ASLA PHL2018 Annual Meeting and EXPO October 19-22 Philadelphia #ASLA2018

SAT-B10: Designing for Autonomous Vehicles Session Guide

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APA American Planning Association
Making Great Communities Happen

University of Minnesota
Driven to Discover℠

Learning Objectives

1. Learn about projections for the deployment of autonomous vehicles (AVs) and their impacts on the built environment over time.
2. Understand the “big-picture” implications of AVs and related technological trends for the design and planning professions.
3. Identify design opportunities for landscape architects created by AVs (e.g., street/ROW redesign, reclamation /redevelopment of land from parking, integration of green infrastructure into the built environment).
4. Apply concepts learned at different scales and in different geographic contexts.

Session Outline

1. Framing the Session
2. The Big Picture: AVs are Coming!
3. Secondary Impacts: How Can Cities and Regions Prepare?
4. Q&A
5. Design Opportunities Created by AVs
6. Discussion

   How can landscape architects seize the opportunities and take a leadership role in designing for AVs?

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Presenters

David Rouse is the Managing Director of Research and Advisory Services for the American Planning Association (APA). He leads APA's Planning Advisory Service, the National Centers for Planning, and special initiatives such as planning for autonomous vehicles. David was formerly a principal of Wallace Roberts & Todd in Philadelphia, where he specialized in city, regional, and green infrastructure planning.

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Tom Fisher is Professor, Director of the Minnesota Design Center, and Dayton Hudson Chair in Urban Design at the University of Minnesota. He specializes in design thinking and systems design, including transportation systems and transportation-related land use and zoning. Tom has written 9 books, over 50 book chapters or introductions, and over 400 articles. His most recent book is *Designing Our Way to a Better World (*2016).

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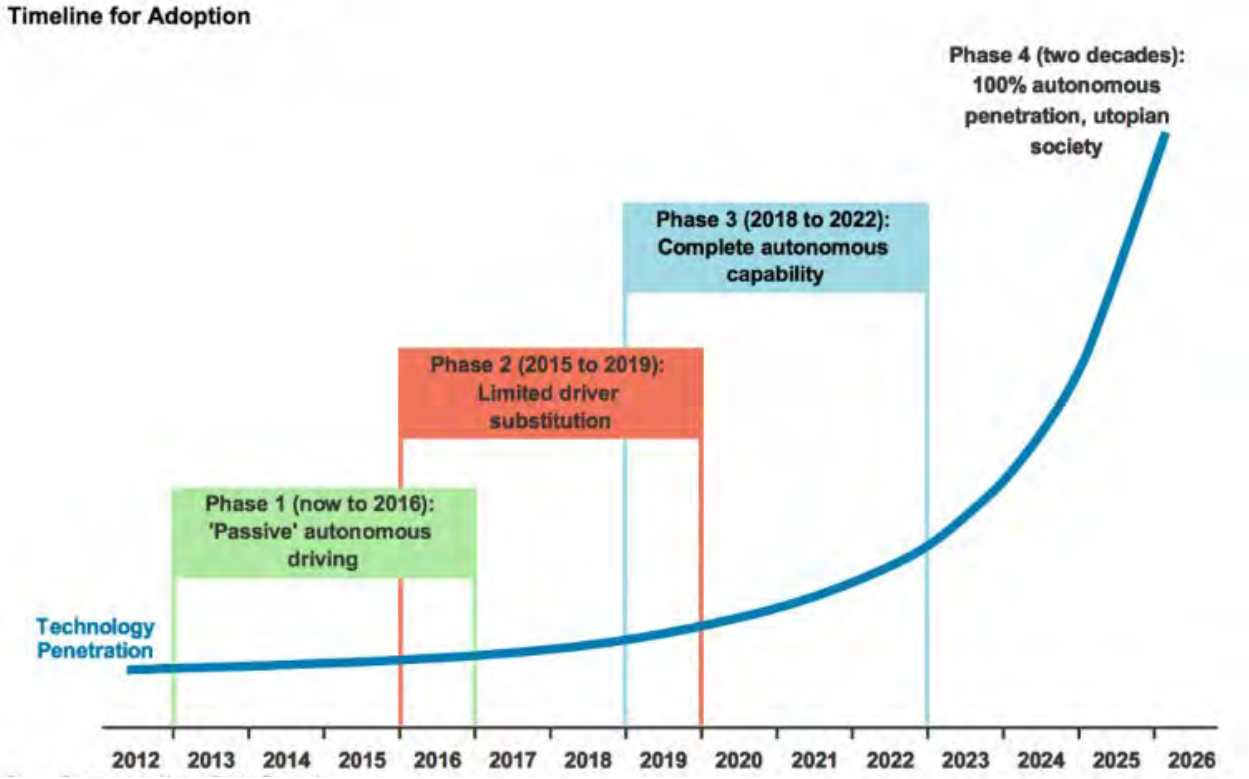
Session Highlights: Framing the Session

