

Beyond Fear: Public Views on Emerging Transportation Technologies





Dave Biggs

Chief Engagement Officer

MetroQuest



Agenda

Emerging technologies impacting transportation planning

Introducing the NCDOT Public Involvement Team

More lessons in public attitudes

Q&A

20 years of best practices research



Association of
Metropolitan
Planning
Organizations



Federal Transit
Administration

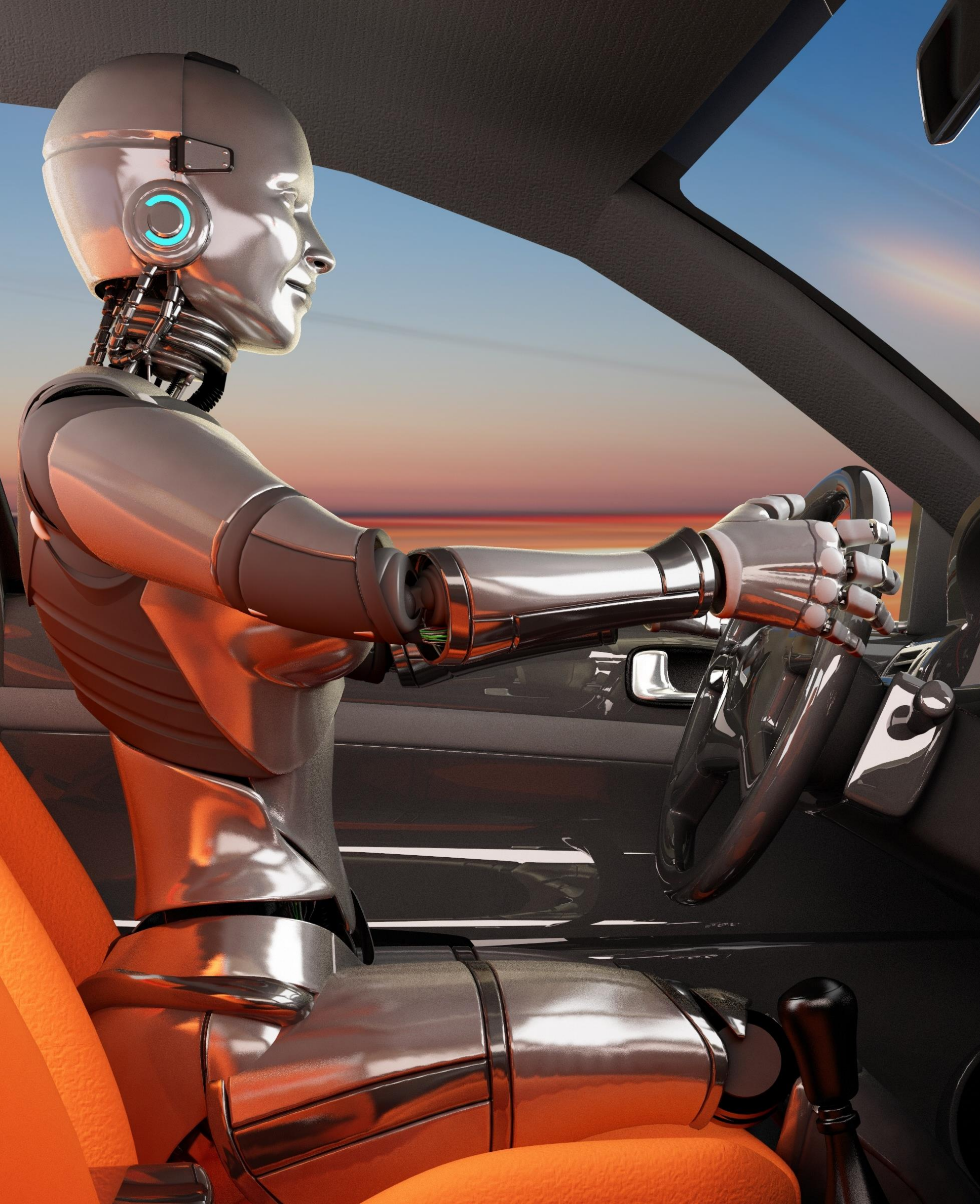


NCHRP NATIONAL
COOPERATIVE
HIGHWAY
RESEARCH
PROGRAM





WARNING
Technology
Coming!



Our transportation future ...

Autonomous / self-driving vehicles

Electric vehicles

Water-fueled cars

Shared mobility

Smart / connected cars

Next-gen GPS devices

Hyperloop / high-speed rail networks

String theory transportation

Gyroscopic vehicles



Benefits of innovation ...

Improved safety

Zero emissions

Reduced traffic

Shorter commutes

Reduced costs

Improved performance

Always connected

Thriving economy



UBER'S SELF-DRIVING CAR SAW THE WOMAN IT KILLED, REPORT SAYS



The National Transportation Safety Board says Uber's self-driving car had trouble identifying Elaine Herzberg as a human, and that it couldn't hit the brakes to avoid hitting her.

TRIPPLAAR KRISTOFFER/SIPA VIA AP IMAGES

Public fears ...

Technology failures

Accidents

Inequality of access

Increased congestion

Higher costs

Technology hacking

Loss of jobs



Planning our future together ...





Public
Involvement
Success at
NCDOT!



Jamille Robbins
Public Involvement Group Leader
NCDOT



Nastasha Earle-Young
Statewide Initiatives Engineer III
NCDOT



Colin Mellor
Environmental Policy Advisor
NCDOT





NORTH CAROLINA

Department of Transportation

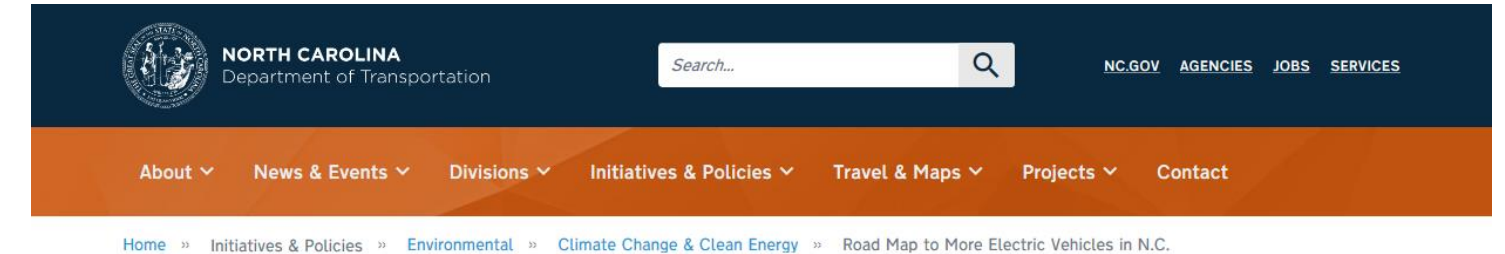


Beyond Fear:
Public Views on Emerging Transportation Technologies
Jamille Robbins, Colin Mellor & Nastasha Earle-Young
July 2019

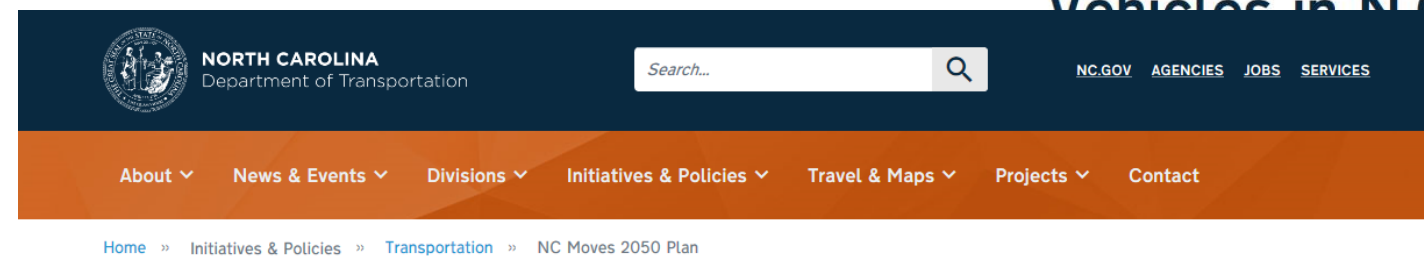
Initiatives

- Zero Emission Vehicle (ZEV)

- NC Moves 2050



Road Map to More Electric Vehicles in N.C.



NC Moves 2050 Plan

The graphic features a collage of images showing a person on a bicycle, a train, a truck, a boat, and a car. To the right, the text reads: 'Shaping North Carolina's Transportation Future'. Below this, it states: 'The N.C. Department of Transportation is updating its long-range transportation plan to help guide North Carolina's future transportation policies and investments. Called NC Moves 2050, the plan provides a 30-year transportation blueprint for the state.' At the bottom right, there is a '#NCMOVES' hashtag and the website 'ncdot.gov/ncmoves', along with a 'Learn More' button.



achieve the goal set forth in the executive

ltidisciplinary team

- Initiatives & Policies
- Adopt-A-Highway
- Climate Change & Clean Energy
- Road Map to More Electric Vehicles in N.C.
- Litter Management
- Reducing Noise Pollution
- Roadside Beautification
- Sponsor-A-Highway
- Stormwater Management
- Vegetation Management
- Wildflower Program

Understanding N.C.'s Drivers & Opportunities

Explore the possible changes and uncertainties that could affect North Carolina's future and how we need to prepare for them.

Learn More →

Outreach Goals

- Establish early and continuous public participation
- Provide reasonable public access to educational, technical, and policy information
- Promote an open, inclusive and transparent public involvement process

Outreach Goals

- Provide adequate public notice of all public involvement activities
- Implement measures for seeking input from and considering the needs of those traditionally underserved
- Reach the broadest audience possible and effectively gather feedback

Outreach Marketing

- Advertising Methods
 - Electronic Toolkit
 - Educational Videos
 - Traditional Media
 - Paid Ads
 - Social Media Ads
 - Next Door
 - State Agency Networks
 - Transportation Planning Division Newsletter
 - Webpage

Outreach Marketing

3. Rate each of the following possible concerns based on whether you agree or disagree with the statement by circling the number. The number '1' indicates "Strongly Disagree," and '5' indicates "Strongly Agree." If you feel neutral, circle '3'.

Innovative: Future Led by Technology					Renewed: Future Led by Community Investment								
Strongly Disagree	1	2	3	4	5	Strongly Agree	Strongly Disagree	1	2	3	4	5	Strongly Agree
1	2	3	4	5	Computers running the system could fail, causing more accidents or unreliable service.	1	2	3	4	5	Small towns will grow too fast and transportation needs won't keep up.		
1	2	3	4	5	Jobs replaced by machines will reduce the number of lower-paying jobs.	1	2	3	4	5	Funding will not be even across the state and transportation needs will not be met.		
1	2	3	4	5	Access to technology will not be even across North Carolina.	1	2	3	4	5	It will be harder to travel because of more traffic.		
Globally Connected: Future Led by a Growing Economy					Unstable: Future Led by Uncertainties								
1	2	3	4	5	Older workers will find it more difficult to develop new technical skills.	1	2	3	4	5	Transportation costs will be more expensive.		
1	2	3	4	5	Goods will not move efficiently across the state and will increase transportation costs.	1	2	3	4	5	Traveling from home to work will be less reliable.		
1	2	3	4	5	The rural workforce will find it more difficult to travel to their jobs.	1	2	3	4	5	North Carolina will fall behind other states in providing new travel options.		
1	2	3	4	5	Traffic will increase within urban areas and on truck routes.	1	2	3	4	5	Economies will decline in areas of North Carolina facing flooding and other risks.		

The following questions are voluntary. You are not required to provide the information requested below to participate in this survey.

What is your age? <input type="checkbox"/> Less than 18 <input type="checkbox"/> 18 - 29 <input type="checkbox"/> 30 - 44 <input type="checkbox"/> 45 - 64 <input type="checkbox"/> 65 or older	What is your total household income? <input type="checkbox"/> Less than \$12,000 <input type="checkbox"/> \$47,000 - \$69,999 <input type="checkbox"/> \$12,000 - \$19,999 <input type="checkbox"/> \$70,000 - \$93,999 <input type="checkbox"/> \$20,000 - \$30,999 <input type="checkbox"/> \$94,000 - \$117,999 <input type="checkbox"/> \$31,000 - \$46,999 <input type="checkbox"/> \$118,000 or greater
How well do you speak English? <input type="checkbox"/> Very Well <input type="checkbox"/> Well <input type="checkbox"/> Okay <input type="checkbox"/> Very Little <input type="checkbox"/> Not at All	What is your race/ethnicity? <input type="checkbox"/> White <input type="checkbox"/> Black / African American <input type="checkbox"/> Asian <input type="checkbox"/> American Indian / Alaskan Native <input type="checkbox"/> Native Hawaiian / Pacific Islander <input type="checkbox"/> Hispanic / Latino <input type="checkbox"/> Other

We thank you for participating in this survey. Your input will help shape future investments for transportation in North Carolina.

NC Moves 2050 is a strategic transportation plan connecting communities across North Carolina, focused on creating a more responsive, diverse and inclusive transportation system for keeping people and freight moving safely and efficiently.

NC MOVES
CONNECTING YOUR COMMUNITY,
YOUR VOICE AND YOUR FUTURE

Help the N.C. Department of Transportation develop proactive strategies to prepare for changes that will impact transportation. Fill out the survey provided or online at ncmoves.metroquest.com by May 17, 2019 to help shape the future.

There are many options for what the future could look like. Some possible options of North Carolina's future are:

- A future where technology changes the growth and economy of North Carolina. This will lead to an environmentally friendly and affordable transportation system for all types of travel.
- A future where North Carolina's economy is growing in manufacturing, technology and jobs. North Carolina becomes a leader for attracting a skilled workforce and is well connected to national and global economies.
- A future where economic growth has slowed while the population has aged in rural communities. A focus on transportation infrastructure is critical in connecting people in these areas to the services they need.
- A future where economic growth has slowed, extreme weather events cause delays and travel conditions are less reliable. This leads to funding uncertainties and a state focus on risk management.

WHAT DO YOU THINK THE FUTURE WILL LOOK LIKE IN 2050?

LET US KNOW WHAT YOU THINK.



NCMOVES.METROQUEST.COM

BE A PART OF THE FUTURE!

#NCMOVES    



Initiatives

N.C. ZEV PLAN SURVEY

Progress

WELCOME

N.C. Clean Energy

North Carolina Is Going Electric!
North Carolina is committed to getting 80,000 Zero Emission Vehicles (ZEVs or all-electric vehicles) on the road by 2025. What will it take for **YOU** to drive an all-electric vehicle?

N.C.'s Commitment

2 PRIORITY RANKING
3 MAP MARKERS
4 SURVEY QUESTIONS
5 WRAP UP

North Carolina has joined more than 20 other states as part of the U.S. Climate Alliance which seeks to greatly reduce carbon emissions by 2025. By participating in this short survey, you can help North Carolina make this goal a reality.

Data points for this Site:

Participants: **1062**

All data points: **24017**

All comments: **1668**

NC Moves 2050

Progress

WELCOME

NC Moves 2050 Possible Futures

We Want Your Input!
Help NCDOT prioritize its future investments and decisions. Your feedback will help identify what the future of transportation in North Carolina will look like.

2 FUTURE NEEDS
3 POTENTIAL BENEFITS
4 POTENTIAL CONCERNS
5 WRAP UP

There are many options for what the future could look like. Some possible options of North Carolina's future are...

Data points for this Site:

Participants: **10083**

All data points: **325415**

All comments: **930**

NCDOT ZEV Plan



ZEV Outreach

1 N.C. Clean Energy

WELCOME

North Carolina Is Going Electric!

North Carolina is committed to getting 80,000 Zero Emission Vehicles (ZEVs or all-electric vehicles) on the road by 2025. What will it take for **YOU** to drive an all-electric vehicle?

N.C.'s Commitment

Español

Begin

As recent weather events have grown more frequent and more destructive, North Carolina is becoming more aware of the need to reduce carbon emissions and move toward cleaner energy. Driving an all-electric vehicle helps us meet these goals.



ZEV Outreach

- 1: WELCOME
- 2: PRIORITY R...
- 3: MAP MARKE...
- 4: SURVEY QU...
- 5: WRAP UP

ALL

Traffic Dashboard.

