approve…Do you approve or disapprove of the way Donald Trump is handling his job as President?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly approve</td>
<td>28%</td>
</tr>
<tr>
<td>Somewhat approve</td>
<td>20%</td>
</tr>
<tr>
<td>Somewhat disapprove</td>
<td>11%</td>
</tr>
<tr>
<td>Strongly disapprove</td>
<td>38%</td>
</tr>
<tr>
<td>Not sure</td>
<td>3%</td>
</tr>
</tbody>
</table>

rdwt…Generally speaking, would you say that things in this country are headed in the right direction or would you say that things are headed off on the wrong track?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right direction</td>
<td>33%</td>
</tr>
<tr>
<td>Wrong track</td>
<td>54%</td>
</tr>
<tr>
<td>Not sure</td>
<td>13%</td>
</tr>
</tbody>
</table>
TCI7x1…Do you think your state government is investing too much, not enough, or the right amount in each of the following? If you’re not sure, just say so. - Repairing existing roads and bridges

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not enough</td>
<td>57%</td>
</tr>
<tr>
<td>The right amount</td>
<td>26%</td>
</tr>
<tr>
<td>Too much</td>
<td>8%</td>
</tr>
<tr>
<td>Not sure</td>
<td>9%</td>
</tr>
</tbody>
</table>

TCI7x2…Do you think your state government is investing too much, not enough, or the right amount in each of the following? If you’re not sure, just say so. - Increasing the availability and quality of public transportation options

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not enough</td>
<td>30%</td>
</tr>
<tr>
<td>The right amount</td>
<td>37%</td>
</tr>
<tr>
<td>Too much</td>
<td>9%</td>
</tr>
<tr>
<td>Not sure</td>
<td>25%</td>
</tr>
</tbody>
</table>

TCI7x3…Do you think your state government is investing too much, not enough, or the right amount in each of the following? If you’re not sure, just say so. - Drinking water and wastewater systems

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not enough</td>
<td>36%</td>
</tr>
<tr>
<td>The right amount</td>
<td>40%</td>
</tr>
<tr>
<td>Too much</td>
<td>6%</td>
</tr>
<tr>
<td>Not sure</td>
<td>17%</td>
</tr>
</tbody>
</table>

TCI7x4…Do you think your state government is investing too much, not enough, or the right amount in each of the following? If you’re not sure, just say so. - Energy efficiency programs for homeowners, businesses, and low-income houses

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not enough</td>
<td>42%</td>
</tr>
<tr>
<td>The right amount</td>
<td>31%</td>
</tr>
<tr>
<td>Too much</td>
<td>10%</td>
</tr>
<tr>
<td>Not sure</td>
<td>17%</td>
</tr>
</tbody>
</table>
Do you think your state government is investing too much, not enough, or the right amount in each of the following? If you’re not sure, just say so.

### Airports

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not enough</td>
<td>13%</td>
</tr>
<tr>
<td>The right amount</td>
<td>47%</td>
</tr>
<tr>
<td>Too much</td>
<td>11%</td>
</tr>
<tr>
<td>Not sure</td>
<td>29%</td>
</tr>
</tbody>
</table>

### Reducing pollution that contributes to climate change

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not enough</td>
<td>43%</td>
</tr>
<tr>
<td>The right amount</td>
<td>27%</td>
</tr>
<tr>
<td>Too much</td>
<td>13%</td>
</tr>
<tr>
<td>Not sure</td>
<td>16%</td>
</tr>
</tbody>
</table>

### Building new roads and bridges

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not enough</td>
<td>45%</td>
</tr>
<tr>
<td>The right amount</td>
<td>34%</td>
</tr>
<tr>
<td>Too much</td>
<td>8%</td>
</tr>
<tr>
<td>Not sure</td>
<td>13%</td>
</tr>
</tbody>
</table>

### Affordable housing

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not enough</td>
<td>46%</td>
</tr>
<tr>
<td>The right amount</td>
<td>27%</td>
</tr>
<tr>
<td>Too much</td>
<td>13%</td>
</tr>
<tr>
<td>Not sure</td>
<td>14%</td>
</tr>
</tbody>
</table>
TCI7x9...Do you think your state government is investing too much, not enough, or the right amount in each of the following? If you’re not sure, just say so. - Broadband internet access and affordability

