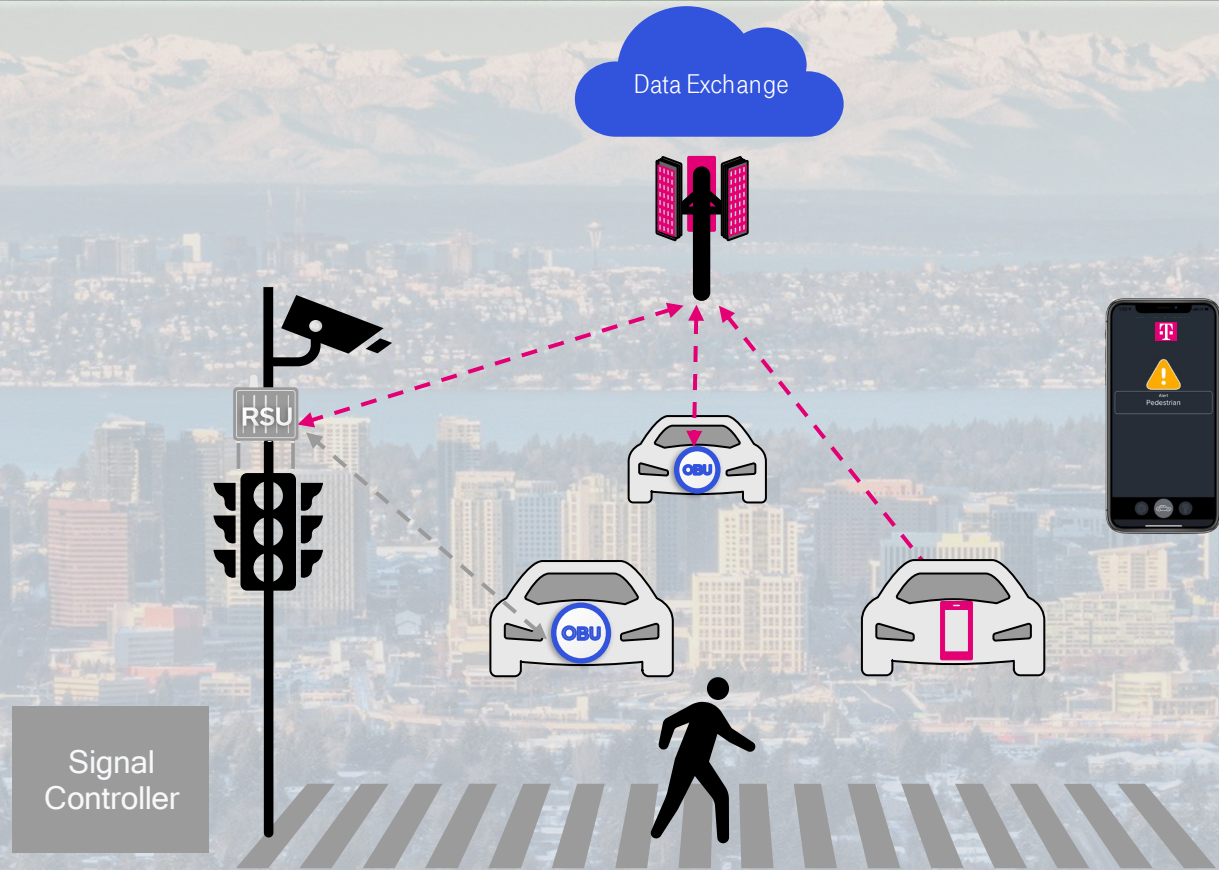
A safe systems approach to protecting vulnerable road users

