What is smart mobility?

It’s Connected

It’s Autonomous

It’s Shared

It’s Electric
Sacramento, CA
Folsom Boulevard and 65th Street
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https://www.sacog.org

Thank You!

rporter@sacog.org
City of Rancho Cordova
 Autonomous Shuttle Project
 Summary
Why is the City a Candidate?

• Biggest Employment Sub center
• 50,000 jobs
• Manufacturing, Healthcare, Engineering, Technology
• 45,000 Commute trips
• Mix of Old & new areas
• Divided by a Freeway
• Light Rail Line parallel to the Freeway
• Diverse/Disadvantaged Community
What has the City done?

- Cordovan Service in new development
- Access to LRT & Bus stops
- Van Pools With US 50 TMA
- Bike & Pedestrian Friendly Programs
- Assistance to RT for cleanup & Maintenance
Why is the City Ready?

- City Invested $6 M in ITS Updates/Infrastructure
- Encouragement from Council
- Interest in new mobility options
- Bike & Pedestrian Friendly Programs
- Momentum from Civic lab
- Part of Regional Initiatives/Interest
Goals for the City

• Relieve Congestion
• Utilize New Infrastructure
• Encourage Mode Shift
• Improve Level of Service
• Pioneer New Technology
• Test Efficiency of Autonomous Shuttles
• Explore New Options For Residents/Employees
Steps taken so far

• Talked to Vendors
• Participated in Civic Lab
• Explored Routes
• Discussions on a Pilot Study
• Applied for Funds
• Testing few Last Mile/First Mile Options
Current State of Technology

- Completely Autonomous
  - No driver, guided by multiple sensors (LIDAR, Radar, GPS, etc.)
- All Electric
- Operates on a fixed route
- 12-15 MPH speeds
- Up to 12 people on board
Current Deployments

• Arlington, TX
  – Shuttles between Public Transit station and Stadium, operates on bike path.

• Las Vegas, NV
  – Operating in regular traffic from downtown to entertainment district

• Ann Arbor, MI
  – University of Michigan on campus shuttle

• Gainseville, FL
  – Connecting downtown to University

• San Ramon, CA
  – Shuttling employees in Office Park to BART
Advantages/Disadvantages

Safety
- Over 34,000 people die every year from traffic collisions, and estimated 90% would be eliminated with autonomous vehicles.

Traffic
- Higher speeds, increased capacity, reduces congestion, better shared roads.

Costs
- Car ownership would be reduced, ride sharing would increase.

Jobs
- Mass unemployment. Truck drivers, delivery drivers, auto insurance, taxi drivers,

Urban Sprawl
- Low stress, high productivity travel would promote living farther from work.

Privacy
- Shuttle location tracked by GPS.
What is Rancho Cordova doing?

- Familiarizing itself with manufactures.
- Determining legislative hurdles.
- Estimating Costs
- Brainstorming potential test loops.
Challenges for Implementation

- Autonomous Shuttle Limitations
- State DMV Regulations
- Funding Challenges
- Rapidly Changing Technology
- ADA Compliance
- Safety concerns about Driverless Technology
What the future holds

• Technology will continue to move faster than legislation can handle.

• Role of liability?

• Role of Insurance companies/Regulation/Individuals

• Autonomous ride hailing services

• Priority lanes (Carpool/AV lanes)

• Improved Safety

• Wider Acceptance of Autonomous Shuttles
Apple Hill Area Map
Bring Shuttle Service Back to Apple Hill
FREE Apple Farms Shuttle - 2018
Weekends October 6th - 28th / 9 am - 4 pm / Approximately Every 15-20 Minutes

LEGEND
- Shuttle Stop
- Route Direction
- Parking Site

EL DORADO TRANSIT

SHUTTLE STOP LOCATIONS
1. High Hill Ranch / Fudge Factory Farm
2. Rucksack Cellars
3. Boa Vista Orchards
4. Goldbud Farms
5. Abel’s Apple Acres
6. Lava Cap Winery
7. El Dorado Orchards
8. Delfino Farms
10. Larsen Apple Barn (Sundays Only)
11. Rainbow Orchards

DIRECTIONS: Free parking at 2796 Larsen Drive, Camino
- From WESTBOUND Hwy 50: Take Camino Exit 54. Turn right from off ramp onto Carson Road and then right onto Larsen Drive. Shuttle parking will be on the left.
- From EASTBOUND Hwy 50: Take Cedar Grove Exit 54. Turn left from off ramp onto Carson Road and then right onto Larsen Drive. Shuttle parking will be on the left.

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