



REAL WORLD VALIDATION

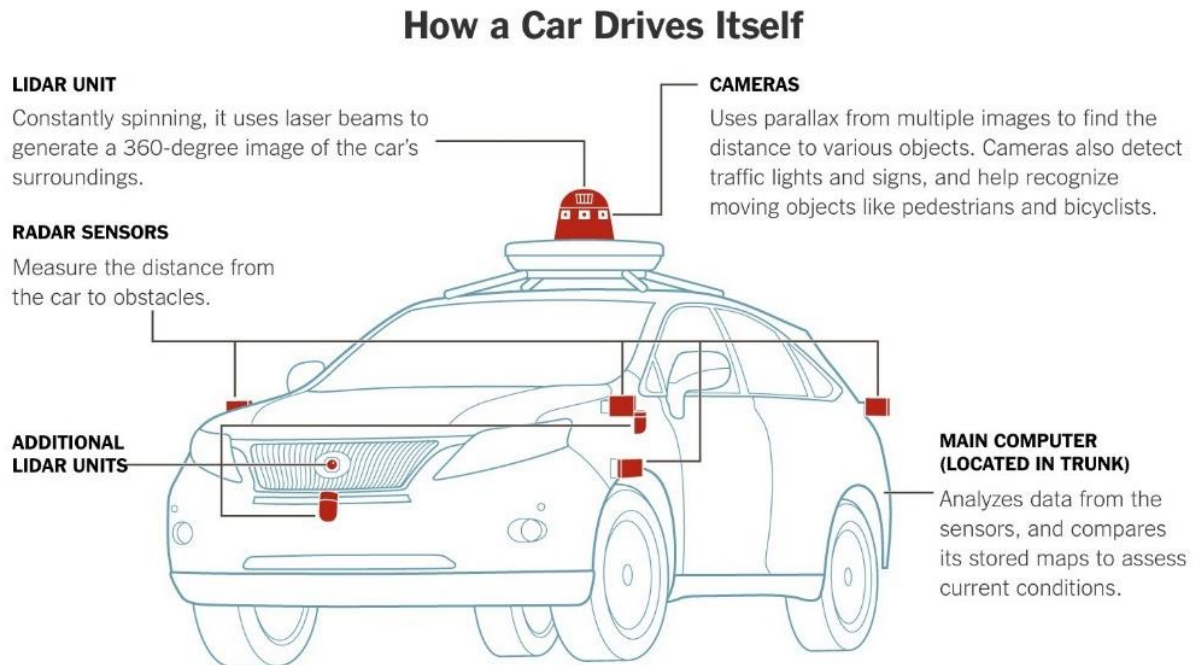
San Diego Regional Autonomous Vehicle Proving Ground

