

FDOT Guidance for MPOs on Automated, Connected, Electric, and Shared Use Vehicles

ABSTRACT

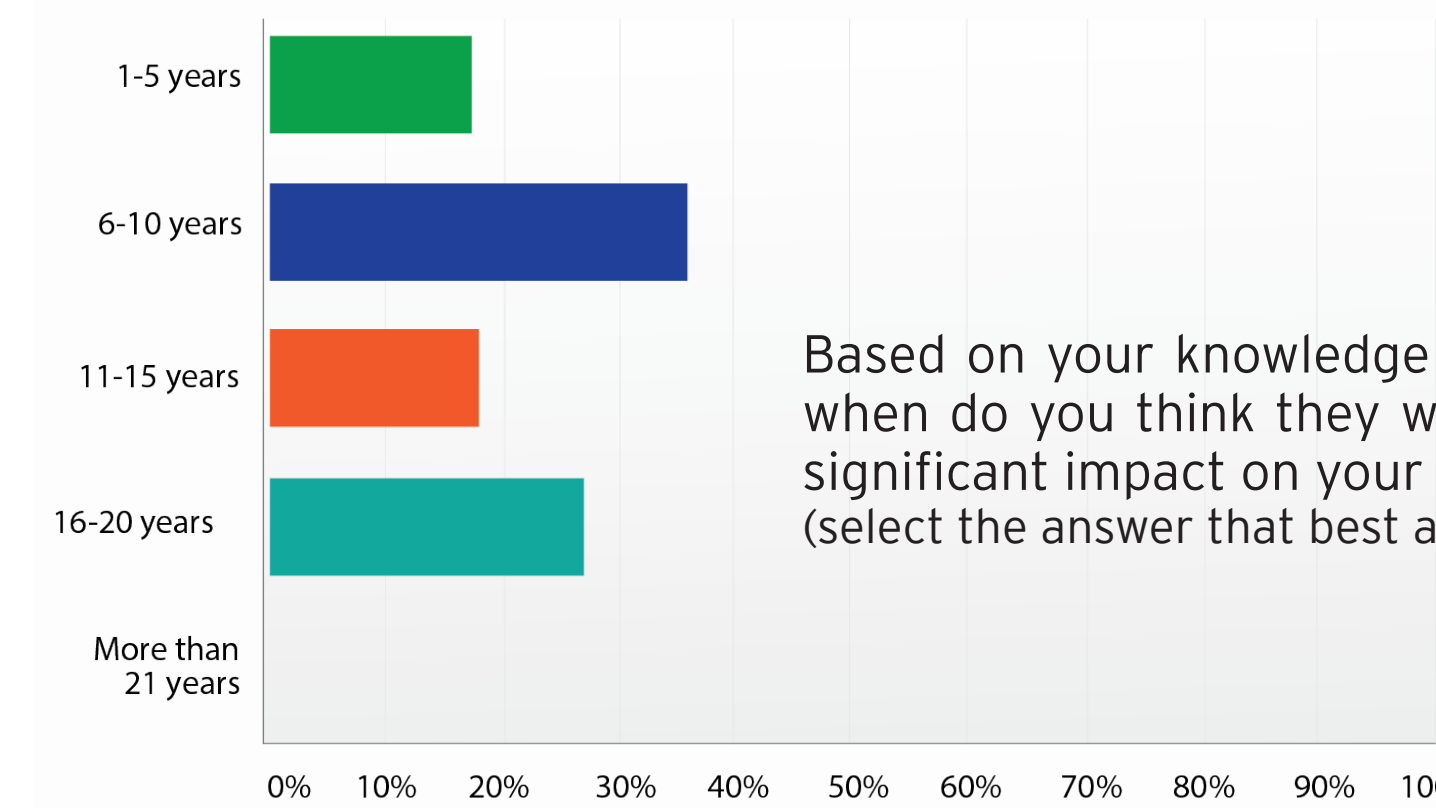
Florida metropolitan planning organizations (MPOs) are dealing with an unprecedented amount of potential change as they plan for their transportation needs between now and 2045. Within their current planning horizon, MPOs need to decide how best to address the increasing deployment of automated, connected, electric and shared-use vehicles (ACES) and complementary technologies.

As with many technologies in their infancy, there is uncertainty about likely outcomes and how to plan for them. This guidance is intended to help each MPO consider how best to account for ACES within their individual planning process and long-range transportation plan. As such, the Florida Department of Transportation (FDOT) intends for it to be a catalyst that sparks MPO consideration regarding how ACES uniquely will deploy and affect its specific area.

As a result of these efforts, recommendations for MPO and other regional and local planning considerations included specific tools to help with public engagement, fiscal planning, infrastructure planning, transportation modeling, urban planning, and policy development. The poster is intended to highlight the research completed that utilize the six FHWA ACES integration scenarios for inclusion into planning documents while also addressing potential impacts of an ACES future on Long Range Transportation Plan Goals and Objectives.

