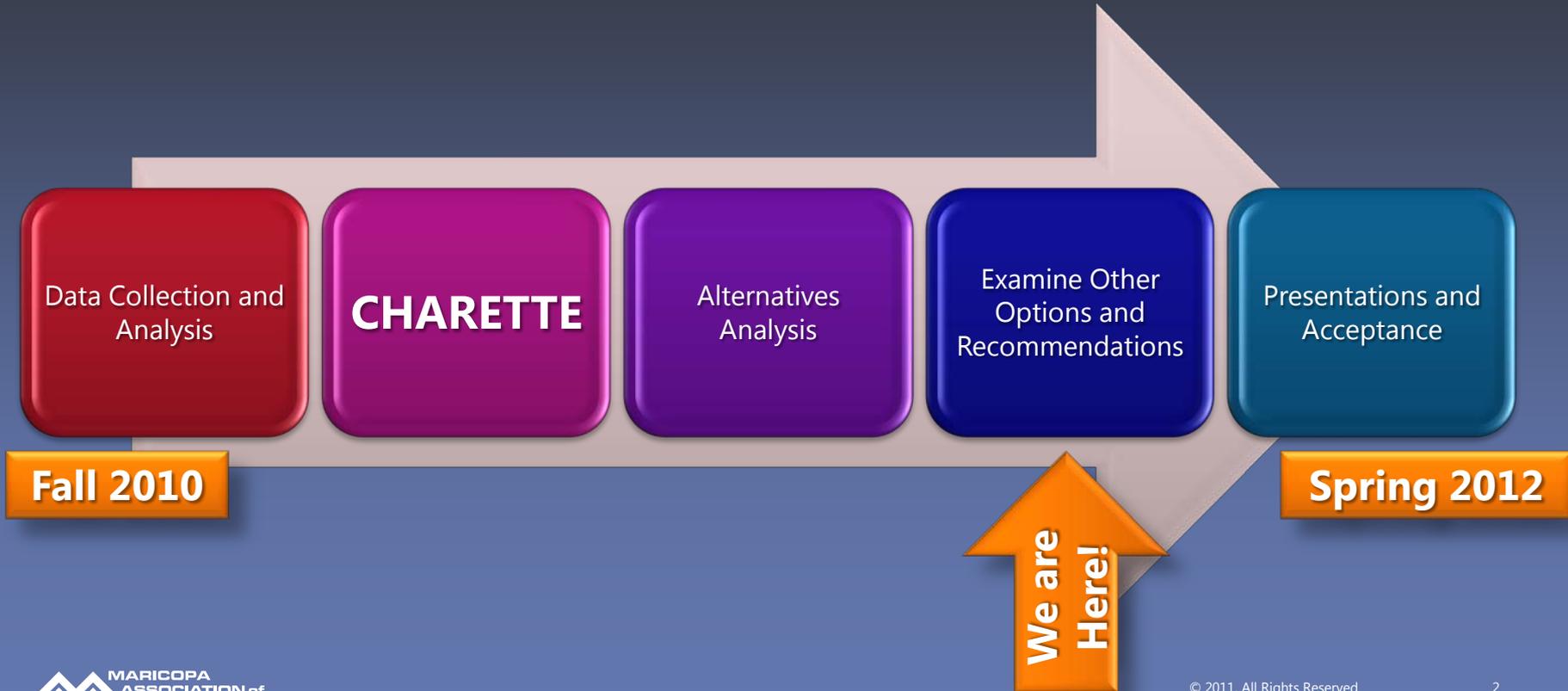




SOUTHEAST CORRIDOR MAJOR INVESTMENT STUDY

Transportation Policy Committee
November 16, 2011

Study Process



Alternatives Development into “Bundles”

- Numerous ideas:
 - Roadway
 - Transit
 - Non-motorized
- Constrained based on peer region indexed investment levels – consistent with [Transit Framework Study](#)
- Investment levels provide “reasonability” check