Total Participants

Apr 2019 May 2019

1062

Participants

Participants by Date

Apr 2019 May 2019

Web

616

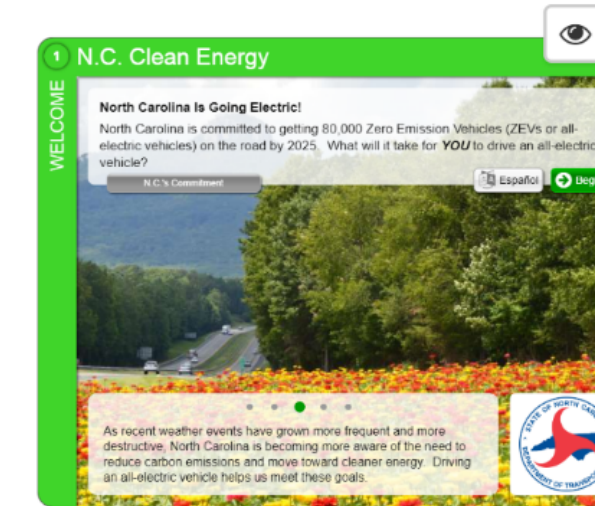
Mobile

446

* Participants are visitors who submitted data

[Data Center Introduction](#)

1: WELCOME



Type: Welcome Screen

Data points for this Site:

Participants: **1062**

All data points: **24017**

All comments: **1668**

ZEV Outreach

2 To Drive Electric I need...

PRIORITY RANKING

Order your top 5
↑ items above this line ↑

Cost = Current car + \$2K

Charging spot at work

Tax break / Cash rebate

More charging stations

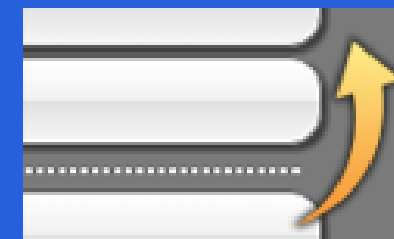
Charging spot at home

I need a Phone App

Better range per charge

Cost = Current car + \$5K

Rank, from most important to least important, the Top 5 priorities that would help you decide to buy an electric vehicle.

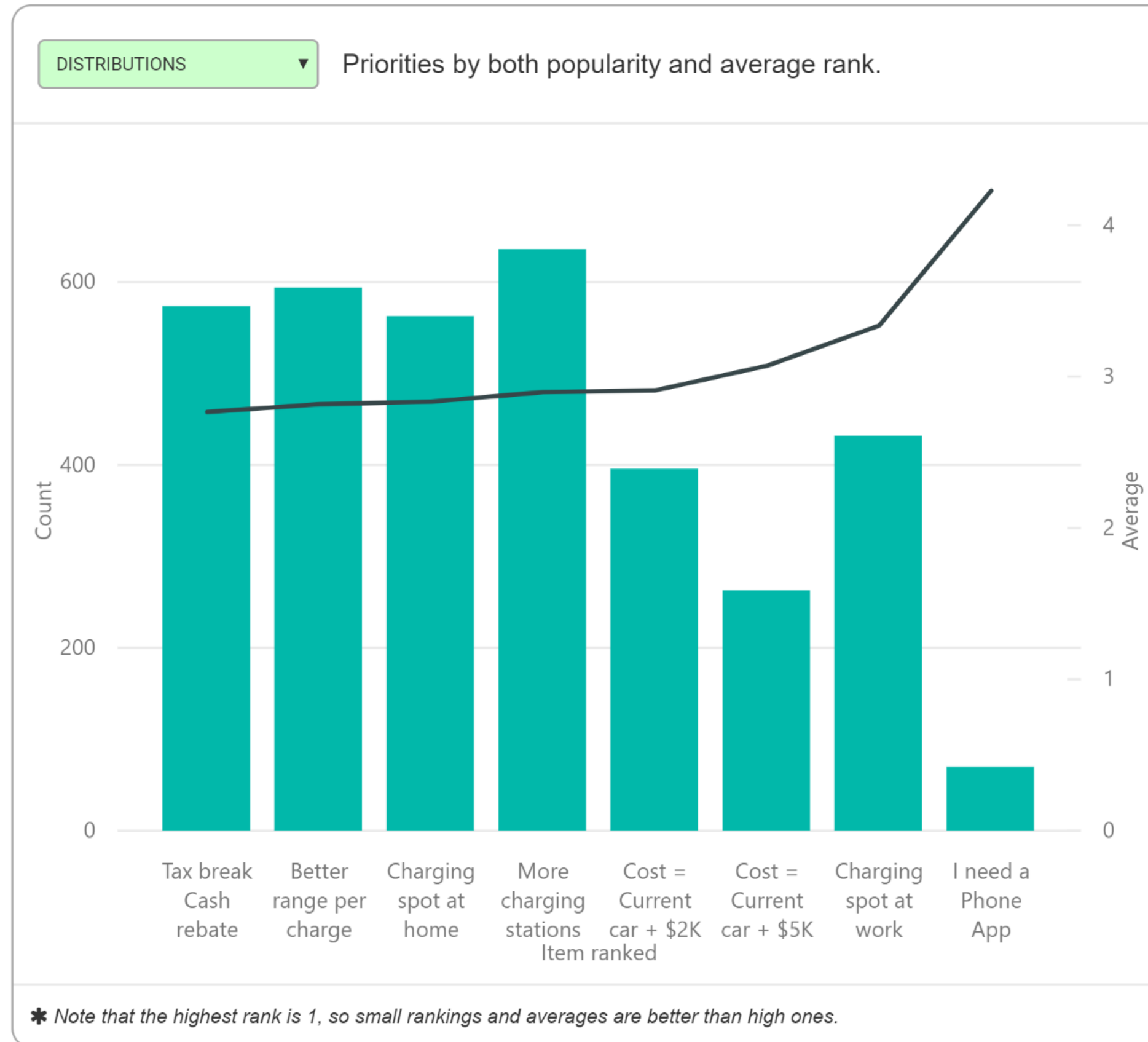


Please drag 5 of the items above the line in your preferred order.

 Suggest another

ZEV Outreach

- 1: WELCOME
- 2: PRIORITY R...
- 3: MAP MARKE...
- 4: SURVEY QU...
- 5: WRAP UP



[Data Center Introduction](#)

2: PRIORITY RANKING



Type: Priority Ranking Screen

Data points for this Screen:

Rankings: **3528**

Comments: **197**

ZEV Outreach

3 Where Would You Charge?

MAP MARKERS

Please drag and drop at least 3 markers on the map.



Home



Work



School



Shopping



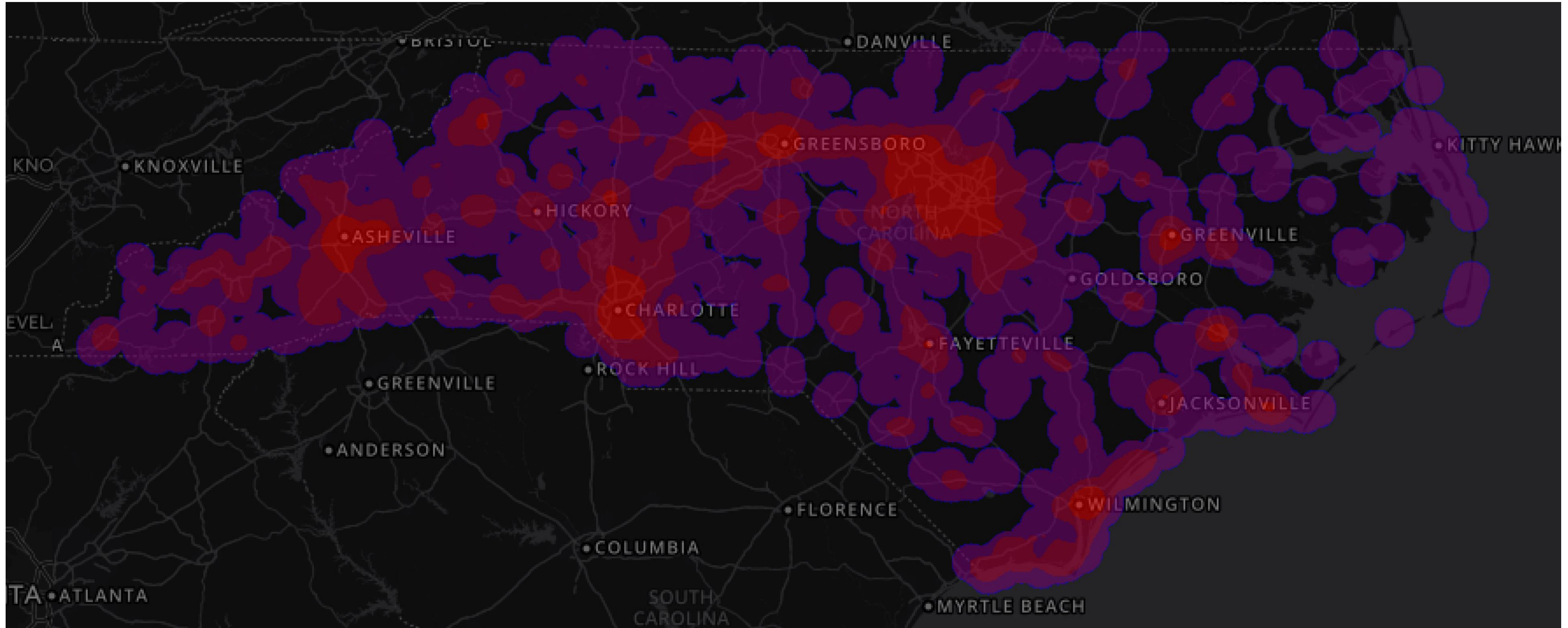
Gym / Fitness



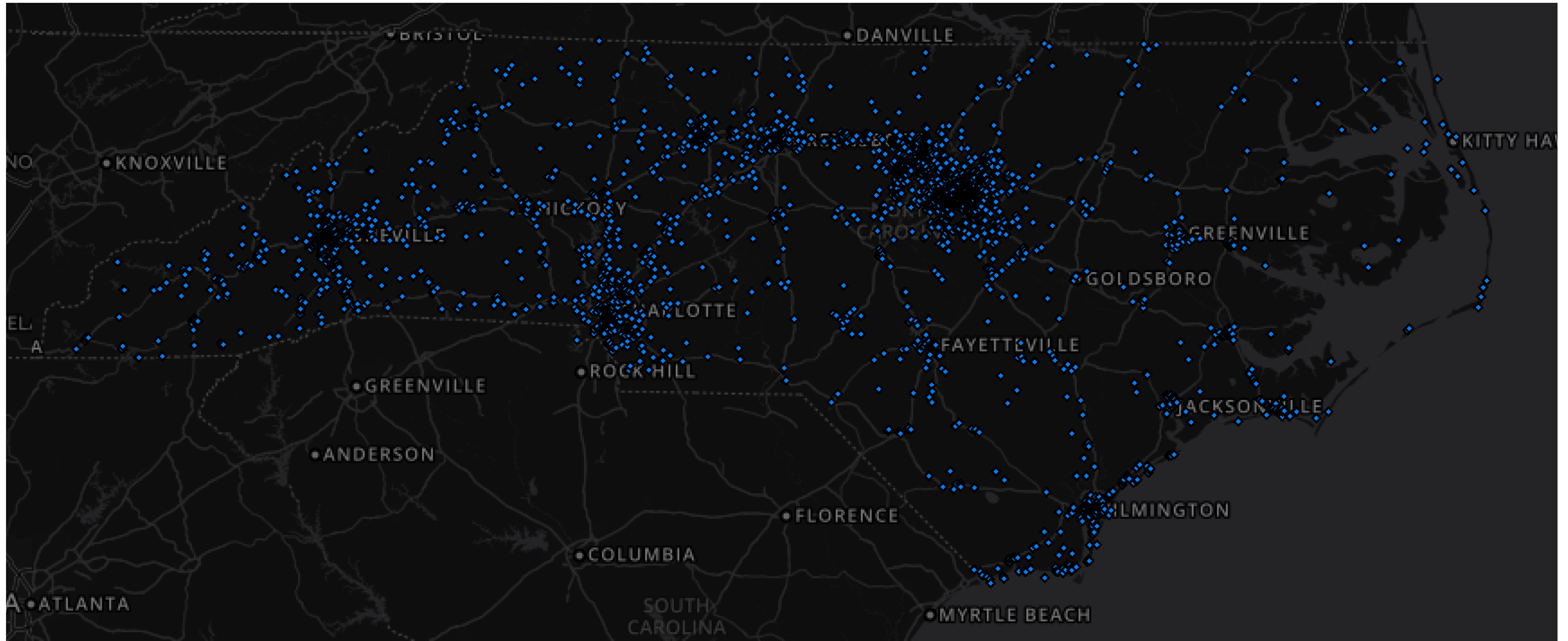
Other



ZEV Outreach



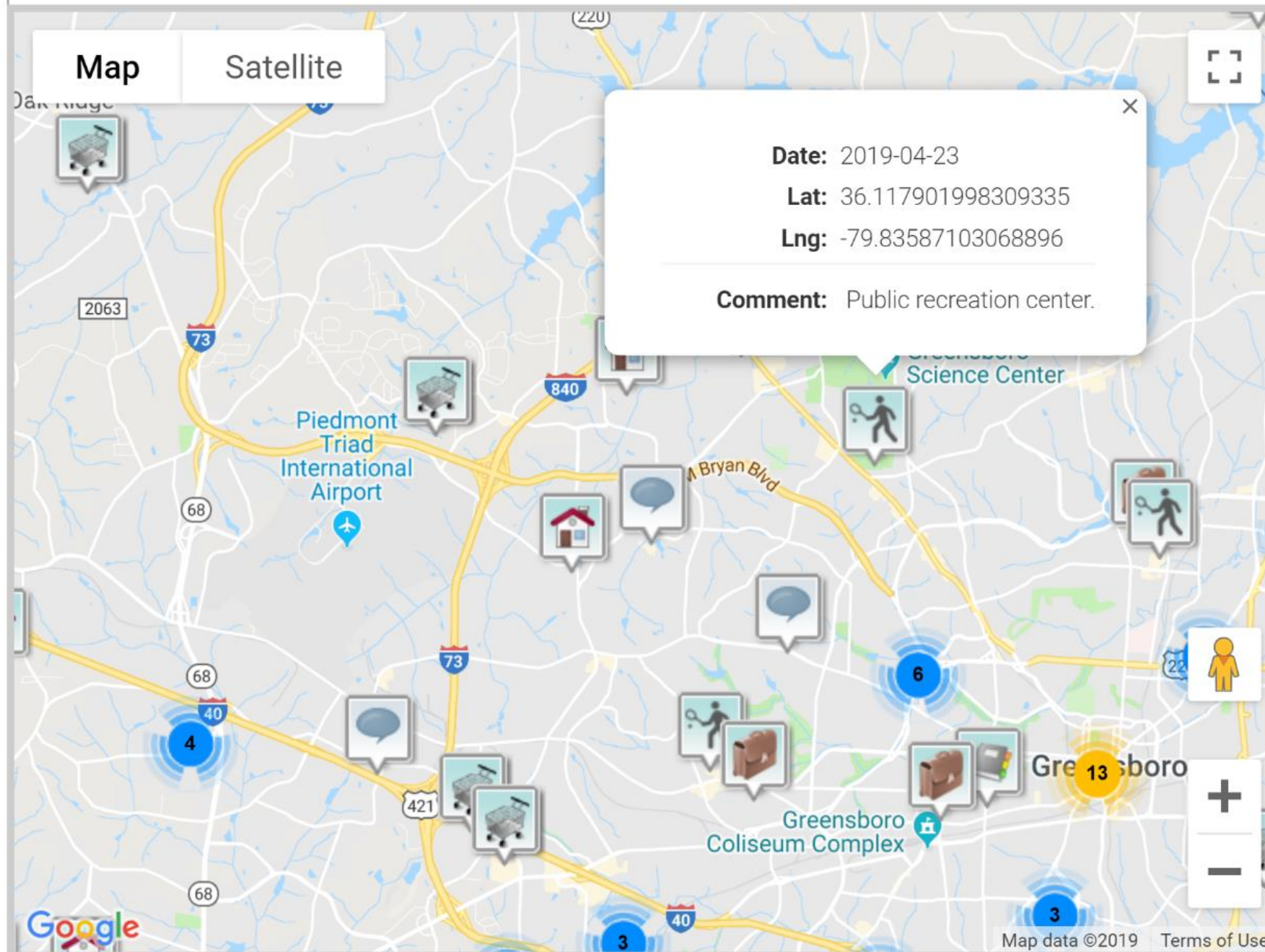
ZEV Outreach



ZEV Outreach

- 1: WELCOME
- 2: PRIORITY R...
- 3: MAP MARKE...
- 4: SURVEY QU...
- 5: WRAP UP

MAP MARKERS A map showing the distribution of map markers by type.

