



Transportation Technology Policy Forum

*California Transportation
Commission*

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RSM Background

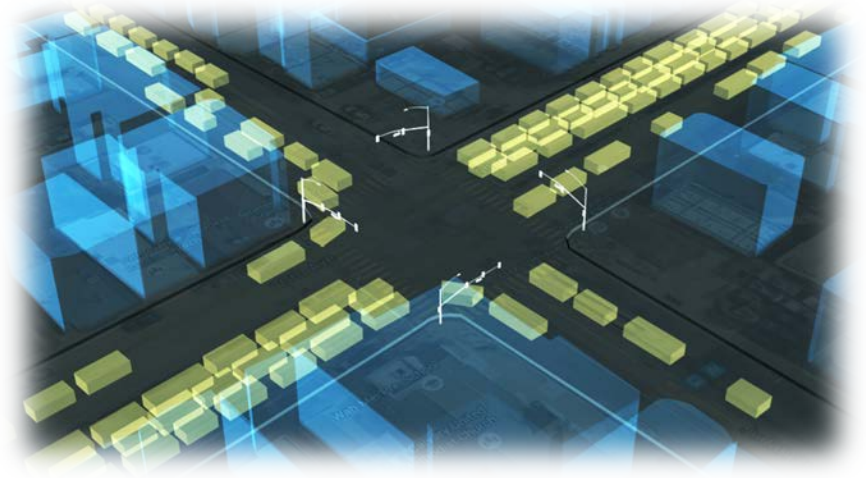
- Simon - computational intelligence platform based on fuzzy logic
 - Designed to manage urban traffic intersections in real-time, live data gathered at the intersection
 - Hardware and data agnostic – leverage many sensors (radar, infrared, etc) and data sources
 - Live, comprehensive simulations of intersection environments and transportation zones
 - Demonstration projects with public sector – provide open access to data and analytics
- Key Uses:
 - Evaluate intersection efficiency – wasted green signals, etc.
 - Transportation planning
 - Vision Zero – safer environments for pedestrians
 - Data and analytics for connected/autonomous vehicles (C/AVs)
 - Route planning and wayfinding
 - Smart logistics
 - Public transit prioritization
 - Determining signal system performance
 - Platform for intelligent cities

Dashboard View



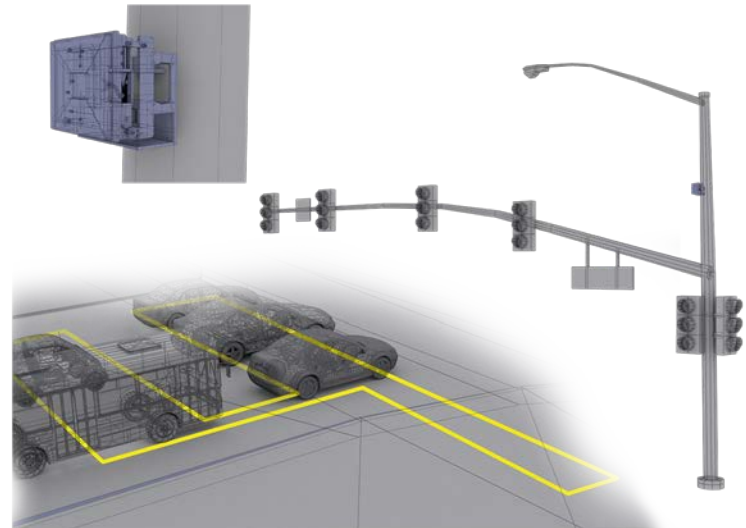
Current AV Landscape

- Automotive industry in transition
- Extensive investment in auto tech – traditional OEMs and startups
- Assumption these vehicles will not rely on infrastructure long-term, negotiate priority on their own
- What happens now?
 - Integrate with existing traffic environments before C/AV technologies are ubiquitous
- Safe, efficient deployment – not “one company, one technology” solution
- Pathways for collaboration –
 - Comprehensive solutions from multiple private sector partners
 - Public/private partnerships – new avenues for engagement



Importance of Intelligent Infrastructure

- Addresses the gap – now to critical mass of AV's
- Generate efficiencies and higher levels of safety for all roadway users – add value for everyone
- Negotiate priority for vehicles regardless of connectivity
- Include cities in this transition – very smart vehicles, outdated infrastructure
- Reduce congestion, pollution, address systemic traffic and transportation issues



Role of Cities, Agencies, Legislature

- Ensure that C/AV deployment increases public benefit – proactive stance
- Injection of core values – DOT Smart City Challenge example
 - Increasing equity & connectivity, reducing pollution, enhancing quality of life for all residents
- Policy developers, technology influencers
- Identify how technology can help meet public sector mandates
- Living labs – test zones in existing road networks



Policy Thoughts

- Focus on the important issues – safety
- Broad policy objectives – cannot address all issues now, smart phone analogy
- Pave the way for demonstration – product iteration occurs in a live environment, cities and agencies have a seat at the table
- Re-thinking PPP's – how can private sector assist with Cap Ex?
- Procurement – new policies to encourage owner/operators to experiment with technology, address risk
- California leadership – stance to encourage innovation
 - Guiding legislation for AV pilots
 - Encouraging individual cities and municipalities – providing policy guidance, avoiding policy 'patchworks'



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Thanks!

Questions?

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