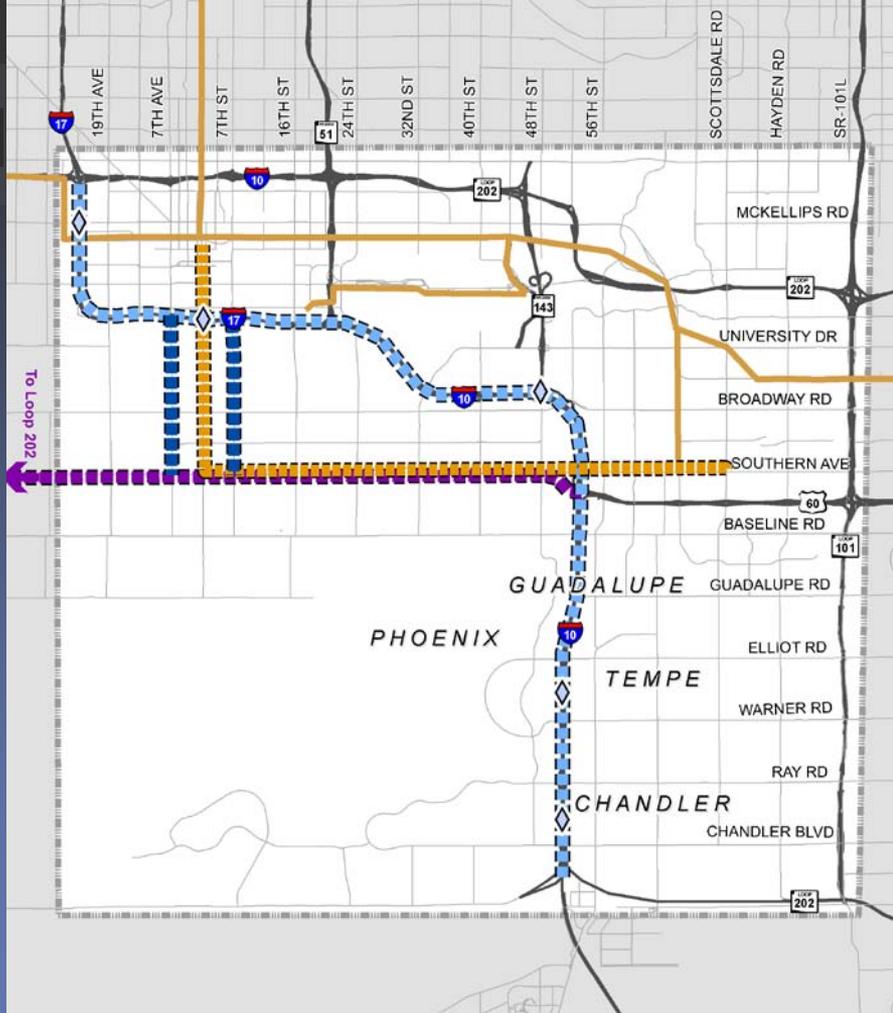


Basic Mobility Bundle

\$350 million investment

Central Ave-Southern Ave
Bus Rapid Transit Corridor

Interstate 10 Managed Lanes



Legend

- Southeast Corridor Study Area
- Highways
- Major Roads
- Planned High Capacity Transit
- New Direct HOV Ramp
- Bus Rapid Transit
- Managed Lanes
- Parkway (3 GP and 1 BRT lane each direction)
- Add one lane each direction (restripe)

0 1 2 Miles

Peer Competitive Bundle

\$2.8 billion investment

- Central Ave-Southern Ave Bus Rapid Transit Corridor
- Interstate 10 Managed Lanes
- Commuter Rail
- Rural Rd High Capacity Transit Corridor
- Modern Street Car Extensions



