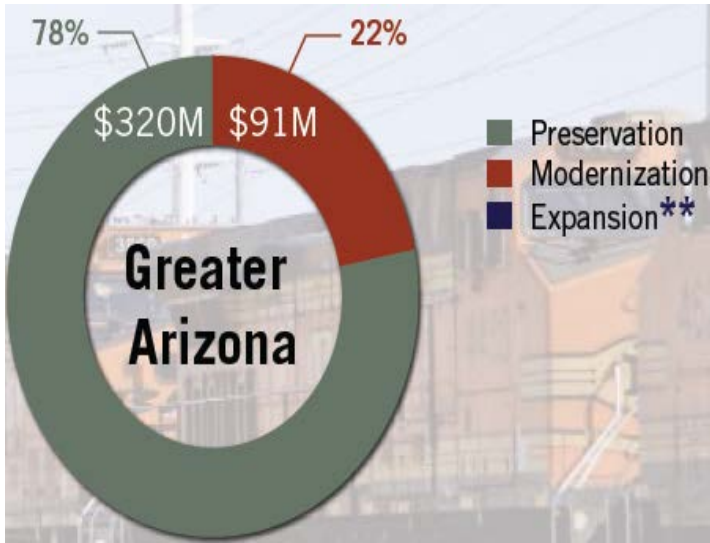


ADOT Planning to Programming (P2P)

Overview & Consultation

Dan Gabiou, P2P Manager
ADOT Multimodal Planning

What is P2P?



ADOT's Performance Targets



PAVEMENT			
MEASURES	CURRENT STATUS (2017)	2 YR. TARGET (2019)	4 YR. TARGET (2021)
Percent of Interstate in Good Condition	52%	NONE	48%
Percent of Interstate in Poor Condition	1%	NONE	2%
Percent of Non-Interstate Pavement in Good Condition	37%	31%	31%
Percent of Non-Interstate Pavement in Poor Condition	2%	6%	6%

BRIDGE			
MEASURES	CURRENT STATUS (2017)	2 YR. TARGET (2019)	4 YR. TARGET (2021)
Percent of NHS Bridges in Good Condition	56.4%	52%	52%
Percent of NHS Bridges in Poor Condition	1.6%	4%	4%

CONGESTION MITIGATION and AIR QUALITY (CMAQ)			
MEASURES	CURRENT STATUS (2017)	CUMLATIVE 2 YR. TARGET (2018-2019)	CUMLATIVE 4 YR. TARGET (2018-2021)
Volatile Organic Compounds	120 kg/day	210 kg/day	385 kg/day
Carbon Monoxide	2050 kg/day	3720 kg/day	6,985 kg/day
Nitrogen Oxides	243 kg/day	418 kg/day	761 kg/day
Particulate Matter (≤ 10 microns)	633 kg/day	873 kg/day	1,399 kg/day
Particulate Matter (≤ 2.5 microns)	0 kg/day	69 kg/day	112 kg/day

