













Lake County's Transportation Network

- Interstate I -94
- Over 2,880 miles of roadway state, county, local
- Over 500 miles of bike facilities
- 4 Metra lines, 32 train stations
- 14 Pace bus fixed routes
- Various paratransit services
- Corporate shuttle services
- Private car and ride -sharing/ride -hailing companies









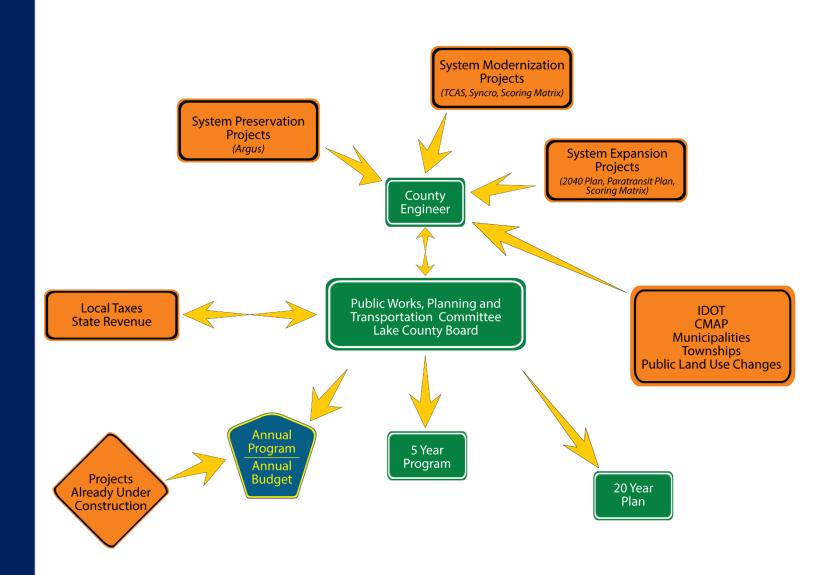


LCDOT INVENTORIES:

Pavement and Other Assets

- 300+ centerline miles (900+ lane miles)
- 62 miles of bike facilities
- 37 bridges
- 200+ miles culvert and storm sewer pipe
- 206 signal controllers
- 285 miles of fiber optic cable
- 27,000 + signs
- more

Capital Programming



Capital Program Revenues:

(Annual Projections)

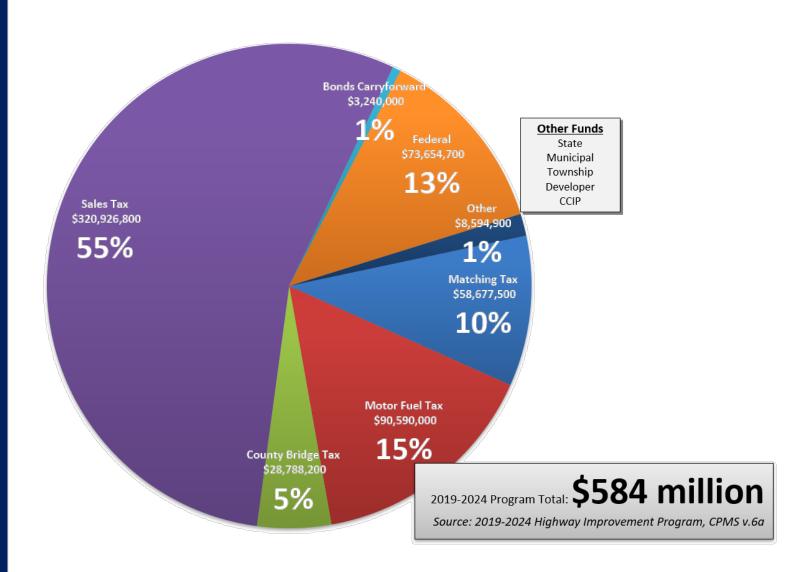
County
Bridge Fund
(\$4M)

Matching Tax (\$8M)

Motor Fuel Tax (\$11M)

Sales Tax (\$34M)

Fund Sources 2019-2024 program



Management
Philosophy Sets
System Priorities:



Modernization

3 Expansion

Balancing Program Needs

- \$584M 6-year Program
- 317 Projects

Funds Distribution | 2019-2024

by program category



Source: LCDOT Information Services | CPMS v.6a

Priority One: Preservation

Typically resurfacings, crack sealing and patching, bridge and culvert repairs/replacements and other maintenance activities



\$143 million

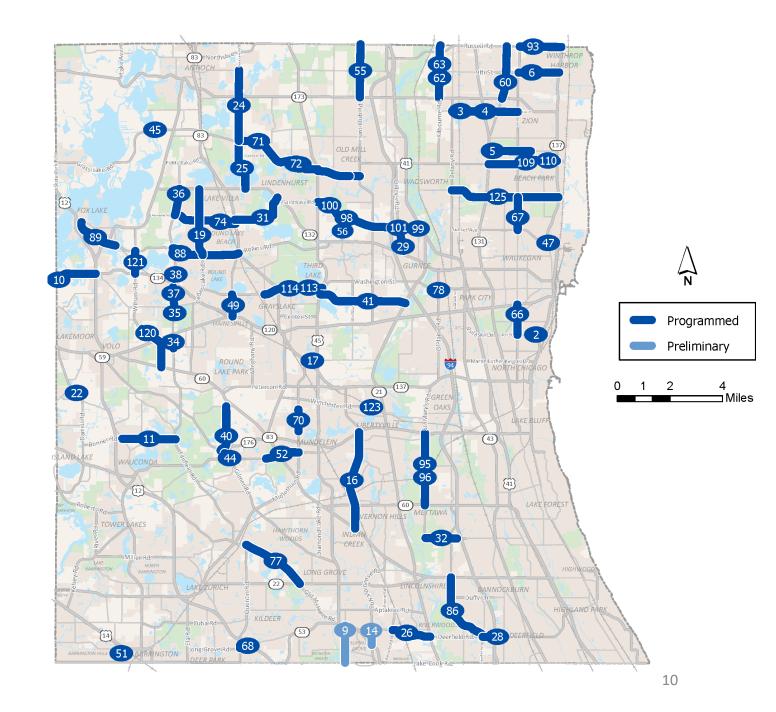


163 projects



Project Selection Tools:

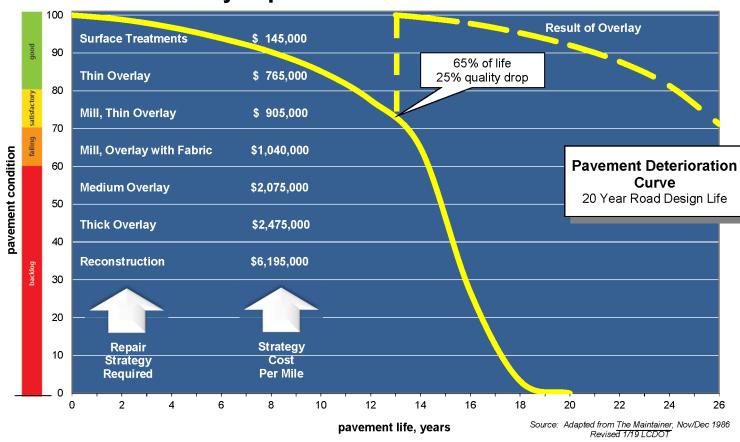
- Pavement Management System
- Asset Inventories
- Innovative Techniques



Staying Ahead of the Curve

- Moved away from "worst first" philosophy
- Focus more on treatments early in the life-cycle
- Took time to convince elected officials and public

