Focus Area Project

Demographic and Socio-economic Horizon Year Scenario Planning

December 19, 2018
Scenario Planning
Scenario Planning

Scenario planning is an approach to strategic planning that uses alternate narratives of plausible futures (or future states) to play out decisions in an effort to make more informed choices and create plans for the future.

- Federal Highway Administration
Types of Scenarios

- Environmental
- Technological
- Economic
- Political
- Demographic
Focus Area

• **Project**
  – Demographic and Socio-economic Horizon Year Scenario Planning

• **Purpose**
  – Expand knowledge and understanding of existing and forecasted regional demographic and socio-economic trends and their impact on travel behavior, choices, and patterns.

• **Description**

• **Potential Products**
  – Demographic and Socio-economic trend analysis
  – Cooperative Forecasting Group/Technical Committee Scenario Planning Exercise
Fertility Rates
Total Fertility Rates, 1950 - 2015

Source: Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat.
Total Fertility Rates, Estimated and Projected

Source: Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat.
Total Fertility Rate, United States

U.S. Replacement Rate = 2.1

Labor Force Participation Rates
Total Labor Force Participation Rate: 1970 - 2010

Source: IPUMS National Historical Geographic Information System: Version 13.0; U.S. Census Bureau ACS 1-Year Estimates, Table B23001.
Female Labor Force Participation Rate: 1970 - 2010

Source: IPUMS National Historical Geographic Information System: Version 13.0; U.S. Census Bureau ACS 1-Year Estimates, Table B23001.
Male Labor Force Participation Rate: 1970 - 2010

Source: IPUMS National Historical Geographic Information System: Version 13.0; U.S. Census Bureau ACS 1-Year Estimates, Table B23001.
Baltimore Region Labor Force Participation Rate by Sex: 1970 - 2010

Source: IPUMS National Historical Geographic Information System: Version 13.0; U.S. Census Bureau ACS 1-Year Estimates, Table B23001.
Round 9: Population and Employment
CivHHLF and Employment: 2000 - 2045

Source: U.S. Census Bureau; Bureau of Economic Analysis; Cooperative Forecasting Group; Baltimore Metropolitan Council.
### Round 9.1 Forecast of Employment and Households and Calculated "Shortfall"

(Thousands)

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2020</th>
<th>2025</th>
<th>2030</th>
<th>2035</th>
<th>2040</th>
<th>2045</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forecast Employment (9.1)</td>
<td>3,281</td>
<td>3,361</td>
<td>3,573</td>
<td>3,774</td>
<td>3,947</td>
<td>4,116</td>
<td>4,274</td>
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<tr>
<td>Households &quot;Needed&quot; for Jobs</td>
<td>2,130</td>
<td>2,182</td>
<td>2,320</td>
<td>2,451</td>
<td>2,563</td>
<td>2,673</td>
<td>2,775</td>
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<tr>
<td>Forecast Households (9.1)</td>
<td>2,085</td>
<td>2,133</td>
<td>2,255</td>
<td>2,375</td>
<td>2,477</td>
<td>2,565</td>
<td>2,660</td>
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<tr>
<td>Housing &quot;Shortfall&quot;</td>
<td>45</td>
<td>49</td>
<td>65</td>
<td>76</td>
<td>86</td>
<td>108</td>
<td>115</td>
</tr>
</tbody>
</table>

**Notes:**

1. Estimate
2. Shortfall calculated using "1.54 Jobs Per Household" ratio

Source: MWCOC, Round 9.1 Cooperative Forecasts

Note: Table is from a Metropolitan Washington Council of Governments memorandum: *Meeting the Region’s Current and Future Housing Needs*, September 5, 2018.
What scenario(s) are you interested in exploring?
For More Information

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