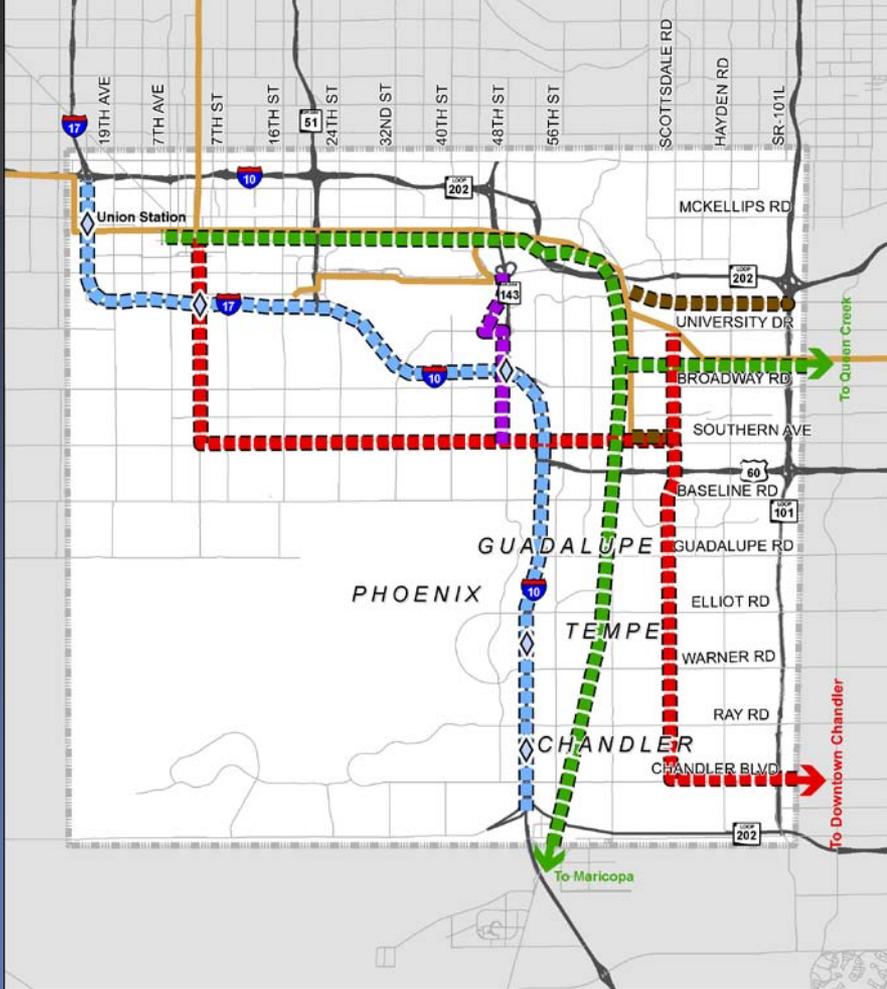
Legend

Southeast Corridor Study Area	New Direct HOV Ramps
Highways	Arterial Bus Rapid Transit
Major Roads	Commuter Rail Transit
Planned High Capacity Transit	Exclusive Transit Guideway/LRT
	Managed Lanes
	Modern Streetcar Extension

0 1 2 Miles

Transit Focus Bundle

- \$5.1 billion investment**
- Central Ave-Southern Ave-Rural Rd High Capacity Transit Corridor
- Interstate 10 Managed Lanes
- Commuter Rail
- Automated Guideway Transit Extension
- Modern Street Car Extensions



Interstate 10/Maricopa Freeway

I-10 Corridor Study EIS

SR-51/Loop 202 to Interstate 17 Split
4-5 general purpose lanes
1 HOV Lane

Interstate 17 Split to US-60
4 'Local' gen purpose lanes
5 'Express' gen purpose lanes
2 'Express' HOV lanes

