QUEENSBURY ASCT STUDY

Benefit Cost Analysis | Cluster 1

A Benefit Cost Analysis was performed to assist the Town and Adirondack/Glens Falls Transportation Council (A/GFTC) in evaluating solutions to address congestion in the corridor. The analysis evaluated three alternatives -

Coordinated Signal System (Signal Timing Optimization), a NYSDOT operated Adaptive Signal Control Technology (ASCT) and a Town operated ASCT.

Benefit Cost Analysis (BCA) is a way to compare costs to benefits to determine whether an improvement is justified.

What are the Benefits of Improved Signal Technologies?

- Improved mobility for motorists, pedestrians and bicyclists
- · Fewer gallons of fuel consumed and emissions emitted into the atmosphere
- Fewer crashes

What are the Costs associated with Improved Signal Technologies?

- · More equipment leading to additional capital costs
- Operations and Maintenance costs are required to maintain the quality of the signal technology



Results

I

I

I I

The Benefit Cost Ratio (BCR) is a measure of the return on investment for an alternative by monetizing and comparing the expected benefits and costs. The results of the BCA indicate that while all alternatives show a positive return on investment, a NYSDOT operated ASCT is more cost effective than a Town operated ASCT or a Coordinated Signal System.

Benefit Cost Ratios

Proposed Action	Cluster 1
Coordinated Signal System	19.47
Adaptive Signal Control Technology (NYSDOT Operated)	21.59
Adaptive Signal Control Technology (Town Operated)	16.90













For more information please contact:

Stuart Baker | Senior Planner, Town of Queensbury, NY (518) 761-8222 | stuartb@queensbury.net

QUEENSBURY ASCT STUDY

Benefit Cost Analysis | Cluster 2

A Benefit Cost Analysis was performed to assist the Town and Adirondack/Glens Falls Transportation Council (A/GFTC) in evaluating solutions to address congestion in the corridor. The analysis evaluated three alternatives -

Coordinated Signal System (Signal Timing Optimization), a NYSDOT operated Adaptive Signal Control Technology (ASCT) and a Town operated ASCT.

Benefit Cost Analysis (BCA) is a way to compare costs to benefits to determine whether an improvement is justified.

What are the Benefits of Improved Signal Technologies?

- Improved mobility for motorists, pedestrians and bicyclists
- · Fewer gallons of fuel consumed and emissions emitted into the atmosphere
- Fewer crashes

What are the Costs associated with Improved Signal Technologies?

- · More equipment leading to additional capital costs
- Operations and Maintenance costs are required to maintain the quality of the signal technology



Results

I 1

1 I

The Benefit Cost Ratio (BCR) is a measure of the return on investment for an alternative by monetizing and comparing the expected benefits and costs. The results of the BCA indicate that while all alternatives show a positive return on investment, a NYSDOT operated ASCT is more cost effective than a Town operated ASCT or a Coordinated Signal System.

Benefit Cost Ratios

Proposed Action	Cluster 2
Coordinated Signal System	8.57
Adaptive Signal Control Technology (NYSDOT Operated)	12.35
Adaptive Signal Control Technology (Town Operated)	9.81











For more information please contact:

Stuart Baker | Senior Planner, Town of Queensbury, NY (518) 761-8222 | stuartb@queensbury.net

QUEENSBURY ASCT STUDY

Benefit Cost Analysis | Cluster 3

A Benefit Cost Analysis was performed to assist the Town and Adirondack/Glens Falls Transportation Council (A/GFTC) in evaluating solutions to address congestion in the corridor. The analysis evaluated three alternatives -

Coordinated Signal System (Signal Timing Optimization), a NYSDOT operated Adaptive Signal Control Technology (ASCT) and a Town operated ASCT.

Benefit Cost Analysis (BCA) is a way to compare costs to benefits to determine whether an improvement is justified.

What are the Benefits of Improved Signal Technologies?

- Improved mobility for motorists, pedestrians and bicyclists
- · Fewer gallons of fuel consumed and emissions emitted into the atmosphere
- Fewer crashes

What are the Costs associated with Improved Signal Technologies?

- More equipment leading to additional capital costs
- Operations and Maintenance costs are required to maintain the quality of the signal technology



Results

I 1

1 I

The Benefit Cost Ratio (BCR) is a measure of the return on investment for an alternative by monetizing and comparing the expected benefits and costs. The results of the BCA indicate that while all alternatives show a positive return on investment, a Coordinated Signal System is more cost effective than a NYSDOT operated or Town operated ASCT.

Benefit Cost Ratios

Proposed Action	Cluster 3
Coordinated Signal System	23.18
Adaptive Signal Control Technology (NYSDOT Operated)	9.69
Adaptive Signal Control Technology (Town Operated)	7.29











For more information please contact:

Stuart Baker | Senior Planner, Town of Queensbury, NY (518) 761-8222 | stuartb@queensbury.net