

MTI Research Snaps presents:

# Local Policy for Automated Mobility

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Presented by: William (Billy) Riggs | @billyriggs

January 14, 2021





# OUTLINE

- Policy Context
- Policy Roles for Cities
- Simple Takeaways



# Policy Context

- Background
- Uncertainty & Travel Behavior
- Policy Patchwork

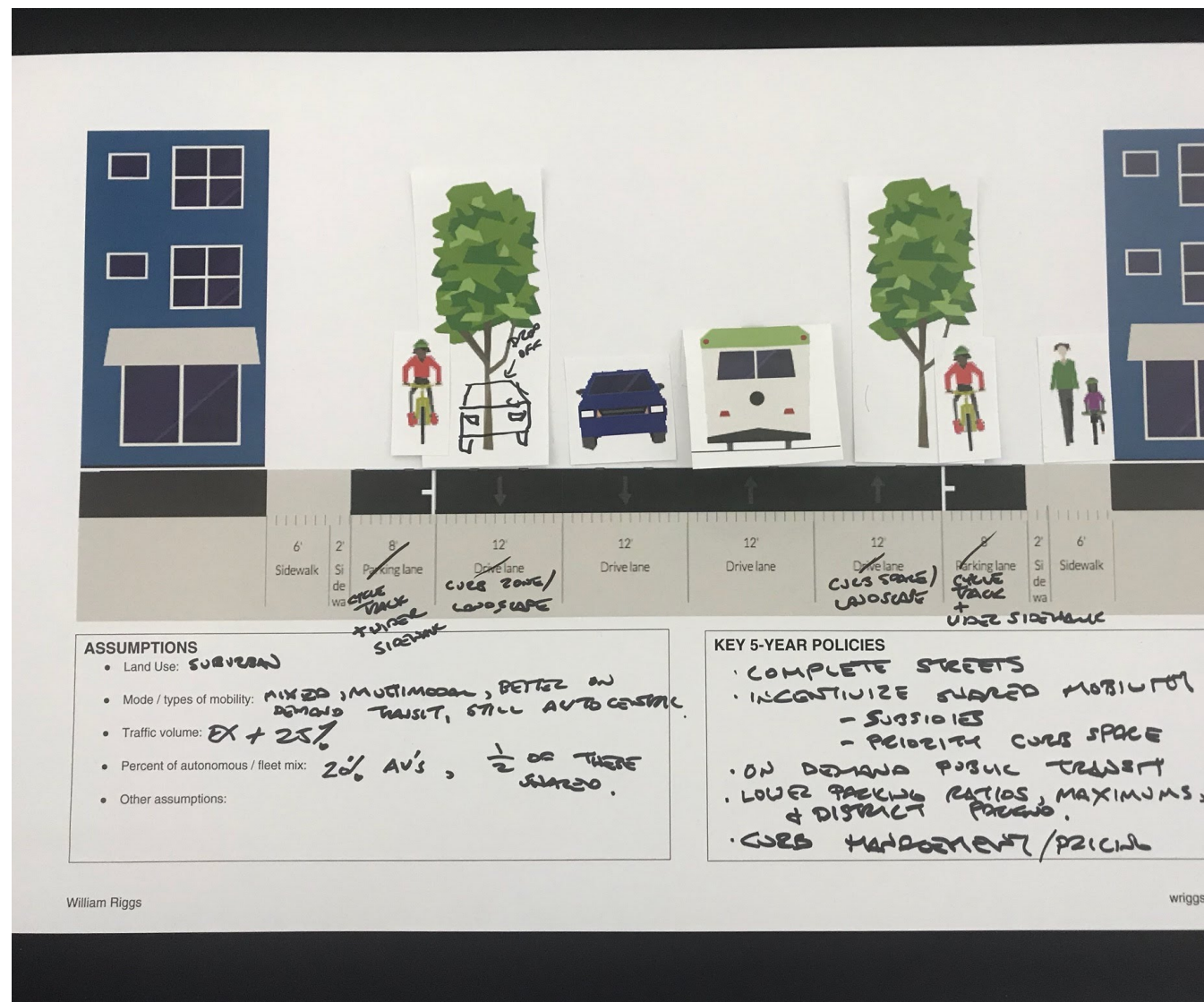
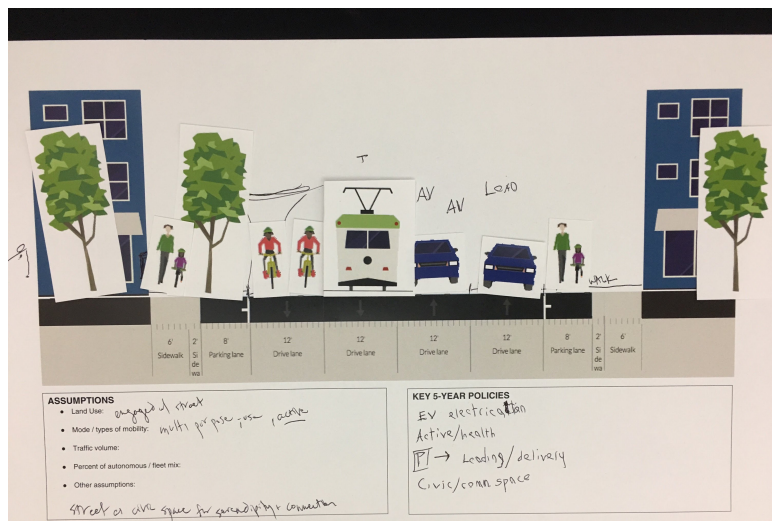
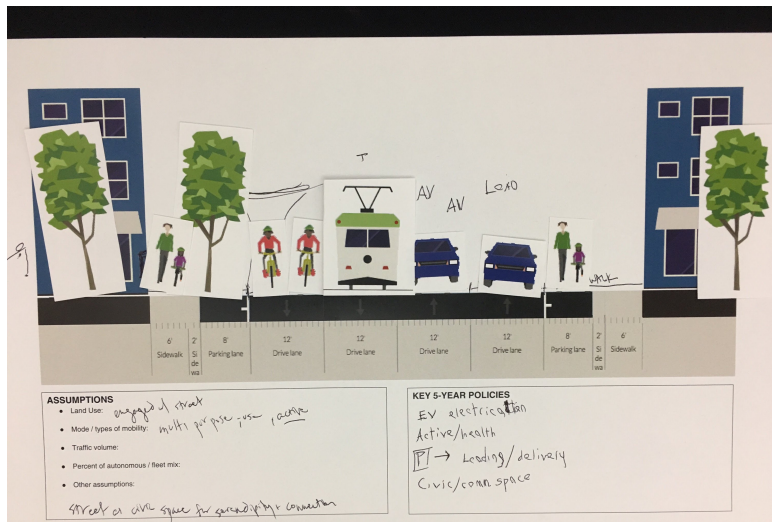


