

## **APPENDIX E**

### **Case Study Scores**

**TEAM MEMBERS**

	AR	AZ	CA	CO-1	CO-2	CO-3	CT-1	DC	FL	IA	IL
				Berthoud Pass Mountain Access				M Street and Wisconsin Avenue			
			Mandela Parkway Corridor Improvement, Oakland	Project - Phases 1 and 2, Arapaho National Forest			Transportation Expansion River Roundabout, West Haven	Reconstruction, Georgetown	Reconstruction, Tampa	Reconstruction, Hwy 1, Keosauqua Bridge	Prairie Parkway Phase I Engineering Study
	AR 215, Ozark National Forest	SR 179 Reconstruction, Sedona			US 285, Denver	Denver Project, Denver					
<b>Principles</b>											
1	3.7	3.6	3.6	4.0	3.6	3.7	3.7	4.0	3.5	3.2	3.5
2	3.0	3.7	3.8	4.0	3.8	3.7	3.7	4.0	3.7	3.7	3.9
3	3.0	3.9	3.4	3.8	3.6	3.7	3.7	4.0	3.8	3.5	3.9
4	2.0	3.9	3.3	4.0	3.1	3.7	3.3	4.0	3.7	3.2	3.5
5	3.0	3.2	3.4	3.8	3.6	3.7	2.7	4.0	3.2	3.2	3.5
6	3.0	3.6	3.0	3.0	3.4	3.4	3.3	3.7	3.0	3.5	3.8
7	3.7	3.6	3.7	4.0	3.6	3.5	4.0	3.3	3.3	3.8	3.6
8	3.7	3.5	3.7	4.0	3.6	3.2	4.0	3.0	3.2	3.2	3.0
9	3.0	3.6	3.6	3.8	3.4	3.5	3.3	3.7	3.3	3.3	3.3
10	3.7	3.5	3.9	4.0	3.8	3.3	4.0	3.3	3.8	3.7	3.4
11	2.7	3.6	3.1	3.5	3.4	3.3	3.3	3.3	3.2	3.2	3.4
12	3.0	3.6	3.5	3.8	3.6	3.7	3.7	3.7	3.2	3.2	3.6
13	3.0	3.3	3.3	3.8	3.3	3.5	4.0	3.3	3.2	3.2	3.5
14	2.3	2.8	3.2	4.0	3.3	3.6	3.3	3.3	2.8	3.2	3.3
15	3.0	3.4	3.8	4.0	3.6	3.7	3.7	3.7	3.5	3.8	3.2
<b>Number of Responses</b>	3	15	19	4	8	30	3	3	1	6	8

**TEAM MEMBERS**

	KY-1	KY-2	KY-3	MD-1	MD-2	ME	MI-1	MN-1	MT	NC	ND
	New Reconstruction of Cemetery Road (KY 234), Bowling Green	US 27/68 Paris Pike Reconstruction, Lexington-Paris	T2 Transportation - Tomorrow, Louisville	MD Route 75, Union College Park	US 1 Planning Study, College Park	ME Route 26	US 131 S-Curve Replacemnt, Grand Rapids	North Shore Drive	State Route 69, Boulder		Four Bears Bridge Replacemnt, Ft. Berthoud Indian Reservati on
<b>Principles</b>											
1	4.0	3.8	3.8	3.5	3.5	3.5	3.7	3.7	--	4.0	3.5
2	3.3	4.0	3.8	3.8	3.5	3.7	3.8	3.3	--	3.0	3.9
3	3.7	3.5	3.8	3.4	3.6	3.6	3.4	3.7	3.0	--	4.0
4	3.3	3.3	3.8	3.4	3.8	3.2	3.6	3.3	3.0	--	3.3
5	3.7	3.3	3.5	3.6	3.4	3.5	3.4	3.7	--	3.0	3.1
6	3.3	3.0	3.7	3.1	3.4	3.4	3.0	3.3	--	3.0	3.2
7	3.7	3.8	3.8	3.5	3.5	3.6	3.9	3.7	3.0	4.0	3.6
8	3.3	4.0	3.8	3.4	3.5	3.5	3.4	3.7	3.0	3.0	3.5
9	4.0	3.0	3.7	3.3	3.5	3.7	3.4	3.7	3.0	3.0	3.9
10	3.7	4.0	3.5	3.3	3.5	3.6	3.8	3.7	3.0	3.0	3.9
11	3.0	3.3	3.3	3.4	3.2	3.5	3.1	3.3	--	4.0	3.1
12	3.3	3.3	3.5	3.4	3.7	3.5	3.3	3.3	3.0	3.0	3.5
13	3.0	3.5	3.5	3.4	3.5	3.4	3.4	3.3	3.0	--	3.4
14	3.0	3.0	3.4	3.3	3.5	3.4	3.3	3.7	3.0	--	3.3
15	4.0	4.0	3.2	3.5	3.3	3.6	3.6	3.7	4.0	3.0	3.9
<b>Number of Responses</b>	3	4	6	12	6	13	16	2	1	2	9