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not enough</td>
<td>35%</td>
</tr>
<tr>
<td>The right amount</td>
<td>34%</td>
</tr>
<tr>
<td>Too much</td>
<td>10%</td>
</tr>
<tr>
<td>Not sure</td>
<td>20%</td>
</tr>
</tbody>
</table>

TCI7x10...Do you think your state government is investing too much, not enough, or the right amount in each of the following? If you’re not sure, just say so. - Electric vehicle charging stations

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not enough</td>
<td>29%</td>
</tr>
<tr>
<td>The right amount</td>
<td>26%</td>
</tr>
<tr>
<td>Too much</td>
<td>16%</td>
</tr>
<tr>
<td>Not sure</td>
<td>30%</td>
</tr>
</tbody>
</table>

TCI7x11...Do you think your state government is investing too much, not enough, or the right amount in each of the following? If you’re not sure, just say so. - Preparing for the effects of climate change

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not enough</td>
<td>40%</td>
</tr>
<tr>
<td>The right amount</td>
<td>26%</td>
</tr>
<tr>
<td>Too much</td>
<td>15%</td>
</tr>
<tr>
<td>Not sure</td>
<td>19%</td>
</tr>
</tbody>
</table>

TCI7x12...Do you think your state government is investing too much, not enough, or the right amount in each of the following? If you’re not sure, just say so. - Renewable energy, such as wind and solar

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not enough</td>
<td>43%</td>
</tr>
<tr>
<td>The right amount</td>
<td>26%</td>
</tr>
<tr>
<td>Too much</td>
<td>14%</td>
</tr>
<tr>
<td>Not sure</td>
<td>17%</td>
</tr>
</tbody>
</table>
TCI8x1...Are each of the following a major factor, a minor factor, or not a factor at all in deciding what method of transportation you use? - Safety

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major factor</td>
<td>70%</td>
</tr>
<tr>
<td>Minor factor</td>
<td>23%</td>
</tr>
<tr>
<td>Not a factor at all</td>
<td>8%</td>
</tr>
</tbody>
</table>

TCI8x2...Are each of the following a major factor, a minor factor, or not a factor at all in deciding what method of transportation you use? - Cost

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major factor</td>
<td>59%</td>
</tr>
<tr>
<td>Minor factor</td>
<td>30%</td>
</tr>
<tr>
<td>Not a factor at all</td>
<td>11%</td>
</tr>
</tbody>
</table>

TCI8x3...Are each of the following a major factor, a minor factor, or not a factor at all in deciding what method of transportation you use? - Reliability

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major factor</td>
<td>70%</td>
</tr>
<tr>
<td>Minor factor</td>
<td>23%</td>
</tr>
<tr>
<td>Not a factor at all</td>
<td>7%</td>
</tr>
</tbody>
</table>

TCI8x4...Are each of the following a major factor, a minor factor, or not a factor at all in deciding what method of transportation you use? - Convenience

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major factor</td>
<td>64%</td>
</tr>
<tr>
<td>Minor factor</td>
<td>27%</td>
</tr>
<tr>
<td>Not a factor at all</td>
<td>9%</td>
</tr>
</tbody>
</table>
TCI8x5...Are each of the following a major factor, a minor factor, or not a factor at all in deciding what method of transportation you use? - Accessibility for individuals with disabilities

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major factor</td>
<td>31%</td>
</tr>
<tr>
<td>Minor factor</td>
<td>30%</td>
</tr>
<tr>
<td>Not a factor at all</td>
<td>38%</td>
</tr>
</tbody>
</table>

TCI8x6...Are each of the following a major factor, a minor factor, or not a factor at all in deciding what method of transportation you use? - Impact on the environment

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major factor</td>
<td>27%</td>
</tr>
<tr>
<td>Minor factor</td>
<td>45%</td>
</tr>
<tr>
<td>Not a factor at all</td>
<td>27%</td>
</tr>
</tbody>
</table>

TCI8x7...Are each of the following a major factor, a minor factor, or not a factor at all in deciding what method of transportation you use? - Speed

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major factor</td>
<td>36%</td>
</tr>
<tr>
<td>Minor factor</td>
<td>43%</td>
</tr>
<tr>
<td>Not a factor at all</td>
<td>20%</td>
</tr>
</tbody>
</table>

TCI8x8...Are each of the following a major factor, a minor factor, or not a factor at all in deciding what method of transportation you use? - Health