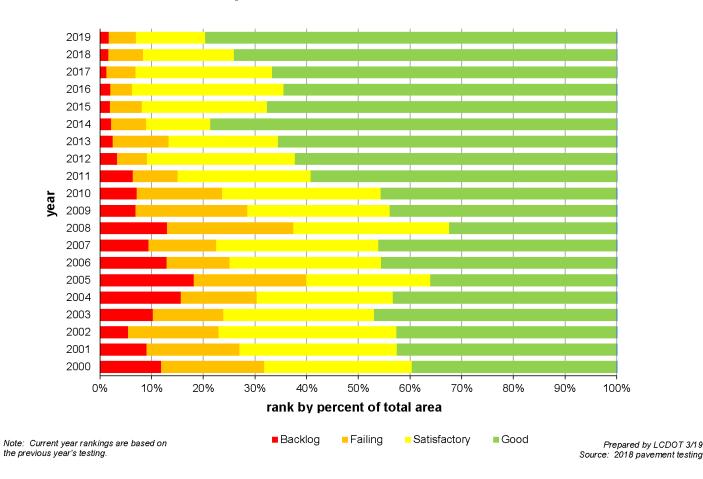
Early repairs are most cost effective



Pavement Management Results

- Implemented in 1986
- Overall Pavement Condition has improved from 68 to 84
- Backlog/failing pavement reduced from 55% to 2%

ARGUS System optimizes improvements



Priority Two: Modernization

Intersection/safety improvements, bike and pedestrian accommodations



\$191 million

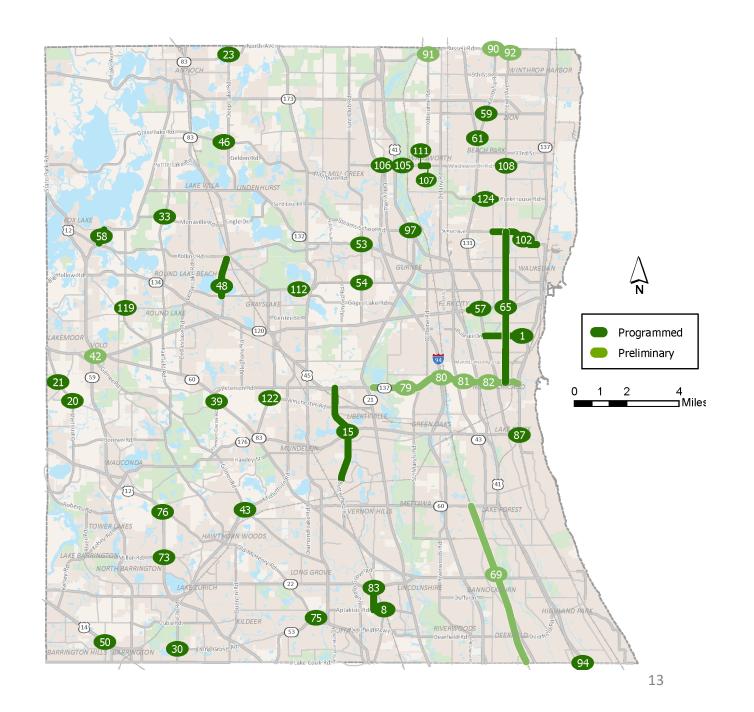


118 projects



Project Selection Tools:

- Traffic Analysis/Level of Service Data
- Crash Data/Heat Maps
- Non-motorized policy
- 2040 Bike and Pedestrian Priorities
- Project Scoring Matrix



Modernization saves time, fuel, money and the environment

Analyzing and adjusting signals along Lewis Avenue from Sunset to IL173 (5 miles):