**TEAM MEMBERS**

	Cases										
	NM	OH-1	OH-2	PA	SC-1	TN	TX	UT	WA-1	WA-2	WY
		Euclid Corridor	Eastern	Mon/Fayette	Cooper River Bridge	SR 73/US 321	FM 1120 Low Water	12300 South	SR 99 Pacific Hwy South	Bridgeport Way	Cody-Yellowstone
		Transportation Project, Cleveland	Corridor, Southwest	Expressway	Replacement Project, Charleston Harbor	Gateway Project, Gatlinburg	Crossing, Real County	Design Build Project	Reconstruction, Des Moines	Reconstruction, University Place	Yellowstone Highway Project
	NM 14 (Turquoise Trail)										
	3.0	4.0	3.8	3.6	4.0	3.6	3.7	3.8	3.5	3.8	4.0
	3.0	4.0	3.9	3.6	4.0	3.9	2.7	4.0	3.5	4.0	4.0
	3.0	4.0	4.0	3.7	4.0	3.9	3.0	3.8	3.5	4.0	3.3
	3.0	4.0	3.9	3.5	4.0	3.8	3.0	3.8	3.3	3.5	3.0
	3.0	3.5	3.6	3.2	4.0	3.9	4.0	3.4	3.0	3.5	3.3
	3.0	4.0	3.9	3.4	3.0	3.3	3.0	3.0	3.5	3.8	3.0
	3.0	3.5	3.9	3.7	4.0	3.7	3.7	4.0	3.8	3.8	3.7
	3.0	3.5	3.5	3.2	4.0	3.7	3.7	3.7	3.5	3.5	3.3
	3.0	3.5	3.6	3.6	4.0	3.6	3.7	3.8	3.0	3.5	3.3
	3.0	3.5	3.7	3.4	4.0	3.7	3.7	4.0	3.5	3.8	3.7
	3.0	3.5	3.9	3.4	3.0	3.4	3.7	3.0	3.3	3.3	2.7
	3.0	4.0	3.8	3.7	3.0	3.9	3.0	4.0	3.8	3.8	3.3
	3.0	3.5	3.4	3.4	3.0	3.3	3.3	4.0	3.3	3.5	3.3
	3.0	3.0	2.8	3.1	4.0	3.4	3.0	3.7	3.8	3.5	3.3
	3.0	3.5	3.4	3.4	4.0	3.7	3.3	4.0	4.0	3.8	4.0

**Principles**

- 1 Use interdisciplinary teams
- 2 Involve stakeholders
- 3 Seek broad-based public involvement
- 4 Use full range of communication strategies
- 5 Achieve consensus on purpose and need
- 6 Address alternatives and all modes
- 7 Consider a safe facility for users and community
- 8 Maintain environmental harmony
- 9 Address community and social issues
- 10 Address aesthetic treatments and enhancements
- 11 Utilize full range of design choices
- 12 Document project decisions
- 13 Track and meet all commitments
- 14 Use agency resources effectively
- 15 Create a lasting value for the community