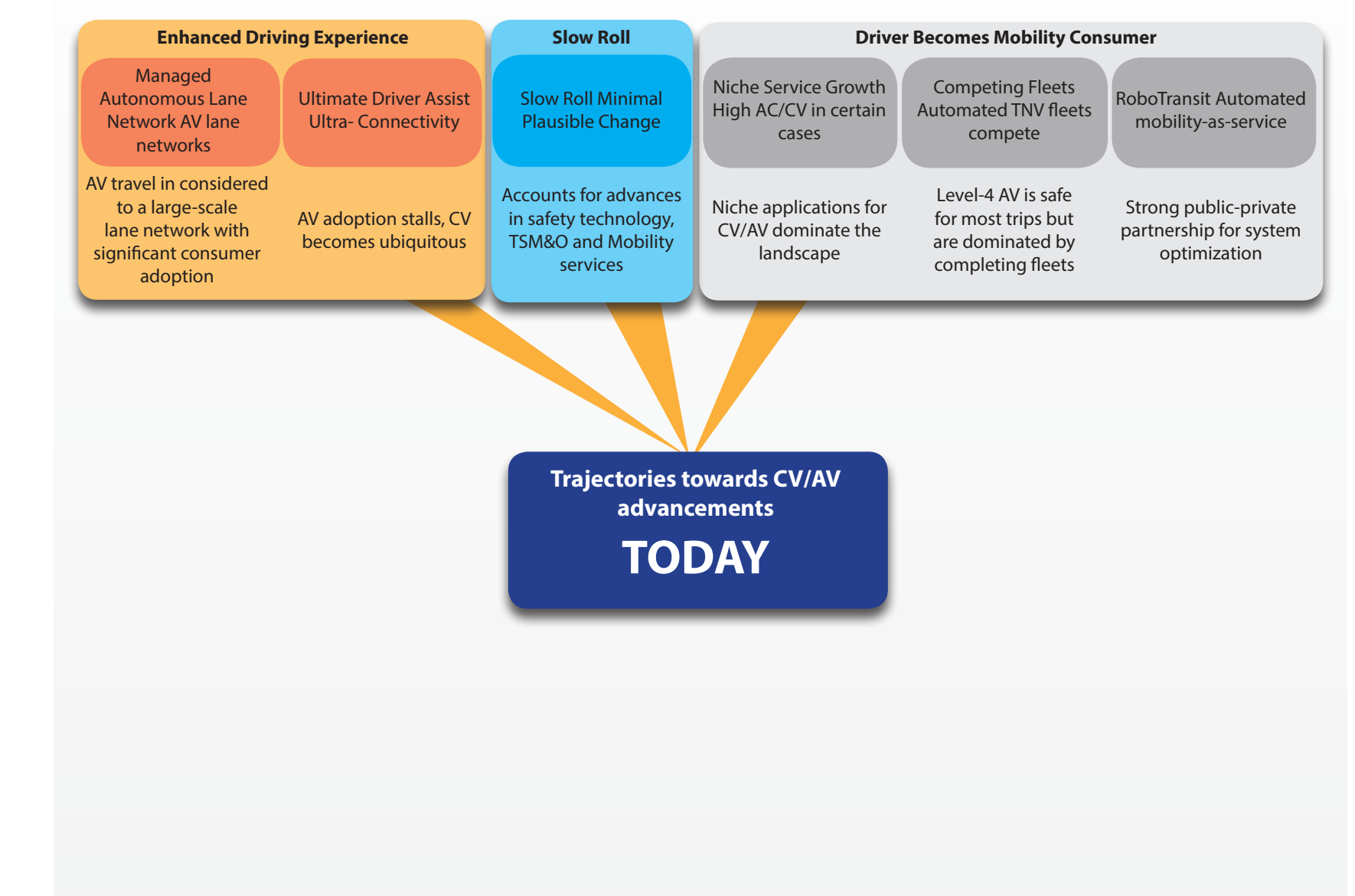


ASK YOURSELF

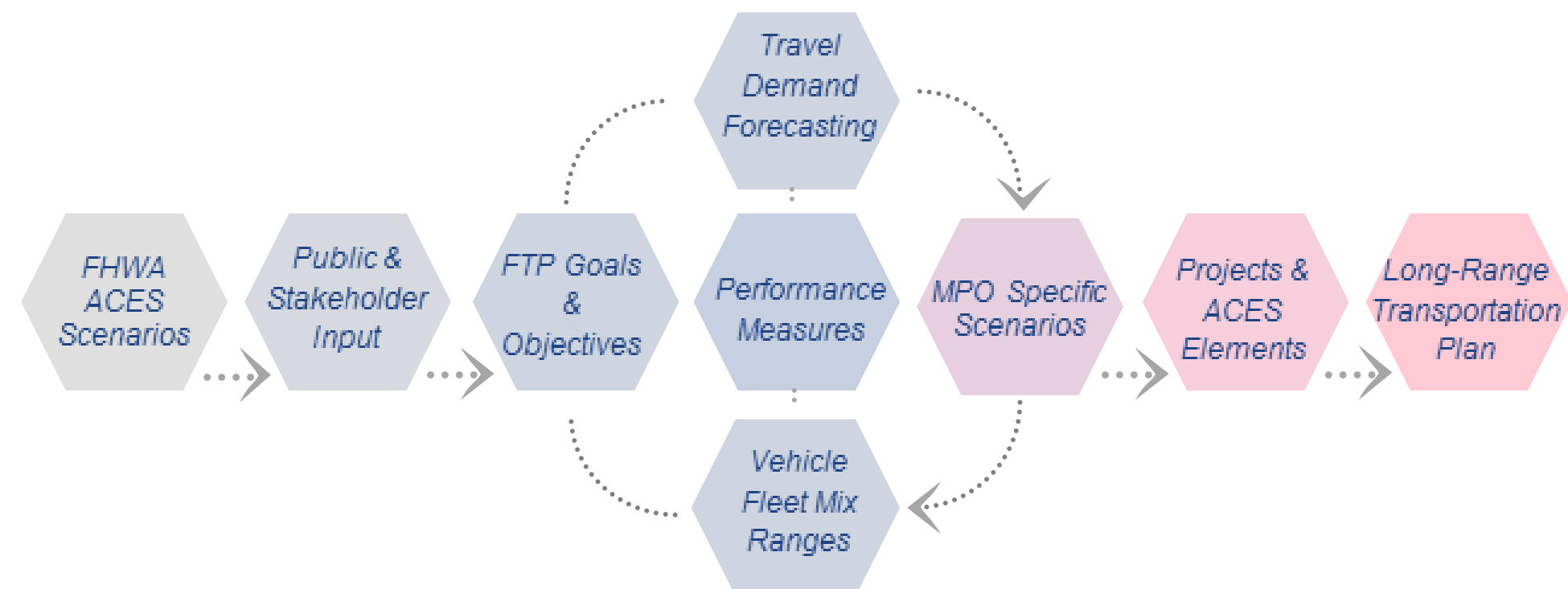


Based on your knowledge of ACES, when do you think they will have a significant impact on your region? (select the answer that best applies)

