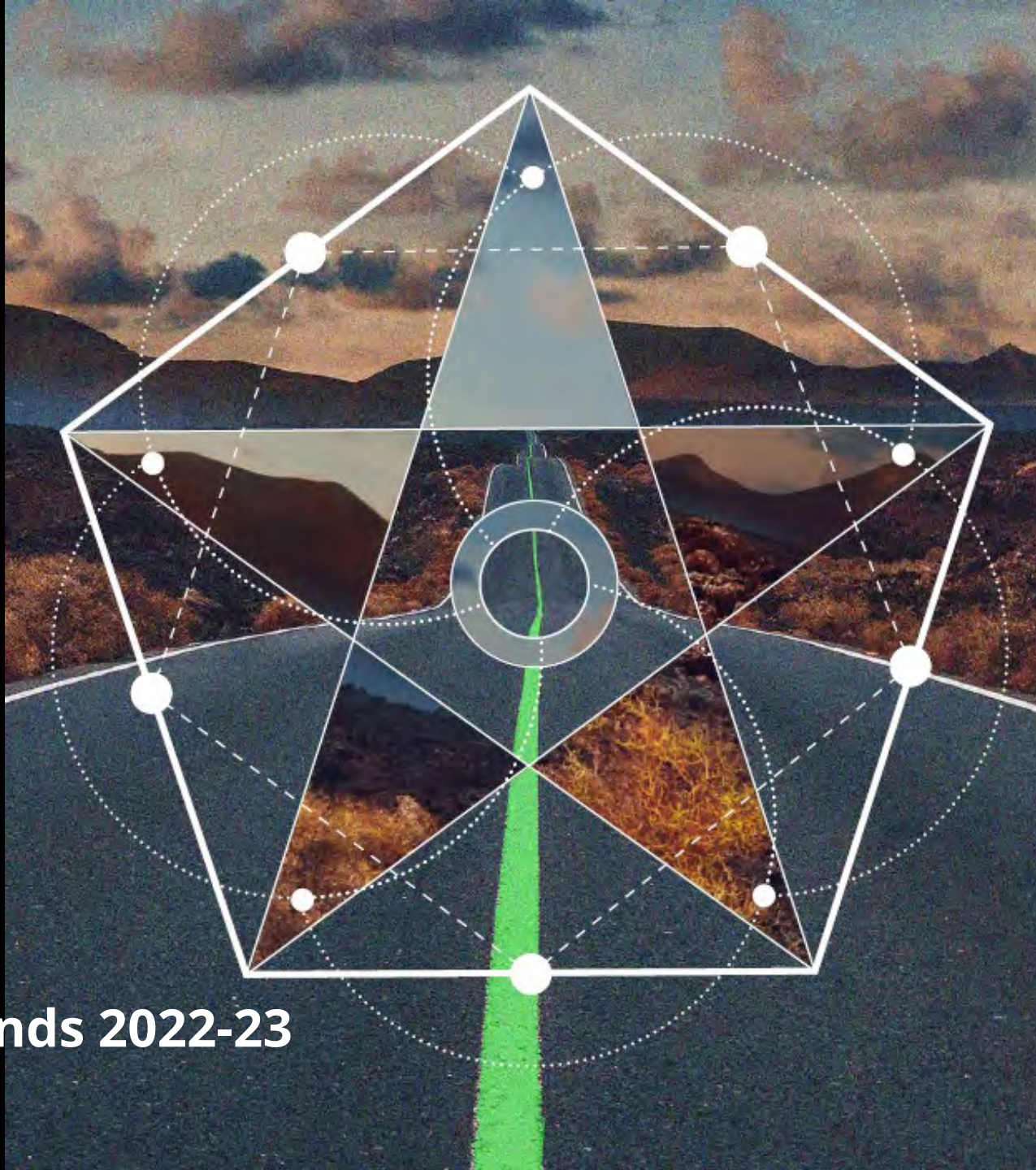


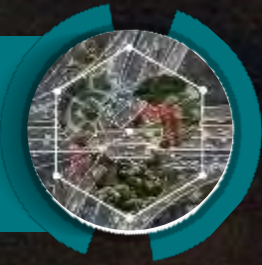
**Deloitte.**



**Transportation Trends 2022-23**

1

Creating a sustainable funding mechanism for America's transportation system



2

EVs usher in a generational shift in mobility



3

Modernizing America's transportation system in an inclusive, equitable way



4

Making America's transportation network more resilient



5

Turbocharging digital and technology innovation





For transportation agencies to gain widespread public acceptance and adoption of RUC programs requires action on multiple fronts