# Background from Policy Activities

- Group processes at:
  - Autonomous Vehicles and City Conference
  - Planetizen 2019 - Web Technologies Benchmarking Study
  - AVS Proceedings / Road Vehicle Automation 7









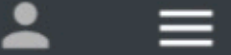
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# Uber and Lyft operating in US cities linked to rises in car ownership



TECHNOLOGY 6 January 2021

By Loyal Liverpool



ANAL REPORT

Utopia

## Uncertainty is Certain

## to transform planning

*Autonomous vehicles will reshape cities*



January 2021

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# Slow, Incremental, and Uncertain Transitions in Platforms & Behavior

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Personal AVs and AV Taxis could increase VMT/GHG and eliminating parking

*or NOT*

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AVs could increase roadway capacity

*or NOT*

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Shared AV taxis could reduce VMT and GHGs;

*or NOT*

---

Private fleet ownership could go down

*or NOT*

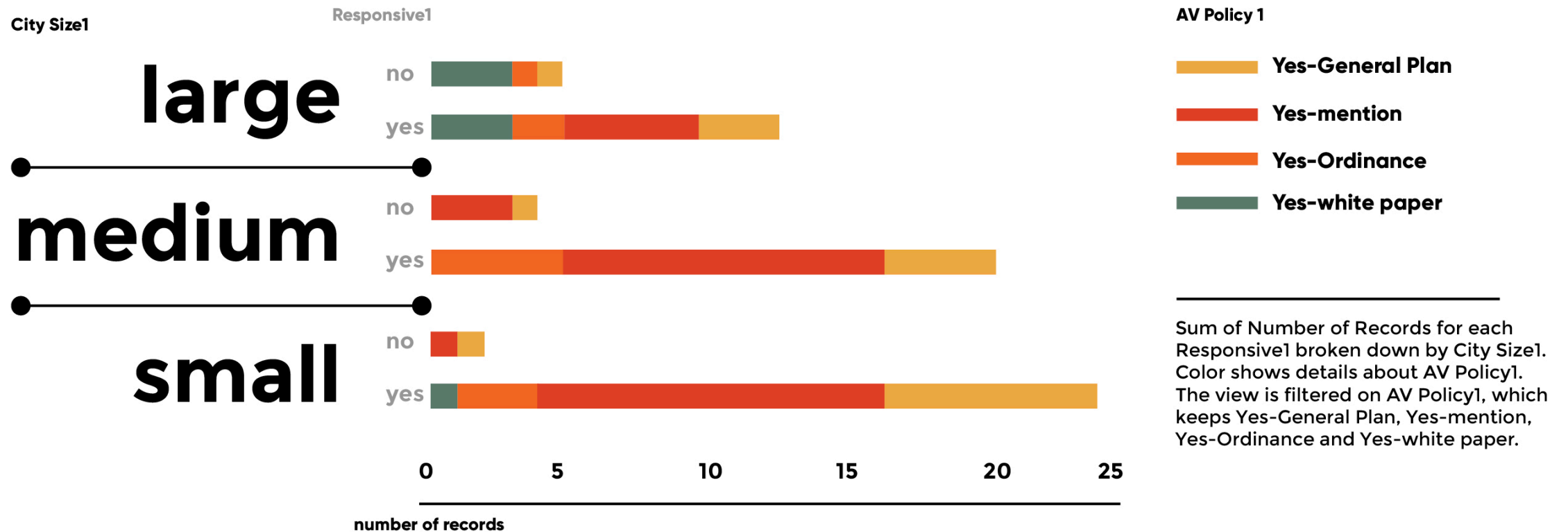
# Patchwork of Policy

**AV START Act** and **SELF DRIVE Act** – concept to create a national framework for the testing and deployment of automated vehicles

**Automated Vehicles 4.0** – guidelines to support AV industry maturation, w/principles to: 1) protecting users and communities; 2) promoting efficient markets; 3) and facilitating coordinated efforts.

