

March 7, 2014



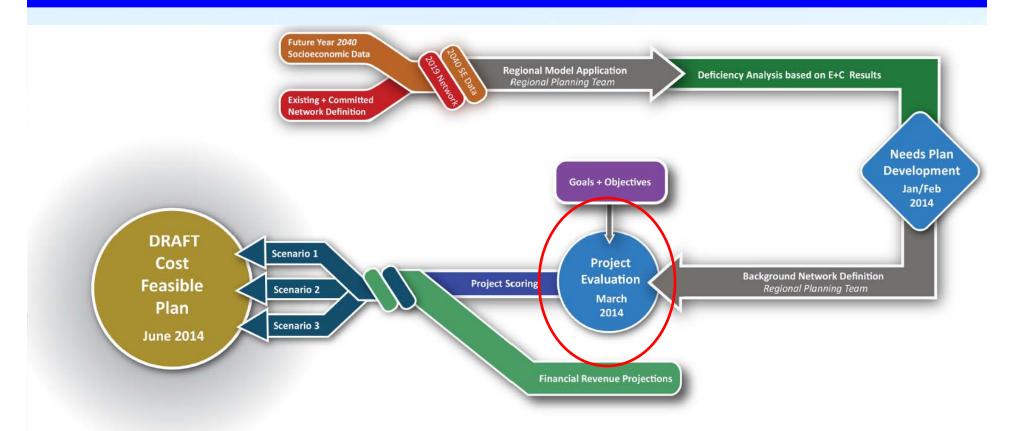
Agenda

- Introductions
- Needs Assessment/MNAT Corridor Results
- Needs Projects Evaluation Methodology
- Project Costs (and Financial Set-Asides)
- Next Steps
- Meeting Adjournment





LRTP Update Process







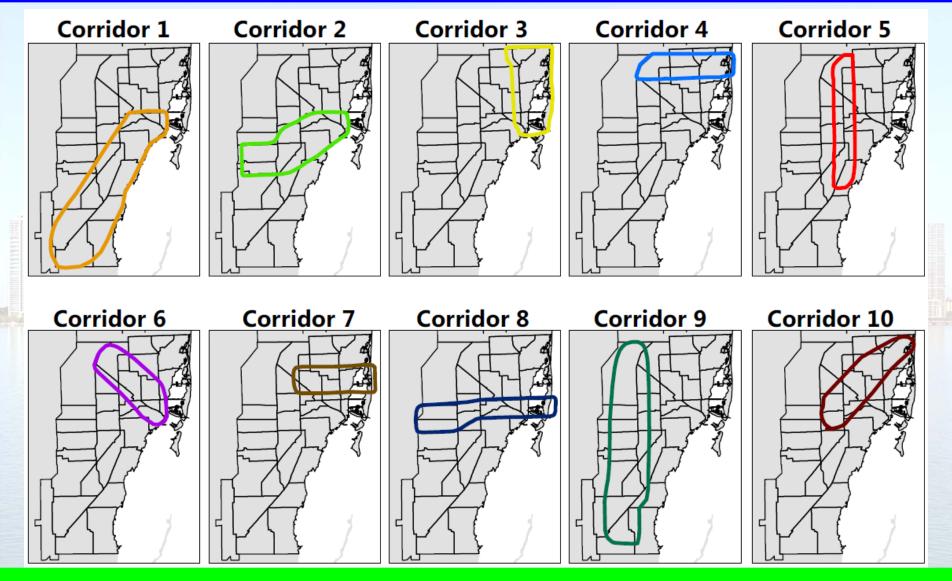
Needs/Cost Feasible Plan Milestones

- Assess Needs January/February 2014
 - MNAT results NOT intended to represent ultimate project impact or project evaluation criteria it is a WORKING tool
- Evaluate/Prioritize Needs March 2014
- Present Needs to Public April 2014
- > Test Cost Feasible Plan scenarios May 2014
- Review/Revise/Finalize DRAFT Cost Feasible Plan June 2014