- Define the value proposition for stakeholder buy-in
- Adopt an approach highlighting how funding is obtained and how and where it's spent to build public trust
- Simplify the message, the complexity of the charge, the nature of the account management for RUC customers
- Simplify the operating cost of RUC for State finances



## TREND IN ACTION

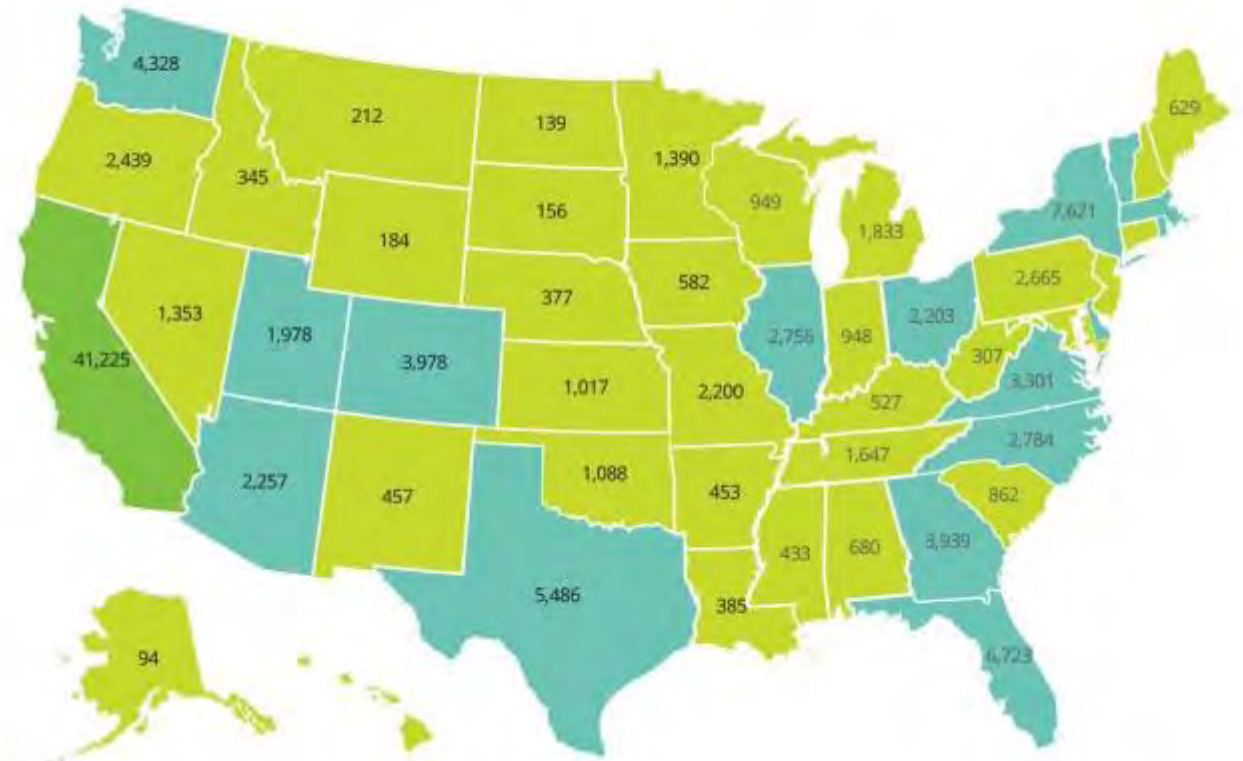


- **National Conference of State Legislators (NCSL)** effort to develop enabling legislation or a legislative toolkit to support **state-level adoption of RUC**
- California, Utah, and Oregon are considering **RUC and Tolling and RUC and DMV Integration** to streamline the customer experience
- **Washington State House Bill 1832** contemplates a voluntary RUC program with 2.5 cent per mile fee until 2025, and to become mandatory from 2030