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major factor</td>
<td>51%</td>
</tr>
<tr>
<td>Minor factor</td>
<td>29%</td>
</tr>
<tr>
<td>Not a factor at all</td>
<td>20%</td>
</tr>
</tbody>
</table>
TCI9...Do you think your state government is adequately prepared to deal with the impacts of extreme weather/storms, including flooding, heavy rainfall, and heat waves, on transportation infrastructure?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not prepared</td>
<td>39%</td>
</tr>
<tr>
<td>Not sure</td>
<td>25%</td>
</tr>
<tr>
<td>Prepared</td>
<td>36%</td>
</tr>
</tbody>
</table>

TCI10x1...When it comes to investing in the transportation infrastructure in your local area, how important are each of the following objectives? - Increasing the number of clean public transportation options, such as electric busses and commuter rail, to reduce carbon pollution that contributes to climate change

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very important</td>
<td>40%</td>
</tr>
<tr>
<td>Somewhat important</td>
<td>39%</td>
</tr>
<tr>
<td>Not too important</td>
<td>15%</td>
</tr>
<tr>
<td>Not at all important</td>
<td>5%</td>
</tr>
</tbody>
</table>

TCI10x2...When it comes to investing in the transportation infrastructure in your local area, how important are each of the following objectives? - Increasing the quality, affordability, and access/convenience of public transportation

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very important</td>
<td>39%</td>
</tr>
<tr>
<td>Somewhat important</td>
<td>42%</td>
</tr>
<tr>
<td>Not too important</td>
<td>14%</td>
</tr>
<tr>
<td>Not at all important</td>
<td>4%</td>
</tr>
</tbody>
</table>

TCI10x3...When it comes to investing in the transportation infrastructure in your local area, how important are each of the following objectives? - Reducing harmful pollution that lowers air quality and contributes to asthma and lung disease

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very important</td>
<td>48%</td>
</tr>
<tr>
<td>Somewhat important</td>
<td>39%</td>
</tr>
<tr>
<td>Not too important</td>
<td>10%</td>
</tr>
<tr>
<td>Not at all important</td>
<td>4%</td>
</tr>
</tbody>
</table>
When it comes to investing in the transportation infrastructure in your local area, how important are each of the following objectives? - Ensuring low-income communities and communities of color have increased access to public transportation

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very important</td>
<td>40%</td>
</tr>
<tr>
<td>Somewhat important</td>
<td>41%</td>
</tr>
<tr>
<td>Not too important</td>
<td>12%</td>
</tr>
<tr>
<td>Not at all important</td>
<td>7%</td>
</tr>
</tbody>
</table>

When it comes to investing in the transportation infrastructure in your local area, how important are each of the following objectives? - Ensuring essential workers, such as doctors, nurses, and teachers, can get to work safely and on time to perform their duties

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very important</td>
<td>65%</td>
</tr>
<tr>
<td>Somewhat important</td>
<td>28%</td>
</tr>
<tr>
<td>Not too important</td>
<td>5%</td>
</tr>
<tr>
<td>Not at all important</td>
<td>2%</td>
</tr>
</tbody>
</table>

When it comes to investing in the transportation infrastructure in your local area, how important are each of the following objectives? - Reducing traffic congestion

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very important</td>
<td>41%</td>
</tr>
<tr>
<td>Somewhat important</td>
<td>43%</td>
</tr>
<tr>
<td>Not too important</td>
<td>11%</td>
</tr>
<tr>
<td>Not at all important</td>
<td>4%</td>
</tr>
</tbody>
</table>

When it comes to investing in the transportation infrastructure in your local area, how important are each of the following objectives? - Designating more walking routes / bike lanes

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very important</td>
<td>26%</td>
</tr>
<tr>
<td>Somewhat important</td>
<td>42%</td>
</tr>
<tr>
<td>Not too important</td>
<td>22%</td>
</tr>
<tr>
<td>Not at all important</td>
<td>10%</td>
</tr>
</tbody>
</table>
TCI11...How important is it to you for your state to reduce carbon pollution at the local level?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very important</td>
<td>40%</td>
</tr>
<tr>
<td>Somewhat important</td>
<td>37%</td>
</tr>
<tr>
<td>Not too important</td>
<td>17%</td>
</tr>
<tr>
<td>Not at all important</td>
<td>6%</td>
</tr>
</tbody>
</table>