2040 Needs Assessment Corridors



MNAT Corridor/Screenline Results

- Comparison of E+C Volume/Capacity ratios to estimated reductions in V/C by needs projects
- MNAT Results from workshop indicate all 10 corridors reduced to below 1.0 V/C with needs projects
 (all 10 corridors have V/C>1.0 in E+C)
- With Needs Plan projects, 3 screenlines still have V/C = 1.0 or higher in corridors 3 and 8 – urban core screenlines with limited room for improvement
- Overall, screenline V/C improved by an average 28% or 0.35





MNAT Corridor/Screenline Results

2040 E+C Aggregate V/C	2040 Needs	
	Screenlines with V/C >0.98	Aggregate V/C
1.22	n/a	0.91
1.14	n/a	0.86
1.38	31=1.01, 33=1.05	0.97
1.03	n/a	0.77
1.09	n/a	0.87
1.16	n/a	0.86
1.21	n/a	0.84
1.34	84=1.06	0.87
1.06	n/a	0.73
1.22	n/a	0.83
	Aggregate V/C 1.22 1.14 1.38 1.03 1.09 1.16 1.21 1.34 1.06	2040 E+C Aggregate V/C Screenlines with V/C > 0.98 1.22 n/a 1.14 n/a 1.38 31=1.01, 33=1.05 1.03 n/a 1.09 n/a 1.16 n/a 1.21 n/a 1.34 84=1.06 1.06 1.06 n/a 1.22 n/a

^{*}Aggregate V/C represents sum across screenlines.

Needs Projects Evaluation Methodology

- Projects must be evaluated, scored, and ranked for Cost Feasible Plan development
- Project evaluation methodology is a 3-step process
 - Technical evaluation against specific elements and criteria in 2040 Goals and Objectives.
 - Assign weighted project scores for project ranking.
 (Complementary projects will be identified/grouped.)
 - 3. Presentation of technical results/ranked projects to Committee for further evaluation/tweaking.





Needs Projects Evaluation Methodology Technical Evaluation

Technical evaluation involves a detailed process to isolate and relate projects to "elements" within Goals and Objectives

- 1. Identify elements and develop GIS data to represent them.
- Identify metrics to relate projects to elements.
 (e.g. transit projects within ¼ mile of elderly areas)
- 3. Perform GIS analysis to measure projects against elements.
- 4. Group/Identify complementary projects that do not score similarly.





Needs Projects Evaluation Methodology Scoring

Process carefully designed to provide a fair and balanced scoring across all projects

- 1. For every element addressed within each Goal, 1 point is awarded to the project.
- 2. Because there are varying numbers of elements in the different goals, a percentage of addressed elements is computed for each goal (e.g. 2 of 4 elements addressed = 50%).
- 3. Percentage of addressed elements (by goal) is multiplied by the weight for the goal.
- 4. The product of step 3 for each Goal is summed for a total weighted score.