City of Chula Vista
City Council Meeting
June 13, 2017



US DOT Objectives for Proving Grounds

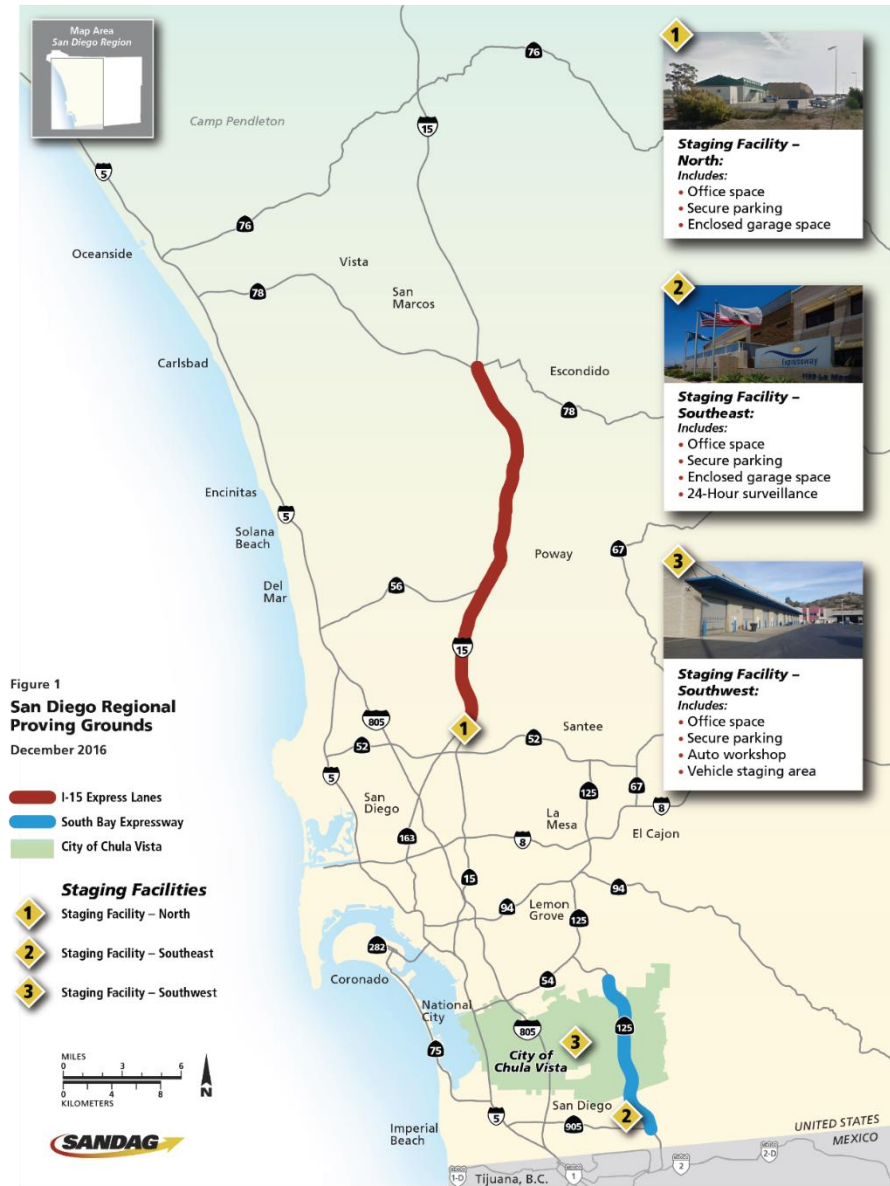
- Accelerate safe deployment of AV technologies
 - Public safety, improved mobility, disadvantaged populations
 - Share best practices for safe testing and deployment
- Research and data sharing
- Public outreach and education



By Guilbert Gates | Source: Google | Note: Car is a Lexus model modified by Google.

Purpose

- Facilitate testing and validation of connected and autonomous vehicle technologies while ensuring public safety and security
- Inform public policy and long-range planning that guides deployment in support of the region's goals for mobility, sustainability, equity, and economic prosperity



Overview of Work Program

- ✓ Stakeholder outreach and partnership development
- ✓ Needs assessment
- ✓ Operating strategy and engagement model
- ✓ USDOT and community of practice coordination
- ✓ DMV coordination
- Execute agreements (USDOT/partners)
- Communications and public outreach plan
- Facilitate deployment of supporting technologies
- Safety management plans
- Facilities ready for testing in January 2018