State regulation varies; little direction for local government; **12% have some kind of AV policy**





- **Planetizen 2019 - Web Technologies Benchmarking Study**  
<https://www.planetizen.com/features/102851-city-planning-technology-2019-benchmarking-study>
- **AVS Proceedings / Road Vehicles Automation 7**  
[https://link.springer.com/chapter/10.1007/978-3-030-52840-9\\_14](https://link.springer.com/chapter/10.1007/978-3-030-52840-9_14)



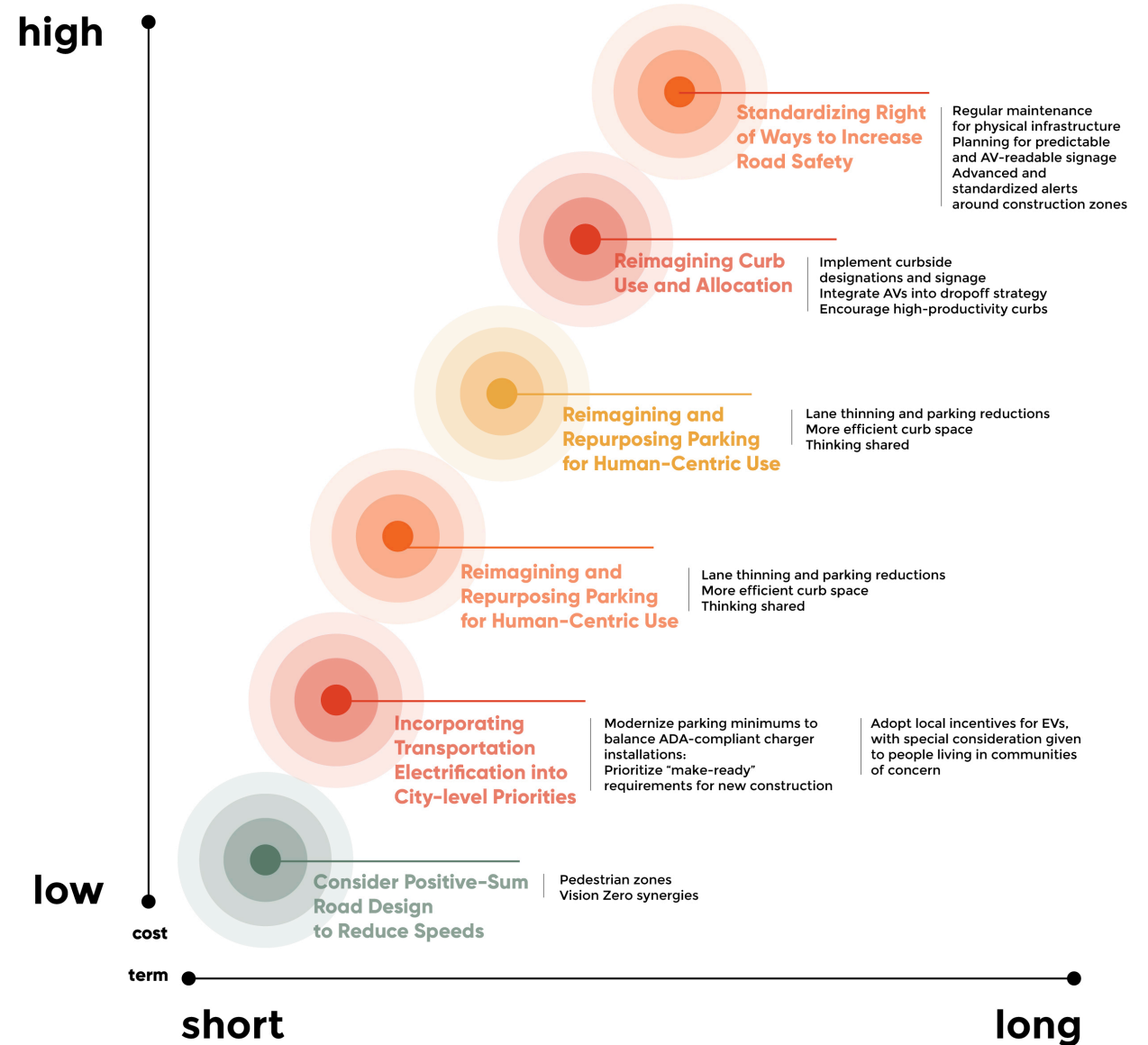
# Policy Roles for Local Governments

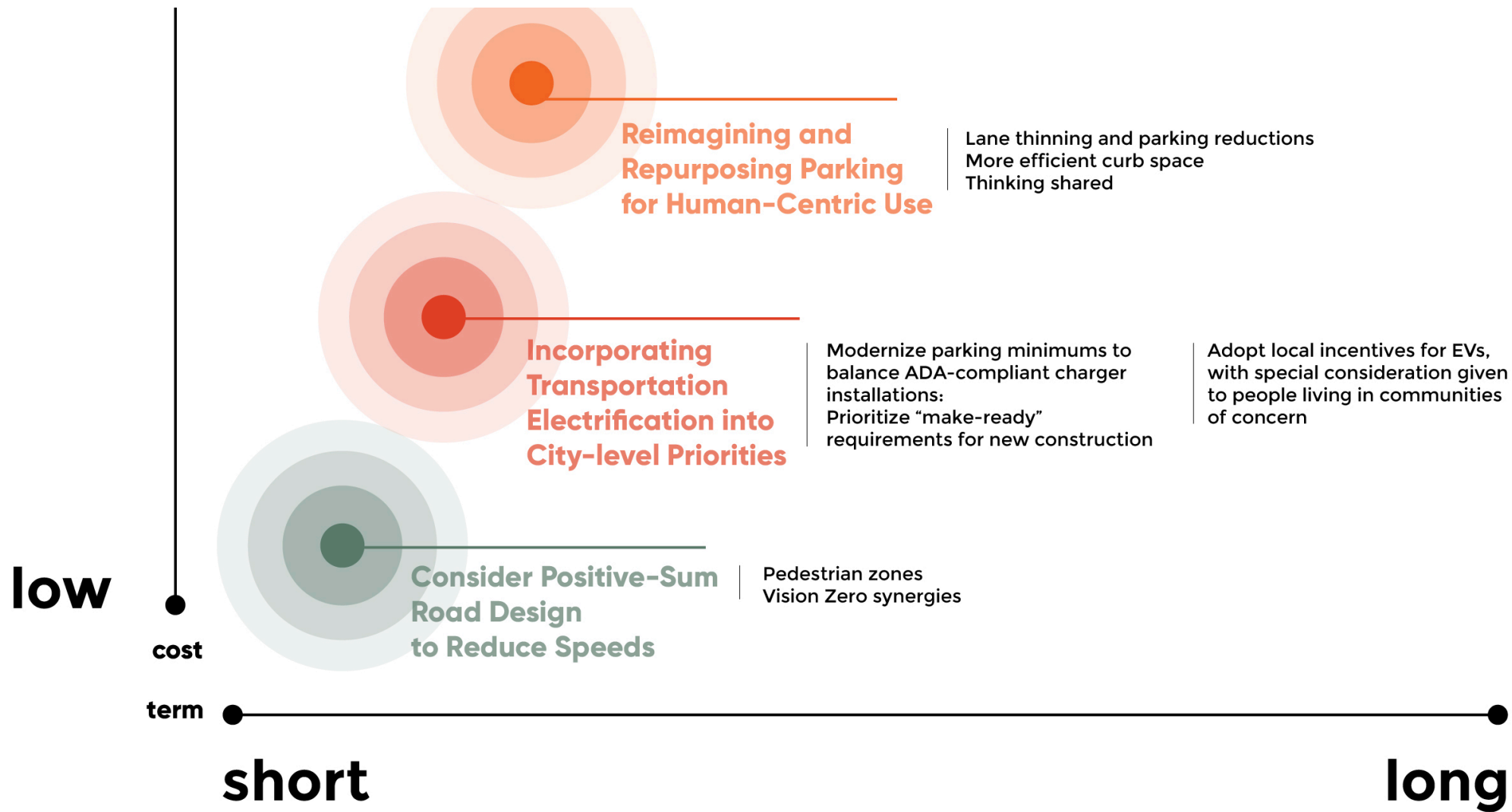
- Cities “preempted” from many aspects of vehicle design, safety, operation
- Can engage in operational and asset management
- Can explore functional rideshare pilots and partnerships
- Can invest in technology: signs, lines and potholes