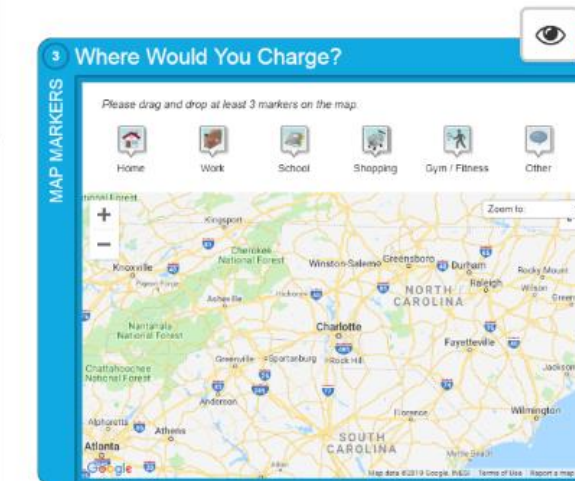


- Home
- Work
- School
- Shopping
- Gym / Fitness
- Other

Map Styles
MetroQuest Icons

Data Center Introduction

3: MAP MARKERS

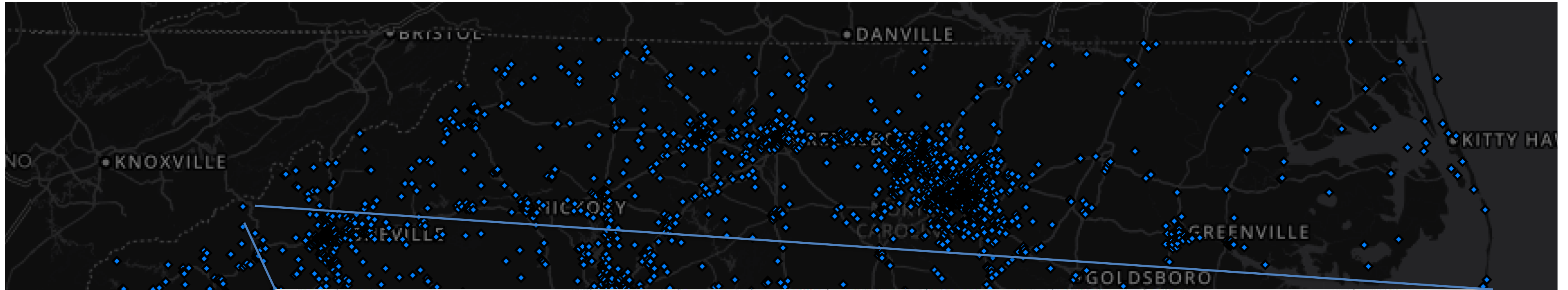


Type: Map Marker Screen

Data points for this Screen:

- Markers: 3385
- Marker attributes: 12683
- Comments: 1056

ZEV Outreach



Session	Question	Answer	Your Age	Gender id	In Which Cour	When do you plan	Which descri	Variable	VariableGroup
3424529	How concerned are you about climate change I am very concerned	I am very concerned	61 to 80	Male	Haywood	13 years from now	100000 149000	S4_P1_T0_Q2_Climate_Change_2	S4_P1_T0_Climate Chan
3424529	What is your daily commute oneway from home Over 20 miles	Over 20 miles	61 to 80	Male	Haywood	13 years from now	100000 149000	S4_P2_T0_Q1_Daily_Commute_1	S4_P2_T0_Daily Commu
3424529	How many miles do you drive on an average 50 more miles	50 more miles	61 to 80	Male	Haywood	13 years from now	100000 149000	S4_P2_T0_Q2_Daily_Commute_2	S4_P2_T0_Daily Commu
3424529	Q1 Climate Change 1 O1 Use LED bulbs at	checked	61 to 80	Male	Haywood	13 years from now	100000 149000	S4_P1_T0_Q1_Climate_Change_1_O1	S4_P1_T0_Climate Chan
3424529	Q1 GetAround 1 O1 Electric scooter	checked	61 to 80	Male	Haywood	13 years from now	100000 149000	S4_P3_T0_Q1_GetAround_1_O1_Elec	S4_P3_T0_GetAroundOt
3426764	Q1 GetAround 1 O8 Bike lanes	checked	41 to 60	Male	Buncombe	In less than a year	55000 74000	S4_P3_T0_Q1_GetAround_1_O8_Bike	S4_P3_T0_GetAroundOt
3426764	Q1 EV 1 O1 Work	checked	41 to 60	Male	Buncombe	In less than a year	55000 74000	S4_P4_T0_Q1_EV_1_O1_Work	S4_P4_T0_EVAllelectric
3426764	Q2 EV 2 O1 TaxCredit	checked	41 to 60	Male	Buncombe	In less than a year	55000 74000	S4_P4_T0_Q2_EV_2_O1_TaxCredit	S4_P4_T0_EVAllelectric
3426764	Q1 GetAround 1 O7 Pedestrianfriendly sidewalk	checked	41 to 60	Male	Buncombe	In less than a year	55000 74000	S4_P3_T0_Q1_GetAround_1_O7_Ped	S4_P3_T0_GetAroundOt
3426764	Q1 Climate Change 1 O1 Use LED bulbs at	checked	41 to 60	Male	Buncombe	In less than a year	55000 74000	S4_P1_T0_Q1_Climate_Change_1_O1	S4_P1_T0_Climate Chan
3426764	What is your daily commute oneway from home 11 19 miles	11 19 miles	41 to 60	Male	Buncombe	In less than a year	55000 74000	S4_P2_T0_Q1_Daily_Commute_1	S4_P2_T0_Daily Commu
3426764	How many miles do you drive on an average 11 19 miles	11 19 miles	41 to 60	Male	Buncombe	In less than a year	55000 74000	S4_P2_T0_Q2_Daily_Commute_2	S4_P2_T0_Daily Commu
3426764	How concerned are you about climate change I am very concerned	I am very concerned	41 to 60	Male	Buncombe	In less than a year	55000 74000	S4_P1_T0_Q2_Climate_Change_2	S4_P1_T0_Climate Chan
3426775	Q2 EV 2 O1 TaxCredit	checked	26 to 40	Male	Henderson	13 years from now	100000 149000	S4_P4_T0_Q2_EV_2_O1_TaxCredit	S4_P4_T0_EVAllelectric
3426775	Q2 EV 2 O2 Rebate	checked	26 to 40	Male	Henderson	13 years from now	100000 149000	S4_P4_T0_Q2_EV_2_O2_Rebate	S4_P4_T0_EVAllelectric
3426775	Q1 GetAround 1 O7 Pedestrianfriendly sidewalk	checked	26 to 40	Male	Henderson	13 years from now	100000 149000	S4_P3_T0_Q1_GetAround_1_O7_Ped	S4_P3_T0_GetAroundOt
3426775	Q1 GetAround 1 O1 Electric scooter	checked	26 to 40	Male	Henderson	13 years from now	100000 149000	S4_P3_T0_Q1_GetAround_1_O1_Elec	S4_P3_T0_GetAroundOt
3426775	Q1 Climate Change 1 O1 Use LED bulbs at	checked	26 to 40	Male	Henderson	13 years from now	100000 149000	S4_P1_T0_Q1_Climate_Change_1_O1	S4_P1_T0_Climate Chan
3426775	How many miles do you drive on an average 11 19 miles	11 19 miles	26 to 40	Male	Henderson	13 years from now	100000 149000	S4_P2_T0_Q2_Daily_Commute_2	S4_P2_T0_Daily Commu
3426775	What is your daily commute oneway from home Under 5 miles	Under 5 miles	26 to 40	Male	Henderson	13 years from now	100000 149000	S4_P2_T0_Q1_Daily_Commute_1	S4_P2_T0_Daily Commu
3426775	How concerned are you about climate change I am very concerned	I am very concerned	26 to 40	Male	Henderson	13 years from now	100000 149000	S4_P1_T0_Q2_Climate_Change_2	S4_P1_T0_Climate Chan
3426775	How concerned are you about climate change I am very concerned	I am very concerned	61 to 80	Male	Iredell	46 years from now	100000 149000	S4_P1_T0_Q2_Climate_Change_2	S4_P1_T0_Climate Chan

ZEV Outreach

4 SURVEY

SURVEY QUESTIONS

- Climate Change
- Daily Commute
- Other ways to get around
- All-electric vehicles

Climate Change

Which of the following do you regularly practice or intend to practice to reduce carbon emissions? (You may choose more than one selection).

- Use LED bulbs at home
- Use other modes of transportation (transit, bike, walk, ride-share)
- Recycle
- Manage thermostat settings
- Use reusable grocery bags
- Use reusable drink bottles
- Drive a hybrid
- Drive all-electric

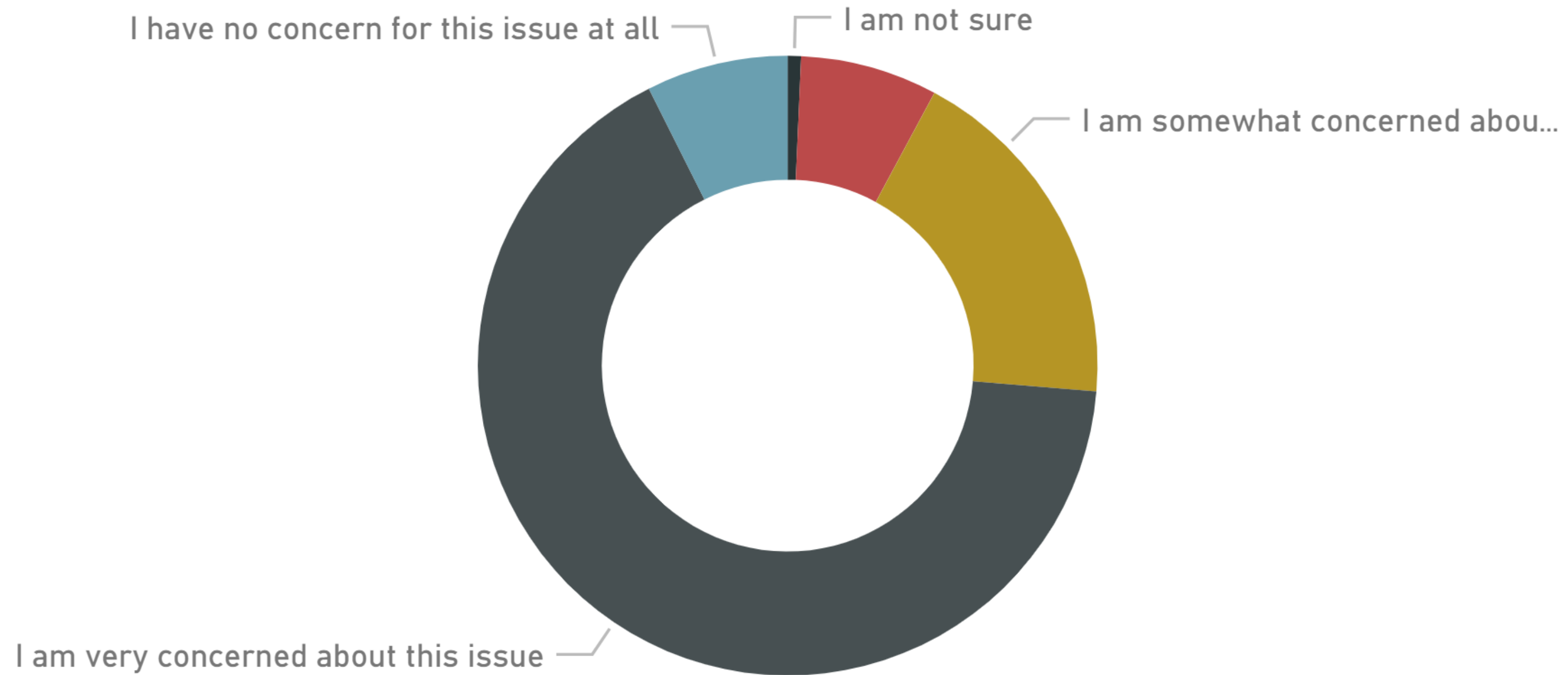
How concerned are you about climate change?

Select... ▾

Next

ZEV Outreach

How concerned are you about climate change?



ZEV Outreach

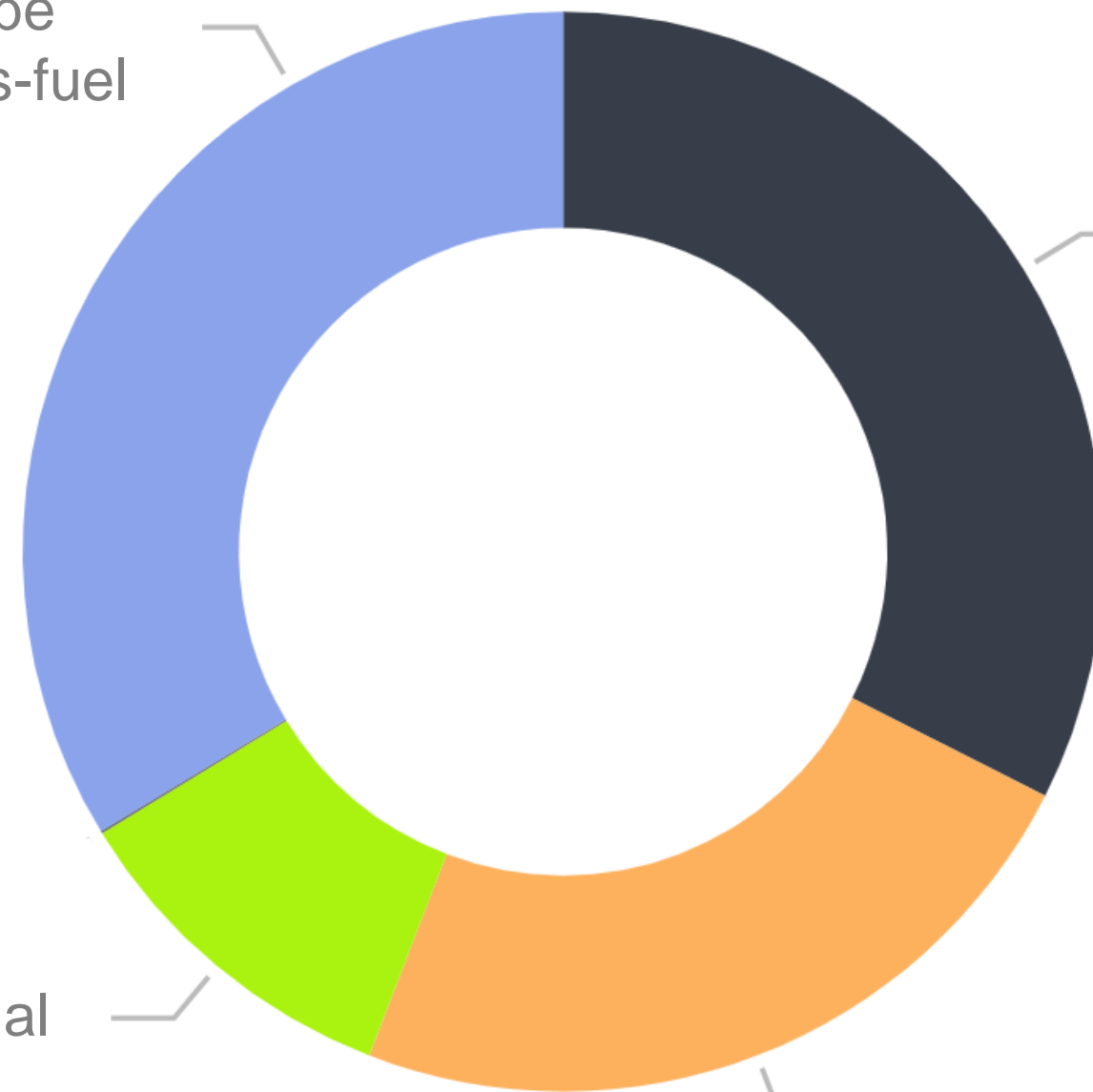
Which are necessary for you to be comfortable switching to an all-electric (ZEV) vehicle?

The cost per mile would have to be equal to or less than that of a gas-fuel car (cost of fuel + maintenance)

I would require a tax credit

I am not concerned about the cost differential between all-electric and gas vehicles

I would need a manufacturer's rebate





NC MOVES **2019**

CONNECTING YOUR COMMUNITY,
YOUR VOICE AND YOUR FUTURE

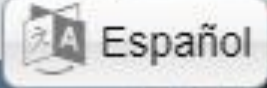

NC Moves 2050 Plan Outreach

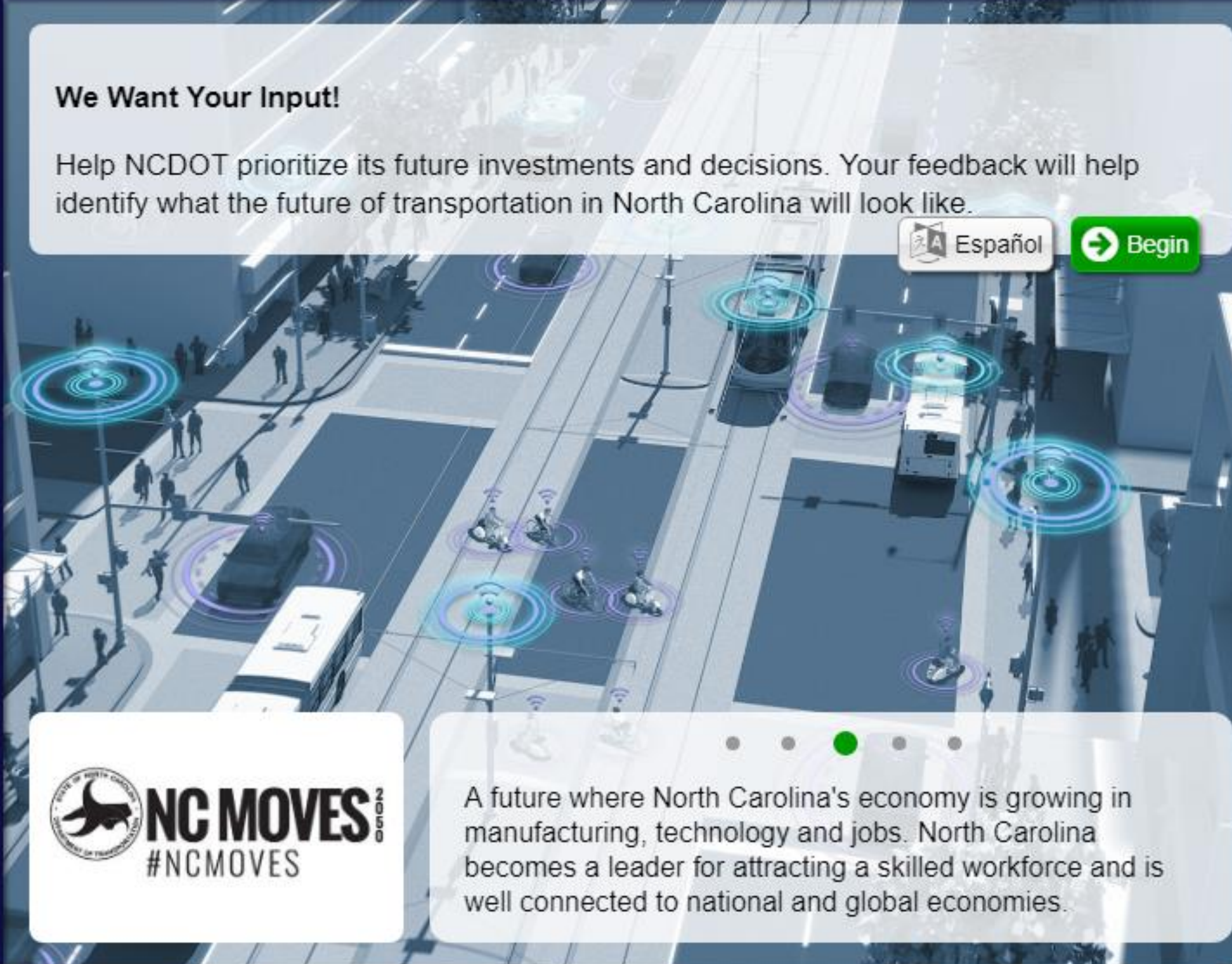
1 NC Moves 2050 Possible Futures


WELCOME

We Want Your Input!

