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

- **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

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