Industry Outreach to Date

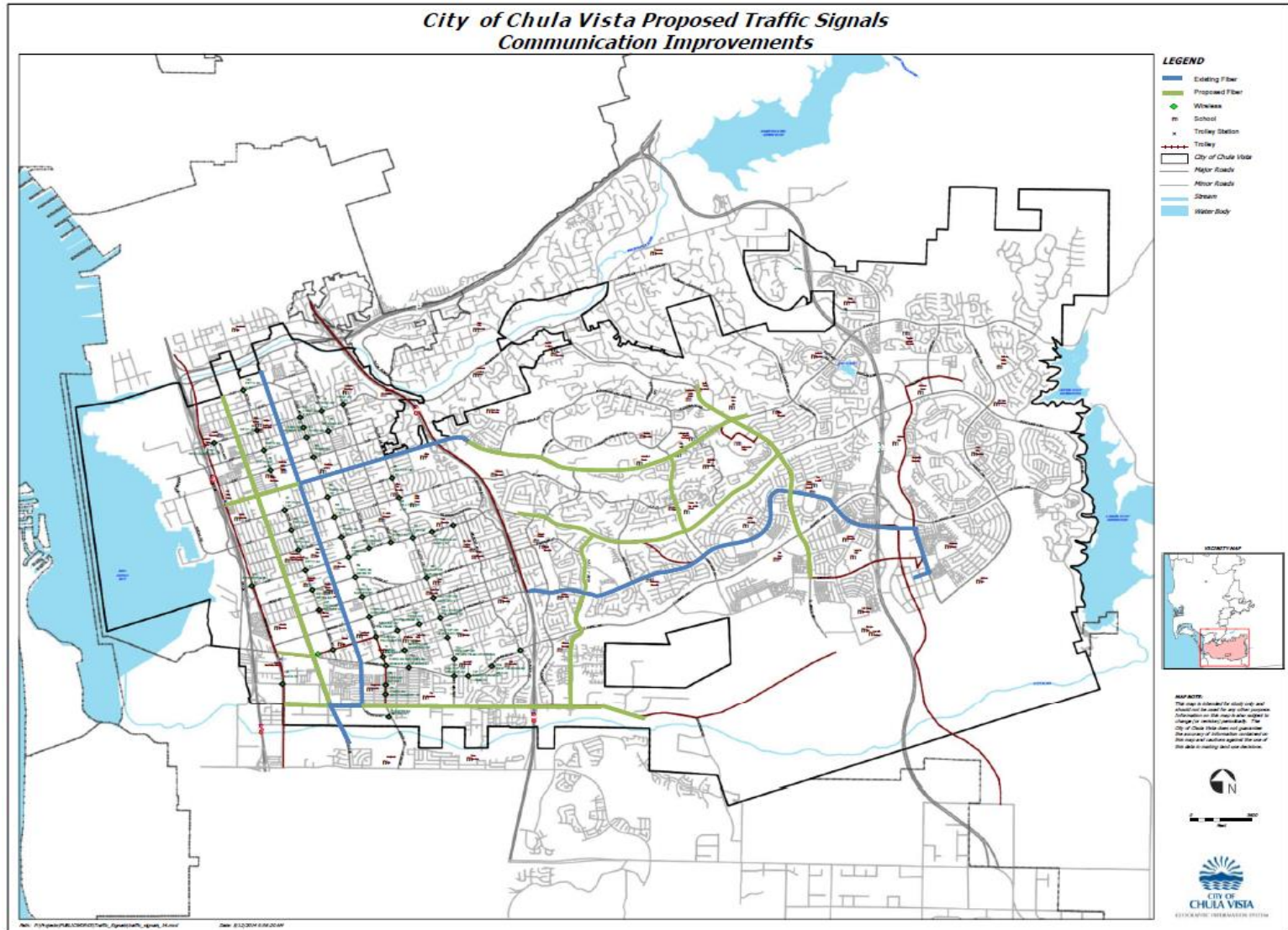
- Meetings held with more than 20 potential affiliates and academic institutes
- Database of 55 companies being interviewed
 - Wireless, technology, automotive, suppliers
 - Market research to be completed by June 30, 2017

Feedback Received from Industry

- Testing in a real world environment is attractive
- Technology companies with a presence in Southern California are most likely to participate
 - These companies have established relationships with the auto manufacturers
- Opportunities for strategic partnerships among affiliates is valuable