Help NCDOT prioritize its future investments and decisions. Your feedback will help identify what the future of transportation in North Carolina will look like.



 **NC MOVES** 2050
#NCMOVES

A future where North Carolina's economy is growing in manufacturing, technology and jobs. North Carolina becomes a leader for attracting a skilled workforce and is well connected to national and global economies.

NC Moves 2050 Plan Outreach

2 Future Transportation Needs

FUTURE NEEDS

Order your top 5
↑ items above this line ↑

High-Speed Internet

Core Industry Access

Knowledge-Based Workforce

Rural Development

Weather Preparedness

Self-Driving Cars

Connecting Seniors

Goods Delivery

Let us know which outcomes are the most important to North Carolina's future in 2050. Click on each outcome to learn more about them before ranking them in order of priority.



Please drag 5 of the items above the line in your preferred order.

 Suggest another


NC Moves 2050 Plan Outreach

3 Future Transportation Benefits

POTENTIAL BENEFITS

- INNOVATIVE
- GLOBALLY CONNECTED
- RENEWED
- UNSTABLE

Future Led by Technology
[More about this](#)



Technology will provide more travel options. ★★★★★

Technology will allow for cheaper travel options. ★★★★★

Technology will enable safer travel options. ★★★★★

Technology will help create a cleaner environment. ★★★★★


[Suggest another](#) [Next Category](#)

NC Moves 2050 Plan Outreach

4 Future Transportation Concerns

POTENTIAL CONCERNS

- INNOVATIVE
- GLOBALLY CONNECTED
- RENEWED
- UNSTABLE



Future Led by Technology
[More about this](#)

Computers running the system could fail, causing more accidents or unreliable service. ★★★★★

Jobs replaced by machines will reduce the number of lower-paying jobs. ★★★★★

Access to technology will not be even across North Carolina. ★★★★★

[Suggest another](#) [Next Category](#)

NC Moves 2050 Plan Outreach

5 Wrap Up

WRAP UP

Final Questions (Optional)

Zip code?

Age?

Total Household Income?

Race/Ethnicity?


How well do you speak English?

Gender?

Thank You!

We thank you for participating in this survey. Your input will help shape future investments for transportation in North Carolina.

To learn more about the NC Moves 2050 Plan visit ncdot.gov/ncmoves



NC MOVES 2050
CONNECTING YOUR COMMUNITY,
YOUR VOICE AND YOUR FUTURE

Plan Development: Phase II Engagement Accomplishments



Outreach

- Attended
 - 7 college events
 - 9 conferences
 - 6 DMV events
 - 10 festivals
- Emailed 7,829 stakeholders
- Sent surveys to 15 county schools
- Placed 31 intercept survey boxes



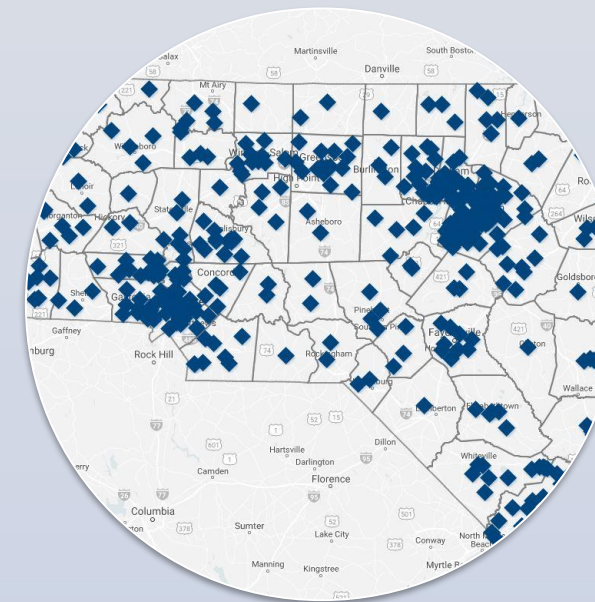
Survey #2

- 10,100 participants
- 7,220 took survey on website
- 2,880 took survey on phone
- 14,754 visitors on website
- 325,902 data points
- 929 comments



Table Topics

- 18 Conversations held
- Over 100 participants engaged
- 59% participants ages 18-29
- 25% African American
- 7% Hispanic

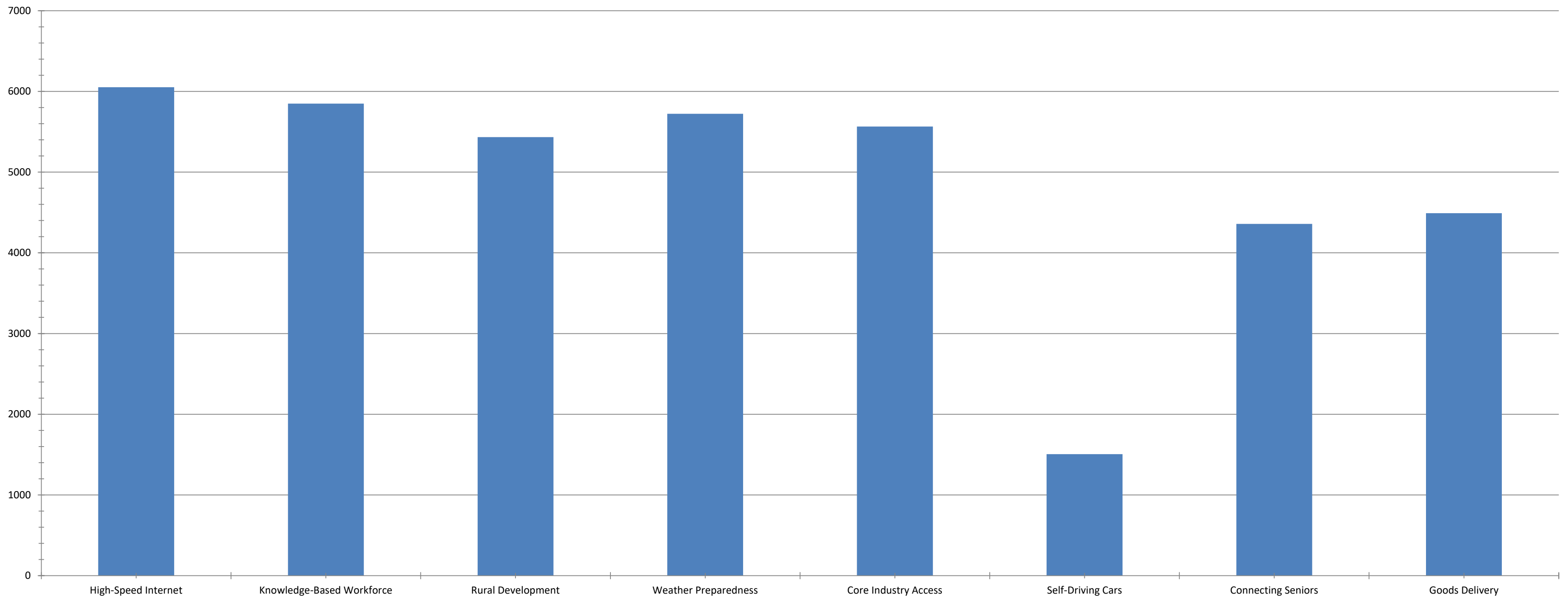


Public Comment Map

- Over 1000 comments received
- Comments made in all 100 counties
- 70% of participants were residents

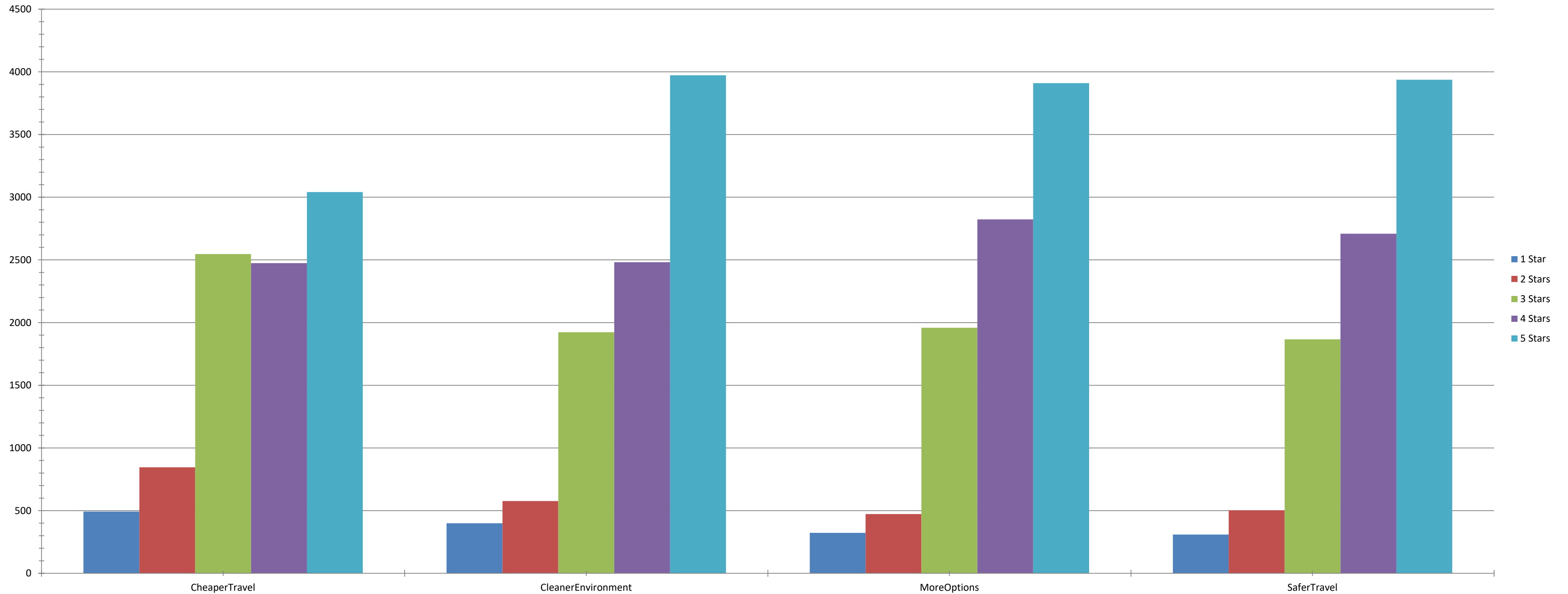
NC Moves 2050 Plan Survey Results

Future Transportation Needs



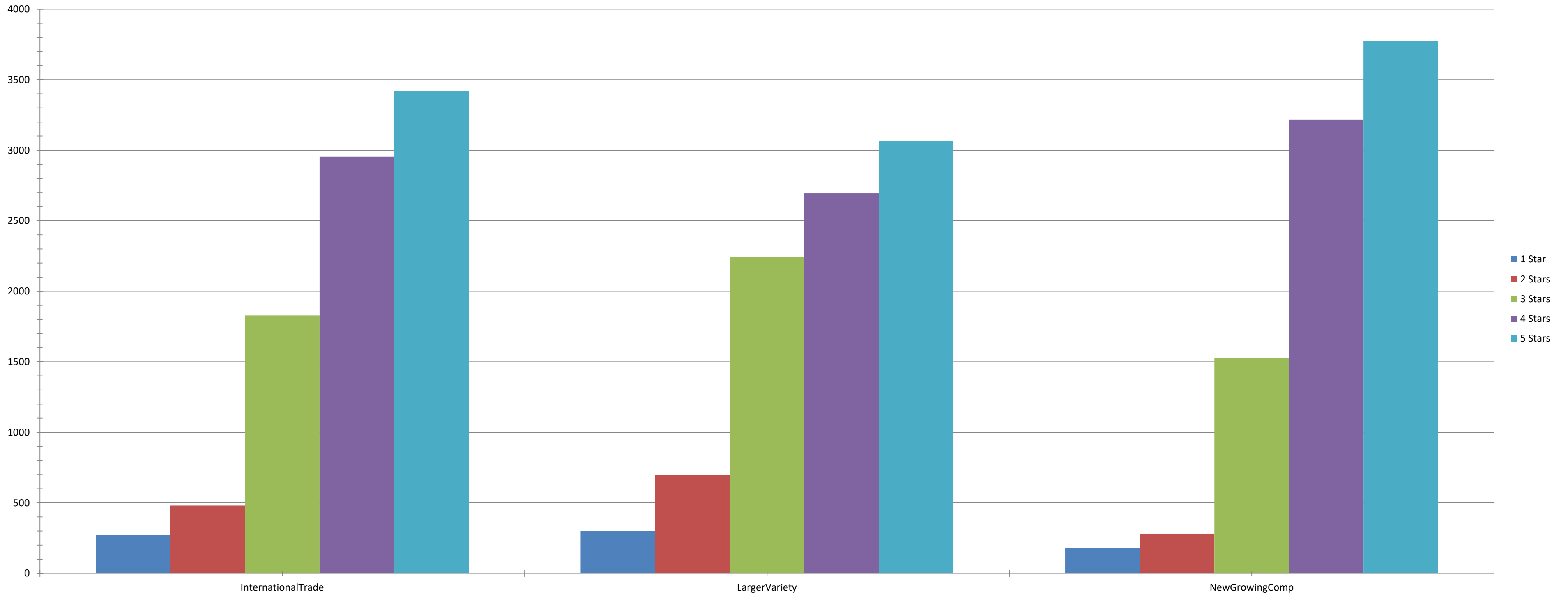
NC Moves 2050 Plan Survey Results

Future Transportation Benefits
Innovative: A Future Led by Technology



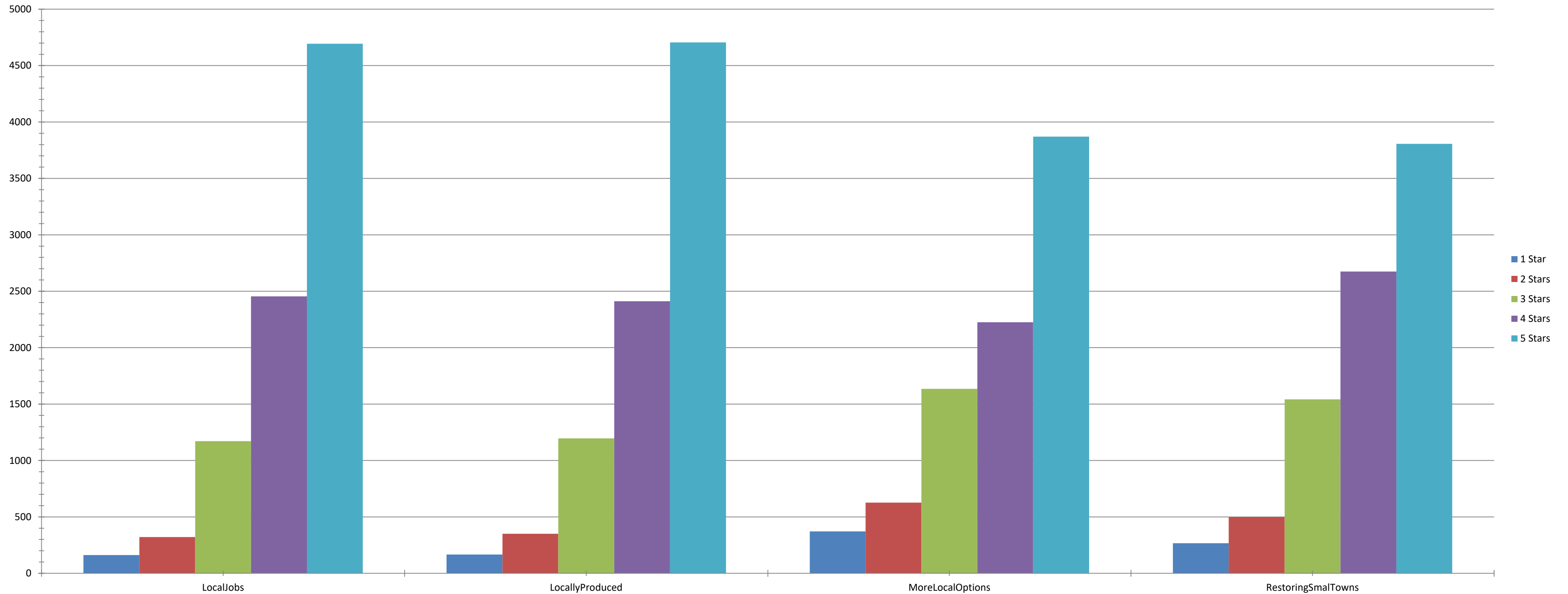
NC Moves 2050 Plan Survey Results

Future Transportation Benefits
Globally Connected: A Future Led by a Growing Economy