ADOT's Performance Targets



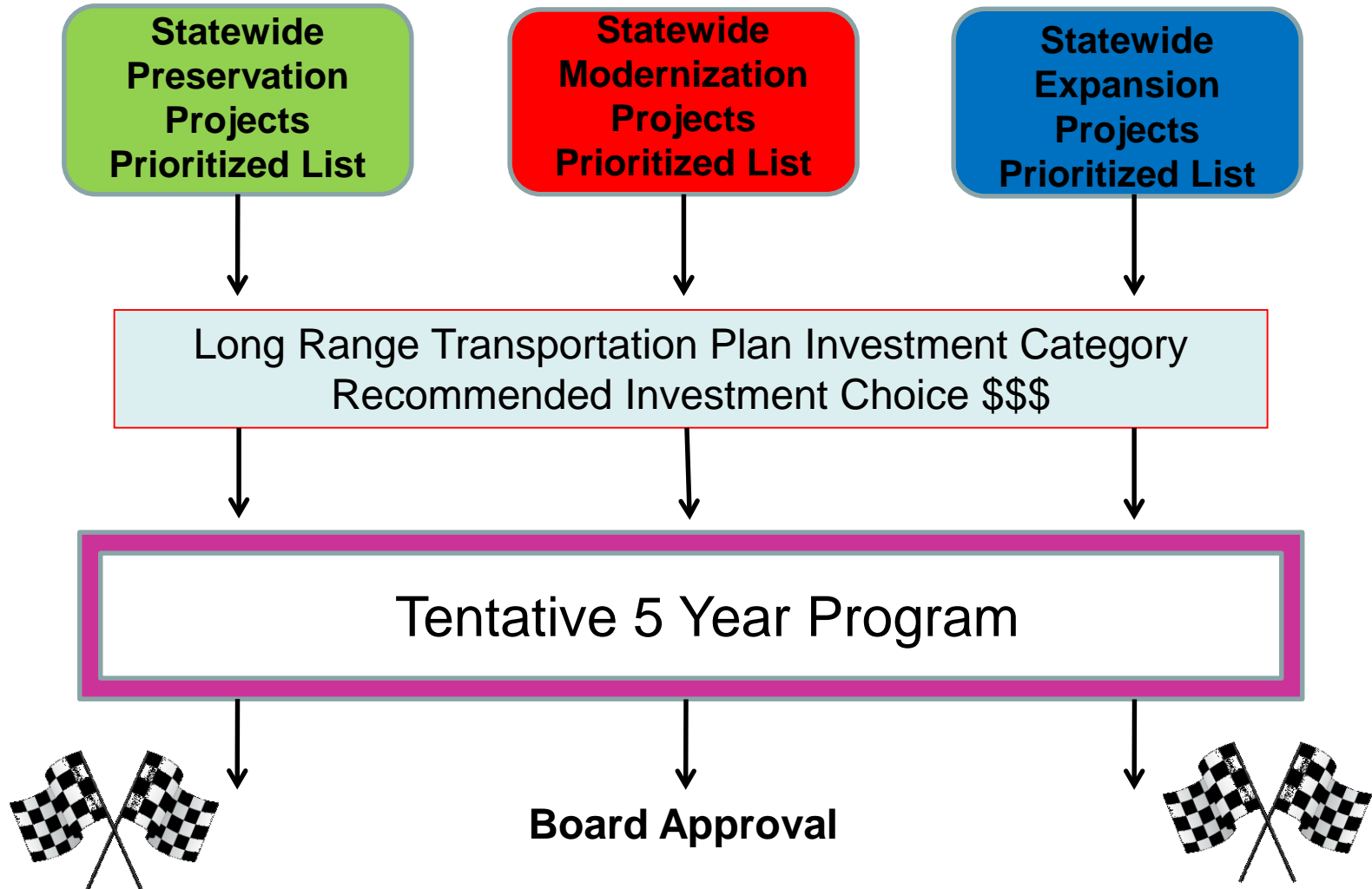
FREIGHT and SYSTEM PERFORMANCE

MEASURES	CURRENT STATUS (2017)	2 YR. TARGET (2019)	4 YR. TARGET (2021)
Freight Reliability on Interstate	1.19	1.21	1.23
Interstate Travel Time Reliability	86.1	86	85.8%
Non-Interstate NHS Travel Time Reliability	83.6	NONE	74.9%
Non-Single Occupancy Vehicle Travel	23.4%	22.9%	22.6%
Peak Hour Excessive Delay per Capita	6.4 hrs.	NONE	10.9 hrs.