TCI12...Do you approve or disapprove of the job President Donald Trump is doing in handling the coronavirus pandemic?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly approve</td>
<td>28%</td>
</tr>
<tr>
<td>Somewhat approve</td>
<td>22%</td>
</tr>
<tr>
<td>Somewhat disapprove</td>
<td>12%</td>
</tr>
<tr>
<td>Strongly disapprove</td>
<td>36%</td>
</tr>
<tr>
<td>Not sure</td>
<td>2%</td>
</tr>
</tbody>
</table>

TCI13...Do you approve or disapprove of the job your state governor is doing in handling the coronavirus pandemic?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly approve</td>
<td>19%</td>
</tr>
<tr>
<td>Somewhat approve</td>
<td>35%</td>
</tr>
<tr>
<td>Somewhat disapprove</td>
<td>19%</td>
</tr>
<tr>
<td>Strongly disapprove</td>
<td>22%</td>
</tr>
<tr>
<td>Not sure</td>
<td>4%</td>
</tr>
</tbody>
</table>

TCI14...As you may know, in response to the coronavirus pandemic, many governors have formed regional coalitions to address public health concerns and work together to rebuild their economies. Would you support or oppose your governor working with other governors in your region to address other issues, such as expanding transportation?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>37%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>34%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>8%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>8%</td>
</tr>
<tr>
<td>Not sure</td>
<td>13%</td>
</tr>
</tbody>
</table>
TCI15...Do you agree or disagree with the following statement: If the federal government fails to reduce the pollution that causes climate change, my state government should take action to reduce pollution.

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly agree</td>
<td>35%</td>
</tr>
<tr>
<td>Somewhat agree</td>
<td>32%</td>
</tr>
<tr>
<td>Somewhat disagree</td>
<td>12%</td>
</tr>
<tr>
<td>Strongly disagree</td>
<td>11%</td>
</tr>
<tr>
<td>Not sure</td>
<td>11%</td>
</tr>
</tbody>
</table>

TCI16...Do you agree or disagree with the following statement: When considering investments in modernizing and upgrading transportation, my state government should prioritize communities of color, including Black, Latino, Asian, and Native American communities, who lack sufficient access to transportation and have historically been more negatively impacted by vehicle pollution.

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly agree</td>
<td>25%</td>
</tr>
<tr>
<td>Somewhat agree</td>
<td>34%</td>
</tr>
<tr>
<td>Somewhat disagree</td>
<td>14%</td>
</tr>
<tr>
<td>Strongly disagree</td>
<td>14%</td>
</tr>
<tr>
<td>Not sure</td>
<td>13%</td>
</tr>
</tbody>
</table>

TCI17...As you may or may not know, 11 Northeast and Mid-Atlantic states and the District of Columbia have joined together in a regional transportation agreement, called the Transportation and Climate Initiative (TCI). Under TCI, states will cap carbon pollution from the transportation sector and require gasoline companies to pay for the carbon pollution produced by the fuel they sell by purchasing annual allowances. The proceeds generated by this plan would then be reinvested in cleaner, more efficient, and more accessible transportation options. Do you support or oppose your state participating in the Transportation and Climate Initiative (TCI)?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>33%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>31%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>10%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>11%</td>
</tr>
<tr>
<td>Not sure</td>
<td>15%</td>
</tr>
</tbody>
</table>

TCI18...Which of the following statements comes closest to your view on the Transportation and Climate Initiative (TCI) and recovery from the coronavirus pandemic, even if neither is exactly right?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>My state SHOULD join TCI as part of the recovery from the coronavirus pandemic. TCI will help jumpstart my state's economy and create new, good-paying jobs, while reducing air pollution.</td>
<td>65%</td>
</tr>
<tr>
<td>My state should NOT join TCI as part of the recovery from the coronavirus pandemic. TCI will be an economic burden on consumers and families in my state and will increase costs on basic needs like gas.</td>
<td>35%</td>
</tr>
</tbody>
</table>
TCI19x1...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Adding or upgrading sidewalks to improve walkability and public health

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>39%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>40%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>10%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>4%</td>
</tr>
<tr>
<td>Not sure</td>
<td>8%</td>
</tr>
</tbody>
</table>

TCI19x2...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Increasing access to bikes, scooters, and other shared mobility options

