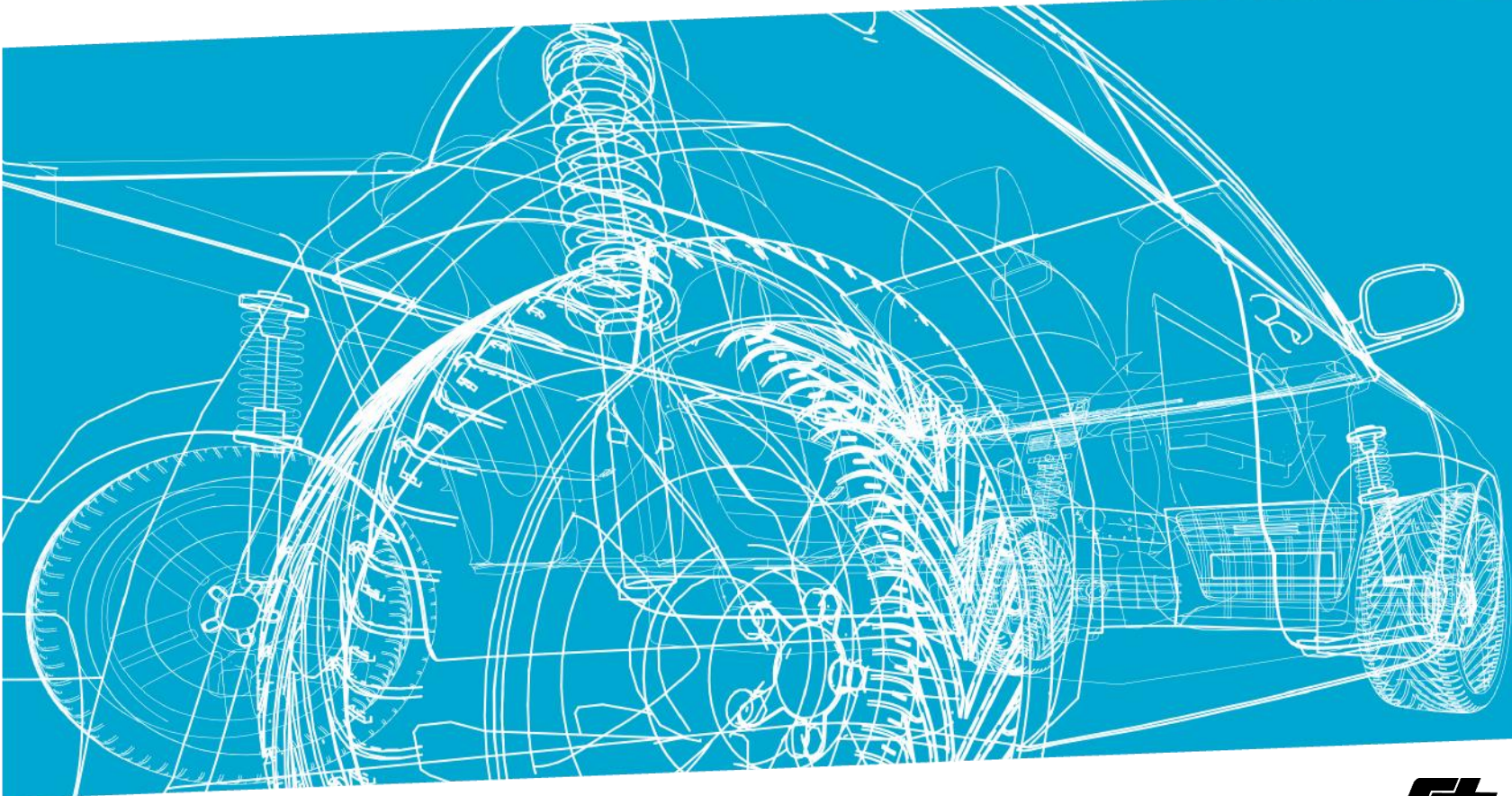


New Mobility and AV's

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Caltrans, District 11
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sandag.org/provingground



San Diego RPG Attributes

- Technology and defense hub
 - 3,270 technology companies
 - 100+ cybersecurity companies
 - Largest concentration of U.S. military in the world
- World-class academic research institutes
 - UC San Diego: Contextual Robotics Institute and Design Lab
 - SDSU: Safety through Disruption (SafeD) University Transportation Center

City of Chula Vista Mobility Hub Partnering Opportunities



Industry Outreach and Region Market Research

- 40+ Companies Interviewed

Auto Manufactures and Suppliers, Wireless, Cybersecurity



- Focus Groups
Main concern - SAFETY

Caltrans SD Short Term CV Demos

- 1. Expanded CMS Message**
- 2. Queue Warning (Q_WARN)**
- 3. Warnings about Upcoming Work Zone (WUWZ)**
- 4. Signal Phase and Timing (SPaT)**
- 5. Basic Safety Message (BSM)**

Safety Management Plan



- The role of government is to protect the public
- Roles of Safety Management:
 - Have a plan to address safety problems
 - List roles and responsibilities in safety-related situations
 - Define action steps, tasks and activities that identify, evaluate, control or eliminate safety-critical events

Safety Management Stakeholders

- California Department of Transportation (Caltrans District 11 San Diego)
- California Highway Patrol (CHP)
- San Diego Association of Governments (SANDAG)
- Cities in San Diego County and local law enforcement
- Transit Agencies
- Technology companies
- California Department of Motor Vehicles (DMV)
- US DOT and Federal Highway Administration (FHWA)

Questionnaire

- Purpose:
 - Identify the impact of CAV testing on the state facility, the general motoring public, and the need for encroachment permit and closures
 - Anticipate and arrange the level of engagement with Law Enforcement, Media, other stakeholders
 - Stimulate the discussion and assist in preparation for the initial meeting
- Opportunities discussed:
 - Testing in real-world environment
 - Testing the interactions with law enforcement and roadway activities
 - Installation of roadside devices

Streamlined Encroachment Permit Process

- Designated CAV Safety Manager
- Assistance in preparation of Encroachment permit application
- Expedited review and comment period
- Umbrella permit with the test specific amendments
- Provisions to cover revenue loss, law enforcement, and other agencies costs

Risk Registry

- Communication, power, cybersecurity glitches
- Public perceptions
- Applicant preparedness
- Rules of the road
- Traffic accidents
- Manufacturer misuse
- Site preparedness

Questions?

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