

# Local Roads

- Facts about Local Roads and Bridges
  - Adirondack Park
  - Essex County
  - Local Roads and Bridges
- Municipal Decision Making process
  - Planning / Budgeting
  - Reactionary
- How to incorporate resiliency and wildlife concerns









# Adirondack Park



- 6.1 million acres ( 9530 square miles)
  - Not a national Park
  - Larger than any national park within the Continental US
    - Death Valley – 5269 Square Miles
    - Yellowstone – 3468 Square miles
  - 52% private land
  - 48% public lands
  - More than 10,000 lakes
  - More than 30,000 miles of rivers and streams

# Essex County



- Area - 1794 Square miles (land area)
  - 2<sup>nd</sup> largest in NYS (by land area)
- Largest County Fully within the Adirondack park
- Population – 38500 (2015 estimate)
  - 3<sup>rd</sup> lowest in NYS
- Population Density – 22 people per square mile
  - 3<sup>rd</sup> lowest in NYS
- Households – 15571
- Average number of persons per household – 2.32
- Median Household Income - \$45,216.00 (2013)

# Local Roads and Bridges

- 1040 miles of Local road in Essex County
  - County – 360 miles – 34.6%
  - Towns / Villages – 680 miles – 65.4%
- 136 Locally owned Bridges
  - Spans of 20' to 130'
- Culverts -92 - county owned culverts larger than 3' in diameter
  - More than 6000 linear feet
  - Sizes 3' to 18' diameter
- Culverts – approximately 150 – Town and Village owned larger than 3' in Diameter

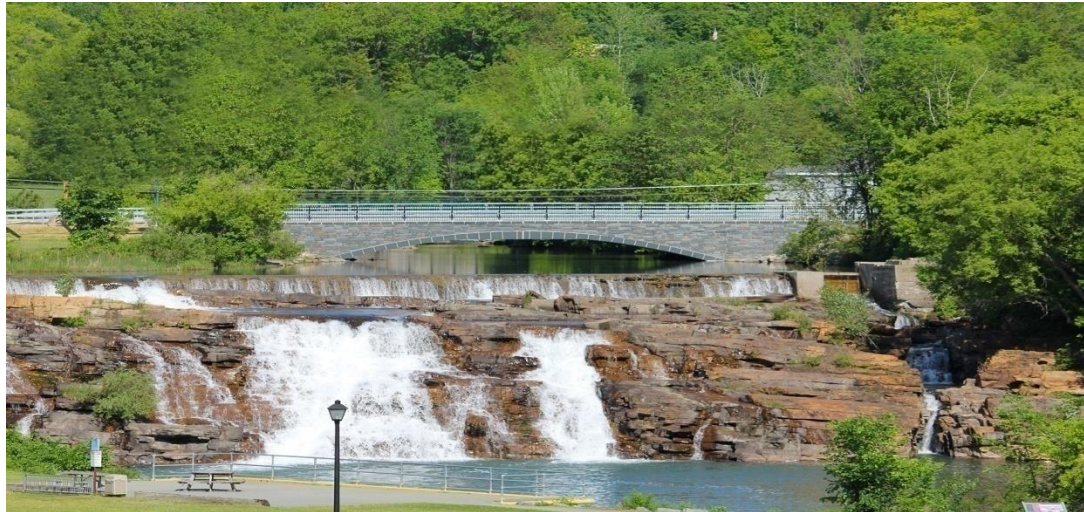
# Municipal Decision Making process

- Planning / Budgeting
  - 136 Bridges / 50 year life span = approximately 3 bridges per year
  - 360 miles of County road / 10 year life span = 36 miles of road per year
  - 680 miles of Town / Village road / 10 year life span = 68 miles of road per year
  - 92 major County culverts / 30 year life span = 3 Culverts per year
  - 150 major Town / Village culverts / 30 year life span = 5 per year



# Bridges Budgeting

- 3 Bridges per year
  - Costs ranging from \$500,000 to \$3,000,000 each
  - Average cost  $\$850,000 \times 3 = \$2,550,000$  annually
  - $\$2,550,000 / 15571$  households =  $\$163.77$  / household per year





# County Roads Budgeting



- 36 miles per year
- Wearing surface only – 1.5” of asphalt top
- Average cost = \$100,000 per mile
- 36 miles x \$100,000 per mile = \$3,600,000.00
- $\$3,600,000 / 15571$  households = \$231.20 / household per year

# Town / Village Roads Budgeting

- 68 miles per year
  - Wearing surface only – 1.5” of asphalt top
  - Average cost \$100,000 per mile
  - 68 miles x \$100,000.00 = \$6,800,000.00
  - \$6,800,000.00 / 15571 households = \$436.71 / household per year

# Major Culverts Budgeting

- 3 County and 5 Town / Village per year
  - Costs ranging from \$10,000 to \$600,000
  - Assuming average cost of \$125,000 each
  - \$1,000,000.00 per year / 15571 Households = \$64.22 per year





# Annual Costs

- Bridges - \$163.77 / household
- County Roads – \$231.20 / household
- Town / Village Roads - \$436.71 / household
- Major Culverts - \$ 64.22 / household
- Total \$895.90 / household

# \$900.00 per year / per household

- Doesn't include:
  - snow plowing / sand / salt
  - signage maintenance
  - Guide Rail Maintenance
  - Mowing
  - Tree maintenance
  - Highway equipment repair
  - Emergencies
  - NYSDOT – RED Flags on Bridges



# Municipal Decision Making Process



- **Reactionary**

- Municipalities tend to be reactionary
- Municipalities are led by elected officials
- Elected officials change every 2-4 years
- “It Won’t happen on my watch”
  - New Orleans’s - Hurricane Katrina
- “Don’t fix it til its broke”



# Reactionary – Budget Cuts

- First thing cut in municipal budgets tend to be non-mandated items
  - Bridge repairs
  - Road Repairs
  - Building repairs
  - Equipment replacement
  - Equipment repairs

# Deferred Maintenance



# How to incorporate wildlife and resiliency concerns?

- Planning assistance
  - Design support
  - Regulatory agency support
- Funding assistance
  - Grants
  - Loans









