



REDUCING BARRIERS TO INNOVATION

IAMMA Annual Conference

April 12, 2019

Session Time: 11:00 AM – 12:00 PM



REDUCING BARRIERS TO INNOVATION



Rocco Zuccherro
Illinois Tollway



Stan Balicki
Village of Downers Grove



WHAT EXACTLY DOES REDUCING BARRIERS TO INNOVATION MEAN?



OPEN ROAD TOLLING  PLUM GROVE RD PLAZA 326

Reducing Barriers to Innovations

Illinois Association of Municipal Management Assistants (IAMMA)
Conference

Rocco Zuccherro

Illinois Tollway Chief Planning Officer

April 12, 2019

Move Illinois Program

15-year, \$14 billion capital program

- **Illinois Route 390 and I-490 Tollways** - \$3.4 billion
Provide access to O'Hare International Airport
- **Central Tri-State Tollway (I-294)** - \$4 billion
Reconstruct 22 miles at the heart of the system
- **Jane Addams Memorial Tollway (I-90)** - \$2.5 billion
Rebuild and widen 62 miles with transit options
- **I-294/I-57 Interchange** - \$719 million
Connect two major interstates
- **Taking care of existing system** - \$4 billion
Repair roads, bridges and interchanges

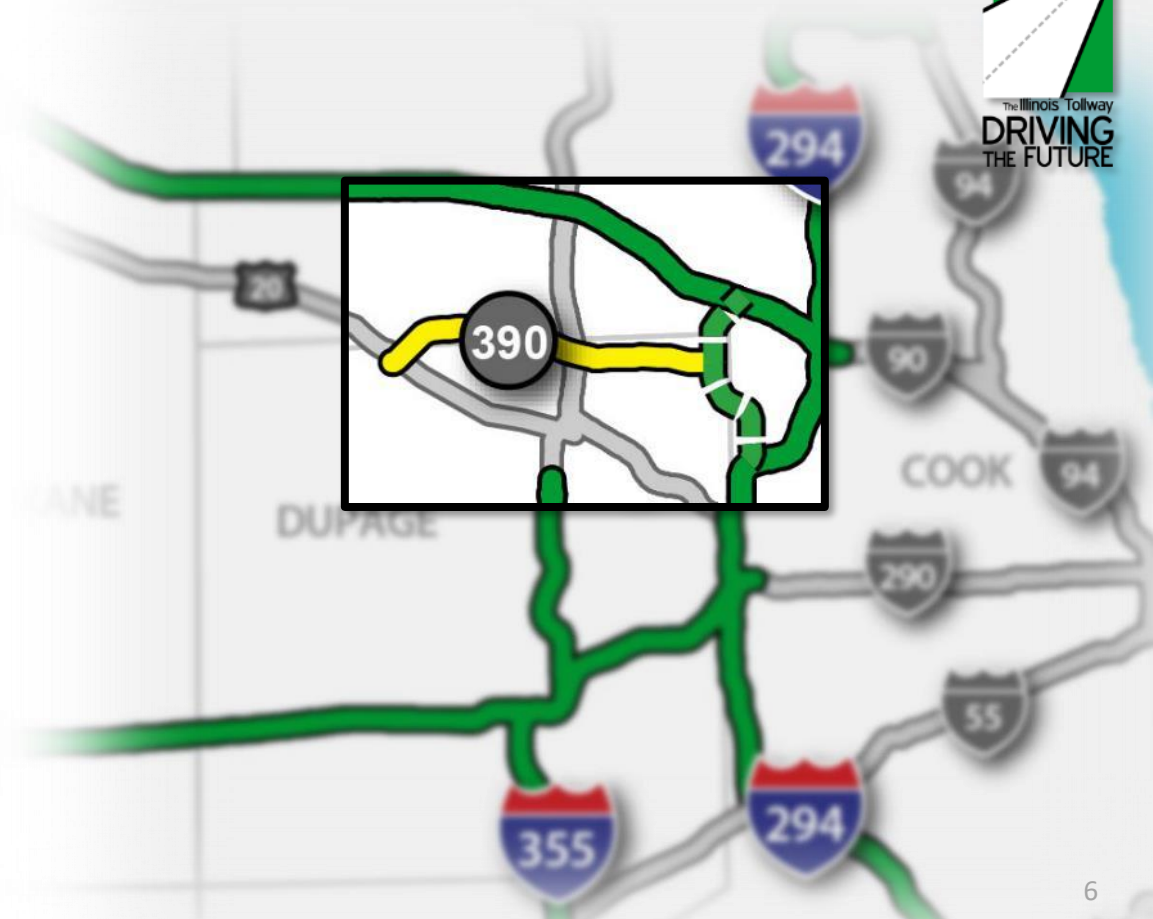


Elgin O'Hare Western Access Project

MOVE
ILLINOIS

The Illinois Tollway
DRIVING
THE FUTURE

- Convert existing expressway to a tollway
- Improve access throughout the region