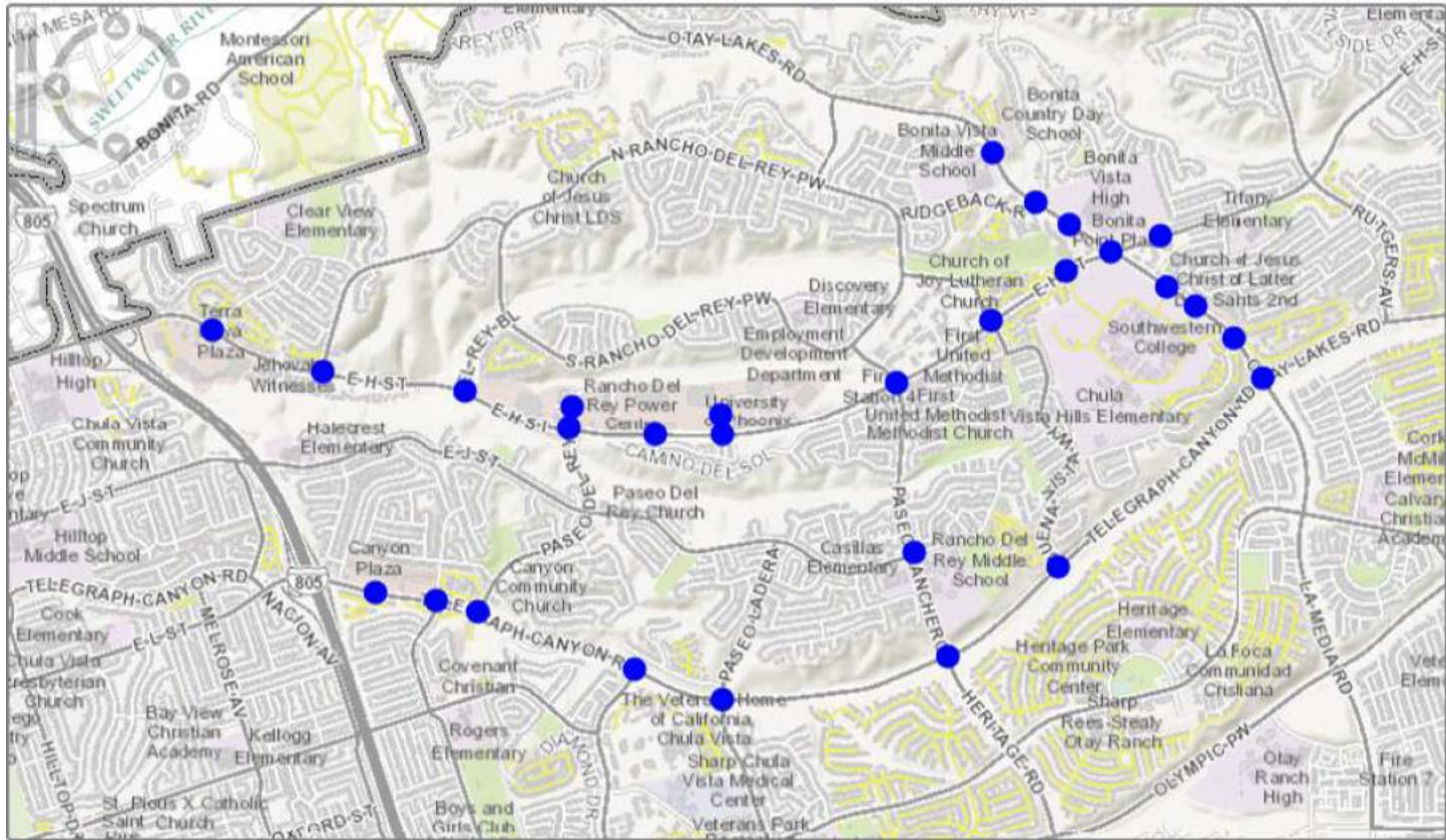
**Other “High-Tech”
Transportation Projects
in Chula Vista**