## Trend 2. EVs usher in a generational shift in mobility

The move to electric transportation is a massive technological and cultural transformation. Public transportation agencies are dealing with enormous challenges to scaling EVs over the next decade.

The number of public and private charging outlets vary widely across the United States



Source: US Department of Energy.

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# Three important factors to expand and scale EV equitably over the next decade

- Solving the EV charging infrastructure problem
- Scaling the EV market equitably
- Addressing a potential talent crunch in the EV market



## TREND IN ACTION



**New York State's EV Make-Ready program** to expand its EV charging infrastructure



All light-duty vehicles sold, purchased, or registered in **State of Washington** must be EVs by model year 2030

**WA state agencies & local government shall use 100% biofuels or electricity to operate publicly owned vehicles**

**California's Clean Cars 4 All** program provides subsidies to low-income individuals and disadvantaged communities for EV purchases



**US federal government** launched the **Talent Pipeline Challenge** to develop the next generation of infrastructure workers

## Trend 3. Modernizing America's transportation system in an inclusive, equitable way

Over the last years, inequalities embedded in our transportation system have become clear, as has the important stabilizing role played by public transit agencies.

Tapping into the momentum of new federal initiatives, transportation leaders evolve a more equity-centered design approach to new investments and bring underserved and disadvantaged communities into the planning process.



# Transportation agencies need to make a sustainable post-COVID-19 recovery while meeting equity goals <sup>8</sup>

- A renewed focus on equity
- Equity-centered design
- Balance equity and innovation while encouraging modernization



## TREND IN ACTION



**California State Transportation Agency** is developing an equity index to measure transportation plans' impacts on various demographic groups



**Florida's Broward Metropolitan Planning Organization** is developing a process to evaluate its plans against Title VI and other federal and state nondiscrimination policies



**Dallas Area Rapid Transit** is partnering with private transportation companies to solve the first mile/last mile problem



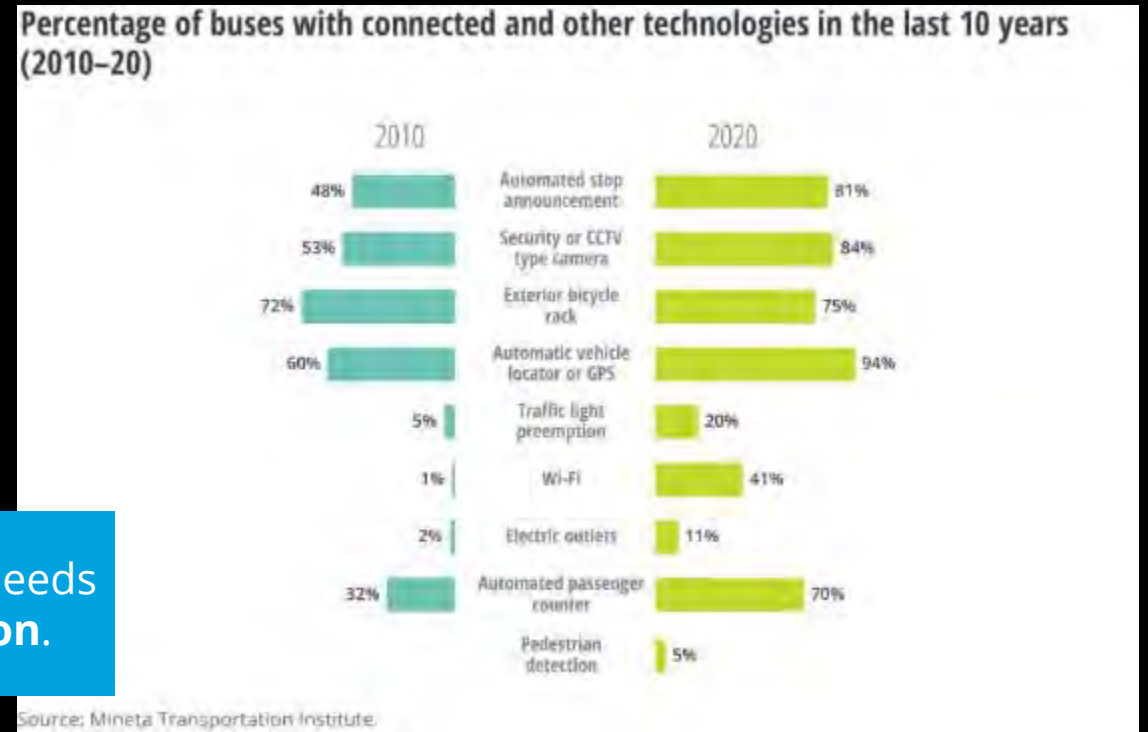
**WA Toll equity study** shows lower income households derive more economic benefit on a per trip basis than higher income households



