



# North Carolina Mobility Fund Project Scoring



**MOBILITYFUND**  
NORTH CAROLINA



## History

### Created by Governor and Legislature in 2010

- First project is Yadkin River Bridge Phase II
- Initial project selection criteria developed
- FY 13 = \$45M; FY 14+ = \$58M

### Legislature modified project selection language in 2011

- NCDOT revised project selection criteria

### NCDOT solicited projects in December 2011

- Submittal window open December 1, 2011 – February 29, 2012





## Minimum Eligibility Requirements

**Must be on Statewide or Regional Tier (defined by NCMIN)**

**Light rail, bus rapid transit, and commuter rail will be eligible.**

**Focus on short delivery time – funds must be obligated for construction within 5 years.**

**Must be identified on an adopted long-range transportation plan, consistent with a local land use plan where available.**

**Projects must be in a conforming air quality plan in non-attainment or maintenance areas.**

**Capital expenditures only; Maintenance, Operational & Planning costs ineligible.**

**No minimum cost as threshold for funding.**





## Project Scoring Criteria & Weights

CRITERIA	WEIGHT	DESCRIPTION
<p><b>Mobility Benefit / Cost</b></p>	<p><b>80%</b></p>	<ul style="list-style-type: none"> <li>• Measured by travel time savings (in vehicle hours)</li> <li>• Divided by “cost to Mobility Fund”</li> <li>• Used to compare projects across transportation modes</li> </ul>
<p><b>Multimodal / Intermodal</b></p>	<p><b>20%</b></p>	<ul style="list-style-type: none"> <li>• Yes / No question</li> <li>• Project improves more than one mode of travel</li> <li>• Sliding scale</li> </ul>

***No Cap on the Mobility Benefit/Cost Scoring***





## Multimodal / Intermodal Scoring

Improvement	Points
Light Rail	100
Bus Rapid Transit / Busway	100
Commuter Rail	100
Intercity rail	100
Highway and Rail Projects which improve access to or within ports, military installations, and inland ports; rail projects which reduce truck traffic on the highway system	100
Shortline Rail projects which enhance access to industrial sites	100
HOV / HOT Lanes	100



## Multimodal / Intermodal Scoring

Improvement	Points
Addition of a new bus route to a fixed route system	50
Adding new transit vehicles to improve frequency of service (not replacement vehicles)	50
Aviation Runway/Taxiway Projects	25
Ferry	25
Bicycle/Pedestrian commuter projects (not recreational)	10

Note: Projects can only receive points for one improvement. If a project includes more than one improvement listed above, the project receives the higher of the points.



## Scoring Process

### Review all submitted projects for eligibility

- 95 total projects evaluated

### Worked with the following NCDOT Units on project scoring:

- Division of Aviation – Provided Aviation project data
- Rail Division – Provided Freight Rail project data
- Congestion Management – Evaluated Intersection/Interchange Improvement Projects
- Preliminary Estimate Section – Provided/Updated Construction Cost Estimates
- Right-of-Way Branch – Provided/Updated Right-of-Way Cost Estimates





## Travel Time Savings Calculation

### 1. Calculate Travel Time along existing facility

$$TT \text{ (Existing)} = \text{Length/Ideal Speed} \times \text{Congestion Factor}$$

### 2. Calculate Travel Time along improved facility

$$TT \text{ (Project)} = \text{Length/Ideal Speed} \times \text{Congestion Factor}$$

$$\text{Travel Time Savings (hours)} = TT \text{ (Project)} - TT \text{ (Existing)}$$

$$\text{Multiply Savings by \# users} \times \text{\# working days/yr} \times 30 \text{ yrs} \times \$ \text{ per hour}$$

### Notes:

- For Project Travel Time, Length and Speed could change.
- For Projects on New Location, a current/parallel route is used for existing travel time; and the new route is used for the project travel time







## Top Mobility Fund Project Scores - Draft

Project	County(s)	Points
1. Triangle Bus-On-Shoulder-System	Wake, Durham	496.32
2. I-77 HOT Lanes from I-277 to Catawba Avenue	Mecklenburg	108.18
3. NC 54 (Hillsborough St) / Blue Ridge Road / NCRR Grade Separation	Wake	101.07
4. CSX and Norfolk Southern Grade Separation	Mecklenburg	89.23
5. I-440 (Beltline) Widening from I-40 to Wade Avenue	Wake	73.54
6. US 501 (Roxboro Road) / Latta Road/Infinity Road Intersection Improvements	Durham	63.56
7. I-485 Express Toll Lanes from I-77 to US 74	Mecklenburg	58.68
8. I-40 Widening from US 15-501 to I-85	Orange	52.61
9. NC 54 / Farrington Road / I-40 Intersection Improvements	Durham	52.58
10. NCVA Railroad Mainline Track Improvements	Northampton, Bertie, Hertford	50.75



## Top Mobility Fund Project Scores - Draft

Project	County(s)	Points
11. Pembroke Northeast Rail Connector	Robeson	47.88
12. US 70 / Brier Creek Parkway Interchange	Wake	47.87
13. I-40 / Aviation Parkway Interchange Improvements	Wake	42.75
14. I-295 (Fayetteville Loop) from Cliffdale Road to Yadkin Road	Cumberland	40.67
15. NC 54 Widening from I-40 to Barbee Chapel Road	Durham, Orange	39.18
16. US 70 / Slocum Road Intersection Improvements	Craven	36.27
17. US 74 (Independence Blvd) Upgrade from NC 27 to Idlewild Rd	Mecklenburg	35.92
18. I-40 Widening from US 70 Bus. to US 70 Bypass	Wake	34.57
19. Wallace to Castle Hayne Rail Improvements	New Hanover, Pender	34.46
20. US 70 (Glenwood Ave) Widening from Duraleigh Road to Triangle Drive	Wake	33.02



## Mobility Fund Next Steps

**Program Development Branch scheduling top projects**

### **Considering:**

- Project readiness (i.e. when project can be let for construction)
- Availability of Mobility Fund dollars

**Projects scheduled for construction expected to be included in Program and Resource Plan / Draft STIP (anticipated in Summer 2012)**