Needs Projects Evaluation Methodology Scoring Example

MDX102: RCTO Managed Lanes - SR 836

Limits: SR 826/836 Int. to Just west of I-95

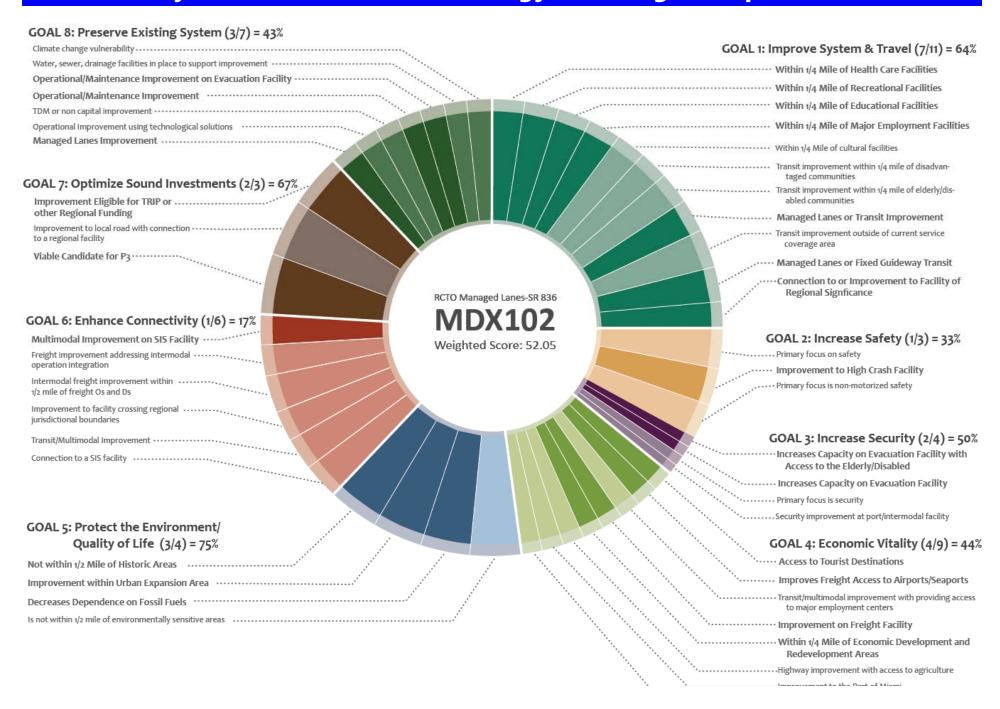
Description: Managed Lanes

Goal	Goal Score	Goal Weight	Weighted Score
Goal 1	64%	25	15.9
Goal 2	33%	8	2.7
Goal 3	50%	3	1.5
Goal 4	50%	12	6.0
Goal 5	75%	14	10.5
Goal 6	17%	14	2.3
Goal 7	67%	12	8.0
Goal 8	43%	12	5.1
	Total:	100	52.1



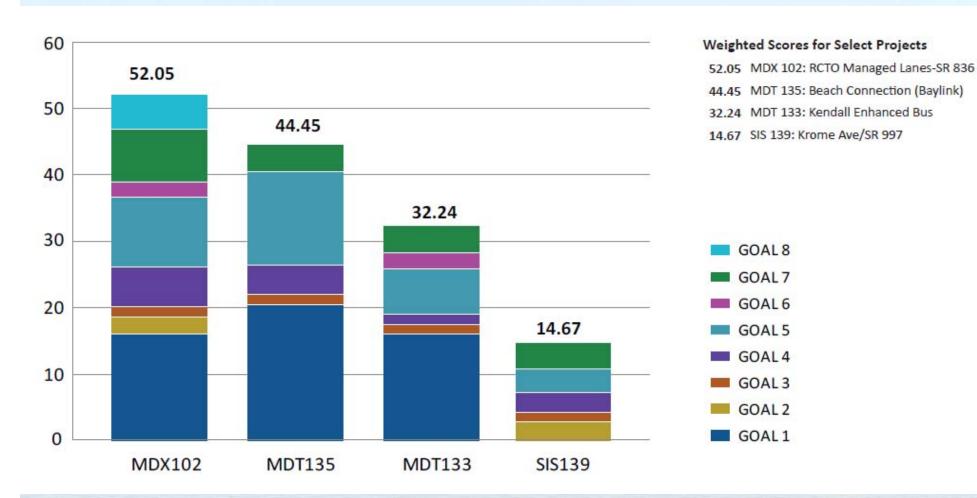


Needs Projects Evaluation Methodology - Scoring Example



Needs Projects Evaluation Methodology Scoring Example





Project Costs

- Detailed project costs needed to build Cost Feasible Plan
 - Planning/Design
 - Right of Way
 - Construction
 - ▶ 0&M
- Historical project costs for projects included in 2035 LRTP Cost Feasible Plan can be accessed at:
 - http://www.miamidade2035transportationplan.com/docs/Miami-Dade2035-FinancialResourcesReportAppB.pdf
- Project cost estimates not provided will be estimated using FDOT unit cost information





Financial Set-Asides

- Financial Set-Asides to guarantee inclusion of particular categories of projects
 - 1. Non-Motorized (2030 and 2035 updates)
 - 2. Congestion Management (2035 update)
 - 3. Freight (New)
- Set-Asides make sense for one or more reasons, including:
 - To facilitate a concurrent planning process (Non-Motorized and Congestion Management)
 - To guarantee inclusion of projects that would otherwise be unfairly prioritized against other types (Freight)





Next Steps

- Project Evaluation
- Project Costs
- Revenue Scenarios
- Public Meetings





Miami-Dade 2040 LRTP

Questions / Comments

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