# Trend 4. Making America's transportation network more resilient to cyber threats and climate change

Transportation system owners no longer can afford to consider cybersecurity as an afterthought. Transportation networks and systems are loaded with vital information which makes their websites, systems, and connected devices prime targets.

As infrastructure becomes increasingly connected cybersecurity needs to be **embedded right from the design stage to implementation.**



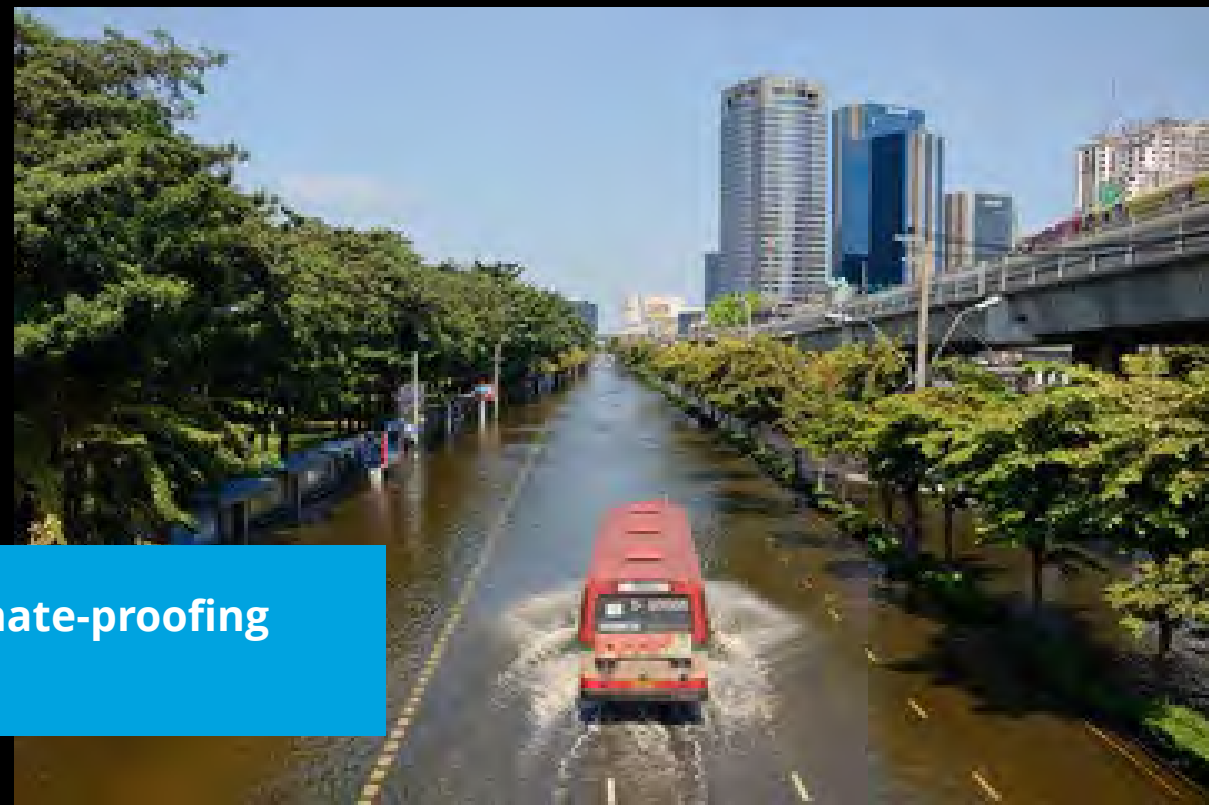
## TREND IN ACTION



**Pennsylvania Turnpike Commission's** multiyear modernization project to refurbish the mile-long **Tuscarora Mountain Tunnel** involved the design and security team working hand in hand from design to implementation.

# Climate resiliency

Increasing the resiliency of the transportation system will require significant innovations in infrastructure design and maintenance, coupled with a more data-driven approach to prioritizing investment decisions.



State and local agencies are making strides toward climate-proofing their infrastructure.

## TREND IN ACTION



**Washington state DOT** allocates Carbon Reduction Program funds to Metropolitan Planning Organizations for regional projects that align with reductions in transportation emissions

In **Washington State** a new class of priority uses for the highway right of way (ROW) will include infrastructure projects to address climate issues

