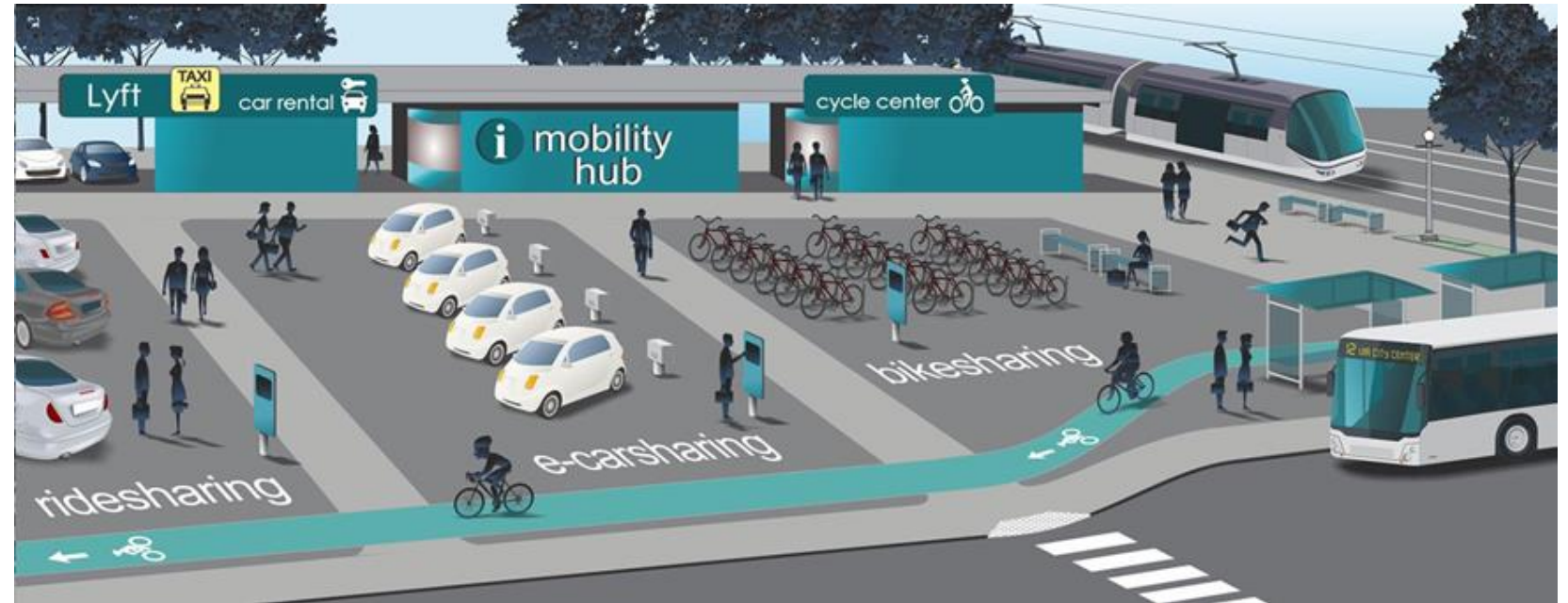


Innovation Update

Overview

- Team approach
- Innovation successes
- Framework
- Current efforts

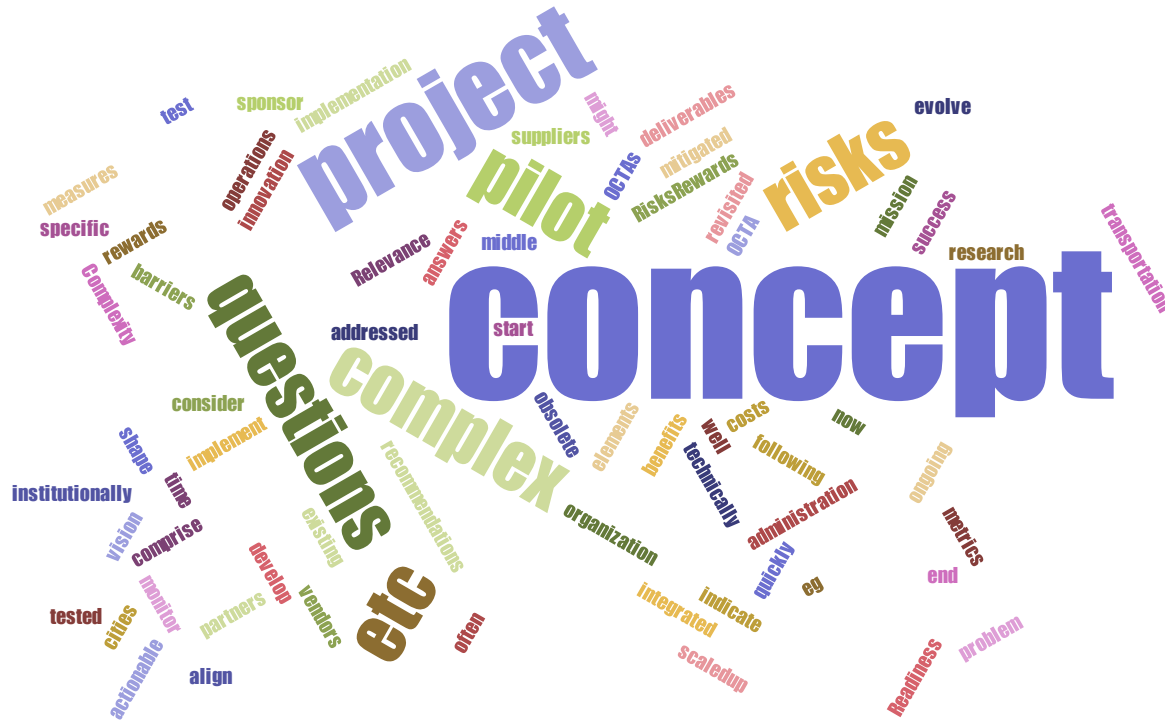


Successes

- Real-time bus information and open data
- Mobile ticketing deployment
- On-demand transit startup
- New approaches (OC Bus 360° and related research, marketing, and implementation efforts)



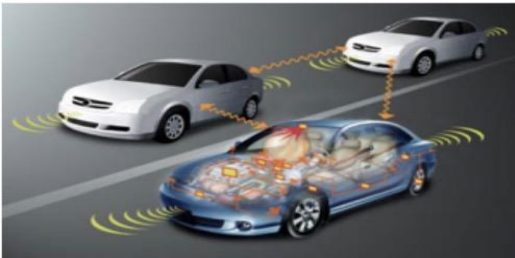
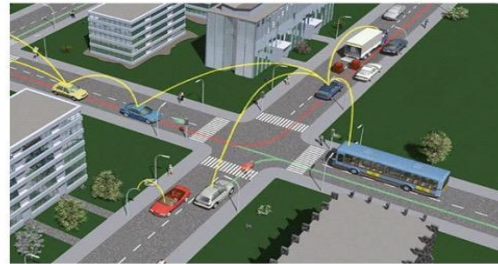
Evaluating New Innovations



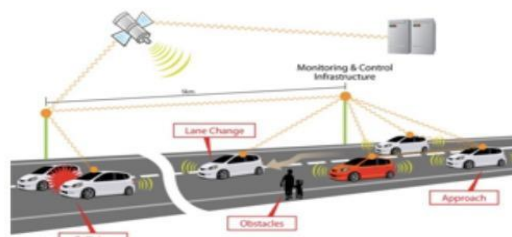
- Current environment
 - Changing rapidly, complex, uncertain
- Evaluate whether OCTA should:
 - Monitor, shape, test or implement
- A specific concept for:
 - Relevance
 - Risks/Rewards
 - Complexity
 - Readiness

Monitor

- Connected/autonomous vehicle benefits and impacts
- New vehicle-to-infrastructure communications (“5G”)
- Other “smart city” concepts