- Utopia or Dystopia?
- Opportunities for Landscape Architects

Session Highlights: AVs are Coming



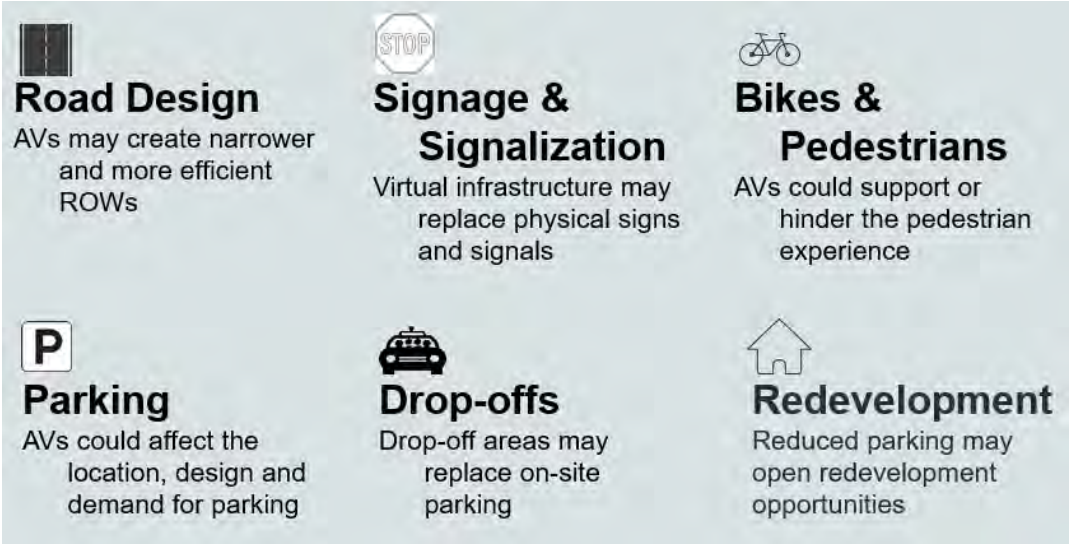
Source: Morgan Stanley Research

Session Highlights: Secondary Impacts

How will the initial deployment and eventual widespread adoption of autonomous vehicles impact our cities and regions?