Slow speed zone

School zone beacon

Hold signal for pedestrian

Mid block crosswalk



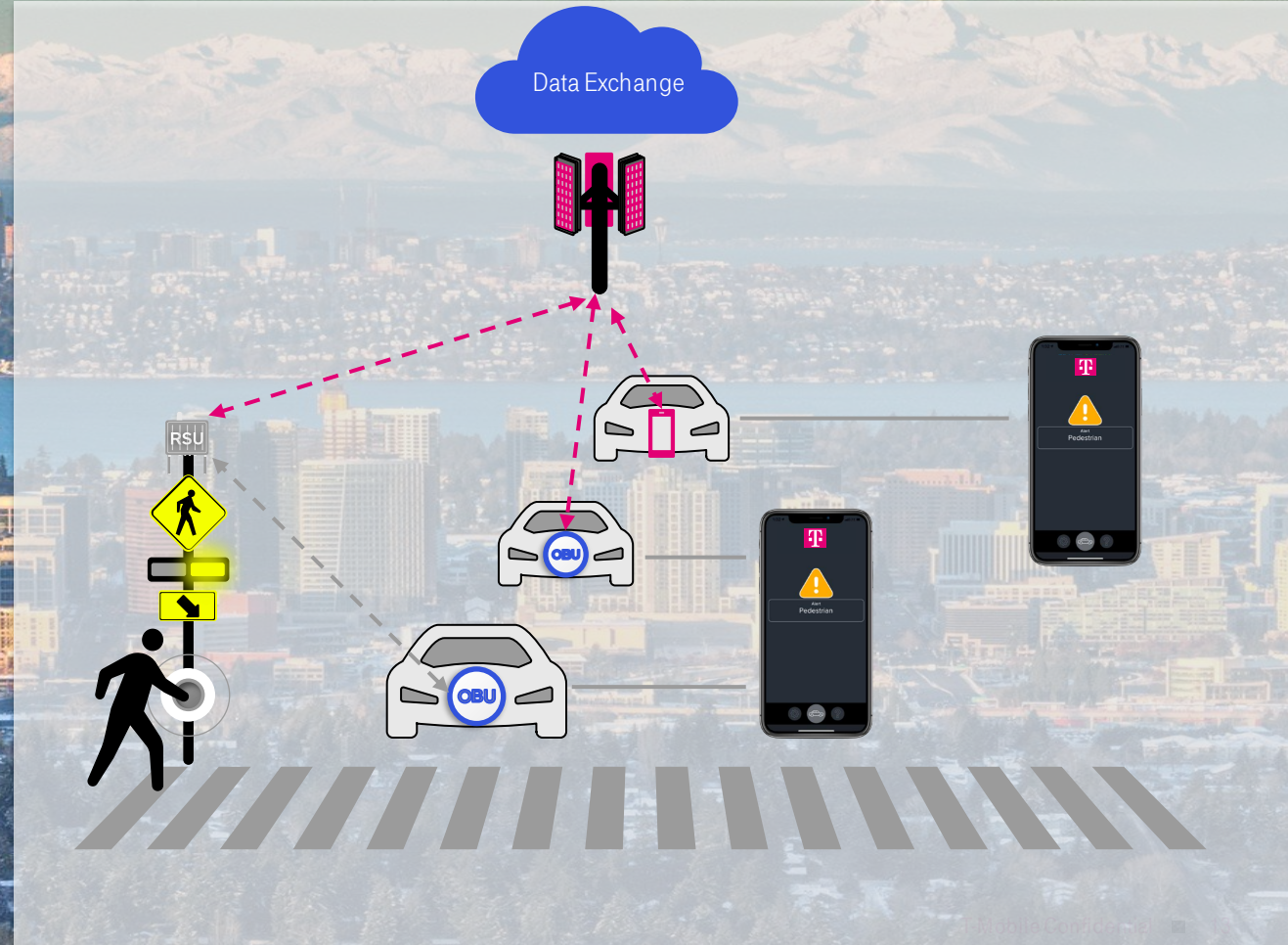
A safe systems approach to protecting vulnerable road users

Slow speed zone

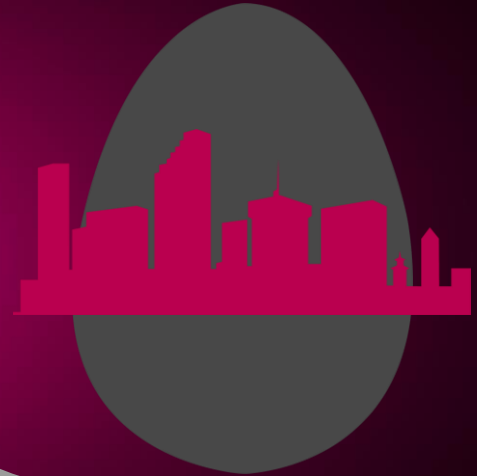
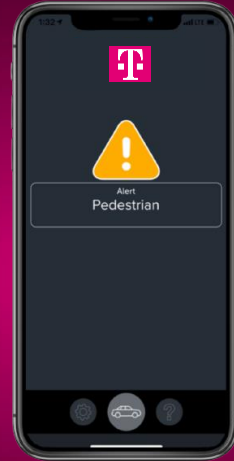
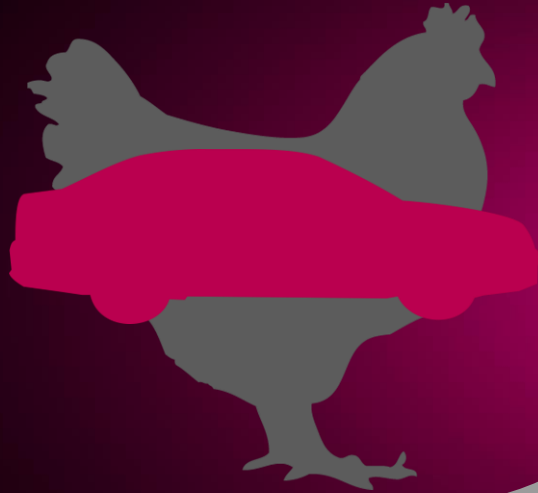
School zone beacon

Hold signal for pedestrian

Mid block crosswalk



Smartphone app as a bridge to advance the ecosystem





Thank You

Kirk.Neibert@T-mobile.com