Delays Reduced: 403 hours per day

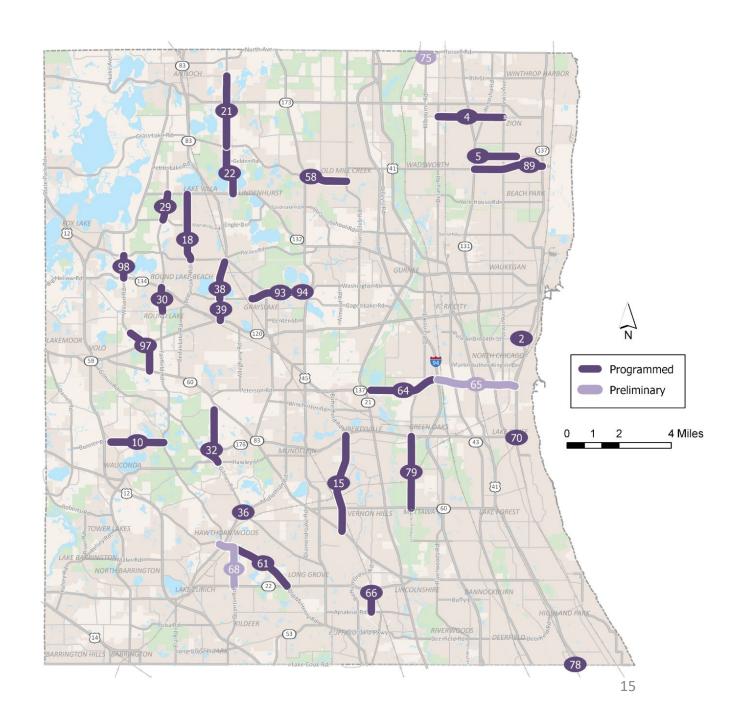
Fuel Saved: 4380 gallons per year

Annual Benefit: \$2,486,700

CO₂ Emissions Avoided: 25.2 metric tons per year

\$32M in non-motorized improvements

- **6%** of 6-year project expenditures
- Bike paths
- Bike-friendly shoulders
- Sidewalks and sidewalk gap improvements
- Pedestrian accommodations



Priority Three: Expansion

Add lanes, grade separations, new or extended roads



\$197 million

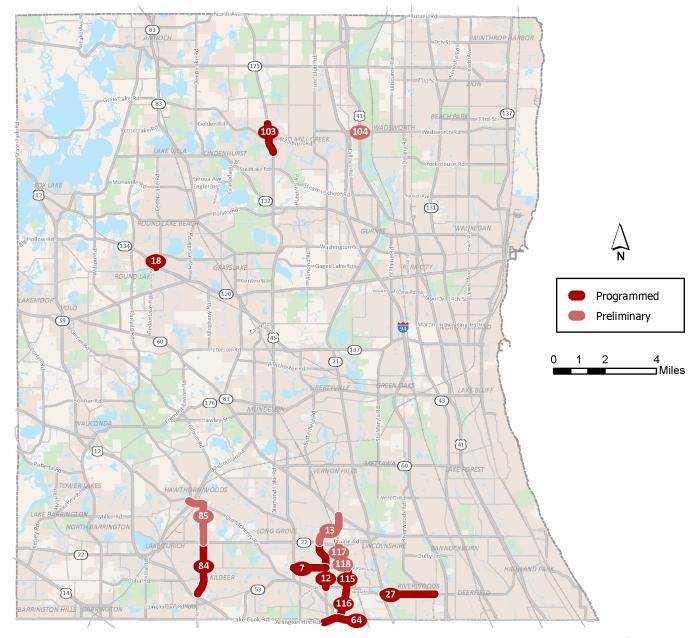


36 projects



Project selection tools:

- LCDOT 2040 Plan
- Traffic/Crash Data
- Demographic Trends
- Project Scoring Matrix