**Virginia's SMART** Scale evaluates potential transportation projects based on multiple factors, including safety, congestion mitigation, accessibility, economic development, and environmental impacts

## Trend 5. Turbocharging digital and technology innovation

The pandemic turbocharged digital transformation efforts; new federal funding provides further impetus to technology experiments. Transportation agencies need to solve the age-old problem of scaling successful pilots by improving pilot design and building a better road map for scaling innovation



- Improving pilot design
- Executing and evaluating the pilot
- Scaling the innovation

### TREND IN ACTION



The **SMART grant program** under the IIJA, aims to help transportation agencies scale new innovative technology solutions



**JTA's Ultimate Urban Circulator** transforms the city's aging Skyway monorail circulator into an elevated roadway for autonomous vehicles

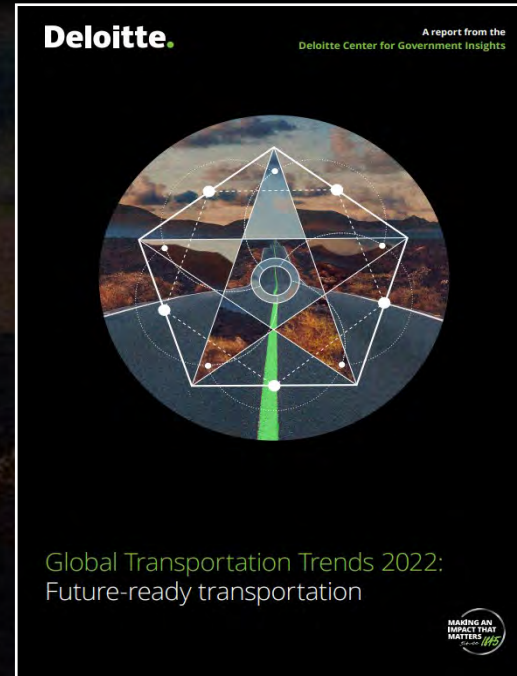


**FTE's SunTrax** is a state-of-the-art test track facility dedicated to the research, development, and testing of emerging transportation technologies

# For more information



[US Transportation Trends 2022-23](#)



[Global Transportation Trends 2022-23](#)



**Chris Tomlinson**

Managing Director

Deloitte National Transportation Practice

+1.678.238.2112

[christomlinson@deloitte.com](mailto:christomlinson@deloitte.com)



**Edward (Ted) Thomas**

Senior Manager

Deloitte National Transportation Practice

+1.202.669.9320

[edwathomas@deloitte.com](mailto:edwathomas@deloitte.com)