**TEAM MEMBERS**

Benefits	Cases													
	KY-1	KY-2	KY-3	MD-1	MD-2	ME	MI-1	MN-1	MT	NC	ND			
1	New Reconstruction of Cemetery Road (KY 234), Bowling Green	US 27/68 Paris Pike Reconstruction, Lexington-Paris	T2 Transportation, Tomorrow, Louisville	MD Route 75, Union Bridge	US 1 Planning Study, College Park	ME 26	US 131 S-Curve Replacem ent, Rapids	North Shore Drive	State Route 69, Boulder	NC	Four Bears Bridge Replacem ent, Ft. Berthoud Indian Reservati on			
2	3.3	2.8	2.0	2.7	2.3	3.1	3.3	3.3	3.0	3.0	2.8			
3	2.9	2.9	3.2	3.0	2.9	3.2	2.7	4.0	3.0	--	3.0			
4	3.0	3.0	3.3	3.2	--	3.3	3.2	3.3	--	3.0	2.8			
5	3.3	3.3	3.2	3.2	3.5	3.3	3.1	3.7	3.0	3.0	3.3			
6	2.7	2.7	2.0	3.4	2.7	2.8	3.2	3.3	2.0	3.0	3.0			
7	3.0	2.5	2.5	2.8	2.5	3.6	3.4	3.3	--	4.0	3.0			
8	3.3	3.3	3.5	3.3	3.0	3.6	3.1	3.0	--	--	3.4			
9	3.1	3.2	3.7	3.4	3.4	3.5	3.2	3.5	--	--	3.5			
10	2.0	1.8	2.0	2.2	4.0	2.8	2.0	3.5	--	--	1.8			
11	2.3	2.3	2.5	2.4	2.0	2.8	2.8	3.5	--	--	2.0			
12	3.0	2.8	3.4	3.3	3.0	3.1	2.9	3.7	--	--	3.0			
13	3.4	3.2	3.5	3.2	3.2	3.3	3.2	3.7	3.0	4.0	3.1			
14	4.0	4.0	3.0	3.3	3.0	3.5	3.7	3.7	3.0	3.0	3.3			
15	4.0	2.5	2.5	3.2	3.3	3.4	2.7	3.6	4.0	1.5	3.5			
16	4.0	3.0	2.6	3.5	3.3	3.5	3.5	3.7	4.0	3.0	3.5			
17	3.3	2.0	2.8	2.8	2.7	2.8	2.8	3.3	--	2.0	2.7			
18	3.7	3.5	2.8	3.4	3.5	3.7	3.4	3.3	4.0	3.0	3.8			
19	3.0	3.3	2.0	2.9	2.7	3.3	3.3	3.5	4.0	3.0	3.3			
20	3.7	4.0	3.4	3.5	3.2	3.4	3.2	3.7	3.0	3.0	3.6			
21	3.3	3.3	3.0	3.3	3.0	3.6	3.3	3.7	3.0	4.0	3.0			
22	3.3	3.0	3.4	3.1	2.8	3.4	2.7	3.5	--	--	3.2			