# A Focus on Low-Cost Short-term Local Policy Actions

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# POSITIVE SUM ROADWAY DESIGN, PEDESTRIAN ZONES AND VISION ZERO PLANS

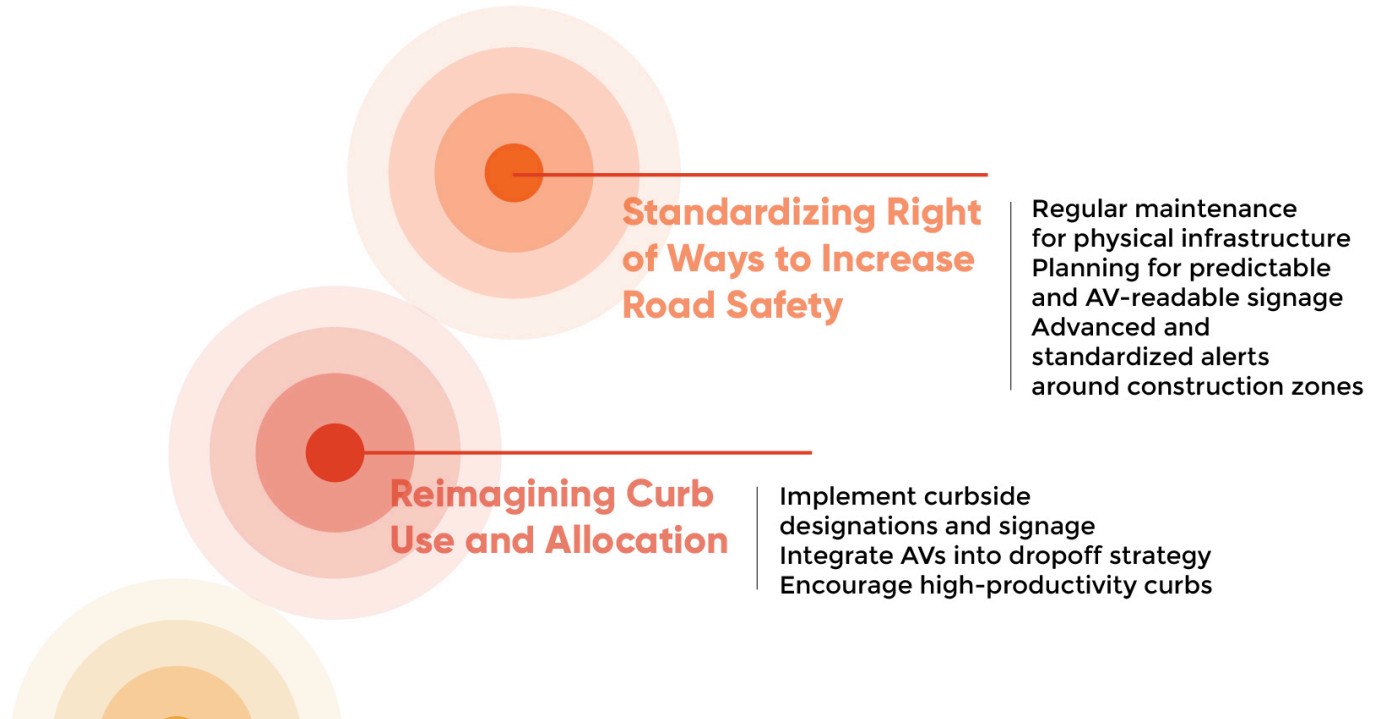




# ELECTRIFICATION & ZERO EMISSION TRANSPORT ZONES



high

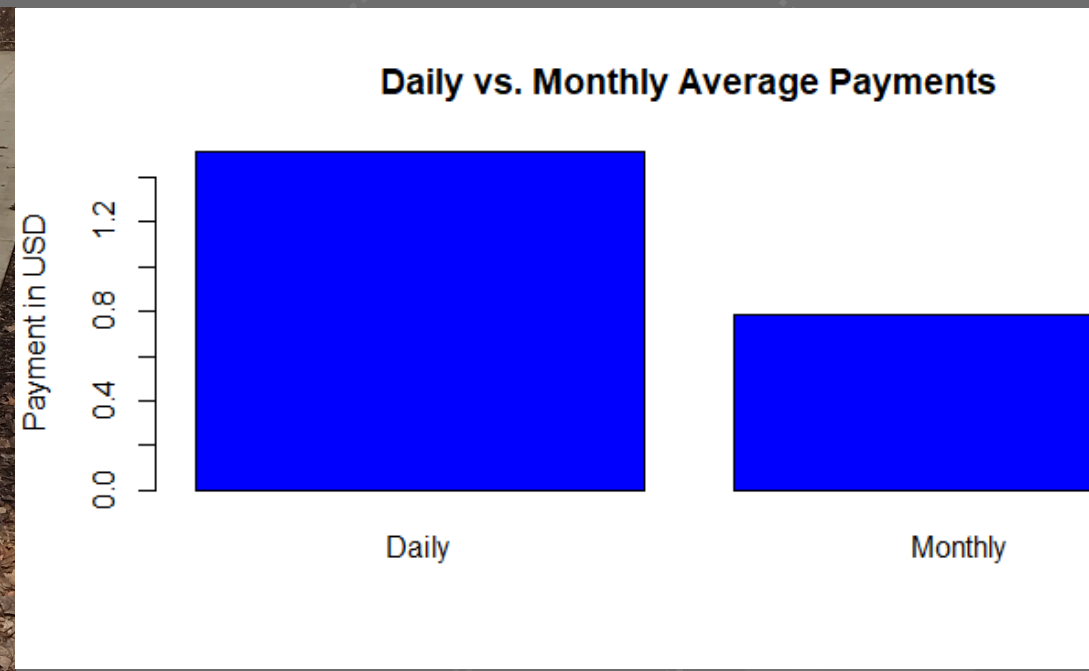




# REIMAGINING CURBS

# Best practice on pricing...

- Complexity confounds