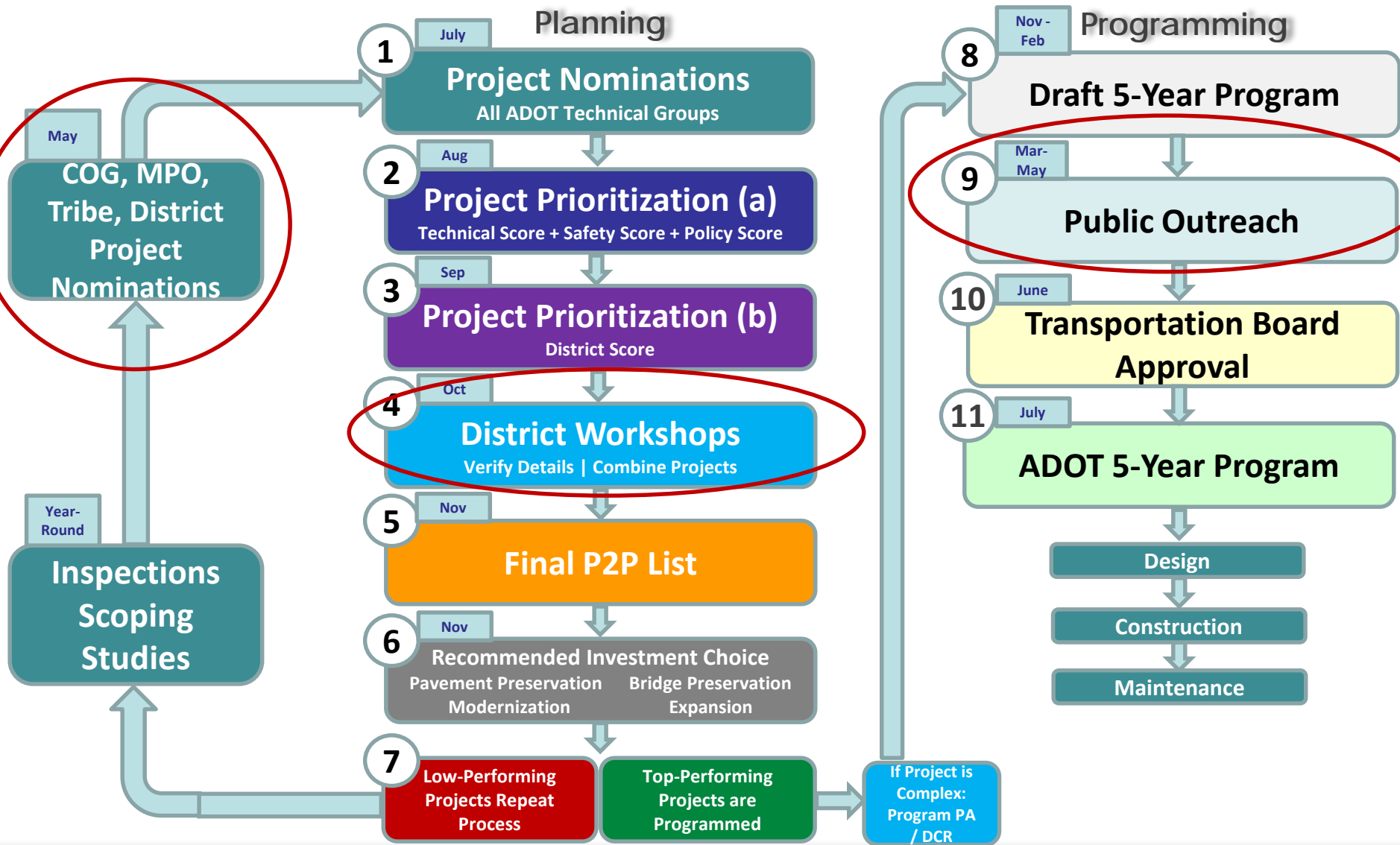
SAFETY

MEASURES (5-year ave)	CURRENT STATUS (2017)	1 YR. TARGET (2019)	4 YR. TARGET (2021)
Fatalities	4.3% increase	5% increase	
Fatality Rate	1.4% increase	2% increase	
Serious Injuries	1.6% decrease	1% decrease	
Serious Injury Rate	4.4% decrease	4% decrease	
Non-Motorized	2.8% increase	3% increase	