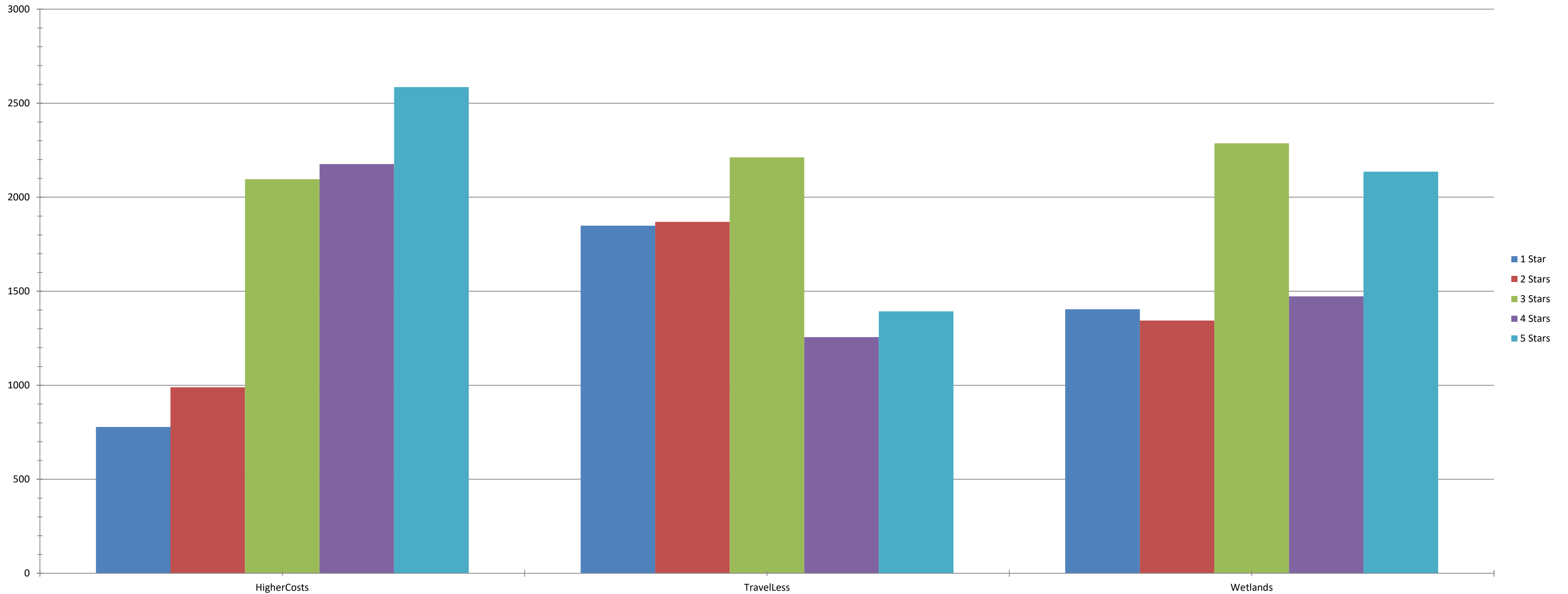
NC Moves 2050 Plan Survey Results

Future Transportation Benefits
Renewed: Future Led by Community Investment



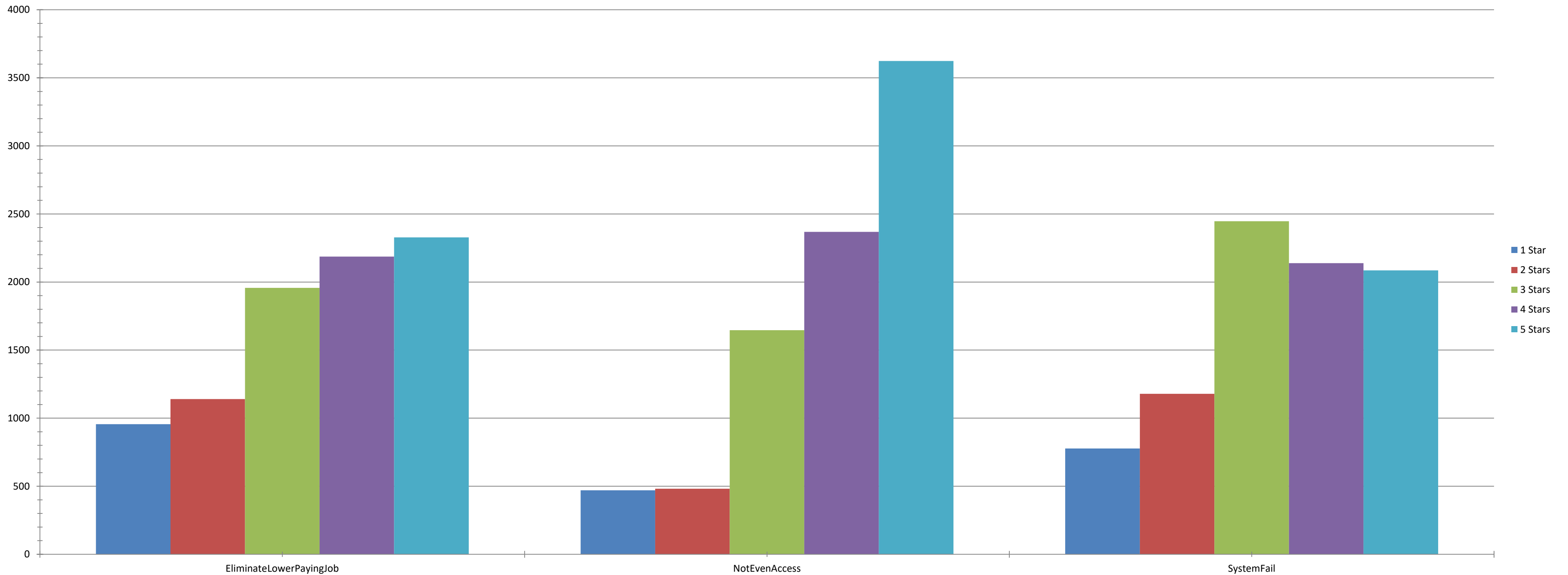
NC Moves 2050 Plan Survey Results

Future Transportation Benefits
Unstable: Future Led by Uncertainties



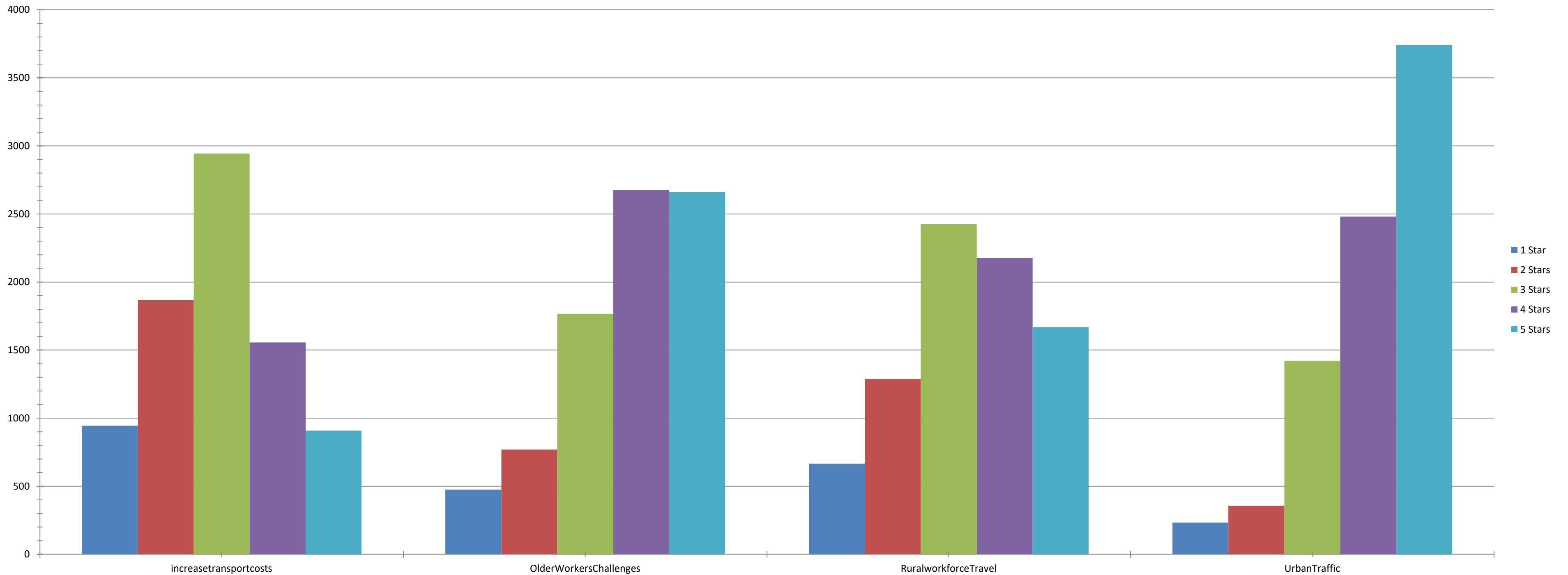
NC Moves 2050 Plan Survey Results

Future Transportation Concern
Innovative: Future Led by Technology



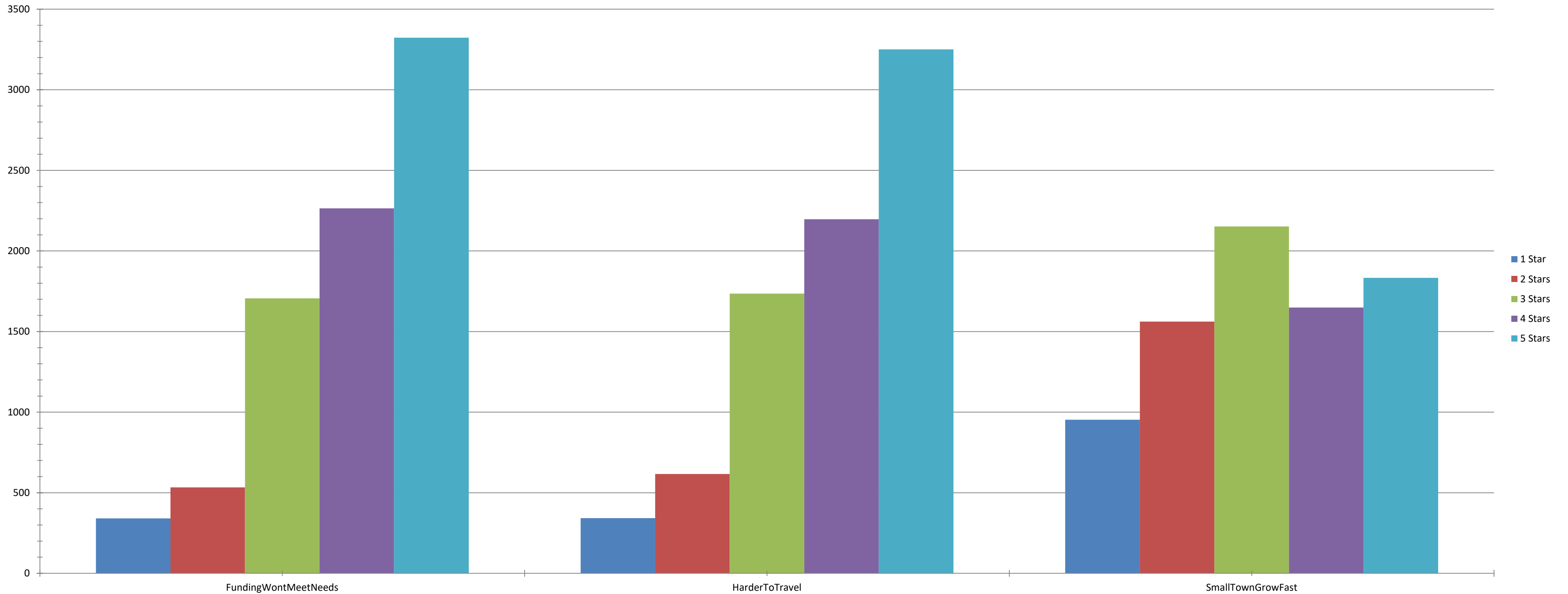
NC Moves 2050 Plan Survey Results

Future Transportation Concerns
Globally Connected: Future Led by a Growing Economy



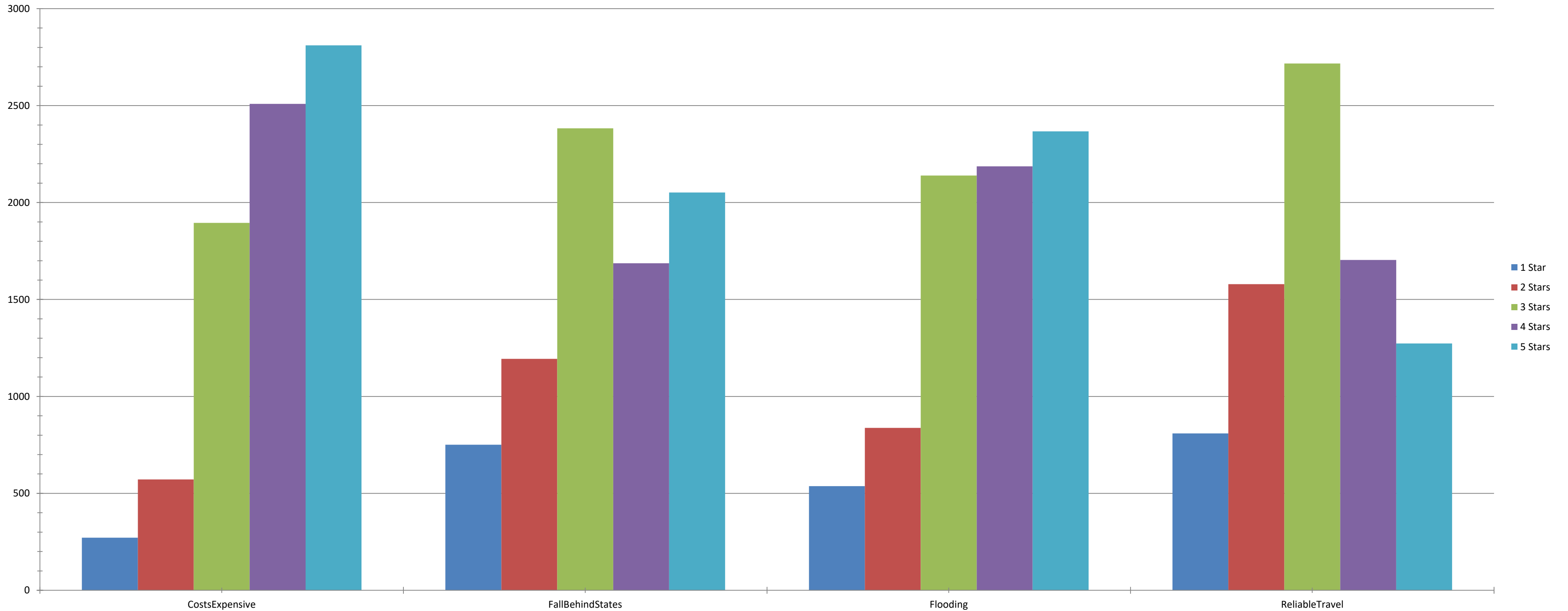
NC Moves 2050 Plan Survey Results

Future Transportation Concerns
Renewed: Future Led by Future Led by Community Investment



