Wireless and Smart Mobility

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Major city initiatives

- Sustainability and efficiency
- Public safety and security
- Citizen experiences
5G is essential for next generation mobile experiences

- Mobile data user used 9.6 trillion MBs of data in 2015
  - Up 35X since 2010

- High Data Speeds
  - 10-100X faster

- Responsiveness of Network
  - 4G requires 200ms (average)
  - 5G will be less than 1ms

- Massive capacity

- Multipurpose network
  - Embedding sensors into the road versus CAV

- In order to keep up with demand, providers must densify existing networks and deploy 5G
  - Small Cells
What is Verizon doing to prepare for CAV?

- Intelligent Lighting
- Intelligent Video
- Intelligent Traffic
- Intelligent Parking
- Traffic Data Services
- Intersection Safety Analytics
Traffic Data Services

• Live traffic using cellular location data
• Congestion mitigation
  • State, City, Corridor
• Accurate location, travel direction and speed
Intersection Safety Analytics

• Analyze and measure traffic patterns among motorists, pedestrians and cyclists
• Real time reporting on safety of city’s roadways
• Historical data/trends
• Move from reactive to proactive