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>26%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>39%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>16%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>8%</td>
</tr>
<tr>
<td>Not sure</td>
<td>12%</td>
</tr>
</tbody>
</table>

TCI19x3...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Adding bike lanes to existing roads and bridges

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>23%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>39%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>17%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>11%</td>
</tr>
<tr>
<td>Not sure</td>
<td>10%</td>
</tr>
</tbody>
</table>

TCI19x4...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Providing consumer rebates or incentives to purchase cleaner-fuel vehicles, like electric vehicles

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>31%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>36%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>13%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>9%</td>
</tr>
<tr>
<td>Not sure</td>
<td>11%</td>
</tr>
</tbody>
</table>
TCI19x5...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Building and expanding charging infrastructure for electric vehicles

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>25%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>37%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>14%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>10%</td>
</tr>
<tr>
<td>Not sure</td>
<td>14%</td>
</tr>
</tbody>
</table>

TCI19x6...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Repairing existing roads and bridges, such as fixing bridges that are in poor condition

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>59%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>27%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>7%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>3%</td>
</tr>
<tr>
<td>Not sure</td>
<td>5%</td>
</tr>
</tbody>
</table>

TCI19x7...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Investing in existing roads and bridges to make them more resilient to the impacts of climate change, such as extreme weather and flooding

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>47%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>35%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>7%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>4%</td>
</tr>
<tr>
<td>Not sure</td>
<td>7%</td>
</tr>
</tbody>
</table>

TCI19x8...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Adding new bus routes and train lines to reach communities, including in rural and suburban locations, that don’t currently have access to public transportation

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>36%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>39%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>10%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>5%</td>
</tr>
<tr>
<td>Not sure</td>
<td>10%</td>
</tr>
</tbody>
</table>
TCI19x9...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Increasing the availability of paratransit, or services that supplement mass transit by providing individualized rides without fixed routes or timetables

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>26%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>36%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>14%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>7%</td>
</tr>
<tr>
<td>Not sure</td>
<td>18%</td>
</tr>
</tbody>
</table>

TCI19x10...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Expanding high speed communications and internet, especially to rural communities and those who can least afford this essential service

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>42%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>35%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>8%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>6%</td>
</tr>
<tr>
<td>Not sure</td>
<td>8%</td>
</tr>
</tbody>
</table>

TCI19x11...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Increasing the frequency of buses and trains along existing routes

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>28%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>39%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>13%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>7%</td>
</tr>
<tr>
<td>Not sure</td>
<td>14%</td>
</tr>
</tbody>
</table>

TCI19x12...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Reducing the pollution emitted in shipping ports by installing zero-emission electric equipment

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>31%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>34%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>12%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>8%</td>
</tr>
<tr>
<td>Not sure</td>
<td>14%</td>
</tr>
</tbody>
</table>
TCI19x13...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Improving reliability of public transit (e.g., buses, trains, and subways)

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>38%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>40%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>9%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>4%</td>
</tr>
<tr>
<td>Not sure</td>
<td>9%</td>
</tr>
</tbody>
</table>

TCI19x14...Do you support or oppose directing proceeds from the Transportation and Climate Initiative (TCI) to each of the following infrastructure projects in your state? - Modernizing and improving public transit (e.g., replacing older buses with new electric buses, upgrading old subway cars and trains, adding solar to bus stops, upgrading transit stations)

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly support</td>
<td>34%</td>
</tr>
<tr>
<td>Somewhat support</td>
<td>38%</td>
</tr>
<tr>
<td>Somewhat oppose</td>
<td>11%</td>
</tr>
<tr>
<td>Strongly oppose</td>
<td>6%</td>
</tr>
<tr>
<td>Not sure</td>
<td>11%</td>
</tr>
</tbody>
</table>

TCI20x1...How much, if at all, do you trust the following people and groups to provide information about the Transportation and Climate Initiative (TCI)? - Health professionals, such as doctors, nurses, or first responders

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A lot</td>
<td>39%</td>
</tr>
<tr>
<td>Some</td>
<td>42%</td>
</tr>
<tr>
<td>Not much</td>
<td>14%</td>
</tr>
<tr>
<td>Not at all</td>
<td>5%</td>
</tr>
</tbody>
</table>

TCI20x2...How much, if at all, do you trust the following people and groups to provide information about the Transportation and Climate Initiative (TCI)? - Local government officials

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A lot</td>
<td>15%</td>
</tr>
<tr>
<td>Some</td>
<td>46%</td>
</tr>
<tr>
<td>Not much</td>
<td>26%</td>
</tr>
<tr>
<td>Not at all</td>
<td>13%</td>
</tr>
</tbody>
</table>
How much, if at all, do you trust the following people and groups to provide information about the Transportation and Climate Initiative (TCI)?

