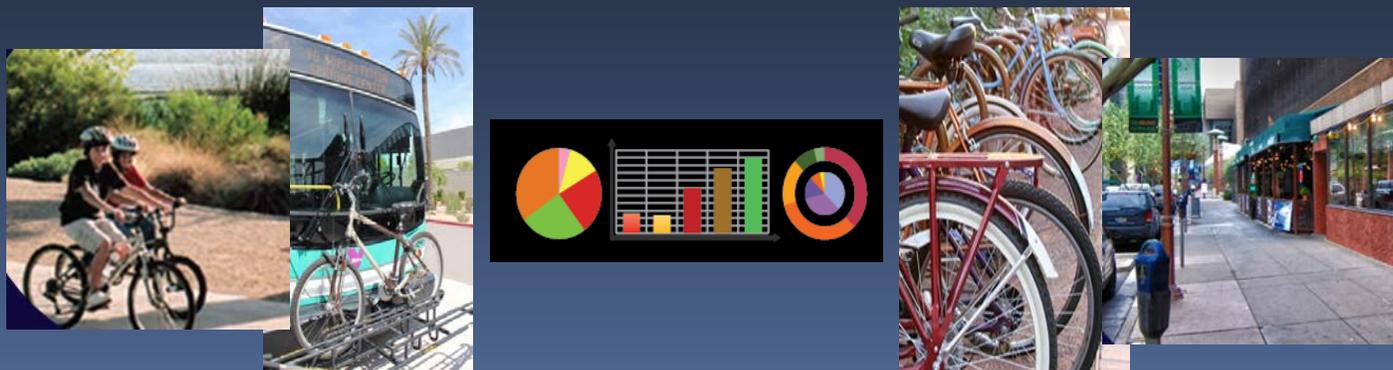




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Bicycle and Pedestrian Evaluative Tool

For
CMAQ and TA Program Applications
7/21/15



Goals and Objectives, Project Information

CONGESTION MITIGATION AIR QUALITY PROGRAM (CMAQ)

Bicycle and Pedestrian Project Evaluation Tool

1 Goals and Objectives

A	Accessibility
B	Safety/Health/ Education
C	Connectivity
D	User Friendliness
E	Implementation

CMAQ - Bicycle and Pedestrian Project Evaluation Tool

2 Project Information

PROJECT #	PROJECT NAME	LOCATION	LIMITS	TYPE OF WORK	SEGMENT LENGTH (MILES)	FACILITY		AADT
						LINEAR	POINT	
1	Project A	Location A	Project A Limits		8.4	Y		7,000
2	Project B	Location B	Project B Limits		0.9	Y		17,200
3	Project C	Location C	Project C Limits		0.3	Y		4,645
4	Project D	Location D	Project D Limits		0.25	Y		5,974
5	Project E	Location E	Project E Limits		1.55	Y		1,935

Quantitative Criteria

CMAQ Bicycle and Pedestrian Project Evaluation Tool			
3 Quantitative Criteria			
CRITERIA #	QUANTITATIVE CRITERIA - ALL OBSERVED DATA	RELATED GOALS AND OBJECTIVES	NOTES
1	Length of Facility Connected	C	
2	Number of Commercial and Employment Destinations	C	
3	Number of Activity Centers	C	
4	Number of K-8 Schools	C	
5	Number of Transit Stops and Park & Rides	A,C,D	
6	Number of Transit Routes Served	A,C,D	
7	Percent of Families in Poverty	B	
8	Population Density along the route (People / Square Mile)	C	
9	Number of different amenity types	C,D	

Qualitative Criteria

CMAQ - Bicycle and Pedestrian Project Evaluation Tool			
5	Qualitative Criteria		
CRITERIA #	QUALITATIVE CRITERIA	RELATED GOALS AND OBJECTIVES	NOTES
1	Improved access from residences to destinations	A	
2	Improved connectivity and access from residences to K-8 schools	D	
3	Project adequately addresses ROW, environmental, or utility issues	D	
4	Project includes effective education and marketing	D	
5	Project has an effective plan for maintaining/ repairing project	D	
6	Included in local plans and/or agency has a policy supporting the project	A,B	
7	Project follows professional/ regional guidelines	B,C	
8	Project includes design elements with the potential to eliminate or reduce crash risk exposure *Used only for Infrastructure Projects*	B	Used only for Infrastructure Projects
9	Project includes a safety education component - *Used only Infrastructure Projects*	B	Used only for Infrastructure Projects
10	Bicycle/ Pedestrian Volume - *Used only for Infrastructure Projects*	B	Used only for Infrastructure Projects
11	Vehicle Speed - *Used only for Infrastructure Projects*	B	Used only for Infrastructure Projects
12	Vehicle Volume - *Used only for Infrastructure Projects*	B	Used only for Infrastructure Projects
13	Project includes a safety education component - *Used only Planning Projects*	B	Used only for Planning Projects
14	Planning Study to Address Safety - *Used only for Planning Projects*	B	Used only for Planning Projects

Air Quality Score (CMAQ Projects Only)

CMAQ - Bicycle and Pedestrian Project Evaluation Tool				
7 Air Quality Score				
PROJECT #	PROJECT NAME	LOCATION	LIMITS	AIR QUALITY SCORE
1	Project A	Location A	Project A Limits	2
2	Project B	Location B	Project B Limits	4
3	Project C	Location C	Project C Limits	1
4	Project D	Location D	Project D Limits	3
5	Project E	Location E	Project E Limits	5
6				

Presentation Criteria and Committee Ranking

CMAQ - Bicycle and Pedestrian Project Evaluation Tool

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Presentation Criteria

Score based on overall understanding of the project based on overall Application, Q&A and Presentation

- Does the proposed project address the identified problem?
- Does the proposed project demonstrate appropriate value for the local jurisdiction and the region?