Traffic Signal Communications Master Plan



Adaptive Traffic Control System Upgrade & Expansion

- East H St, Otay Lakes Rd, Paseo Ranchero, & Telegraph Canyon Rd



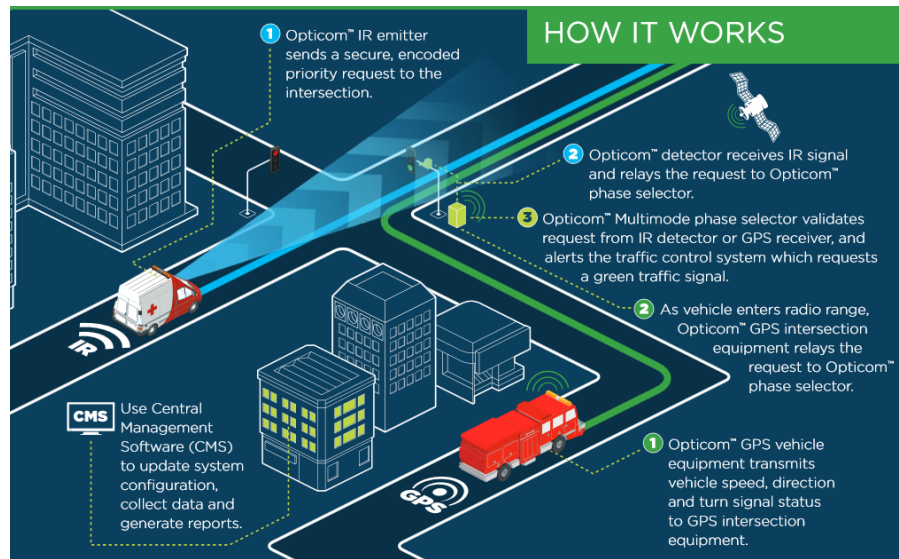
USDOT Grant Opportunity

- Complete Traffic Signal Network Connectivity
- Citywide Upgrade to Advanced Transportation Controllers (ATC)
 - Automated Traffic Signal Performance Measurement System
- Adaptive Traffic Signal System Expansion

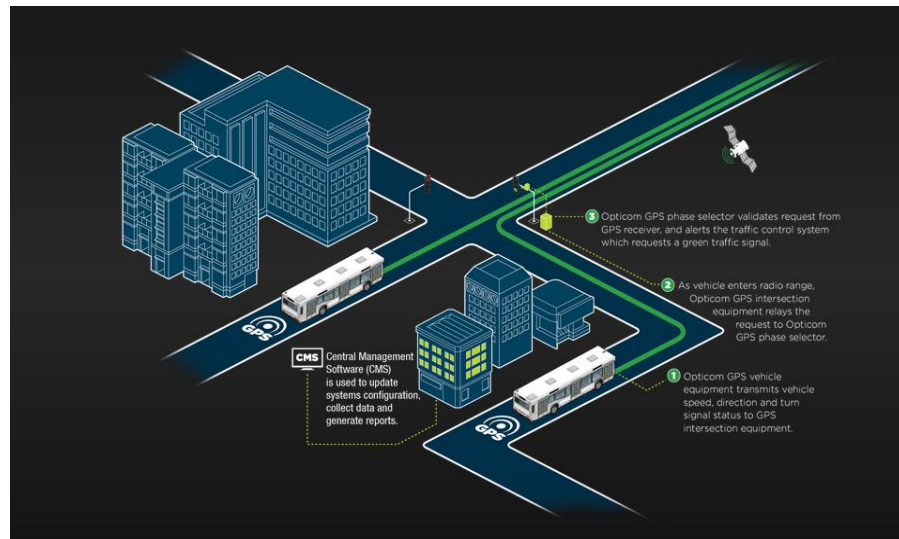


USDOT Grant Opportunity (Cont.)

- GPS-enabled Fire Response System



- GPS-enabled Transit Signal Priority System



USDOT Grant Opportunity (Cont.)

- Smart Corridor

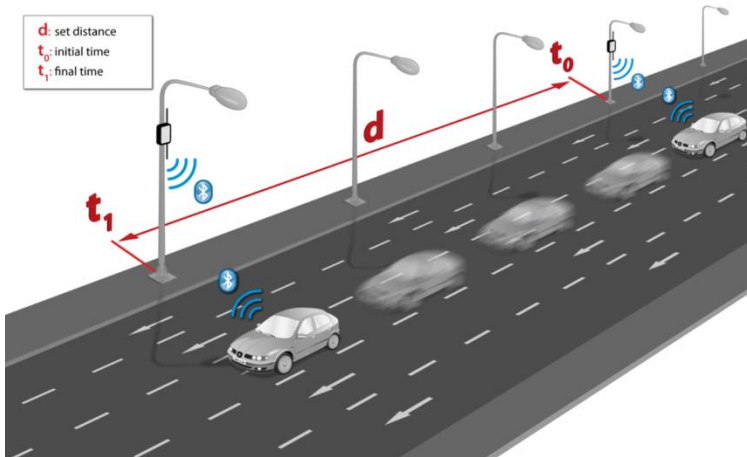


- Intelligent Street Light System Demo/Pilot



USDOT Grant Opportunity (Cont.)

- Traffic Monitoring System
 - Travel time (Wi-Fi or Bluetooth) sensors and CCTV cameras



- Muni Wi-Fi at Strategic Locations using Traffic Signals, Bus Stops, and Street Lights as “Hot Spots”





QUESTIONS?