OUR OPPORTUNITY

SHRP2 GRANT

Exploratory scenario planning

Project evaluation and prioritization

Integrating freight into process
Policy Framework

- World Class Infrastructure
- Competitive Economy
- Healthy Livable Communities

Winning the Future
EXPLORATORY SCENARIO PLANNING is the future of planning at ARC
Today’s world is more complex, more interconnected, more interdependent, and has more variables at play than at any other time in our history.
Tomorrow’s world requires an adaptive planning process.
Identifying our Region’s Key Drivers of Change

Social
Technology
Economy
Environmental Policy

National Expert Review Process
Stakeholder Survey
ARC Board Work Session
# Key Drivers of Change for the Atlanta Region

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<th>Water Supply</th>
<th>Autonomous Vehicles</th>
<th>Climate Change Regulations</th>
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<td>Spatial, Racial, and Economic Equity</td>
<td>Port Traffic</td>
<td>Ridehailing/Carsharing</td>
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The Atlanta Region was one of five analyzed by an National Cooperative Highway Research Program (NCHRP) team about a decade ago. The scenarios considered disruptive socio-demographic changes on travel patterns and behavior.
Drivers Woven Together to Form Alternate Futures
Some connections are obvious

- Climate change regulations
- Water supply
- Intelligent infrastructure & technology
- Ridehailing services
Sometimes it requires a bit of thought

If the potential of autonomous vehicles matches the hype and they become commercially viable and readily available within the foreseeable future....
Sometimes it requires a bit of thought

Will older adults be early adopters of this new form of transportation which allows them to maintain their personal independence? Or will they be intimidated by the technology?
Would an autonomous vehicle fleet drive traditional transit services out of business? What would this mean for lower income individuals who cannot afford to buy access to the fleet?
Drivers Woven Together to Form Alternate Futures

FULL STEAM AHEAD

TECHNOLOGY REIGNS

GREEN GROWTH

FIerce HEADWIND
Telling a compelling story is essential.
Modeling the alternate futures
The pace of change is rapidly accelerating, and the future is hard to predict. We need to consider a wide range of transportation options to help us adapt to whatever the future may bring. Use this tool to explore your vision of 2050, and let the Atlanta Regional Commission know what you think is paramount to ‘win the future’.

Winning the future is not a game of chance.

LET’S GET STARTED
Personalized Alternate Futures

Transportation Finance Structure

Transportation agencies will need to focus almost exclusively on maintaining a state of good repair on existing roadways in order to support the operation of autonomous vehicles. Despite this, congestion will improve thanks to teleworking options and drone deliveries.

Roadway expansion will no longer a top priority, thanks to less sprawl and higher travel costs. Funding will be directed to operations and maintenance of existing roads and transit services, along with expanding walking and bicycling networks to enable short trips.

Most responsibilities of the federal transportation program will be turned over to the states and local governments to manage. Tight government and transit agency budgets will result in limited ability to expand capacity, and the lack of strong economic growth will make voters resist increase taxes for transportation.

Federal and state transportation revenues will stabilize, yet tolling of freeways and other major roadways become common practice as partnerships with the private sector become more common. The level of transportation spending will remain insufficient to keep pace with growth.
Personalized Alternate Futures

Winning the Future: Sharpening Our Focus

Your starting scenario: Create your own 2050 alternate future using the scenario you think is most likely to happen as the starting point. If you're interested in creating an alternate future from one of the other scenarios, just click on one of the other icons to the left.

Explore alternative scenarios

ARC has identified four variables that will shape the future of transportation in the region (Autonomous Vehicle Adoption, Congestion Charges, Roadway Expansion, and Transit Availability). Impacts from changes in these variables can be observed through key transportation performance measures (Vehicle Miles Traveled, Transit Trips, Walk/Bike Trips, Social Cost, Vehicle Operating Cost, and CO2 Emissions).

The starting settings for each of the four variables below reflect projected 2050 conditions for the scenario you believe is most likely to occur. Adjust the toggles for each of the variables below to see how the corresponding transportation performance measures change.
We want to win the future regardless of what form it takes.
WINNING THE FUTURE

SHARPENING OUR FOCUS
Comparing the Scenarios

- Annual Hours Delay/Capita
- CO2 Emissions/Capita
- Transit Ridership/Capita
- Vehicle Operating Cost/Capita

Scenarios:
- Full Steam Ahead
- Fierce Headwinds
- Technology Reigns
- Green Growth