- Extend roadway to O'Hare International Airport





The Illinois Tollway
DRIVING
THE FUTURE

The Corridor Before



- Previously an IDOT roadway
- Tollway as only way to address area's needs
- High-profile project
- Remove traffic signals
- Expand the road for increased traffic

Collaboration and Support

Governor's Advisory Council

28 members representing local government, business community, regional planning groups, labor and public finance

Local Advisory Committee

Representatives from 19 communities and townships along the corridor to provide input and help guide construction



The Illinois Tollway
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Behind the Scenes Coordination



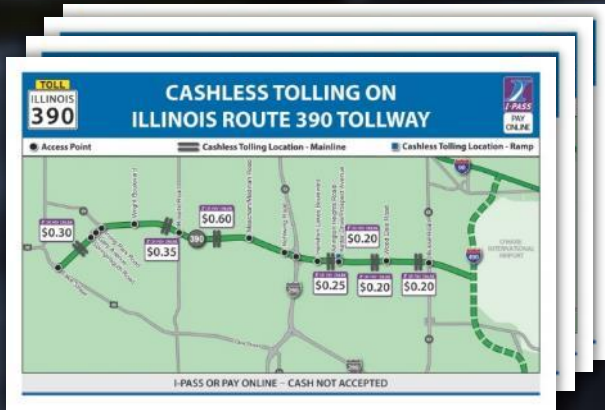
The First Cashless Tolling Roadway





Outreach And Communications

the Illinois Tollway
DRIVING
THE FUTURE



Printed and Produced

- 6,350 brochures
- 1,800 cashless tolling and I-PASS posters
- 53,750 handouts
- 19,700 postcards sent to non-I-PASS users

Wetland Mitigation

- Earthwork management
- Drainage partnership
- Chloride Reduction Program
- Retrofit coordination
- Tree Canopy Initiative
- Pollinator habitat



Before and After

The Illinois Tollway
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THE FUTURE



