



Pedestrian and Bicycle
Information Center

Automated and Connected Vehicles, Pedestrians and Bicyclists

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pedbikeinfo.org

   @pedbikeinfo

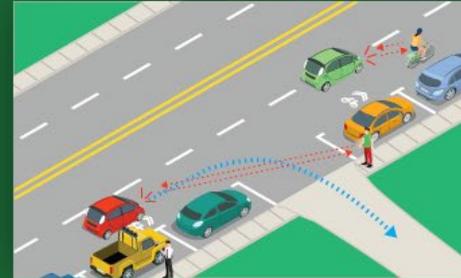
Many challenges to reconcile



1. The Detection Problem



2. The V2X Problem



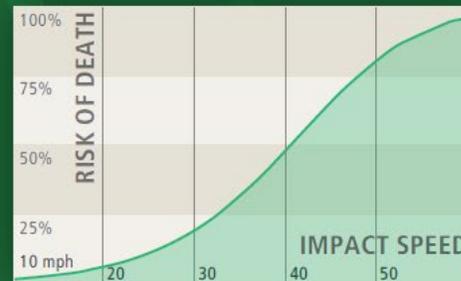
3. The Communication Problem



4. The Right-Of-Way Problem



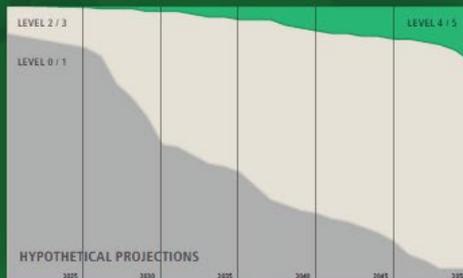
5. The Passing Problem



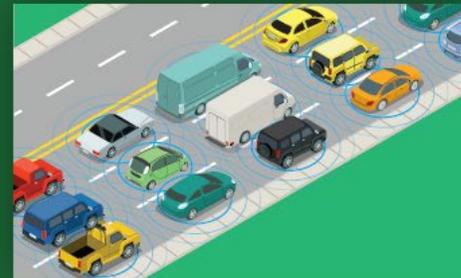
6. The Speed Problem



7. The Pickup/Dropoff Problem



8. The Driver Handoff Problem



9. The Mode Shift Problem

Some safety treatments are universally beneficial

- Good pedestrian level lighting
- Provision of separate, defined space
- Slow speeds in mixed traffic
- Design continuity



Source: pedbikeimages.org/NYCDOT

Plan and design for the outcomes we want to achieve

Old question: *“What should we be doing to be ready for automated vehicles?”*

New question: *How can we design our communities to optimize affordable, safe, healthy, and sustainable movement of goods and people, and where can automation help?*

Thank you!

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All Topics

Topics in pedestrian and bicyclist safety, mobility, access, and equity are often related. Explore cross-cutting topics below for more information and walking.

Access for Individuals with Disabilities

Transportation networks must be accessible for people of all ages and abilities.

Related Topics

Countermeasures and Safety Effectiveness
Design and Engineering Guidance
Equity

Automated and Connected Vehicles

As vehicle technologies become automated and connected, there are opportunities to advance pedestrian and bicycle safety and mobility.

Related Topics

Equity
Design and Engineering Guidance
University Curriculum and Courses

Bicycle Helmets

Bicycle safety starts with a well-fitting helmet. Bicycle helmets reduce the risk of severe injuries and fatalities and should be worn by all bicycle riders.

Related Topics

Health
Safety Communications
Vision Zero



PBIC Automated Vehicle Module Series

Last Updated: July 7, 2019

Related Topics

Complete Streets
Community Engagement
E-Bikes

it

ansportation
red at each

Related Topics

Plan Development
Equity
Health

Related Topics

ccess for all road
ealthy lifestyles,
Connected Multimodal

