

# Metro Transfer System Configuration Project

## *First Draft Multi-Objective Decision Analysis Results*

December 3, 2015

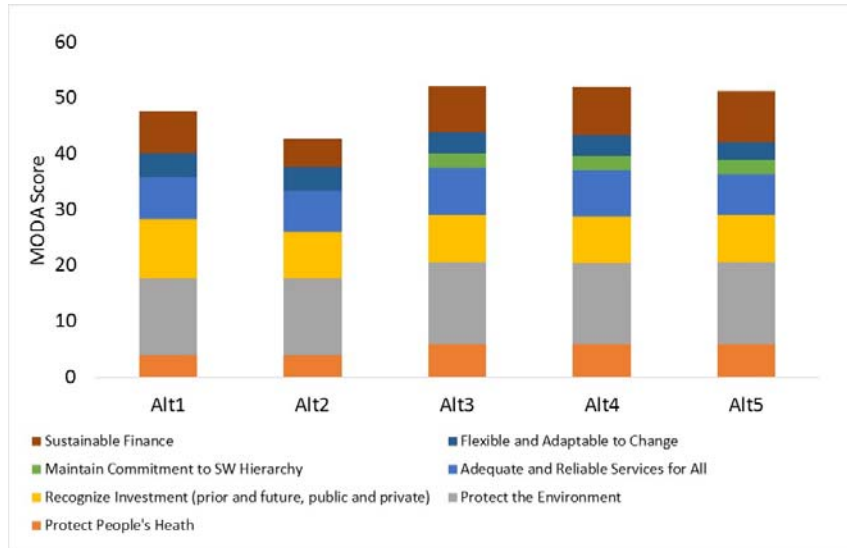


## First Draft MODA Results Conclusions

- MODA intent is to provide insight into decision making
  - Not “the answer”
  - Intended to help Metro staff shape conclusions and recommendations for Council deliberation
- System is complex: strategy table to aid development of alternatives
- Scoring alternatives against criteria requires considering eight system elements
  - “bottom up” scoring with “mini-MODA”, then adjusting from overall perspective

2

## MODA Results



3

## MODA Result Details

ID#	Evaluation Criteria	Alt1	Alt2	Alt3	Alt4	Alt5
		Status Quo	Operator Choice	Geographic Equity	Minimum Prescribed Services, Variable Caps, Pricing Clarity	Prescribed Services, Zone-Based Flow, Rate Regulation
<b>Total Score</b>		<b>47.8</b>	<b>42.7</b>	<b>52.2</b>	<b>51.9</b>	<b>51.3</b>
1	Protect People's Health	4.0	4.0	6.0	6.0	6.0
2	Protect the Environment	13.8	13.8	14.7	14.4	14.6
3	Recognize Investment (prior and future)	10.5	8.3	8.4	8.4	8.5
4	Adequate and Reliable Services for All	7.6	7.3	8.5	8.3	7.2
5	Maintain Commitment to SW Hierarchy	0.0	0.0	2.6	2.6	2.6
6	Flexible and Adaptable to Change	4.3	4.3	3.7	3.7	3.2
7	Sustainable Finance	7.6	5.0	8.4	8.6	9.2

4

### MODA Value to Cost Comparison (Cost Implications Under Development)

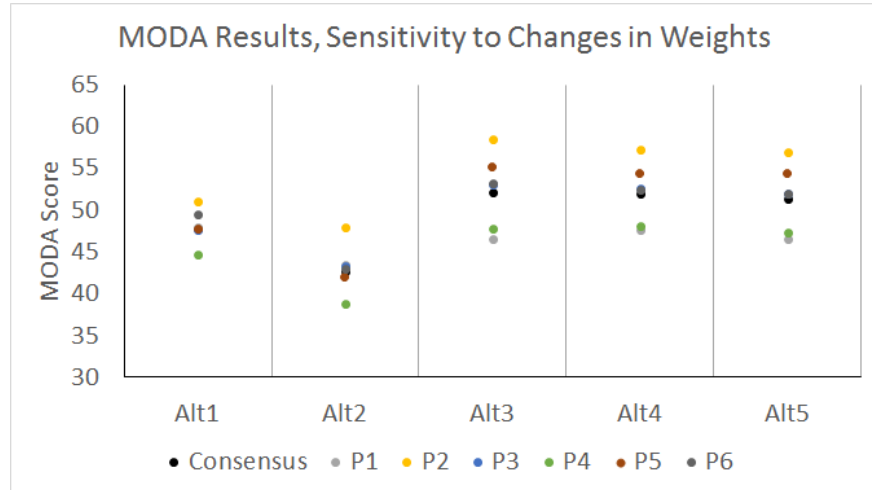


5

### Sensitivity of Results to Changes in Weights

	Alt1	Alt2	Alt3	Alt4	Alt5
Weights	Status Quo	Operator Choice	Geographic Equity	Minimum Prescribed Services, Variable Caps, Pricing Clarity	Prescribed Services, Zone-Based Flow, Rate Regulation
<b>MODA Score</b>					
Consensus	47.8	42.7	52.2	51.9	51.3
P1	48.0	43.4	46.6	47.7	46.5
P2	51.1	48.0	58.5	57.3	56.9
P3	47.6	43.3	53.1	52.7	51.9
P4	44.7	38.8	47.8	48.2	47.3
P5	47.7	42.0	55.2	54.4	54.4
P6	49.6	42.9	53.2	52.4	52.0
<b>Rank, Highest Valued Alternative = 1</b>					
Consensus	4	5	1	2	3
P1	1	5	3	2	4
P2	4	5	1	2	3
P3	4	5	1	2	3
P4	4	5	2	1	3
P5	4	5	1	3	2
P6	4	5	1	2	3

## Sensitivity of Results to Changes in Weights



7