- Conduct tactical experiments
- Consider price anchoring / social norms
- Use dynamic / variable pricing
- Involve the public





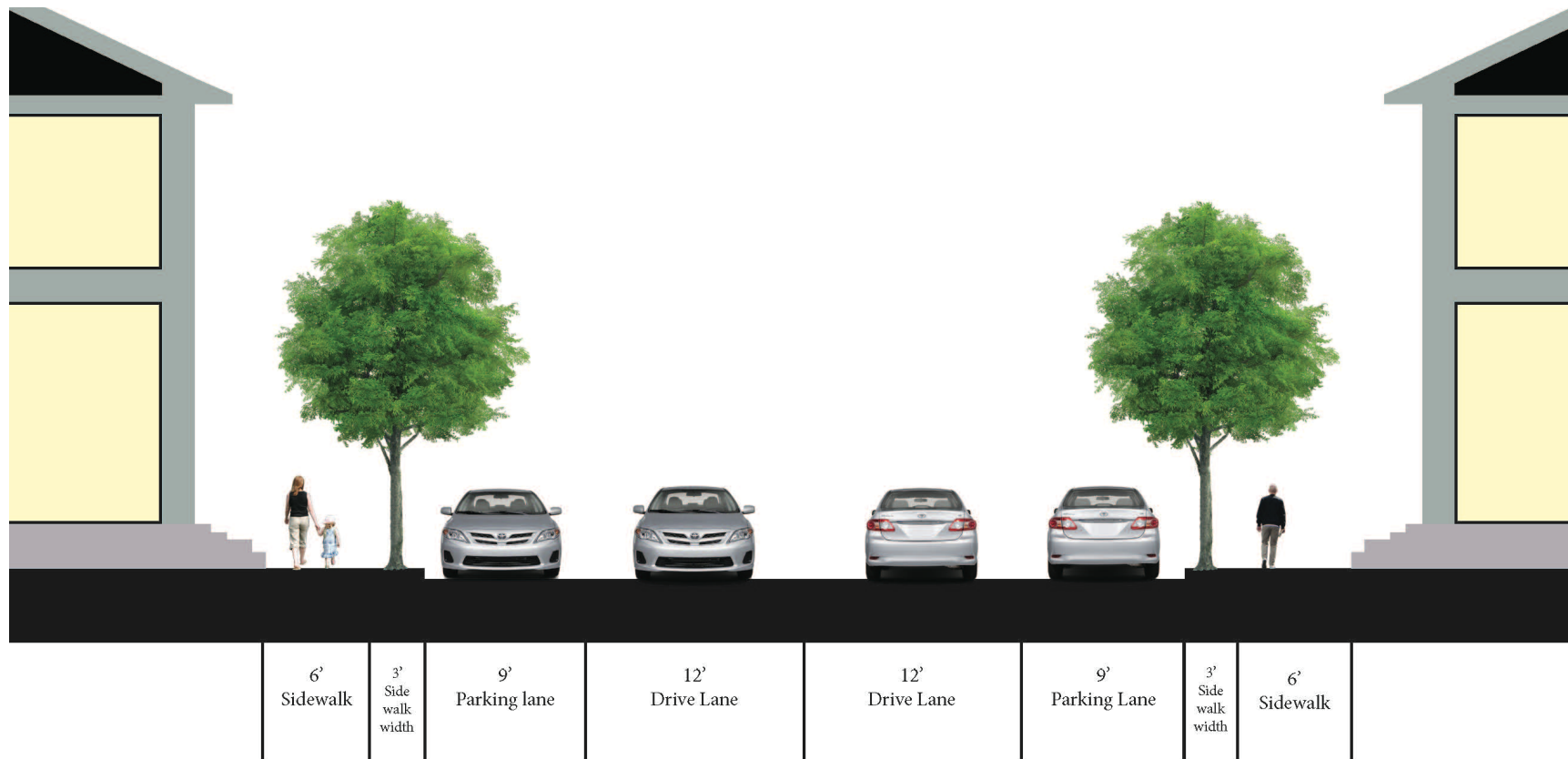
A person in dark clothing is captured mid-jump over a concrete curb. Water is splashing up around their feet, creating a dynamic and energetic scene. The background shows a blurred street with trees and buildings.