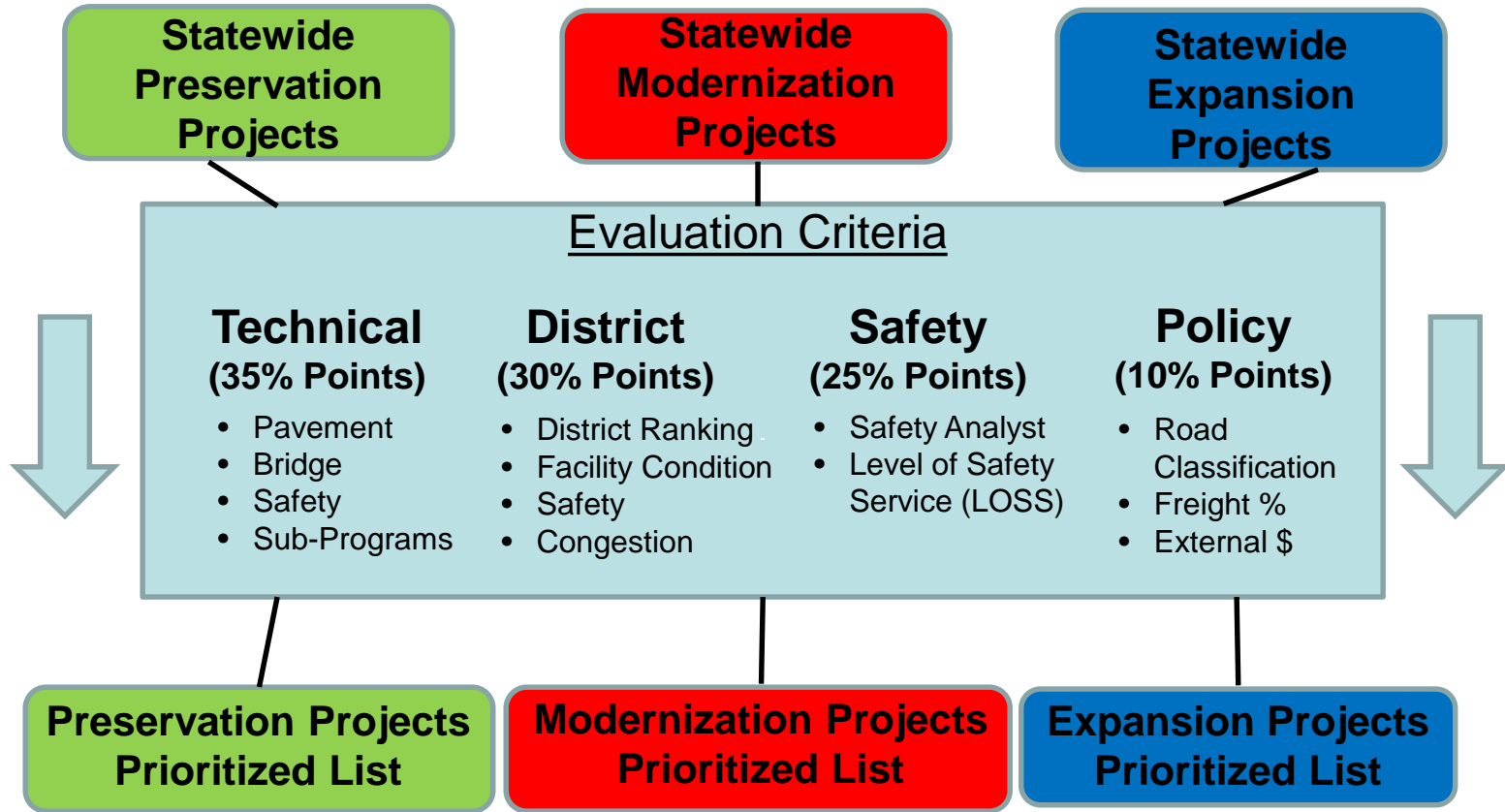
P2P Overview



P2P Process Flowchart



P2P Scoring Breakdown



FY19 P2P Evaluation Criteria - Pavement Preservation

FY19 P2P Evaluation Criteria - Pavement Preservation			
Pavement Technical Criteria (35% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	Technical Engineering Project Ranking (Statewide)	Pavement Engineer evaluation of current and future International Roughness Index (IRI), Cracking, & Rutting	35%
Total Technical Score			35%
District Score (30% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	District Engineering Project Ranking	Engineering evaluation of Facility Condition, Safety, and Congestion	30%
Total District Score			30%
Safety Score (25% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	Level of Safety Service (LOSS)	A predictive safety improvement score is calculated from ADOT's Safety Analyst Tool	25%
Total Safety Score			25%
Policy Evaluation Criteria (10% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	Freight Percentage	T-Factor (% of AADT representing freight) > 25% (3 pts), T-Factor = 10% - 25% (2 pts), T-Factor < 10% (1 pt)	3%
	Functional Classification	Interstate (3 pts), Non-Interstate NHS (2.5 pts), Major Arterial (2.0 pts), Minor Arterial (1.5 pts), Major Collector (1.0 pts), Minor Collector (0.5 pts)	3%
	External Funding Contribution	% of local contribution = % of weighted point value	4%
Total Policy Score			10%
Total P2P Score			100%

