PERFORMANCE MEASURES

MAP-21/FAST ACT: Develop measures to track and maximize the benefits of transportation planning decisions and link infrastructure investments to:

- STBG-UZA project selection
- Metropolitan Planning and ITS
- Transportation Improvement Program (TIP/Short Range Plan)
- Metropolitan Transportation Plan (MTP/Encompass 2040)
TARGET SETTING

- Establishing a quantifiable value to gauge progress over time
- Current target year – CY2022
- System performance targets are set every four years
- Two options:
  - Support the targets set by ODOT
  - Set our own targets for roads in the metropolitan area (OCARTS Region)
TARGETS TO SET

• Pavement Condition
• Bridge Condition
• System Performance
  – Travel Time Reliability
  – Truck Travel Time Reliability
OCARTS NHS PAVEMENT CONDITION

• ODOT identifies the maintaining of current performance of roadways as the desired state of good repair.

• Pavement condition is calculated using:
  – Pavement Quality Index
  – Anticipated funding levels
  – Detailed analytical models based on years of historical pavement condition and performance data

• OCARTS pavement condition was derived from ODOT statewide calculations.
### OCARTS INTERSTATE NHS PAVEMENT CONDITION

<table>
<thead>
<tr>
<th>Condition</th>
<th>ACOG’S CALCULATED MEASURE</th>
<th>ODOT’S 2022 TARGET</th>
<th>ACOG’S 2022 RECOMMENDATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GOOD CONDITION</strong></td>
<td>- 54.9% of OCARTS Pavements in Good Condition</td>
<td>- Stay above 50%</td>
<td>- Support ODOT’s Target</td>
</tr>
<tr>
<td><strong>POOR CONDITION</strong></td>
<td>- 2.3% of OCARTS Pavements in Poor Condition</td>
<td>- Stay below 3%</td>
<td>- Support ODOT’s Target</td>
</tr>
</tbody>
</table>
## OCARTS Non-Interstate NHS Pavement Condition

<table>
<thead>
<tr>
<th>Condition</th>
<th>ACOG’s Calculated Measure</th>
<th>ODOT’s 2022 Target</th>
<th>ACOG’s 2022 Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Good Condition</strong></td>
<td><em>28.1% of OCARTS Pavements in Good Condition</em></td>
<td>Stay above 45%</td>
<td>Adopt regional target: stay above 28%</td>
</tr>
<tr>
<td><strong>Poor Condition</strong></td>
<td><em>3.9% of OCARTS Pavements in Poor Condition</em></td>
<td>Stay below 5%</td>
<td>Support ODOT’s Target</td>
</tr>
</tbody>
</table>
OCARTS NHS BRIDGE CONDITION

• Bridge condition is classified as “good” or “poor” using the National Bridge Inventory (NBI) condition ratings.

• Condition is determined by the lowest rating for Deck, Superstructure, Substructure and Culvert.

• OCARTS bridge condition was derived from ODOT statewide calculations.
## OCARTS NHS BRIDGE CONDITION

<table>
<thead>
<tr>
<th></th>
<th>ACOG’s Calculated Measure</th>
<th>ODOT’s 2022 Target</th>
<th>ACOG’s 2022 Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GOOD CONDITION</strong></td>
<td>45% of OCARTS Bridges in Good Condition</td>
<td>Stay above 55%</td>
<td>Adopt regional target: stay above 45%</td>
</tr>
<tr>
<td><strong>POOR CONDITION</strong></td>
<td>4.4% of OCARTS Bridges in Poor Condition</td>
<td>Stay below 5%</td>
<td>Support ODOT’s Target</td>
</tr>
</tbody>
</table>
OCARTS SYSTEM PERFORMANCE

- System performance measures assess the Travel Time Reliability (TTR) for all traffic on the NHS and the Truck Travel Time Reliability (TTTR) for trucks only on the interstate system.

- TTR and TTTR are calculated using speed data from the National Performance Management Research Data Set (NPMRDS).

- TTR and TTTR are calculated as a ratio of the worst-case travel time (80th percentile) to the normal travel time (50th percentile).
## OCARTS INTERSTATE AND NON-INTERSTATE TRAVEL TIME RELIABILITY

<table>
<thead>
<tr>
<th></th>
<th>ACOG’s Calculated Measure</th>
<th>ODOT’s 2022 Target</th>
<th>ACOG’s 2022 Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INTERSTATE</strong></td>
<td>86.5% of OCARTS Interstate NHS are Reliable</td>
<td>Stay above 90%</td>
<td>Adopt regional target: stay above 86%</td>
</tr>
<tr>
<td><strong>NON INTERSTATE</strong></td>
<td>79.5% of OCARTS Interstate NHS are Reliable</td>
<td>Stay above 80%</td>
<td>Support ODOT’s Target</td>
</tr>
</tbody>
</table>
### OCARTS INTERSTATE NHS
#### TRUCK TRAVEL TIME RELIABILITY

<table>
<thead>
<tr>
<th>ACOG’s Calculated Measure</th>
<th>ODOT’s 2022 Target</th>
<th>ACOG’s 2022 Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>TTTR Index of 1.49</td>
<td>Stay below 1.33</td>
<td>Adopt regional target: stay below 1.50</td>
</tr>
</tbody>
</table>
FUTURE PERFORMANCE MEASURES*

• Economic Strength/Performance
  – Mode share for commuter trips
  – User Cost (as a function of delay)

• Safety and Security
  – Existence of Regional Security Strategies

• Equity and Options/Connectivity
  – Miles of sidewalk and bicycle paths/lanes added within ¼ mile of a transit stop
  – Percent of population and jobs located within ¼ mile of transit stops

• Healthy Communities/Connectivity
  – Annual air quality index reading for the region
  – Average trip distance
  – Total miles of sidewalk and bicycle facilities

*non federally required measures, established by the OCARTS region for ENCOMPASS 2040
ANNUAL SAFETY TARGETS

- Established every year
- Next target year: CY 2019
- Targets due to ODOT by February 27, 2019
  - For information in December 2018
  - For action in January 2019
QUESTIONS?

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ASSOCIATION OF  
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GOVERNMENTS

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