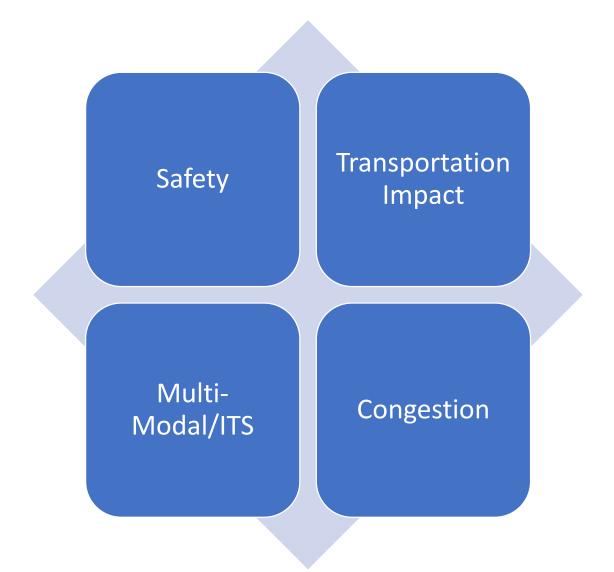


Congestion Levels



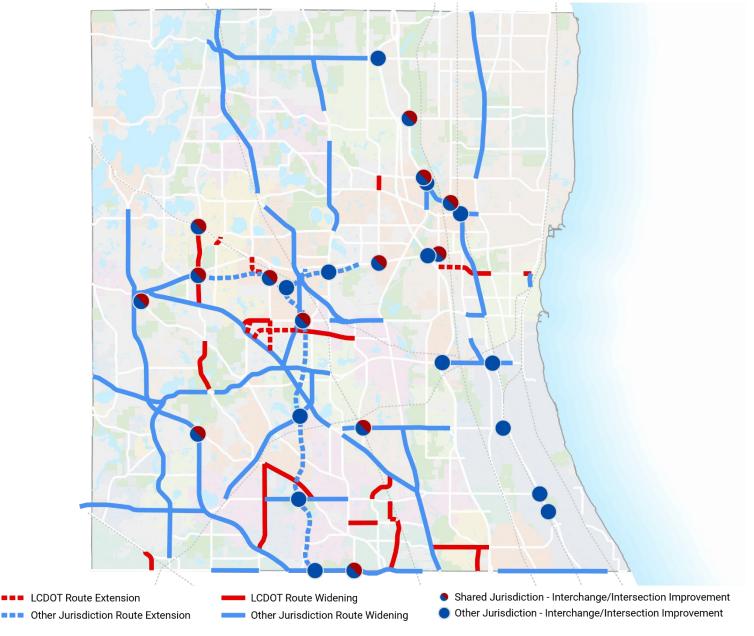
Project Priority Scoring Matrix

- One component in selecting modernization and expansion projects
- Data driven; cost not a factor
- Weighted on four factors
- Based on LCDOT Strategic Plan
- System refined annually



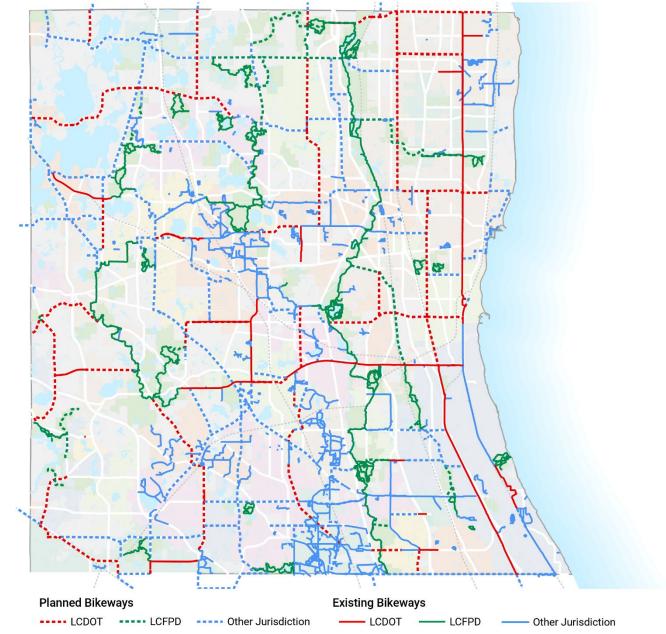
2040 Roadway Priorities

- Peak period trips estimated to increase by 36% between 2010 and 2040
- 212 miles of roadway Improvements recommended
 - 7 interchange
 - 9 intersection
 - 65 corridor



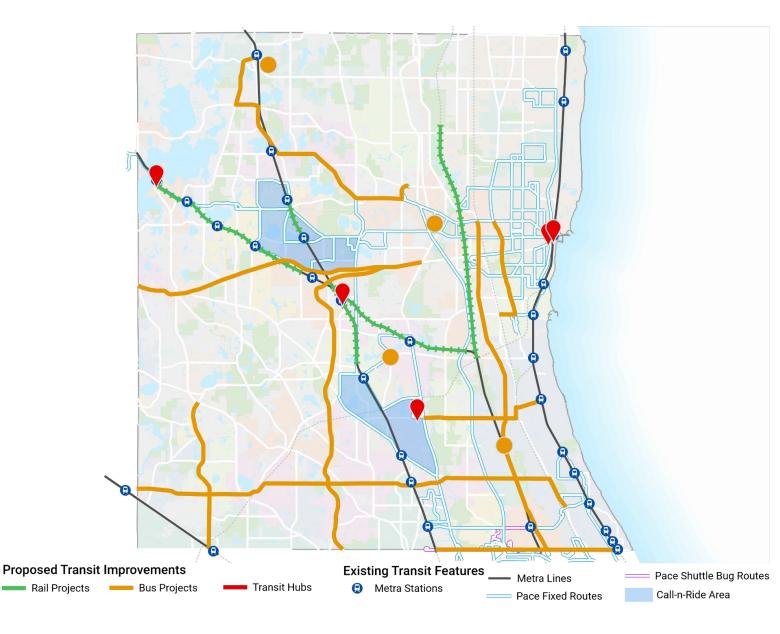
2040 Non-Motorized

- Over 300 miles of facilities recommended
- Primarily off-street, multi-use facilities
- Connections to important destinations such as communities, forest preserves, Metra stations, Pace routes and employment centers