# RETHINKING RIGHT OF WAY ALTOGETHER



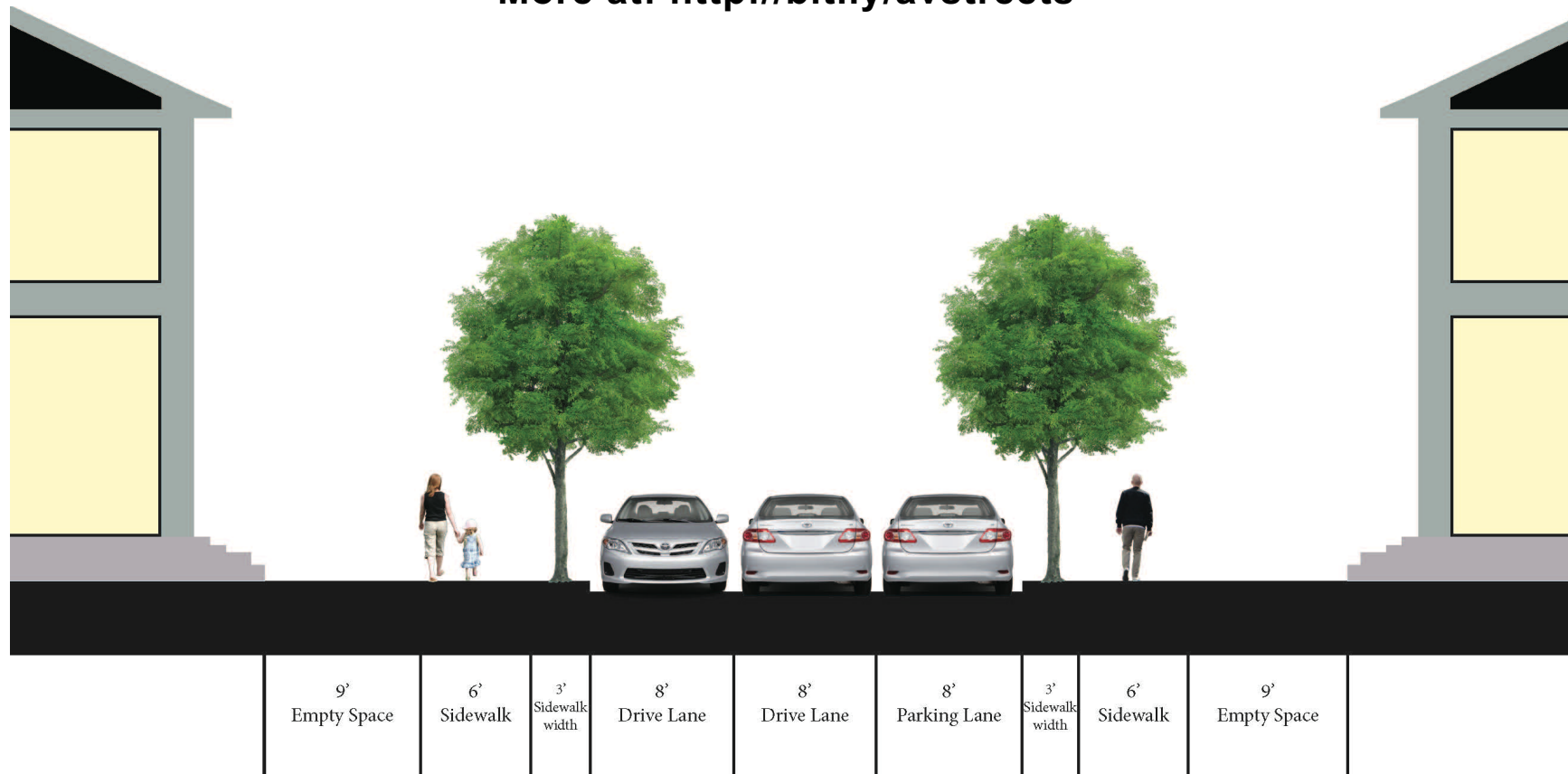
# Thin Lanes I Remove Parking I Think Shared

