

What is Multi-Objective Decision Analysis (MODA)

Multi-Objective Decision Analysis (MODA) is a process for making decisions on very complex issues involving multiple criteria and multiple parties who may be deeply affected from the outcomes of the decisions. Using MODA allows individuals to consider and weight factors and trade-offs while evaluating each route option.

MODA steps

- 1 Factors** - Discuss and agree on evaluation factors
- 2 Weighting** - Determine relative importance of each factor and assign corresponding weights
- 3 Route options** - Determine route options to evaluate
- 4 Scoring** - Score each route option for each weighted factor
- 5 Decision** - Discuss results and determine decision

How the Community Advisory Group used MODA

- 1 Selected nine evaluation factors** based on community values
- 2 Used two sets of weightings** - one determined by the advisory group and a second determined by the summer community survey
- 3 Selected 11 route options** out of 18 to include in the evaluation
- 4 Scored** the 11 route options for how well they each met the nine evaluation factors using an online software called Transparent Choice
- 5 Considered MODA results** along with community feedback and other sources of information to select four routes as their preliminary route recommendation