FY19 P2P Evaluation Criteria - Bridge Preservation

FY19 P2P Evaluation Criteria - Bridge Preservation			
Bridge Technical Criteria (35% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	Technical Engineering Project Ranking (Statewide)	Bridge Engineer evaluation of up to 88 criteria for each bridge	35%
Total Technical Score			35%
District Score (30% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	District Engineering Project Ranking	Engineering evaluation of Facility Condition, Safety, and Congestion	30%
Total District Score			30%
Safety Score (25% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	Level of Safety Service (LOSS)	A predictive safety improvement score is calculated from ADOT's Safety Analyst Tool	25%
Total Safety Score			25%
Policy Evaluation Criteria (10% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	Freight Percentage	T-Factor (% of AADT representing freight) > 25% (3 pts), T-Factor = 10% - 25% (2 pts), T-Factor < 10% (1 pt)	3%
	Functional Classification	Interstate (3 pts), Non-Interstate NHS (2.5 pts), Major Arterial (2.0 pts), Minor Arterial (1.5 pts), Major Collector (1.0 pts), Minor Collector (0.5 pts)	3%
	External Funding Contribution	% of local contribution = % of weighted point value (Ex: 50% local contribution = 2 points)	4%
Total Policy Score			10%
Total P2P Score			100%

FY19 P2P Evaluation Criteria - Modernization

Technical Criteria (35% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	Technical Group Project Ranking (Statewide)	Metrics and weights vary by Technical Group	35%
Total Technical Score			35%
District Score (30% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	District Engineering Project Ranking	Engineering evaluation of Facility Condition, Safety, and Congestion	30%
Total District Score			30%
Safety Score (25% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	Level of Safety Service (LOSS)	A predictive safety improvement score is calculated from ADOT's Safety Analyst Tool	25%
Total Safety Score			25%
Policy Evaluation Criteria (10% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	Freight Percentage	T-Factor (% of AADT representing freight) > 25% (3 pts), T-Factor = 10% - 25% (2 pts), T-Factor < 10% (1 pt)	3%
	Functional Classification	Interstate (3 pts), Non-Interstate NHS (2.5 pts), Major Arterial (2.0 pts), Minor Arterial (1.5 pts), Major Collector (1.0 pts), Minor Collector (0.5 pts)	3%
	External Funding Contribution	% of local contribution = % of weighted point value (Ex: 50% local contribution = 2 points)	4%
Total Policy Score			10%
Total P2P Score			100%

Modernization projects may include (but not limited to):
 Safety, ITS, Stormwater, Ports of Entry, Rest Stops, Rockfall, and more...
 Any project that is not "Preservation" or "Expansion"

FY2019 P2P Evaluation Criteria - Expansion

Expansion Technical Criteria (35% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	Level of Service (LOS)	Volume / Capacity - AZTDM	12%
	Average System Speed	Vehicle Miles Traveled (VMT) / Vehicle Hours Traveled (VHT) - AZTDM	5%
	System Reliability	Travel Time Reliability Ratio - INRIX	8%
	System Reliability (freight)	Truck Travel Time Reliability Ratio - INRIX	10%
Total Technical Score			35%
District Score (30% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	District Engineering Project Ranking	Engineering evaluation of Facility Condition, Safety, and Congestion	30%
Total District Score			30%
Safety Score (25% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	Level of Safety Service (LOSS)	A predictive safety improvement score is calculated from ADOT's Safety Analyst Tool	25%
Total Safety Score			25%
Policy Evaluation Criteria (10% of P2P Score)	Measure / Criterion	Metric / Formula	Weighting
	Freight Percentage	T-Factor (% of AADT representing freight) > 25% (3 pts), T-Factor = 10% - 25% (2 pts), T-Factor < 10% (1 pt)	3%
	Functional Classification	Interstate (3 pts), Non-Interstate NHS (2.5 pts), Major Arterial (2.0 pts), Minor Arterial (1.5 pts), Major Collector (1.0 pts), Minor Collector (0.5 pts)	3%
	External Funding Contribution	% of local contribution = % of weighted point value	4%
Total Policy Score			10%
Total P2P Score			100%

Potential future Expansion Criteria	Measure / Criterion	Metric / Formula
	Cost Effectiveness	$(\text{Annualized Life-Cycle Capital Cost} + \text{Annual Operating/Maintenance Cost} - \text{Annualized External Contributions}) / (\text{Annual Travel Time Savings})$
	New Permanent Jobs Created	Output of AZTDM & REMI Transight

Questions / Comments

Dan Gabiou, CPM

P2P Manager

ADOT Multimodal Planning Division

602-712-7025

DGabiou@azdot.gov