- Equity and access
- Transportation ecosystem
- Built environment

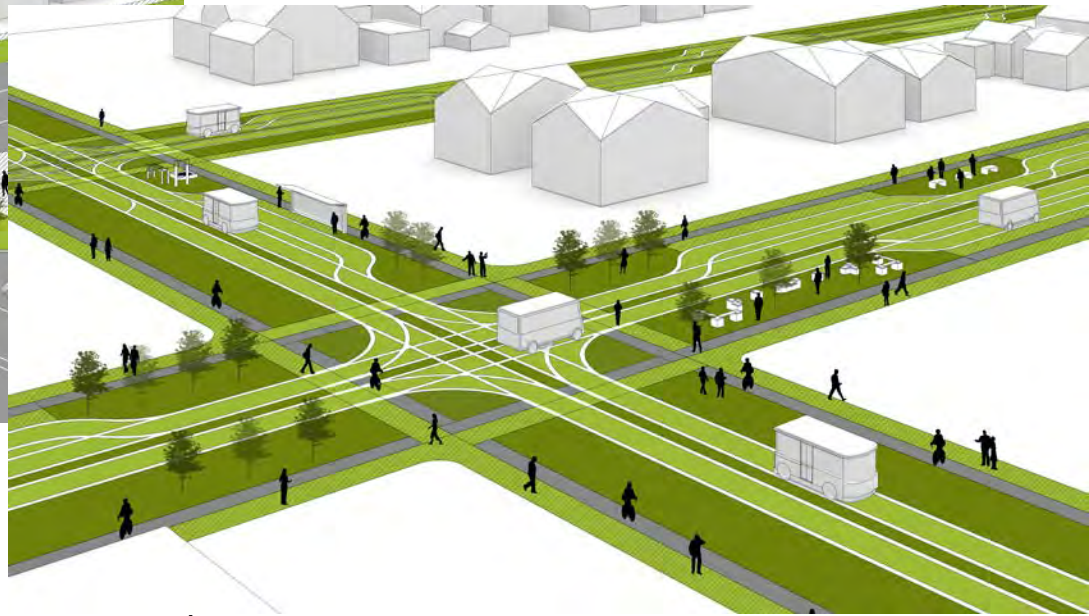
How do we prepare?



Potential Built Environment Impacts
Source: Chapin, Crute et. al., Florida State University, 2016

Session Highlights: Design Opportunities

A typical street for driven cars



An AV-ready street

Source: Minnesota Design Center

APA Resources on AVs

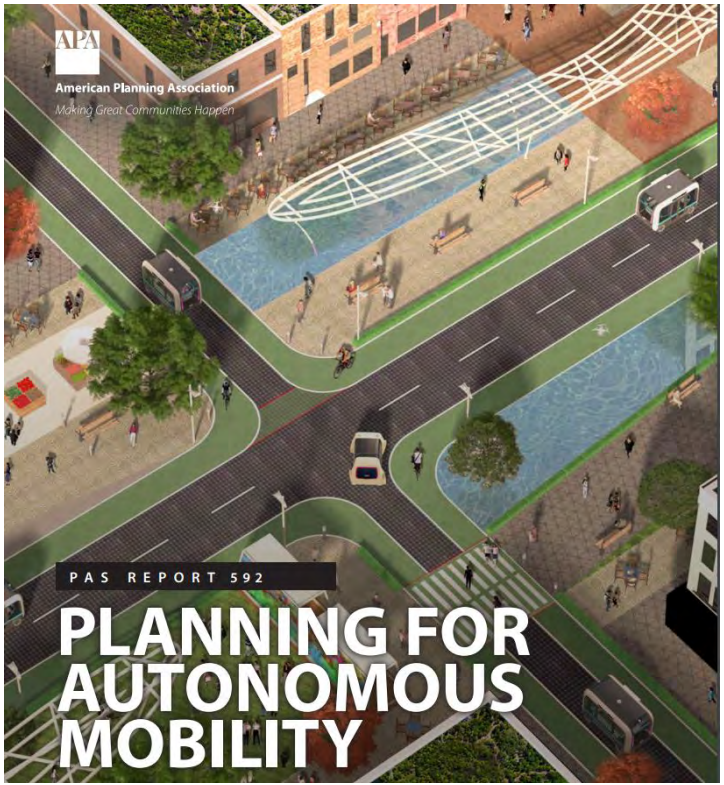
J. Crute, W. Riggs, T. Chapin, and L. Stevens, *Planning for Autonomous Mobility*, PAS Report 592, September 2018.

J. Henaghan, ed. *Preparing Communities for Autonomous Vehicles,* report on October 2017 symposium held at the National League of Cities.

Autonomous Vehicle KnowledgeBase Collection.

AV Policy Principles, prepared by APA's Legislative and Policy Committee.

https://www.planning.org/resources/av/



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