**Business leaders**

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A lot</td>
<td>11%</td>
</tr>
<tr>
<td>Some</td>
<td>41%</td>
</tr>
<tr>
<td>Not much</td>
<td>35%</td>
</tr>
<tr>
<td>Not at all</td>
<td>14%</td>
</tr>
</tbody>
</table>

**My state’s governor**

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A lot</td>
<td>21%</td>
</tr>
<tr>
<td>Some</td>
<td>40%</td>
</tr>
<tr>
<td>Not much</td>
<td>21%</td>
</tr>
<tr>
<td>Not at all</td>
<td>18%</td>
</tr>
</tbody>
</table>

**President Elect Joe Biden**

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A lot</td>
<td>21%</td>
</tr>
<tr>
<td>Some</td>
<td>41%</td>
</tr>
<tr>
<td>Not much</td>
<td>23%</td>
</tr>
<tr>
<td>Not at all</td>
<td>15%</td>
</tr>
</tbody>
</table>

**Climate scientists**

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A lot</td>
<td>37%</td>
</tr>
<tr>
<td>Some</td>
<td>59%</td>
</tr>
<tr>
<td>Not much</td>
<td>15%</td>
</tr>
<tr>
<td>Not at all</td>
<td>9%</td>
</tr>
</tbody>
</table>
How much, if at all, do you trust the following people and groups to provide information about the Transportation and Climate Initiative (TCI)?

**Oil and natural gas companies**

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A lot</td>
<td>15%</td>
</tr>
<tr>
<td>Some</td>
<td>38%</td>
</tr>
<tr>
<td>Not much</td>
<td>29%</td>
</tr>
<tr>
<td>Not at all</td>
<td>18%</td>
</tr>
</tbody>
</table>

**Renewable energy companies**

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A lot</td>
<td>23%</td>
</tr>
<tr>
<td>Some</td>
<td>46%</td>
</tr>
<tr>
<td>Not much</td>
<td>22%</td>
</tr>
<tr>
<td>Not at all</td>
<td>9%</td>
</tr>
</tbody>
</table>

**Environmental organizations**

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A lot</td>
<td>27%</td>
</tr>
<tr>
<td>Some</td>
<td>42%</td>
</tr>
<tr>
<td>Not much</td>
<td>20%</td>
</tr>
<tr>
<td>Not at all</td>
<td>11%</td>
</tr>
</tbody>
</table>

**TV weather forecasters/meteorologists**

<table>
<thead>
<tr>
<th>Response</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A lot</td>
<td>17%</td>
</tr>
<tr>
<td>Some</td>
<td>46%</td>
</tr>
<tr>
<td>Not much</td>
<td>25%</td>
</tr>
<tr>
<td>Not at all</td>
<td>11%</td>
</tr>
</tbody>
</table>
TCI Poll Methodology

Poll number: pr2025

Interview Dates: November 9-15, 2020


Sample Selection: Scientific online poll - stratified sample of panel respondents.

Weighting Parameters: The sample was weighted based on the U.S. Census Bureau’s Voting and Registration Supplement to the Current Population Survey for registered voters across TCI states based on age, gender, race, educational attainment, state proportions, and Hispanic ethnicity.

This topline provides weighted percentages, as well as the unweighted N-size for the total sample. Due to the effects of weighting and rounding, figures may or may not add up to 100%. The standard deviation of the weights was: 0.1904898. The maximum weight was: 1.6681629. The minimum weight w as: 0.4801848. 95% of the weights were between 0.7037685, 1.3959446.

Margin of Error: The 95% credibility interval for this survey is +/- 1.6%, which includes the square root of the design effect (DEFT): 1.0179768.

State MRP Methodology

Climate Nexus utilizes MRP to develop state and local public opinion estimates from national survey data.