**TEAM MEMBERS**

	Cases											
	NM	OH-1	OH-2	PA	SC-1	TN	TX	UT	WA-1	WA-2	WY	
		Euclid Corridor	Transportation Project, Cleveland	Eastern Corridor, Southwest	Mon/Fayette Expressway	Cooper River Bridge Replacement Project, Charleston Harbor	SR 73/US 321 Gateway Project, Gatlinburg	FM 1120 Low Water Crossing, Real County	12300 South Design Build Project	SR 99 Pacific Hwy South Reconstruction, Des Moines	Bridgeport Way Reconstruction, University Place	Code- Yellowstone Highway Project
	NM 14 (Turquoise Trail)											
	--	--	2.1	2.5	3.0	2.6	3.3	3.8	3.3	3.3	3.0	3.0
1	Improved predictability of project delivery		2.1	2.5	3.0	2.6	3.3	3.8	3.3	3.3	3.0	3.0
2	Improved project scoping and budgeting	3.0	2.6	2.6	3.0	2.7	3.3	3.2	3.2	3.5	2.8	2.8
3	Improved long term decisions and investments	--	3.3	3.1	3.0	3.2	3.0	3.8	3.0	3.3	3.0	3.0
4	Improved environmental stewardship	3.0	4.0	3.5	3.0	3.4	3.7	3.2	3.7	3.3	3.3	3.3
5	Optimized maintenance and operations	3.0	4.0	3.0	3.0	3.2	3.5	3.6	3.0	3.7	3.0	3.0
6	Increased risk management and liability protection	3.0	3.0	3.3	2.9	2.8	3.0	3.0	3.0	3.5	3.0	3.0
7	Improved stakeholder/public feedback	--	3.5	3.5	3.4	3.4	4.0	4.0	3.3	3.3	3.0	3.0
8	Increased stakeholder/public participation, ownership and trust	3.0	3.5	3.4	3.4	3.6	3.0	3.7	3.4	3.3	2.7	2.7
9	Decreased costs for overall project delivery	--	--	2.0	2.3	2.0	2.0	3.0	3.0	3.0	2.3	2.3
10	Decreased time for overall project delivery	--	2.0	1.7	2.3	2.5	3.0	3.6	3.3	3.0	2.3	2.3
11	Increased partnering opportunities	--	3.0	3.1	2.7	3.5	3.0	4.0	3.3	3.5	3.0	3.0
12	Minimized overall impact to human and natural environment	3.0	3.0	3.4	3.2	3.5	3.7	3.5	3.2	3.5	3.5	3.5
13	Improved mobility for users	3.0	3.5	3.6	3.4	3.3	3.7	3.8	3.3	4.0	3.7	3.7
14	Improved walkability and bikeability	3.0	3.5	3.4	3.3	3.5	3.0	3.8	3.5	3.8	3.0	3.0
15	Improved safety (vehicles, pedestrians and bikes)	3.0	3.0	3.4	3.4	3.6	3.7	4.0	3.3	3.8	3.0	3.0
16	Improved multi-modal options (including transit)	--	3.5	3.8	3.0	2.8	1.0	2.8	4.0	3.8	2.0	2.0
17	Improved community satisfaction	3.0	3.5	3.3	3.2	3.6	3.3	3.8	3.3	3.5	3.0	3.0
18	Improved quality of life for community	3.0	3.5	3.4	3.1	3.5	3.3	3.8	3.7	3.8	3.0	3.0
19	Improved speed management	3.0	3.5	3.0	3.1	3.5	3.0	3.6	3.3	3.3	2.0	2.0
20	Design features appropriate to context	3.0	3.5	3.4	3.3	3.6	3.3	4.0	3.7	3.5	3.3	3.3
21	Minimized construction and operations related disruption	3.0	2.0	3.0	2.9	3.2	3.7	3.6	3.0	3.5	3.0	3.0
22	Improved opportunities for economic development	3.0	4.0	3.1	3.3	2.8	--	3.8	3.5	3.5	3.0	3.0
	<b>Number of Responses</b>	1	2	8	32	7	3	6	4	4	3	3