US-60 to Loop 202 Pecos Stack
4 general purpose lanes
1 HOV lane

Southeast Corridor MIS

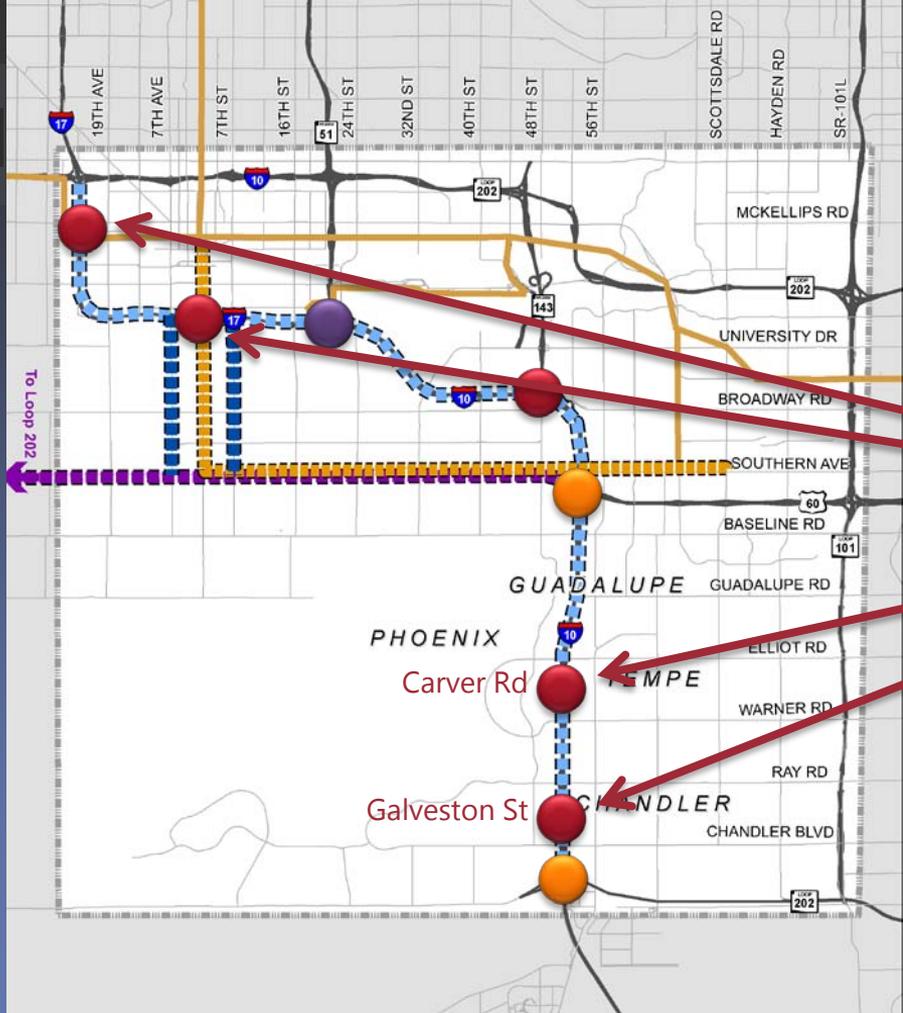
SR-51/Loop 202 to Interstate 17 Split
3-4 general purpose lanes
1 HOV lane

Interstate 17 Split to US-60
5 general purpose lanes
3 'Express' HOV/HOT lanes

US-60 to Loop 202 Pecos Stack
4 general purpose lanes
2 'Express' HOV/HOT lanes

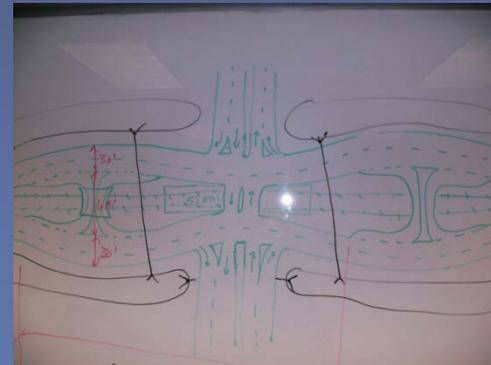
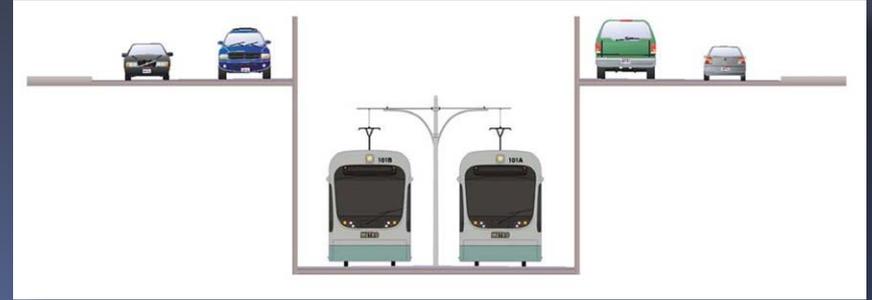
- Added "premium" DHOV ramps
- Alternate service interchange geometries
- Connect to an I-17 HOV/HOT lanes option

DHOV (Direct HOV) Ramps



Southeast Corridor MIS High Capacity Transit Option

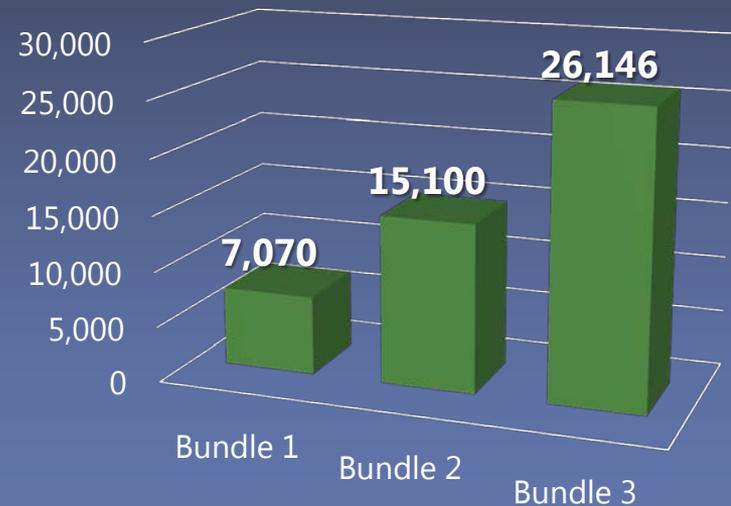
- Transit
 - Oriented
 - ParkwayS
-
- Exclusive right-of-way for High Capacity Transit along surface arterials
 - Two-mile station spacing