Multilevel modeling and poststratification (MRP) is an analytical methodology designed to provide accurate, detailed estimates of public opinions for small geographic areas. The method emerged in recent decades from political science and has been widely shown to produce estimates more accurate than any competing approaches. An MRP analysis involves two stages. First, individual survey responses are modeled as a function of demographics, location, and geographic covariates (the “multilevel regression model”). In this way, unique geographic variability from local residents (while controlling for their demographic characteristics) can be captured and used to estimate opinions for nearby places. The second step is poststratification, where the fitted estimates for each demographic-geographic respondent type are weighted by their actual (census-based) population counts for a given area. Percentages of respondents with a particular preference can then be estimated for every state, county, or other geographic unit.

MRP has been referred to as the “gold standard” for estimating sub-national opinion (Selb and Munzert 2011, 456), but in some contexts, dis-aggregation may be preferred when sample sizes are large enough and close to random. In particular, studies aimed at assessing causal effects on public opinion should generally use disaggregation rather than a model-based method such as MRP (Caughey and Warshaw, 2019).

Nexus employs an advanced version of MRP, called multilevel regression and synthetic post-stratification (MRPsP) to calculate estimates. This approach has been shown to increase the prediction and precision of sub-national public opinion estimation beyond traditional MRP by using synthetic joint distributions that are created on the marginal distributions. In comparison, traditional MRP utilizes “true” joint distributions, or stratas, such as the interaction of age + gender + race, and is therefore limited to few variables. As an alternative, we use a technique called multidimensional iterative proportional fitting (mipfp) to develop cell proportions for each demographic type, which is an exercise in spatial micro-simulation.

By sidestepping the stringent data requirements of traditional MRP, we are able to develop dynamic and robust predictive models that include more predictive variables to better assess public opinion within small geographic boundaries. Once compiled, we use a generalized mixed effects regression model to develop the predicted estimates for each population strata, and then we post-stratify to take the weighted sum across all cells to make inferences about each state.

We use the ~3800 person TCI survey data to fit a generalized mixed effects model:

\[ y = Pr(y_i = 1) = \logit^{-1}(\alpha + \beta x + \epsilon_i) \]

where

\[ \logit^{-1}(\alpha) = \frac{\exp(\alpha)}{\exp(\alpha) + 1} \]

where distributions of the random effect covariates (individual-level predictors \( y \sim (\mid a) + (\mid b) + \ldots (\mid n) \)) are drawn with mean zero and estimated variance:

\[ \begin{align*}
\alpha^{\text{race}} & \sim N(0, \sigma^{\text{race}}^2), \text{ for } \alpha^j = 1, \ldots, 3 \\
\alpha^{\text{education}} & \sim N(0, \sigma^{\text{education}}^2), \text{ for } \alpha^j = 1, \ldots, 4 \\
\alpha^{\text{gender}} & \sim N(0, \sigma^{\text{gender}}^2), \text{ for } \alpha^j = 1, \ldots, 2 \\
\alpha^{\text{state-DC}} & \sim N(0, \sigma^{\text{state-DC}}^2), \text{ for } \alpha^j = 1, \ldots, 51 \\
\alpha^{\text{Hispanic}} & \sim N(0, \sigma^{\text{Hispanic}}^2), \text{ for } \alpha^j = 1, \ldots, 9 \\
\end{align*} \]

In the model, each individual’s response is a function of their individual level demographic variables, state/congressional district grouping variables, and interactions. The individual-level covariates are specified as random effects and have varying intercepts. Group-level predictors (such as election returns, percent of same sex households in a district, total CO2 emissions, and the percent that drive alone in a particular state - all covariates that are useful in estimating questions related to climate change) do not have varying intercepts or slopes. Covariates are chosen to maximize the model’s “r-squared”, or predictive power in the sense that they are useful in understanding the variance we witness in the outcome variable.

Each stratum or “type of individual” in the state is estimated using multidimensional iterative proportional fitting (mipfp), which calculates the synthetic joint distribution derived from the marginal distributions of the individual level covariates obtained from the Census (gender, race, Hispanic ethnicity, and educational attainment) for each state in the state resulting in:

\[ N_{\text{state-strata}} = 2(\text{gender}) \ast 3(\text{race}) \ast 4(\text{education}) \ast 2(\text{Hispanic}) = 48 \]

MRP Model Specs

For individual \( i \), with the following indexes for each demographic variable in the model, the state model, can typically be defined:
$$y = \Pr(y_i = 1) = \logit^{-1}(\alpha + \beta x_i + \epsilon_i)$$

where non random effects covariates can be standardized.

