You know us for our consumer products...
But we’ve evolved ...
Macro technology trends

Connectivity
Why does all of this matter?

U.S. Motor Vehicle Traffic Deaths

2014 2015 2016 2017

31,000 32,000 33,000 34,000 35,000 36,000 37,000 38,000 39,000 40,000 41,000

SOURCES: NHSTA and National Safety Council
Today’s cars have a lot to say ...

- Lane departure system
- Temperature/light sensor
- Front object CCD camera
- Windshield wiper set
- Pedestrian warning
- Airbag sensors
- Infotainment System
- Front object laser radar
- Nighttime pedestrian warning IR sensor
- Road friction sensor
- Tire pressure sensor
- GPS/Telematics
- Side curtain sensor
- Rear camera
- Blind spot detection
- Cross traffic alert
- Rear object laser radar
- Wheel speed sensor
- Central computer
- Collision sensor
- Side airbag SRS
- Steering angle sensor
- Adaptive cruise control
- Traction control system
- Wheel speed sensor
Connected Vehicles

I-70 Mountain Corridor (90 miles)
- 82 million messages per hour
- 23 Gb per hour

All of I-70 in Colorado
- 270 million messages per hour
- 76 Gb per hour

Statewide Deployment
- 2.12 billion messages per hour
- 592 Gb per hour
Prevent 80% of non-impaired crashes
Save up to 21,500 lives*
Save thousands of additional lives through faster emergency response

Improve freeway travel times by 42%
Improve arterial travel times by 27%
Reduce poor weather incidents by 25%

Improve fuel savings by 22%
Reduce VMT by 20%
Improve freeway travel times by 42%

*extrapolated from 2017 traffic fatalities statistics
Current deployment in Colorado

90 mile stretch of I-70
From Golden, CO to Vail, CO
I-70 Field Deployment Overview

Project delivery model
Field inventory
Optimization
Engineering
Permitting
FCC licensing
Construction
Integration and testing
Why the I-70 Mountain Corridor?
Corridor Optimization

Benefit
- Maintenance Cost Reduction
- Traffic Optimization
- Annual Crash Cost Reduction

Cost
- Power
- Fiber
- New Pole
I-70 Mountain Corridor V2X Deployment
On-Board Units
On-Board Units
Roadside Units
Roadside Units
Coverage Test Run Results
Corridor Roadside Equipment Deployment
Thank you

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