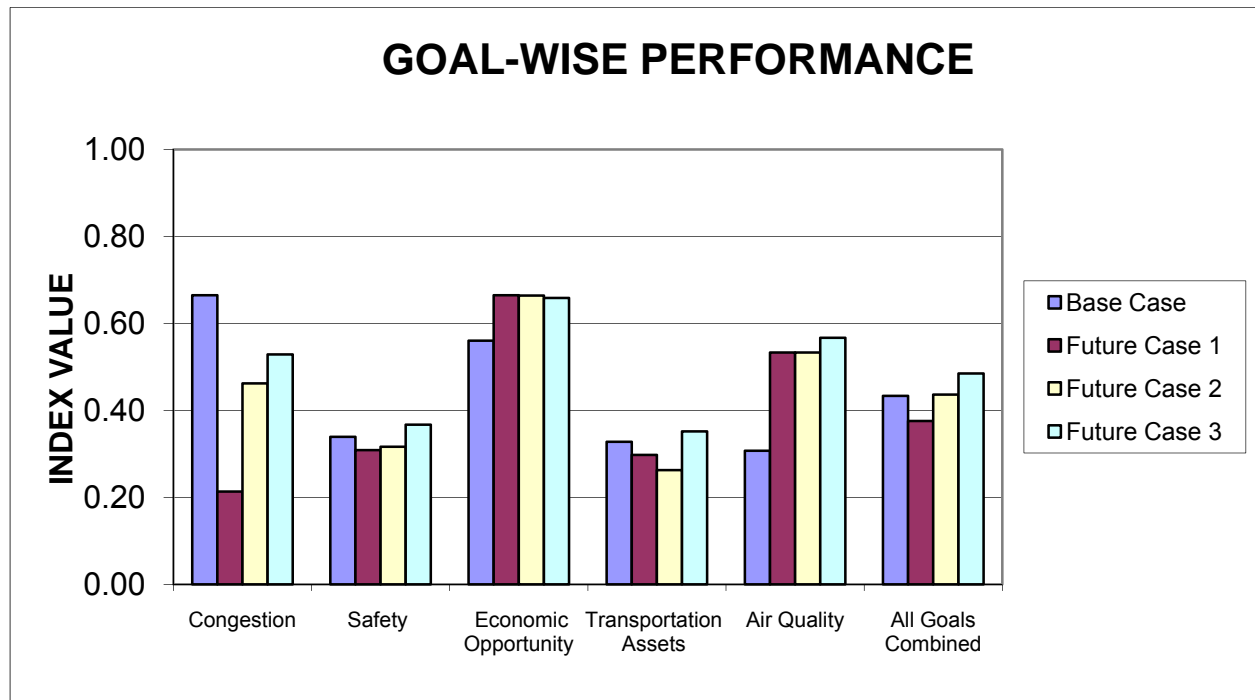


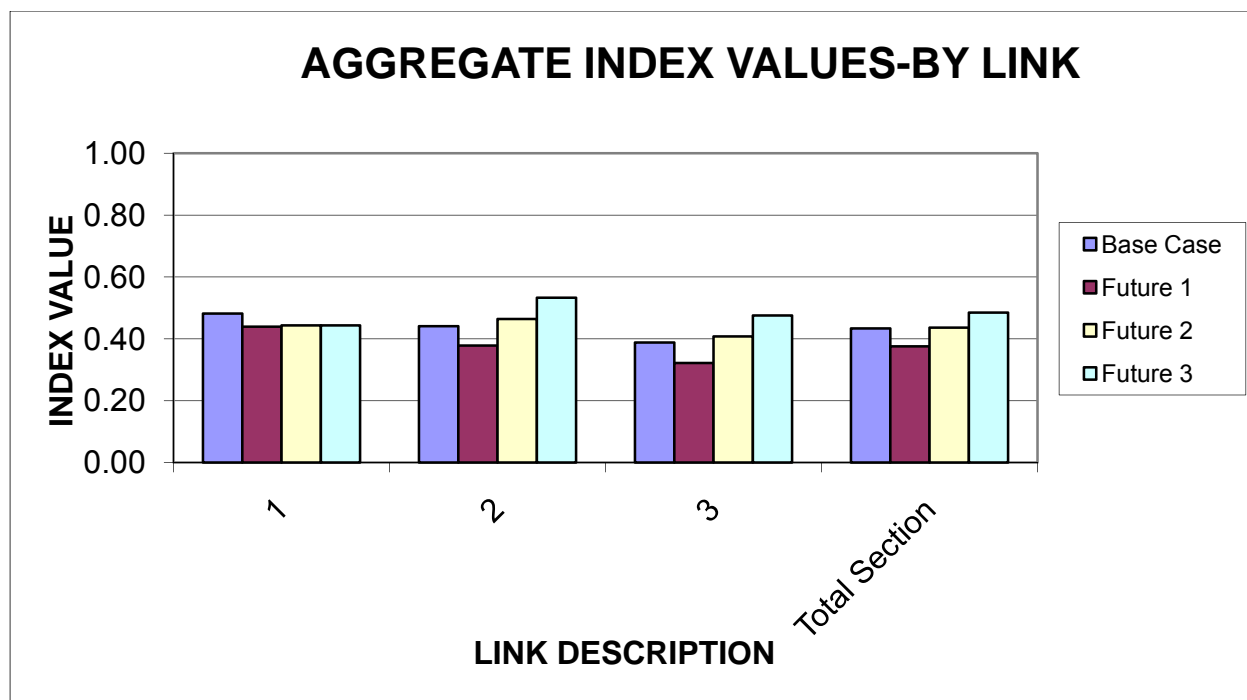
### Answer Key:

- Input – Number of links = 3, number of future cases = 3
- For ADTs on each link for base case, average out the ADTs at the count locations at either end. For the future case, increase these ADTs by 50%.

Link	ADT – Base Case	ADT – Future Cases
AB	90,000	135,000
BC	100,000	150,000 (135,000 for Future 3)
CD	110,000	165,000 (150,000 for Future 3)

### Calculator Results





Scaled Measure Values							
Measure No. and Description	Base	Future 1		Future 2		Future 3	
1a-Improve mobility on highways	0.81	0.35	▼	0.65	▼	0.70	▼
1b-Improve reliability of highway travel	0.45	0.01	▼	0.18	▼	0.27	▼
2a-Reduce crash rates and crash risk	0.42	0.14	▼	0.15	▼	0.21	▼
2b-Improve traffic incident detection and response	0.00	1.00	▲	1.00	▲	1.00	▲
3a-Optimize land use mix for development potential	0.89	0.91	▲	0.91	▲	0.91	▲
3b-Improve road-based freight movement	0.23	0.42	▲	0.42	▲	0.41	▲
4a-Maintain existing highway system quality	0.85	0.70	▼	0.90	▲	0.90	▲
4b-Reduce cost and impact of highway capacity expansion	0.50	0.50	—	0.13	▼	0.13	▼
4c-Leverage non-traditional funding sources for highways	0.00	0.00	—	0.00	—	0.00	—
4d-Increase use of alternatives to single-occupant automobile travel	0.29	0.29	—	0.29	—	0.43	▲
5a-Reduce adverse human health impacts and comply with ambient air quality standards	0.30	0.62	▲	0.62	▲	0.65	▲
5b-Reduce greenhouse gas emissions	0.37	0.06	▼	0.06	▼	0.12	▼