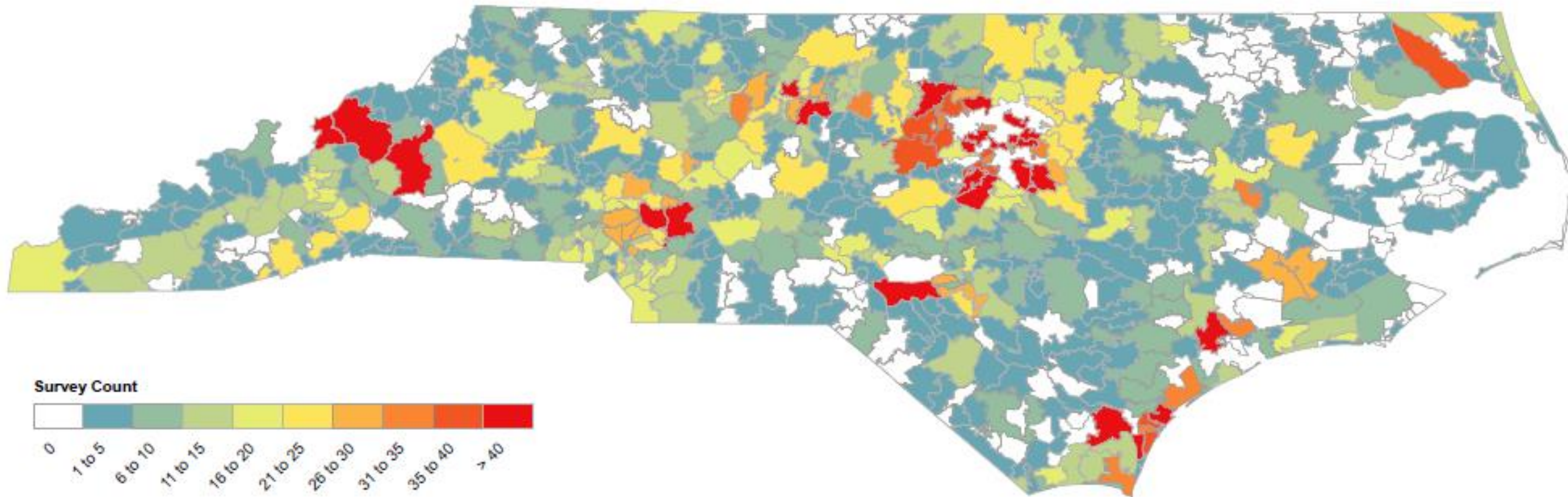
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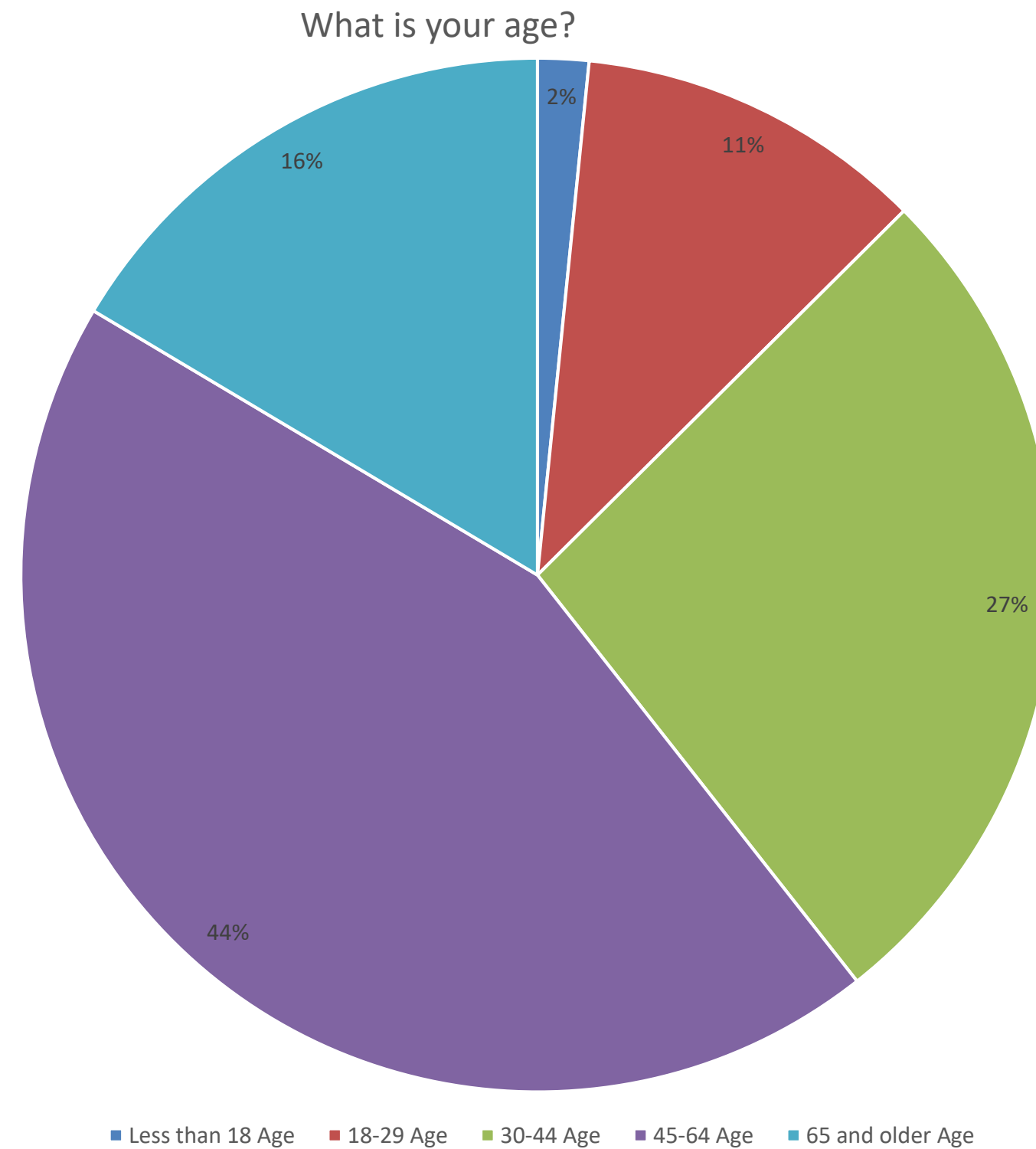


NC Moves 2050 Plan Survey Results

NC Moves 2050 Plan Survey Counts by Zip Codes



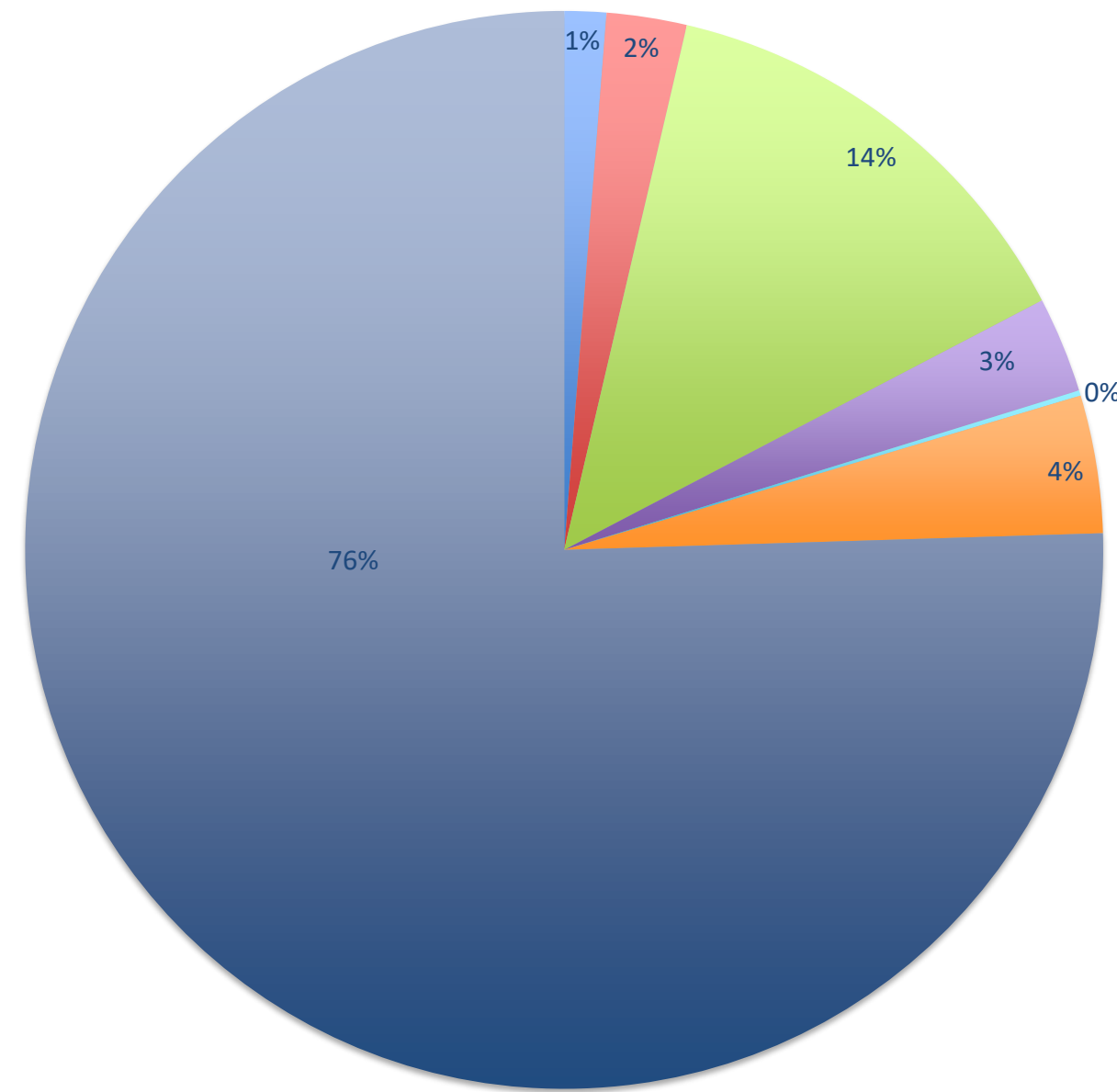
NC Moves 2050 Plan Survey Demographics



NC Moves 2050 Plan Survey

Demographics

What is your race/ethnicity?

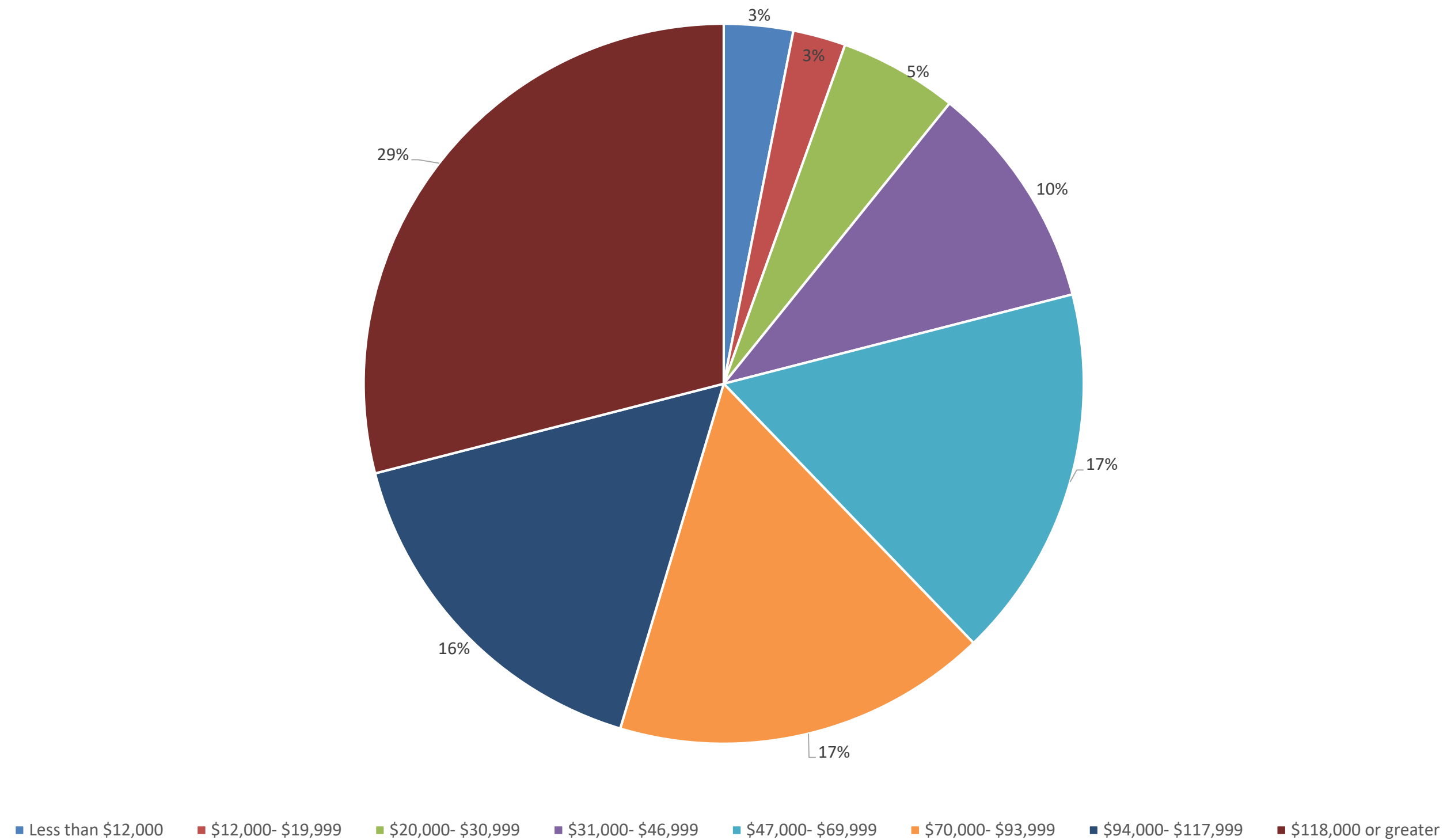


■ American Indian/Alaskan Native ■ Asian ■ Black/African American ■ Hispanic/Latino ■ Native Hawaiian/Pacific Islander ■ Other ■ White

NC Moves 2050 Plan Survey

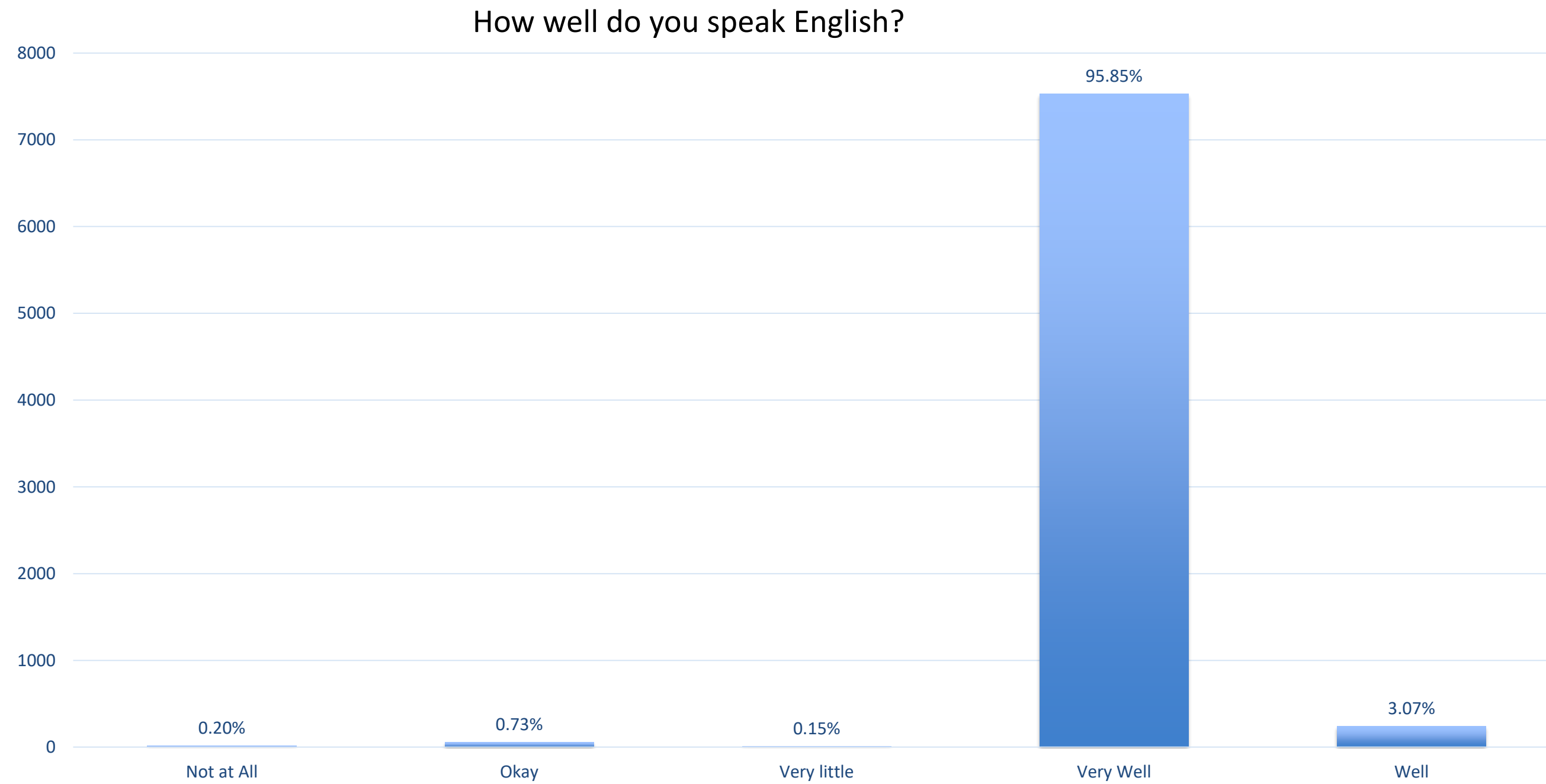
Demographics

What is your total household income?