BEFORE

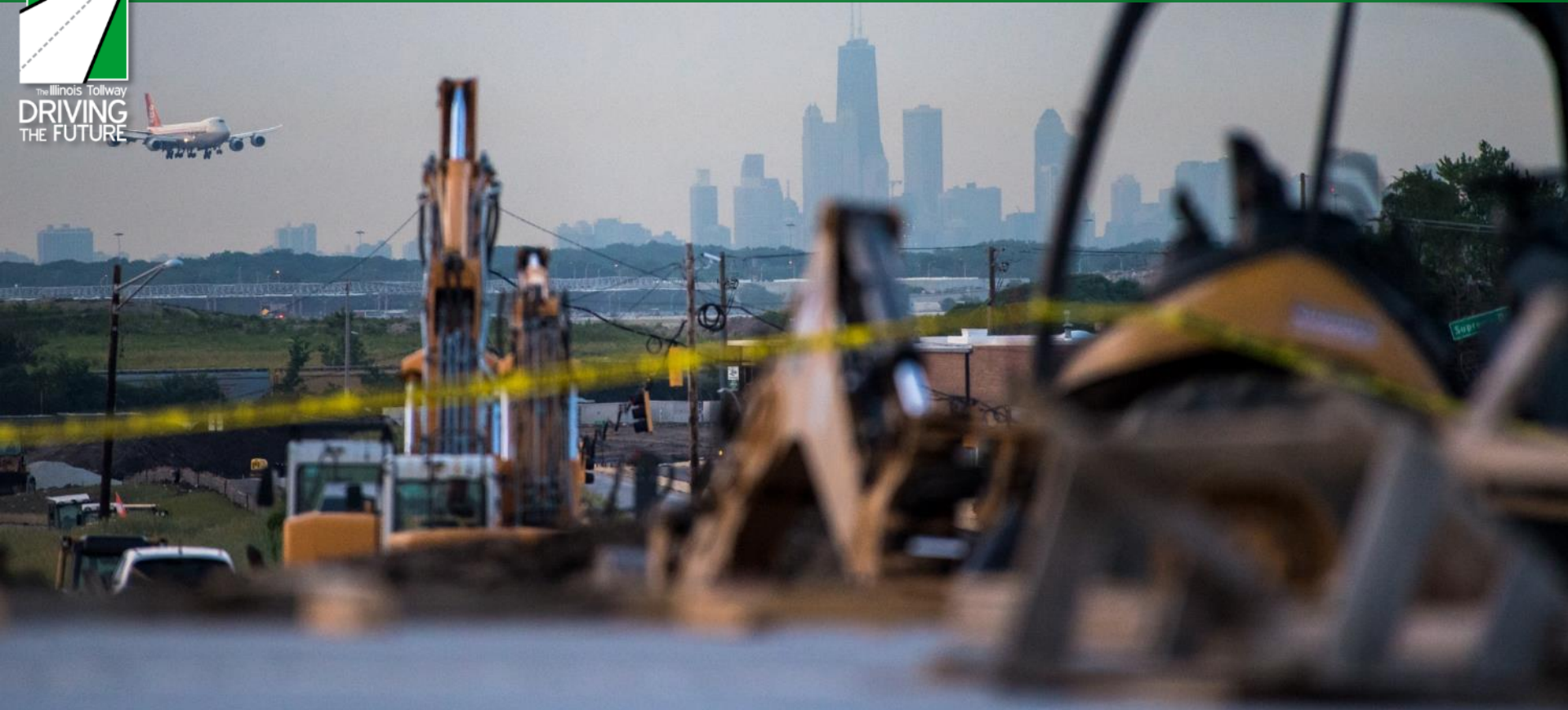


AFTER



I-490 Tollway Moving Forward

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Lessons Learned

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- Think holistically and regionally
- Understand various perspectives
- Identify and engage stakeholders early
- A project built on partnership

OPEN ROAD TOLLING  PLUM GROVE RD PLAZA 326

THANK YOU

MOVE
ILLINOIS

The Illinois Tollway
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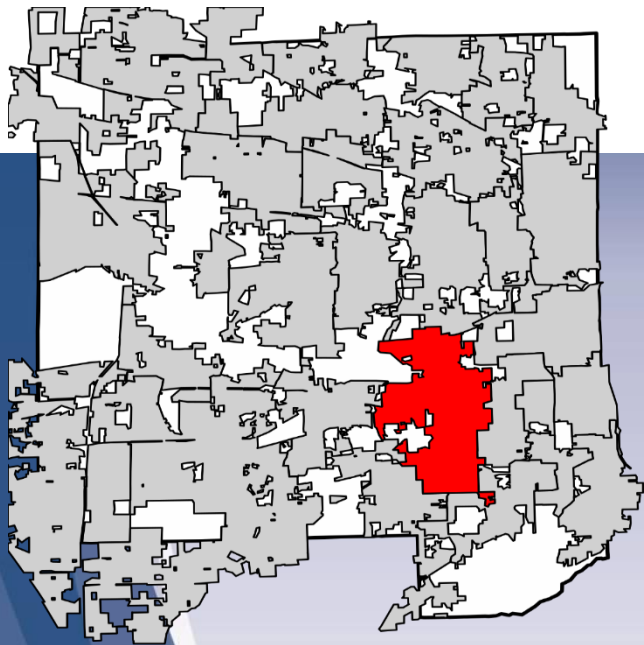
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BARRIERS TO INNOVATION: DOWNERS GROVE'S FLEET SUSTAINABILITY INITIATIVE