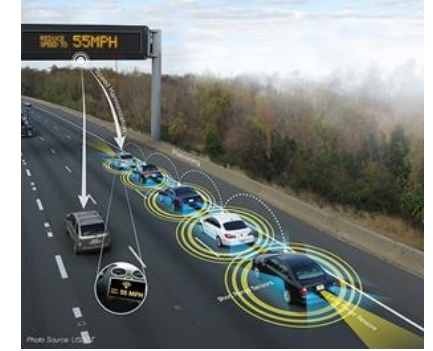
V2V: Vehicle-to-Vehicle



V2I: Vehicle-to-Infrastructure



AUTOMATED



CONNECTED



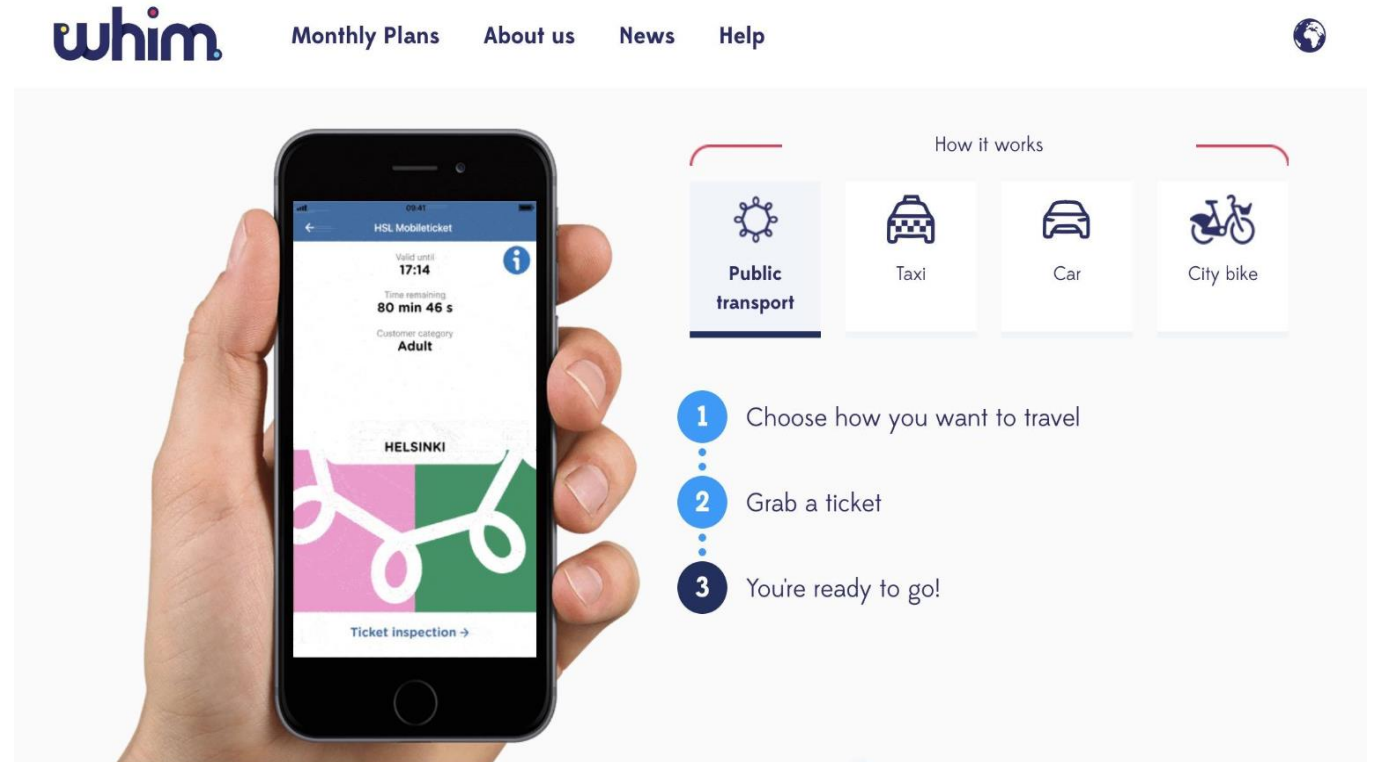
ELECTRIC



SHARED

Shape

- Integrated route planning and payment apps
- Transit signal priority using different bus-to-signal communication methods
- Best practices for shared active transportation issues including e-bikes and electric scooters



Test

- On-demand transit (OC Flex)
- Partnerships with transportation network companies
- Vehicle-to-infrastructure communications on portions of Anaheim Boulevard *(partnership with Anaheim)*

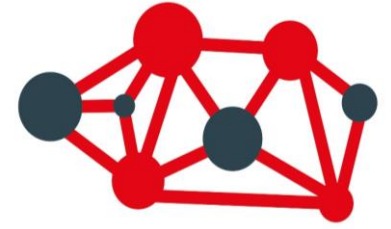


Next Steps

- Re-evaluate status based on monitoring efforts
- Return with biannual status reports
- Recommend appropriate actions (shape, test, implement) for specific innovations



UNCERTAINTY



COMPLEXITY



VOLATILITY



AMBIGUITY