NC Moves 2050 Plan Survey

Demographics



Project Schedule

2018 2019 2020
 Aug Sept Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug

1st Survey Period

2nd Survey Period

3rd Survey Period

State of the System

Drivers and Opportunities

Scenarios
 Plausible Alternative Futures
 Vision, Goals, Objectives

Future Needs, Priorities, Solutions

Plan Rollout And Implementation



For more information, visit www.ncmoves.gov

Takeaways



Takeaways

“ A 21st Century Transportation System Needs to be Built on the Foundation of a 21st Century Public Involvement Strategy.”

Top public engagement goals



- ✓ Critical mass
- ✓ Diversity

- ✓ Informed input
- ✓ Quantifiable results

Improved decision making & greater public support

MetroQuest – Engagement Optimized

- ✓ Engage thousands online
- ✓ Involve a diverse audience
- ✓ Educate the public
- ✓ Collect informed input
- ✓ Deliver actionable results



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State Agencies



Local Agencies



Consulting Firms



Four case studies

VTrans2040 - Future Transportation Choices

Progress

Welcome

Tell us what you think!

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Begin

- OPPORTUNITIES
- CHALLENGES
- INVESTMENT CHOICES
- ABOUT YOU

Southwestern PA Forces of Change

See Results Progress

Forces of Change

We want your input!

The Southwestern Pennsylvania Commission seeks your input on external forces (Forces of Change) that have the potential to significantly impact the Southwestern Pennsylvania region. Your responses will help shape the next regional plan for Southwestern Pennsylvania.

Begin

- FORCES OF CHANGE
- REGIONAL IMPACTS
- ABOUT YOU

The Regional Plan

Progress

The Challenge: Anticipating the future

WELCOME

In the summer of 2014, the Atlanta Regional Commission conducted a survey asking how to prepare for the population growth expected by 2040. In this survey, we are asking how the region should address a future of rapid change and innovation. Your survey answers will help inform Regional Plan policy.

Please take five minutes to tell us how you think we should respond to upcoming trends in technology and remain economically competitive.

THE ATLANTA REGIONAL PLAN

Click here to begin

En Español

- AUTONOMOUS VEHICLES
- TECHNOLOGICAL TRENDS
- REGIONAL JOB GROWTH
- STAY INVOLVED

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Progress

Michigan Mobility 2045

WELCOME

Tell us what you think!

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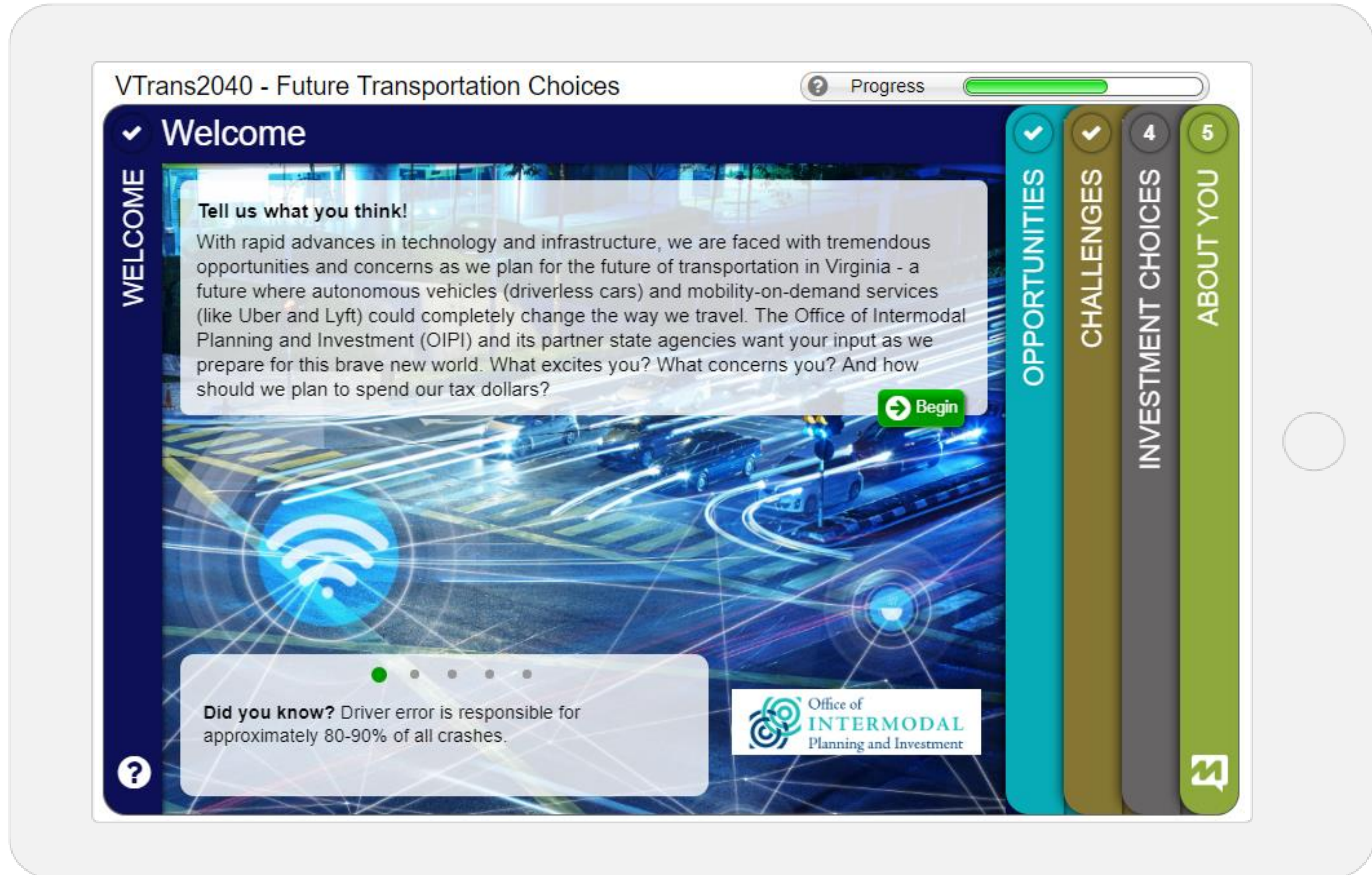
Begin

- PRIORITY RANKING
- TRADEOFFS
- BUDGET ALLOCATION
- FINAL QUESTIONS

MDOT is developing a new state long-range transportation plan (SLRTP), known as Michigan Mobility 2045 (MM 2045), to establish a vision and priorities for transportation in Michigan for 25 years.

Michigan 2045 Mobility

Virginia DOT



What excites people?

VTrans2040 - Future Transportation Choices

Progress

What to do Next Task

What excites you?

- 1 Improved safety
- 2 Reduced congestion
- 3 Increased transp. options

Order your top 3 items
↑ above this line ↑

- Non-driver mobility
- Convenience / Free time
- Less pollution
- Faster deliveries
- Lower driving costs

Improved safety

Motor vehicle safety could dramatically improve as autonomous and connected vehicles communicate with each other and their surroundings (transportation and people).

Comment

Suggest another item

WELCOME

OPPORTUNITIES

CHALLENGES

INVESTMENT CHOICES

ABOUT YOU



What concerns people?

VTrans2040 - Future Transportation Choices

Progress

What to do Next Task

WELCOME

OPPORTUNITIES

CHALLENGES

What concerns you?

1 Safety and security

2 Sprawling development

3 Increased congestion

Order your top 3 items
↑ above this line ↑

Fewer transp. options

Reliance on technology

Job impacts

Higher driving costs

More pollution

Suggest another item

Safety and security



Autonomous vehicles could be susceptible to software failure, hacking or cyber-attacks in our increasingly digital world.

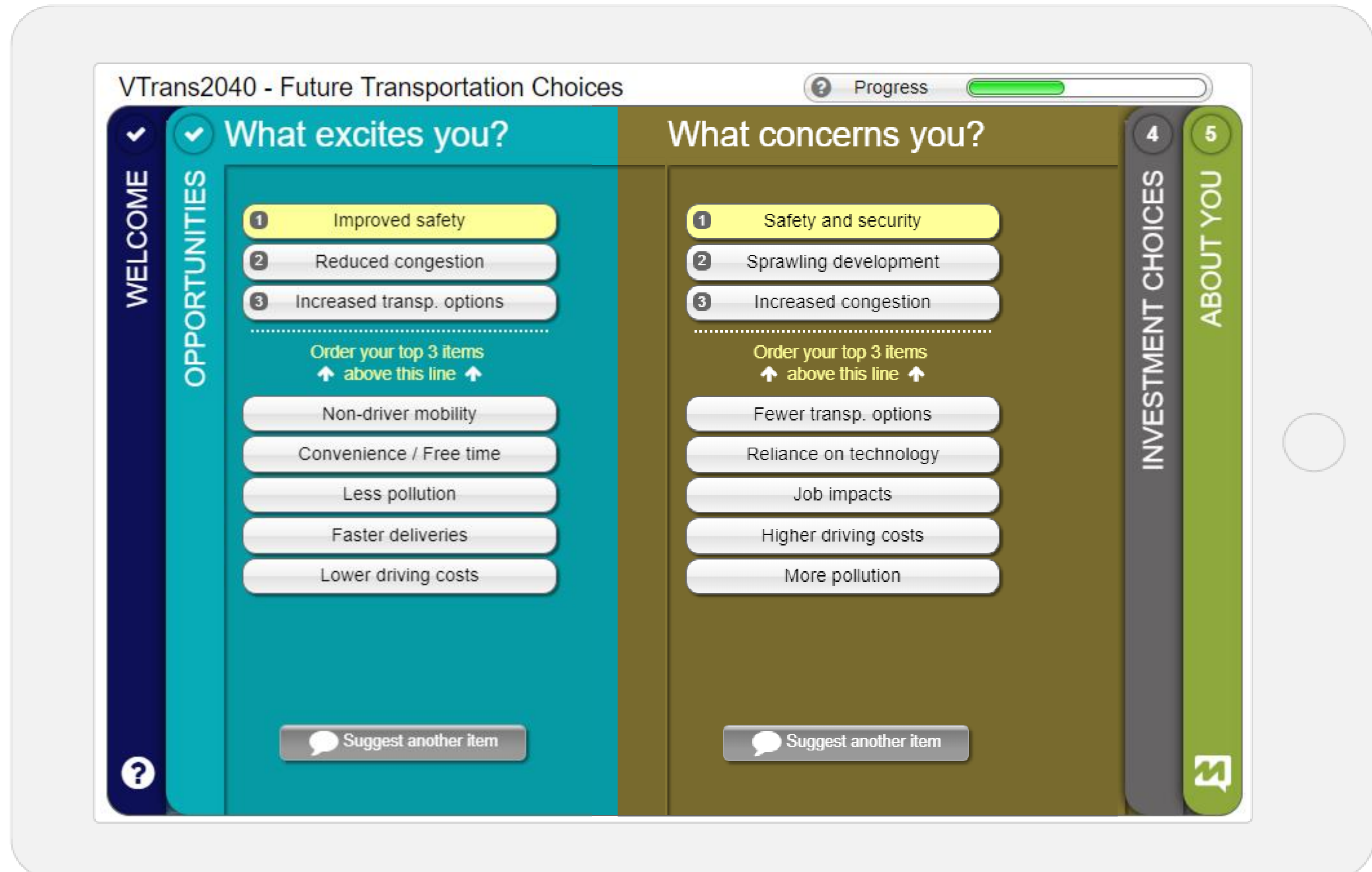
Comment

INVESTMENT CHOICES

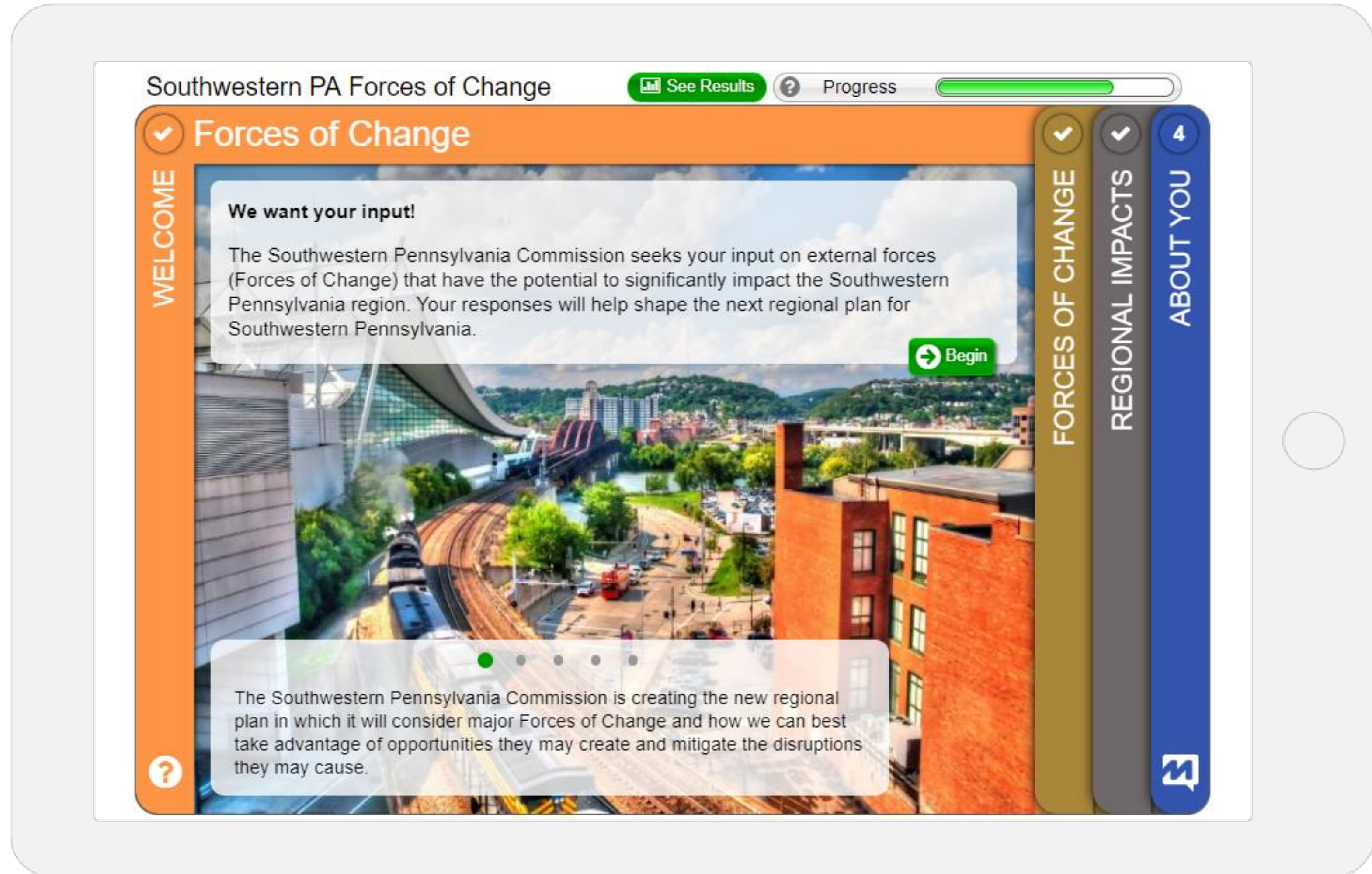
ABOUT YOU



Polarization



Southwestern PA Commission



Who benefits?

The screenshot shows a tablet interface for a survey titled "Southwestern PA Forces of Change". At the top, there is a "See Results" button and a "Progress" indicator. The main navigation bar includes "WELCOME", "FORCES OF CHANGE", "REGIONAL IMPACTS", and "ABOUT YOU". The "FORCES OF CHANGE" section is active, showing a list of categories: Demographics, Economy, Funding, Environment, and Technology. The "Technology" category is selected and highlighted in yellow. The main content area displays the following text: "Technology Forces (self-driving vehicles, robotics, broadband, additive manufacturing, transportation options) will have impacts that could affect communities differently." Below this, there are two questions: "Which type of community do you think will benefit the most from the technology forces?" with a dropdown menu set to "City", and "Which type of community do you think will benefit the least from the technology forces?" with a dropdown menu set to "Rural Area". A "Next" button is located at the bottom right of the main content area.

Southwestern PA Forces of Change [See Results](#) Progress ?

WELCOME **FORCES OF CHANGE** REGIONAL IMPACTS **4** ABOUT YOU

Demographics **Technology Forces (self-driving vehicles, robotics, broadband, additive manufacturing, transportation options) will have impacts that could affect communities differently.**

Economy

Funding

Environment

Technology

Which type of community do you think will benefit the most from the technology forces?

City

Which type of community do you think will benefit the least from the technology forces?