DEFINE PLANNING APPROACH

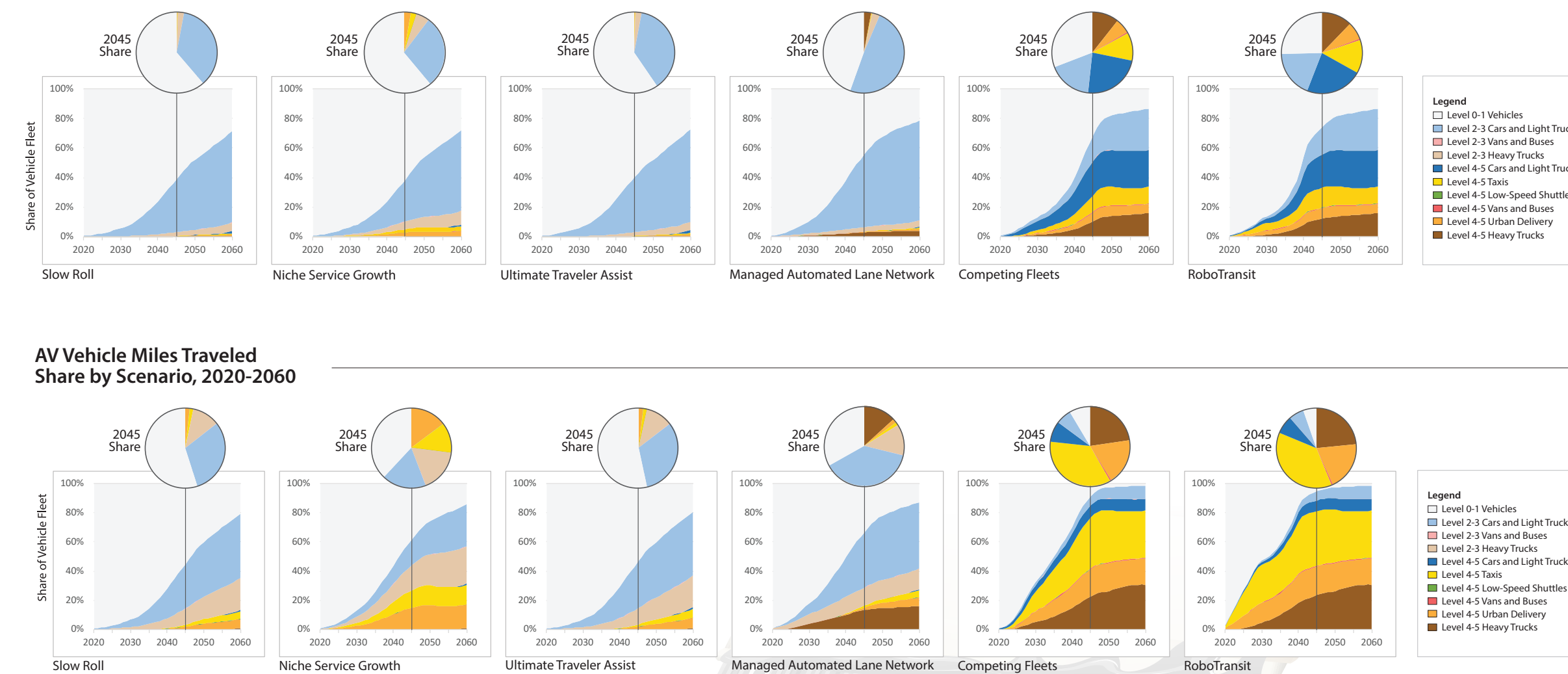


Evaluation Process

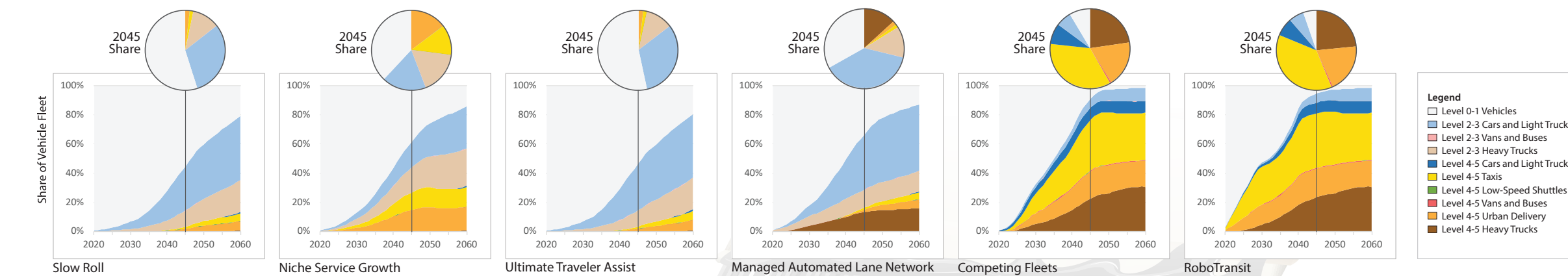


RESULTS

Autonomous Vehicle (AV) Fleet Share by Scenario, 2020-2060



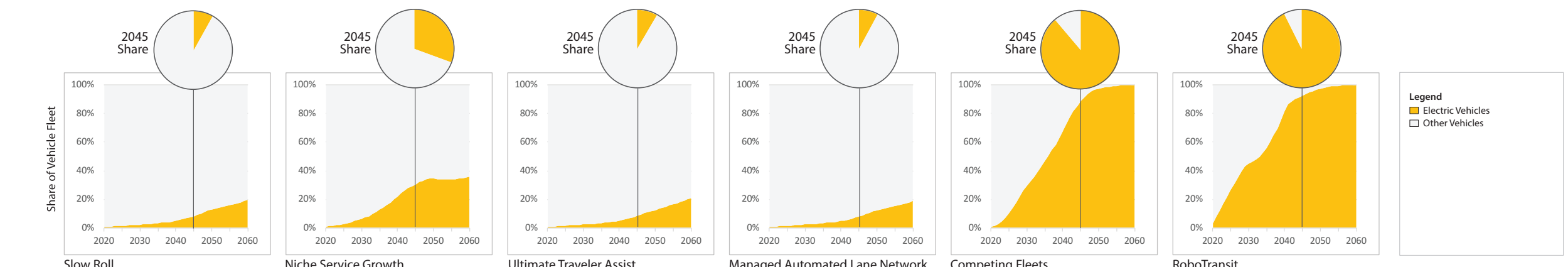
AV Vehicle Miles Traveled Share by Scenario, 2020-2060



CV Vehicle Miles Traveled Share by Scenario, 2020-2060



Electric Vehicle (EV) Fleet Share by Scenario, 2020-2060



Travel Demand Impacts



CONSIDERATIONS

- ENGAGEMENT
- FISCAL | PLANNING
- PLANNING
- POLICY | DEVELOPMENT
- PROJECT | PRIORITIZATION