CMAQ - Bicycle and Pedestrian Project Evaluation Tool

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Committee Rank

Project #	Project Name	Location	Limits	Presentation Rank
1	Project A	Location A	Project A Limits	1
2	Project B	Location B	Project B Limits	4
3	Project C	Location C	Project C Limits	2
4	Project D	Location D	Project D Limits	3
5	Project E	Location E	Project E Limits	5

Assignment of Weights

CRITERIA		CMAQ		TA
Quantitative		30%		55%
Qualitative		15%		30%
Air Quality		40%		0%
Committee Rank		15%		15%
Total		100%		100%

Weighting of Quantitative Criteria: CMAQ and TA

CMAQ Tool – 30%

CRITERIA #	QUANTITATIVE CRITERIA	Assign Weights
1	Length of Facility Connected	3.333%
2	Number of Commercial and Employment Destinations	3.333%
3	Number of Activity Centers	3.333%
4	Number of K-8 Schools	3.333%
5	Number of Transit Stops and Park & Rides	3.333%
6	Number of Transit Routes Served	3.333%
7	Percent of Families in Poverty	3.333%
8	Population Density along the route (People / Square Mile)	3.333%
9	Number of different amenity types	3.333%

TA Tool – 55%

CRITERIA #	QUANTITATIVE CRITERIA	Assign Weights
1	Length of Facility Connected	6.111%
2	Number of Commercial and Employment Destinations	6.111%
3	Number of Activity Centers	6.111%
4	Number of K-8 Schools	6.111%
5	Number of Transit Stops and Park & Rides	6.111%
6	Number of Transit Routes Served	6.111%
7	Percent of Families in Poverty	6.111%
8	Population Density along the route (People / Square Mile)	6.111%
9	Number of different amenity types	6.111%

Weighting of Qualitative Criteria: CMAQ and TA

CMAQ Tool – 15%

TA Tool – 30%

CRITERIA #	QUALITATIVE CRITERIA	Assign Weights
1	Improved access from residences to destinations	1.875%
2	Improved connectivity and access from residences to K-8 schools	1.875%
3	Project adequately addresses ROW, environmental, or utility issues	1.875%
4	Project includes effective education and marketing	1.875%
5	Project has an effective plan for maintaining/ repairing project	1.875%
6	Included in local plans and/or agency has a policy supporting the project	1.875%
7	Project follows professional/ regional guidelines	1.875%
8	Project includes design elements with the potential to eliminate or reduce crash risk exposure *Used only for Infrastructure Projects*	0.563%
9	Project includes a safety education component - *Used only Infrastructure Projects*	0.188%
10	Bicycle/ Pedestrian Volume - *Used only for Infrastructure Projects*	0.375%
11	Vehicle Speed - *Used only for Infrastructure Projects*	0.375%
12	Vehicle Volume - *Used only for Infrastructure Projects*	0.375%
13	Project includes a safety education component - *Used only Planning Projects*	0.375%
14	Planning Study to Address Safety - *Used only for Planning Projects*	1.500%

CRITERIA #	QUALITATIVE CRITERIA	Assign Weights
1	Improved access from residences to destinations	3.750%
2	Improved connectivity and access from residences to K-8 schools	3.750%
3	Project adequately addresses ROW, environmental, or utility issues	3.750%
4	Project includes effective education and marketing	3.750%
5	Project has an effective plan for maintaining/ repairing project	3.750%
6	Included in local plans and/or agency has a policy supporting the project	3.750%
7	Project follows professional/ regional guidelines	3.750%
8	Project includes design elements with the potential to eliminate or reduce crash risk exposure *Used only for Infrastructure Projects*	1.125%
9	Project includes a safety education component - *Used only Infrastructure Projects*	0.375%
10	Bicycle/ Pedestrian Volume - *Used only for Infrastructure Projects*	0.750%
11	Vehicle Speed - *Used only for Infrastructure Projects*	0.750%
12	Vehicle Volume - *Used only for Infrastructure Projects*	0.750%
13	Project includes a safety education component - *Used only Planning Projects*	0.750%
14	Planning Study to Address Safety - *Used only for Planning Projects*	3.000%

Prioritized Results

CMAQ - Bicycle and Pedestrian Project Evaluation Tool						
12	Prioritized Results					
FINAL RANK ORDER	PROJECT # AND LIMITS	QUANTITAVE RANK	QUALITATIVE RANK	AIR QUALITY RANK	COMMITTEE RANK	TOTAL SCORE
1	Project C Limits	3	5	1	2	3.588
2	Project A Limits	5	2	2	1	3.347
3	Project D Limits	1	1	3	3	3.134
4	Project B Limits	2	4	4	4	2.437
5	Project E Limits	4	3	5	5	1.565
6						

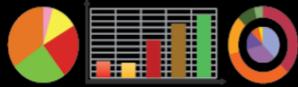
ACTION:

For information, discussion & action.

***Suggested:* Recommend that CMAQ B/P and TA Infrastructure project applications be evaluated as CMAQ, TA, or CMAQ and TA using the proposed Evaluative Tools and weighting criteria.**

MAGni↑ude

Transportation Performance Dashboard



interactive visualization tool for regional multimodal transportation information and analysis

performance.azmag.gov

In collaboration with the Arizona Department of Transportation and Valley Metro



Regional Transportation Plan (RTP)

Project Cards



informational viewer tool for all completed and underway RTP Freeway projects and Light Rail transit projects

projectcards.azmag.gov

In collaboration with the Arizona Department of Transportation and Valley Metro

Thank you

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