Evaluation Criteria

- Environmental Impacts
- Equity and Economic Development
- Capital Development Feasibility
- Operational Feasibility
- Performance
- Financial Feasibility
- Cost Effectiveness
- Overall Effectiveness

Daily Transit Boardings on New Services by Bundle



Transit System Performance

Transit Characteristics	System Level Performance			
	2031 RTP	Basic Mobility	Peer Compatible	Transit Focus
Average Ridership	413,900	418,400	423,600	433,300
Average Revenue Miles	154,600	155,500	159,500	162,600
Average Riders/Rev Mile	2.67	2.69	2.66	2.66
Daily Transit Ridership on NEW Services	--	7,100	15,100	26,100

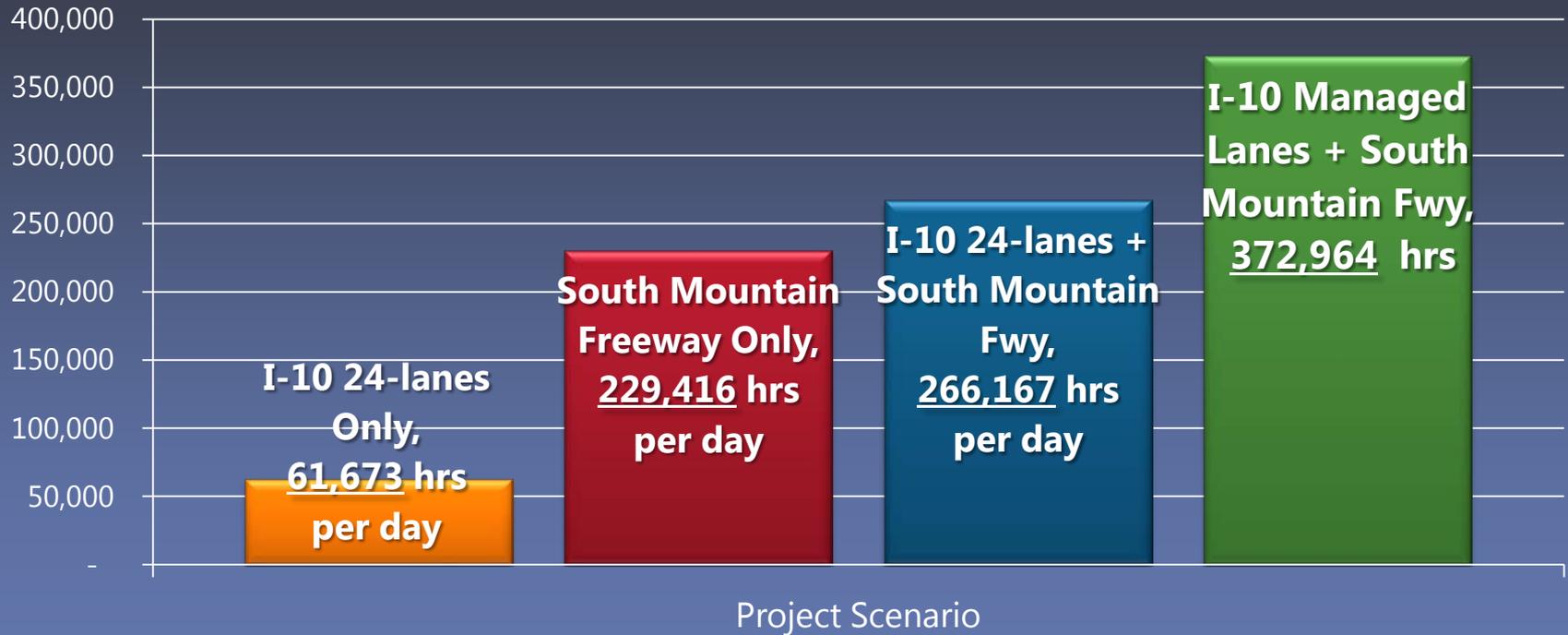
Intestate 10 at Broadway Rd Performance Statistics

