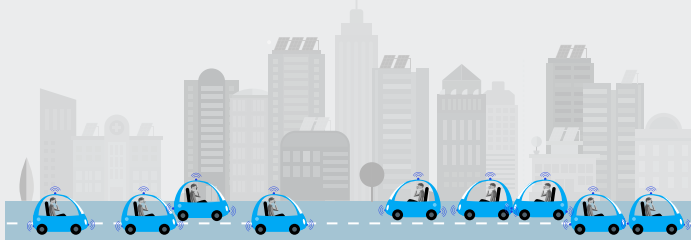


What steps must cities take to realize the full benefits of autonomous vehicles?

Next 5–10 years could result in two very different future urban-mobility systems

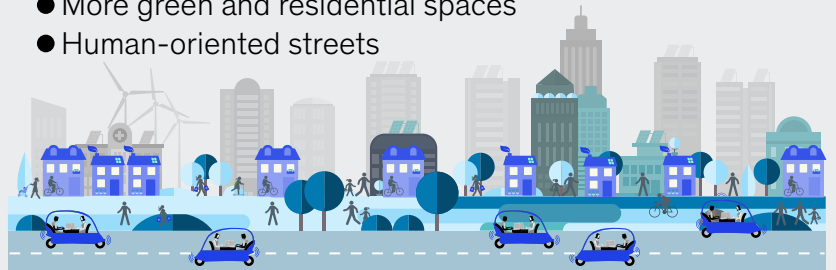
Unconstrained technology introduction

- Private autonomous vehicles (AVs) dominate
- Congestion increases 10%
- Sprawl hollows out urban core

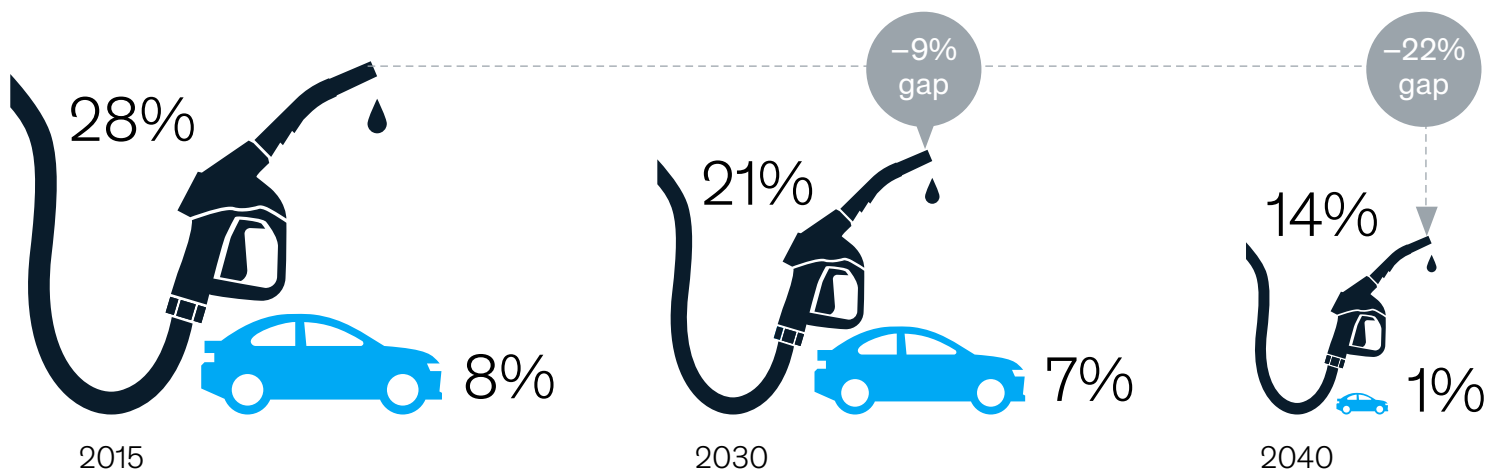


Guided system development

- Shared AVs dominate
- Congestion falls 20%
- More green and residential spaces
- Human-oriented streets



In US, mobility transitions will worsen existing road-funding gaps by 22% (~\$80 billion) by 2040, as revenue from fuel taxes and vehicle-related fees declines

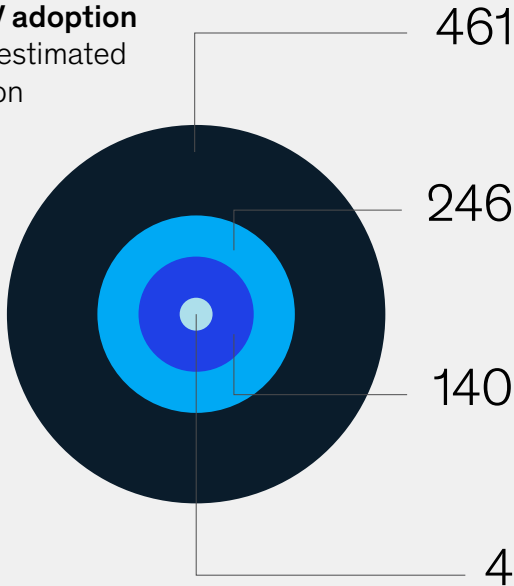


What steps must cities take to realize the full benefits of autonomous vehicles? (continued)

Full AV adoption represents ~\$850 billion annual opportunity in US, but active policy decisions must be made to capture full value

Estimated public-value creation of AV adoption in US, annual estimated benefit, \$ billion

851



Safety

Estimated safety costs based on avoidance of fatal and nonfatal accidents caused by human error



Real estate

Public-sector value of redevelopment of parking spaces into more productive commercial or residential property



Congestion

Savings come from decreased commute time recaptured as productive/leisure time



Environmental

Externalities of prevented environmental damage from reduced fuel usage

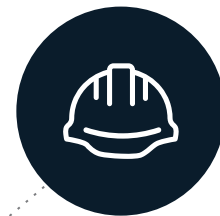
To capture full benefits of shared autonomous mobility, transportation authorities will need to consider action across five key areas



Integrating AVs with existing transit



Optimizing and redefining curb



Rethinking road construction and maintenance



Capital planning for an uncertain future



Redeveloping off-street parking