**STAKEHOLDERS**

Benefits	Cases											Number of Responses
	AR	AZ	CA	CO-1	CO-2	CO-3	CT-1	DC	FL	IA	IL	
1 Improved predictability of project delivery	2.0	1.7	2.5	3.0	2.8	3.9	2.8	4.0	3.0	2.2	2.7	3.0
8 Increased stakeholder/public participation, ownership and trust	3.0	2.6	3.0	3.0	2.9	3.3	2.7	4.0	2.3	3.1	2.9	4.0
11 Increased partnering opportunities	3.0	3.0	2.0	--	2.5	3.2	3.0	4.0	2.7	2.8	2.9	4.0
12 Minimized overall impact to human and natural environment	4.0	2.6	3.0	3.0	3.0	3.5	2.9	4.0	3.0	3.2	3.1	4.0
13 Improved mobility for users	4.0	2.5	3.5	4.0	3.2	3.8	3.3	4.0	3.7	3.3	3.2	4.0
14 Improved walkability and bikeability	4.0	3.3	3.5	2.5	2.3	2.9	2.6	3.5	2.8	3.6	2.6	4.0
15 Improved safety (vehicles, pedestrians and bikes)	4.0	3.0	3.5	3.0	3.3	3.2	2.8	4.0	3.0	3.6	3.2	4.0
16 Improved multi-modal options (including transit)	--	2.7	3.0	2.0	2.7	3.7	2.3	3.0	2.0	3.6	2.6	3.0
18 Improved quality of life for community	4.0	2.4	3.0	3.0	3.0	3.7	2.2	4.0	3.5	3.4	2.8	4.0
19 Improved speed management	3.0	3.0	4.0	3.0	3.0	3.7	2.7	4.0	3.3	3.1	2.7	4.0
20 Design features appropriate to context	4.0	2.5	--	3.0	2.3	3.2	3.2	3.0	3.3	3.0	3.3	4.0
21 Minimized construction and operations related disruption	3.0	1.7	3.0	3.0	3.0	3.5	2.8	4.0	3.0	3.6	3.1	4.0
22 Improved opportunities for economic development	3.0	3.0	3.0	--	3.0	3.3	2.4	4.0	2.7	2.8	2.6	3.0
	1	7	2	3	7	13	6	1	6	8	16	2



**STAKEHOLDERS**

Benefits	Cases											
	KY-2	KY-3	ME	MI-1	ND Four Bears Bridge	OH-1	OH-2	PA	TN	UT	WA-1	WY
1	3.0	2.3	3.3	3.3	3.0	2.3	1.0	2.0	2.7	3.0	3.0	3.7
8	3.3	2.6	3.3	2.6	3.3	2.7	3.3	2.9	3.5	3.3	2.0	3.4
11	3.5	2.6	3.2	2.3	3.0	2.8	3.0	2.4	3.0	3.0	3.0	3.7
12	3.4	2.3	3.4	3.1	3.5	2.6	2.0	2.6	3.1	3.0	3.0	3.5
13	3.7	2.5	3.8	3.3	3.8	2.9	2.5	2.7	3.2	4.0	3.0	3.8
14	2.5	2.6	3.4	2.0	3.9	3.4	1.8	2.3	3.4	4.0	3.0	3.2
15	3.8	2.4	3.7	3.3	4.0	3.4	2.0	2.4	3.4	4.0	--	3.8
16	2.5	2.3	3.2	2.7	3.7	3.4	--	2.4	3.3	3.0	3.0	3.0
17	3.3	2.3	3.5	3.3	3.8	2.8	1.0	2.5	3.7	3.0	3.0	3.3
18	3.4	2.4	3.5	3.3	3.5	3.3	2.0	2.3	3.9	4.0	--	3.7
19	3.2	2.5	3.7	3.0	3.8	3.3	3.0	2.5	3.1	3.0	3.0	2.3
20	3.8	2.5	3.3	3.3	3.8	3.3	2.0	2.5	3.4	4.0	3.0	3.0
21	3.3	2.5	3.3	3.0	3.5	2.1	--	2.5	3.0	3.0	3.0	3.3
22	3.0	2.6	3.0	3.5	3.0	3.1	3.0	2.7	2.8	--	3.0	3.3