General Purpose Lanes					HOV/HOT Lanes				
		2031 RTP	Basic Mobility	Peer Competitive	Transit Focus	2031 RTP	Basic Mobility	Peer Competitive	Transit Focus
Outbound (Eastbound I-10)	Volume	20,350 (43,485)	17,770 (40,278)	17,736 (40,229)	17,813 (40,356)	603 (3,224)	3,534 (9,247)	3,522 (9,260)	3,481 (9,084)
	Speed	61.3 (28.1)	62.4 (40.5)	62.4 (40.6)	62.7 (40.8)	68.5 (46.9)	68.5 (44.8)	68.5 (45.0)	68.5 (45.4)
Inbound (Westbound I-10)	Volume	44,856 (32,908)	38,437 (26,781)	38,374 (26,691)	38,373 (26,740)	3,661 (785)	9,971 (7,280)	9,947 (7,266)	9,897 (7,255)
	Speed	34.8 (46.3)	46.6 (54.6)	46.7 (54.7)	46.7 (54.9)	50.0 (68.3)	52.9 (62.1)	53.1 (62.1)	53.1 (62.1)

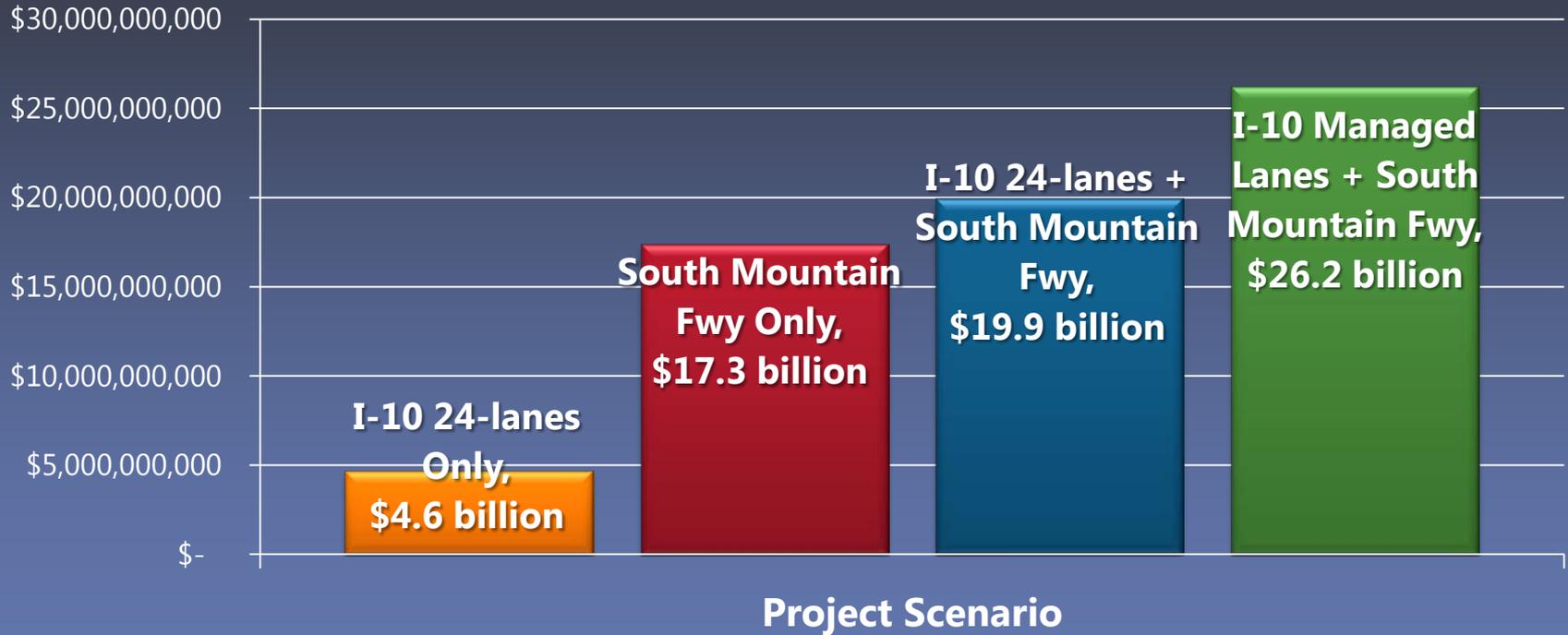
Key:

XXX – Morning Peak (6:00 – 9:00 a.m.)
(XXX) – Evening Peak (3:00 – 6:00 p.m.)