Rural Area

Next



Atlanta Regional Commission

The Regional Plan

Progress

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THE ATLANTA REGIONAL PLAN

Click here to begin

En Español

2 AUTONOMOUS VEHICLES

3 TECHNOLOGICAL TRENDS

4 REGIONAL JOB GROWTH

5 STAY INVOLVED


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help



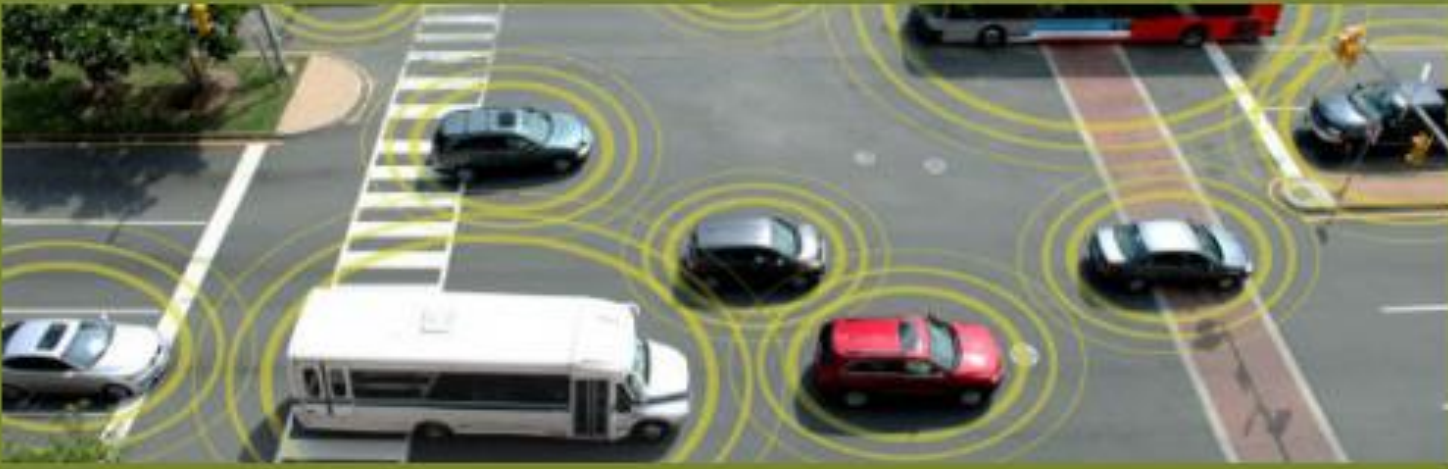
Awareness

The Regional Plan

Progress 

Autonomous Vehicles How should our region prepare?

Review the introduction information below and click on your answer to each question. Click on the "next" button to move ahead.



Introduction

Viability

Work/home location

Likelihood of use


Preparedness

Have you heard of autonomous vehicles ("driverless cars")?

Yes No Unsure

Do you believe autonomous vehicles will become a realistic option within the next couple of decades?

Yes No Unsure

 Next

WELCOME

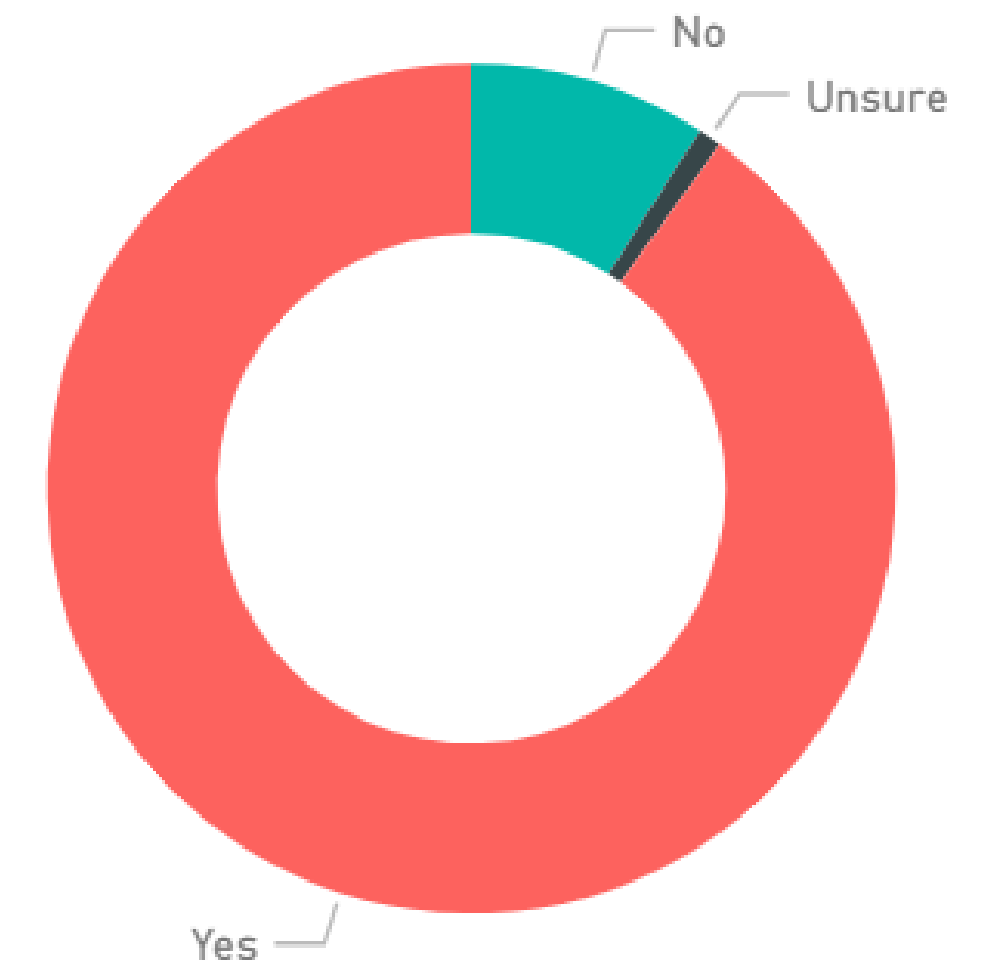
AUTONOMOUS VEHICLES

TECHNOLOGICAL TRENDS

REGIONAL JOB GROWTH


STAY INVOLVED

help




Level of comfort

The Regional Plan

Progress 

Autonomous Vehicles How should our region prepare?

Review the introduction information below and click on your answer to each question. Click on the "next" button to move ahead.



Introduction

Viability

Work/home location

Likelihood of use


Preparedness

How comfortable would you be in transferring driving control to a fully autonomous technologically advanced vehicle?

Definitely Some Not at all Unsure

Do you see driverless cars as a viable option for people who cannot drive themselves such as older adults or people with disabilities?

Yes No Unsure



WELCOME

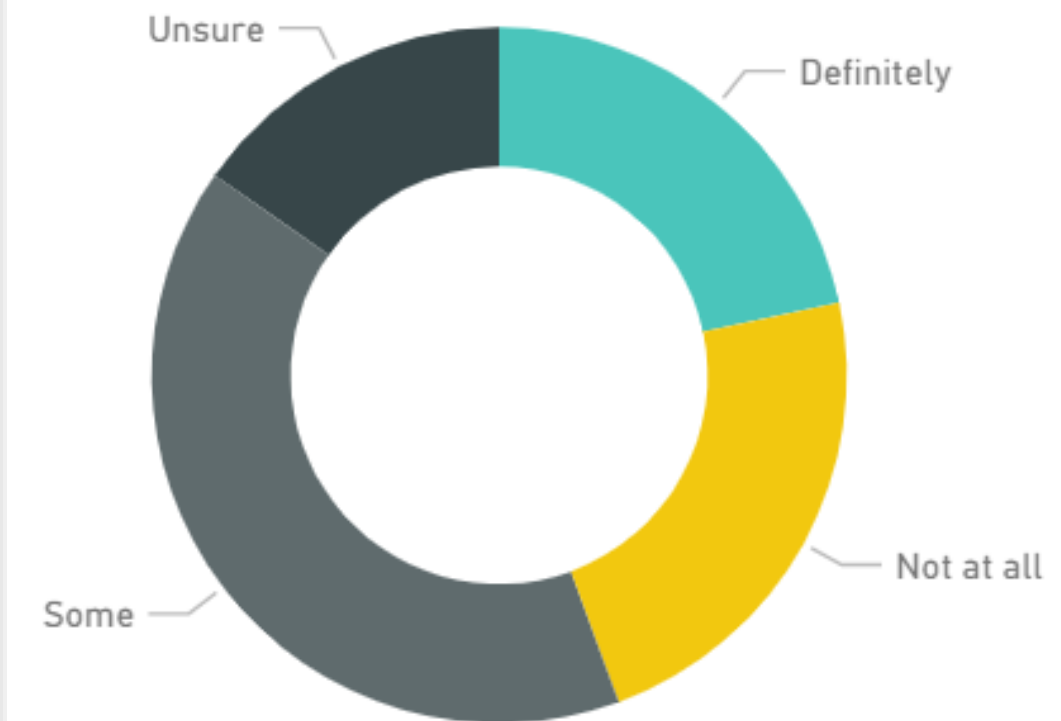
AUTONOMOUS VEHICLES

TECHNOLOGICAL TRENDS

REGIONAL JOB GROWTH

STAY INVOLVED

help




Support

The Regional Plan Progress

Autonomous Vehicles How should our region prepare?

Review the introduction information below and click on your answer to each question. Click on the "next" button to move ahead.



Introduction

Viability

Work/home location

Likelihood of use

Preparedness

Technology to implement autonomous vehicles will be available in the next 5-10 years; however liability issues may delay their introduction. Should the State of Georgia support the implementation of autonomous vehicles, including enactment of laws and regulations encouraging this technology?

Additional comments about autonomous vehicles:
Type...

WELCOME

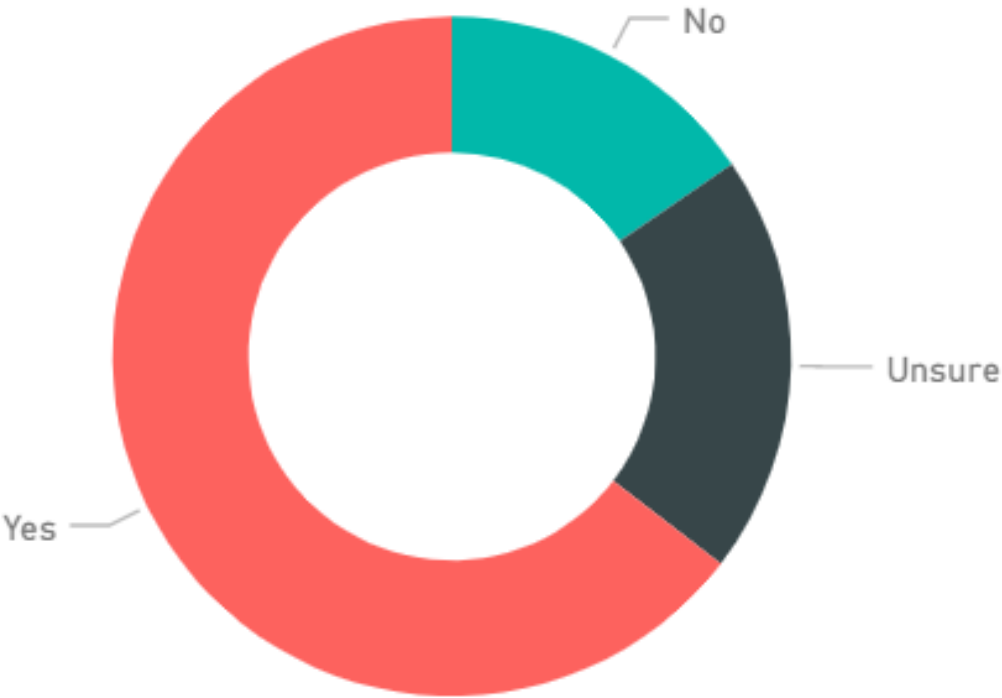
AUTONOMOUS VEHICLES

TECHNOLOGICAL TRENDS

REGIONAL JOB GROWTH

STAY INVOLVED

help



Barriers

The Regional Plan

Progress

1 WELCOME

2 AUTONOMOUS VEHICLES

3 **Communications Technology** What could the impact be on our future?

4 REGIONAL JOB GROWTH

5 STAY INVOLVED

Review the introduction information below and click on your answer to each question. Click on the "next" button to move ahead.

Introduction

Shared vehicles

Mobile Technology

Telework

Transit technology

Taxis, buses, trains, rentals and mobile services like ZipCar, Uber and Lyft provide people who do not own cars with other options. If these services were widely available and affordable, which of the following would you still consider to be barriers to going carless in the Atlanta region? (Select up to 3)

- Going out of town
- Emergency needs
- Being driven by someone else
- Sharing vehicles with strangers
- Getting my children to activities
- I am not concerned

Next

help



Michigan DOT



Four case studies

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Michigan 2045 Mobility

Promotional Playbook

12 Ways to Promote Your Online Survey Like a Pro

- 12 proven promotional strategies
- 70+ tips & tricks
- We will email you a PDF copy!

Thank you: MetroQuest subscribers!





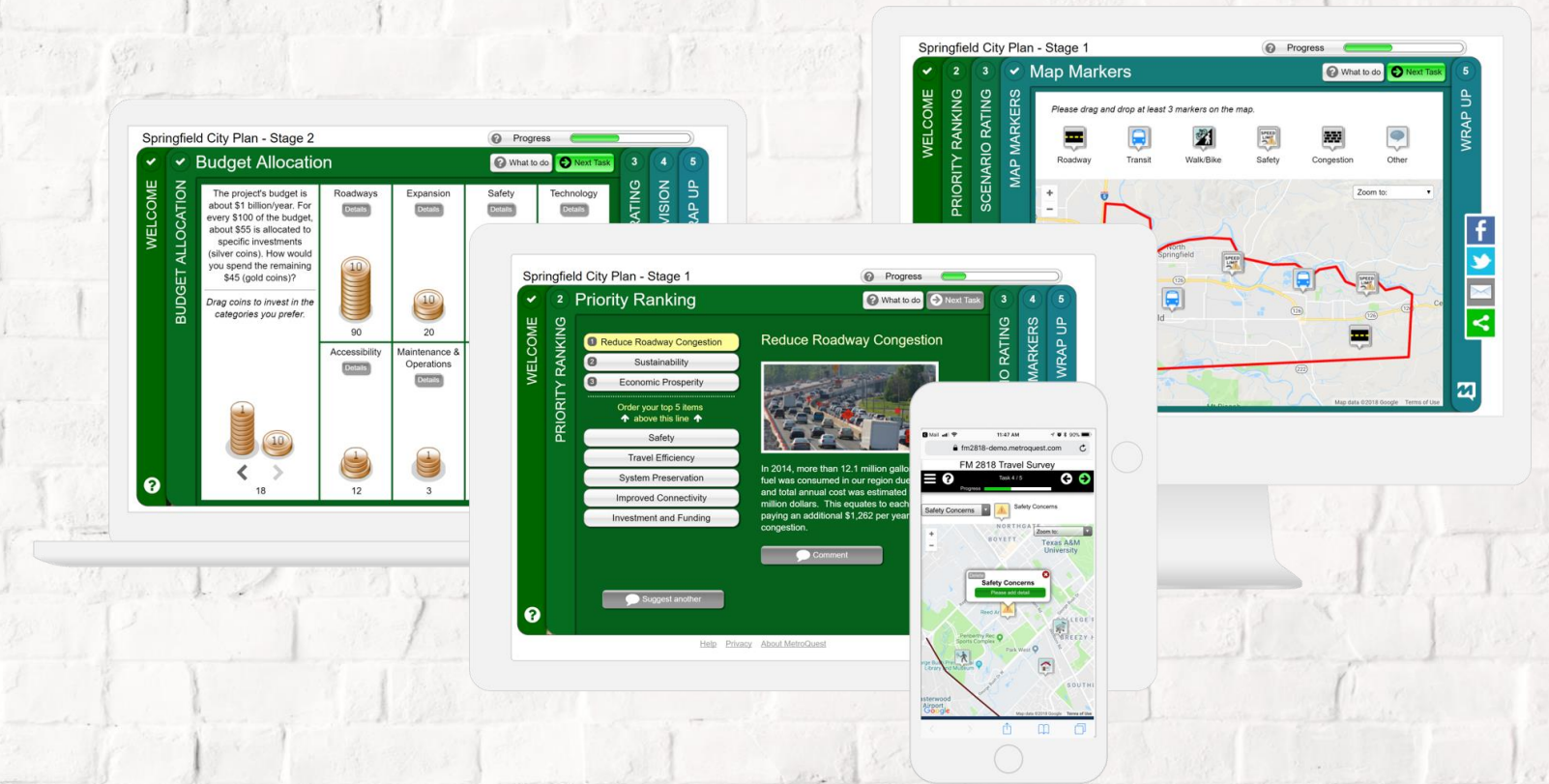
Poll: What additional information would be helpful?



TransComm by AASHTO

July 28 – 31 in Indianapolis!

- Meet the MetroQuest Team
- Get an inside look at MetroQuest
- Attend our speaking sessions
- Come bowling with us



Questions?



Jamille Robbins



Nastasha Earle-Young



Colin Mellor



Dave Biggs



Thank you for participating!

AICP CM: <https://www.planning.org/events/course/9181433>