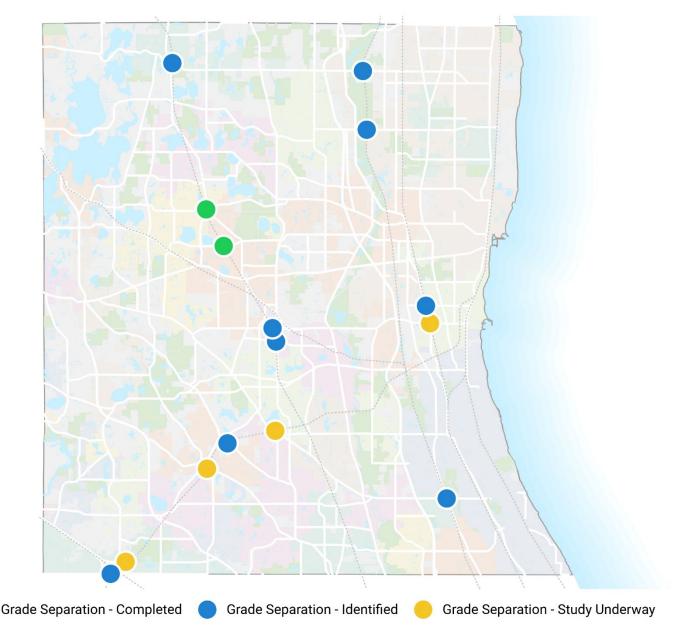
2040 Transit

- Diverse land uses, population densities – no single transit solution
- 20 recommended improvements from new demand response to commuter rail extensions



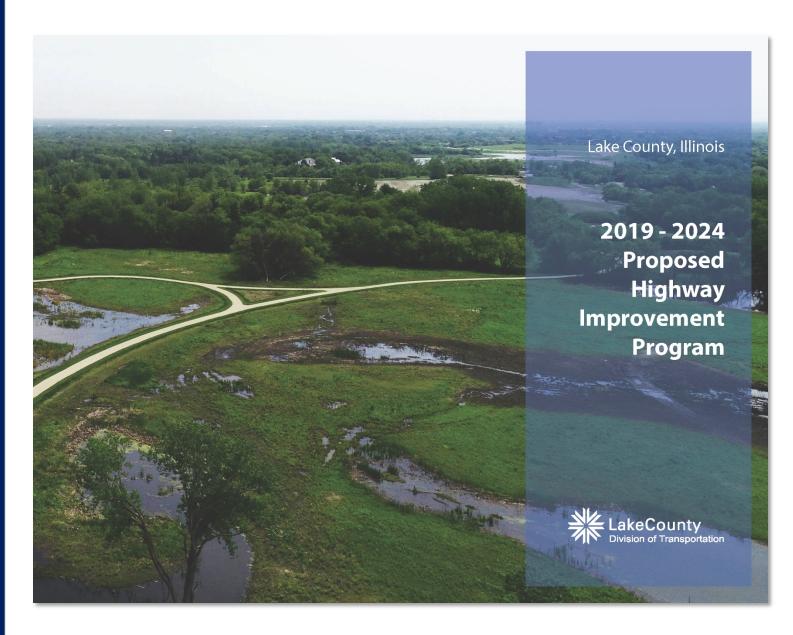
2040 Railroad Grade Separations

- Evaluated 66 at-grade road/rail crossings
- Criteria included
 vehicular ADT, freight
 trains per day, other
 roadway deficiencies
- 15 recommended for grade separation



Lake County's Five-Year Plan on the Web

lakecountyil.gov/transportation



Thank You!

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