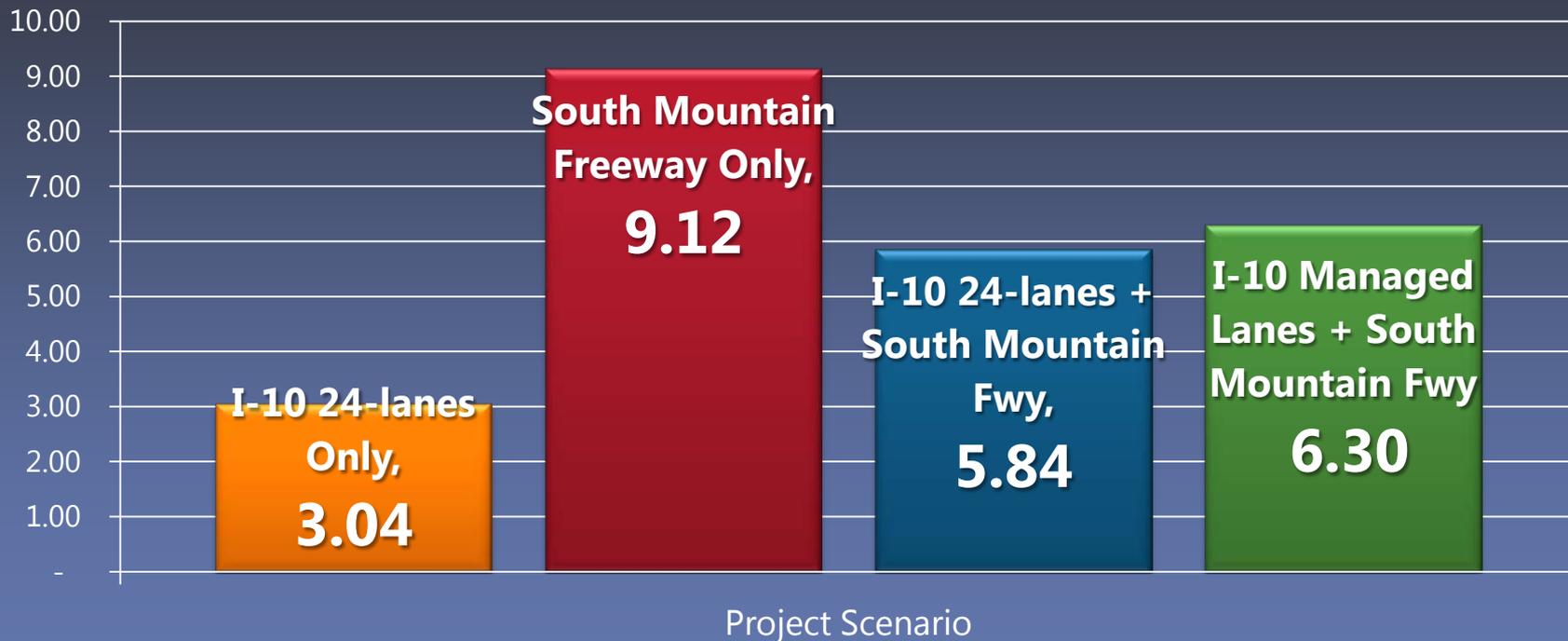
2031 System Travel Time Savings



Net Present Value of Investments over 20-years



System Benefit-Cost Ratio (based on Travel Time Savings alone)



Preliminary Benefit/Cost Data

Transit Projects	
Bundle	B/C
Basic Mobility	1.21
Peer Competitive (includes Southern Ave conversion to AZ Pkwy)	3.80
Transit Focus (includes Southern Ave conversion to AZ Pkwy)	3.14

Highway Projects	
Projects	B/C
7th St Restripe	119.64
7th Ave Restripe	160.71
Southern Pkwy (as AZ Pkwy alone)	0.68

Next Steps

- Examine additional projects as requested by member agencies
- Complete analysis and identify recommendations
- Incorporate into Central Phoenix Transportation Framework Study





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