The prediction for each strata, that is, the prediction for each “type of person” is then weighted by the population frequency of the cell (poststratification).

State Model & Prediction Differences (IF APPLICABLE)

Due to the fact that the state and CD models have different random effects parameters and geographic outcome variables, it is likely that we find different in-group estimates that do not allow for comparison across the MRsP models. As a result of the varying random effects parameters (in-group variation that allows shifts in the slope or intercept of a variable), a state’s overall MRsP estimate may vary from the average estimate across all CD MRsP estimates in a given state. This is evident in at-large district states where the state MRsP prediction outcome does not equal the CD-level prediction.

While we do expect at-large district estimates from the CD model to fall within the average margin of error of the state model (see below for section on margins of error), to minimize confusion, all at-large district estimates will equal the state model prediction.

MRP Confidence Intervals / Margins of Error

To capture model uncertainty in predictions at the 95% confidence level from multilevel models (merMod objects (https://www.rdocumentation.org/packages/lme4/v1.1-7/topics/merMod-class)), we utilize merTools::predictInterval(). By drawing a sampling distribution for the random and the fixed effects and then estimating the fitted value across that distribution, it is possible to generate a prediction interval for fitted values that includes all variation in the model except for variation in the covariance parameters. This is a much faster alternative than bootstrapping for models fit to medium to large data sets.

To estimate the overall margin of error (3) for each geographic unit (utilizing a draw::compute approach), where the function g(x) yields an MRP estimate for a given state, we iterate the merTools::predictInterval() process 999 times for each survey question then calculate the confidence interval at the 95% confidence level for each subgroup within a state. The margin of error for each subgroup can be calculated by subtracting the lower bound of the confidence interval from the upper bound, and dividing by two. To calculate the state’s overall margin of error for a given survey question we multiply each subgroup’s margin of error by the n-size (or percent of the population) of that group and divide it by the sum of those weighted margins of error (the weighted mean by the proportion of that subgroup):

$$\text{State level estimate MoE: } \pm \frac{X}{n}$$

The average range of the MoE across modeled answer options are between:

- State level estimate MoE: ±5-9%

Because each estimate for a specific answer choice in the survey is modeled outcome variable with its own corresponding confidence interval, questions may or may not add up to 100%. If they do not, we normalize results to help with interpretation.

Sub-national MRP crosstab models for Party Identification

To develop cross tabs for particular a demographic group (i.e. PartyID), we first calculate the proportion of that demographic type in a given geographic region using mipfp, we then filter for the specific subgroup (different levels within categories such as gender, educational attainment, race, etc.) and develop new post-stratification weights by taking the cell weighted proportion and dividing it by the sum of the weights of that subgroup. In the final step, we sum the post-stratified predicted probabilities for each subgroup.

If a demographic type does not have Census proportions (such as proportions of self identified Republicans in a given state, which isn’t tracked by the Census) we first develop an MRsP model to calculate the proportion of individuals that fit that demographic type, much like predicting any other survey question or outcome variable. We then use those proportions as given population percentages in a given state and can then filter, divide the sum of the weights of that variable, post-stratify, and sum across each cell.

We follow the process below to estimate opinions of a given subgroup.

$$m = \text{poststratificationweights of sub} - \text{population weights}$$

$$y = \Pr(y_i = 1) = \logit^{-1}(\alpha + \beta x_i + \epsilon_i)$$

$$\text{weightedStatePred} = \sum_{i=1}^{n} \logit^{-1}(\alpha + \beta x_i + \epsilon_i) * \frac{m_i}{\sum m_i}$$

For this poll we included modeled partyID proportions for each state, included it into the MRsP model resulting in 144 nested subgroups that we predict on by state:

$$N_{state,party} = 2(\text{gender}) * 3(\text{race}) * 4(\text{education}) * 2(\text{Hispanic}) * 3(\text{PartyID}) = 144$$

The full partisan state model can be defined:

$$y = \Pr(y_i = 1) = \logit^{-1}(\beta + \gamma_{race} + \gamma_{education} + \gamma_{state+DC} + \gamma_{region} + \gamma_{gender} +$$

$$\alpha_{hispanic} + \alpha_{election2016} + \alpha_{totalCO2} +$$

$$\alpha_{percent_same} + \alpha_{percent_drive_alone}$$