More at: <http://bit.ly/avstreets>



# Thin Lanes I Remove Parking I Think Shared

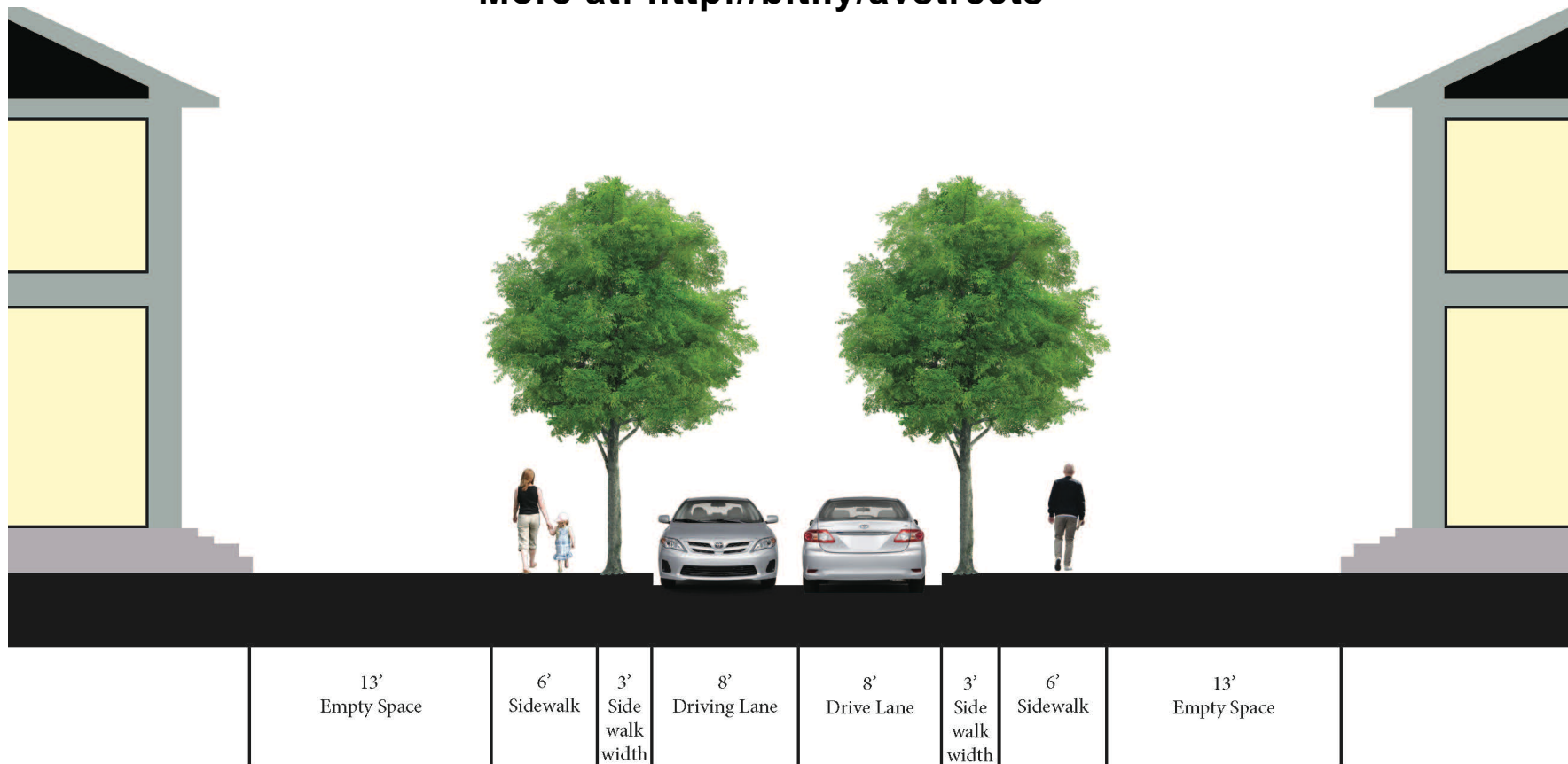
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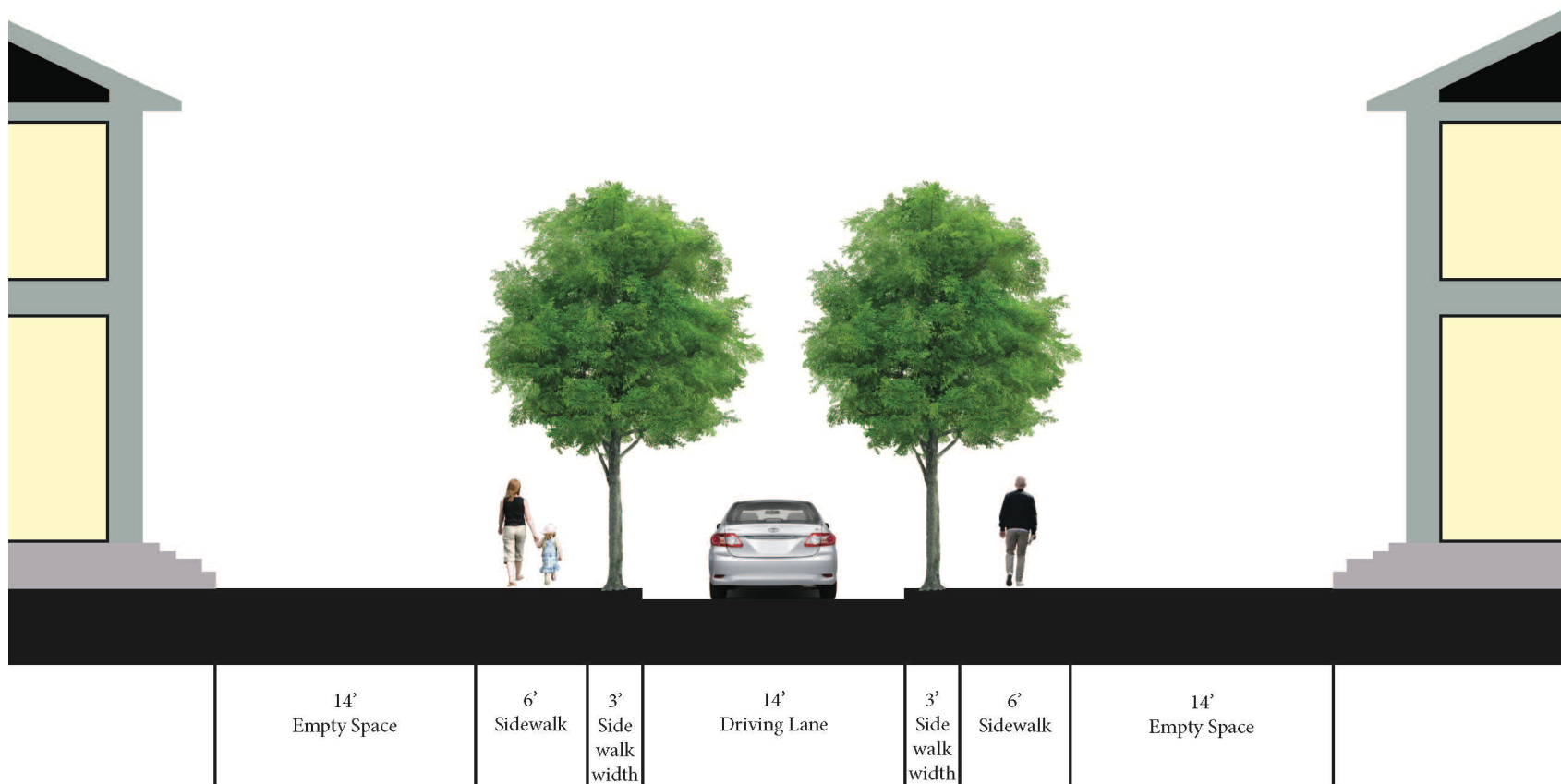
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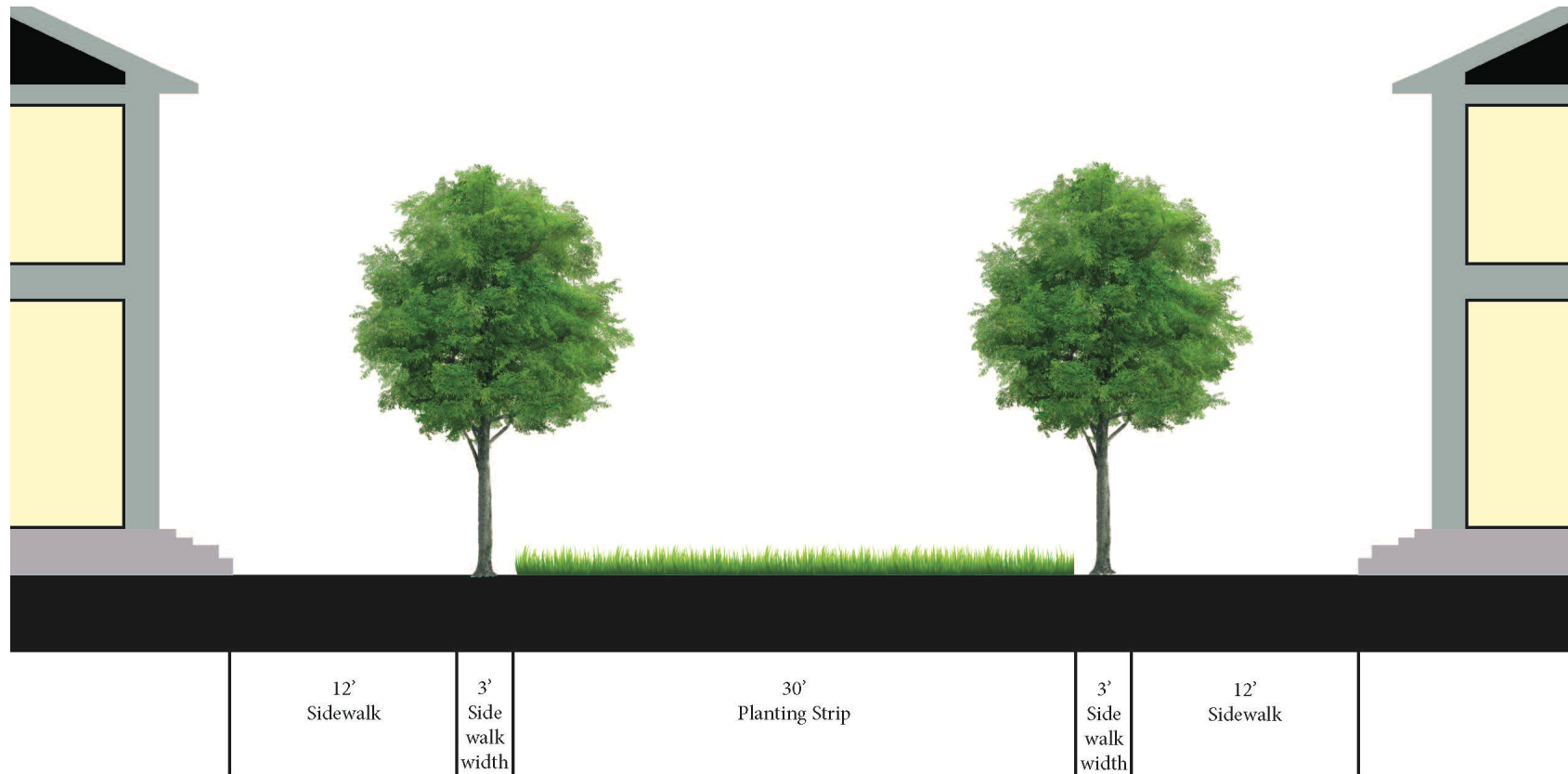
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# RETHINKING TRANSIT





# Simple Takeaways

- Consider multiple users / implications for bikes and pedestrians
- Don't overthink digital infrastructure that's nice to have—have clear signs, lines and good pavement
- Think about operational and asset management; how can you use speeds and ROW to facilitate and guide future mobility
- Consider / explore mobility partnerships or corridors; new ways to think about AV transit

# Thank you for joining us for: Local Policy for Automated Mobility

View the full report at:

<https://transweb.sjsu.edu/research/2055-Policy-Framework-Future-Automated-Mobility>

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**Tune in for our next webinar “Safe Routes to School in 2021: Let’s Walk the Walk” on February 16, 2021 at 10a.m. (PST)! Visit <https://transweb.sjsu.edu/events> for details and registration.**

Have a suggestion for a webinar topic you’d like to see featured? Email [irma.garcia@sjsu.edu](mailto:irma.garcia@sjsu.edu)