IAMMA Annual Conference
Northern Illinois University
Naperville Illinois, IL
April 12, 2019





- 22 miles west of Chicago
- Centrally located near rail and expressways
- Population: 50,000
 - Daytime: 70,000
- 14.5 Square Miles



Inside Look at Downers Grove's Fleet



https://www.youtube.com/watch?v=f_xudyYqzbQ

Keys to Breaking Down Barriers to Innovation

1. Establish a culture of innovation
2. Engage stakeholders
3. Have a detailed plan



Establishing a Culture of Innovation

1. Buy in from management

- a) Downers Grove Long Range Plan
- b) Support for strategic risk taking

2. Empower the employees

- a) Establish employee input as part of the process
- b) Reach out for employee feedback after implementation

3. Daily Innovation Mindset



Engaging Stakeholders

1. Collaborate with other organizations
 - a) Increase resource allocation
 - b) Reduce cost
2. Collaborate with the community
 - a) Environmental Concerns Commission
 - b) Sustainability Reports



Have a Detailed Plan

1. Set goals, and monitor performance
 - a) Establish in Long Range Plan
2. Identify funding sources and cost savings
 - a) Collaboration with other organizations
 - b) Grant and rebate programs



Fleet Sustainability Initiatives

1. Converting Fleet to Alternate Fuel Vehicles
2. “Right Size” Vehicles and Reduce Fleet Size
3. Innovative Solutions for Reducing Fuel Usage
 - a) Drive-Cam/GPS Tracking
 - b) Anti-Idling Policy
 - c) Nitrogen Filled Tires
 - d) Sustainably heating fleet garage



Converting Fleet to Alternative Fuels

- 84% of Vehicles run on Alternative Fuel
 - 88 Biodiesel vehicles
 - 35 E-85 Ethanol vehicles
 - 21 Compressed Natural Gas vehicles
 - 6 Solar-powered pieces of equipment
 - 3 Propane-powered pieces of equipment
 - 2 Hybrid vehicles



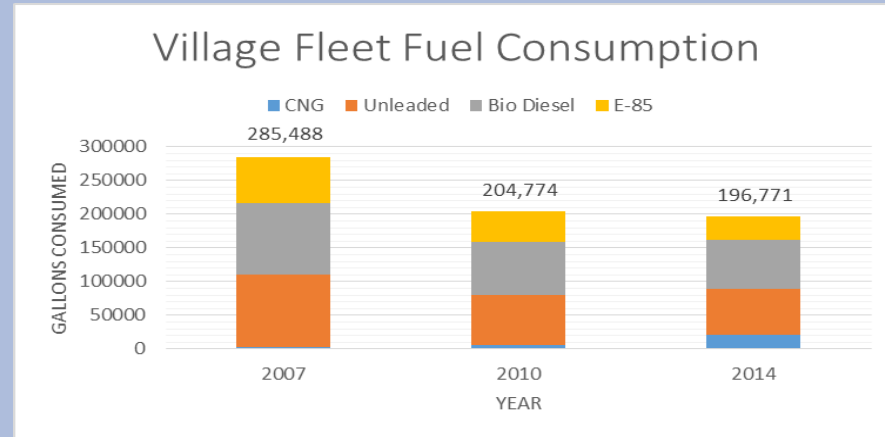
Vehicle Evaluation

- When vehicles retire, Village staff evaluates vehicles function and operation
 - First CNG Snowplow in Midwest
 - Chevy Tahoe CNG Conversion
 - IEPA Alternative Fuel Rebate Program



CNG Fueling Facility

- Constructed in 2001
 - Capacity for CNG, unleaded, diesel and E85
- Utilized by School District 58, SEASPAR, DuPage County Public Works



“Right Size” Vehicles and Reducing the Fleet

- Computerized Fleet Analysis Software
 - Measures performance of vehicles
 - Assesses replacement costs and vehicle needs
- Monitoring Vehicle Mileage
 - Seldom used vehicle → pooled vehicle
- Employee Feedback

11% Reduction in
Overall Fleet Size



Innovative Solutions: DriveCam / GPS Tracking

- GPS Tracking
 - Monitoring and optimizing snowplow routes
- DriveCam
 - Video recording software
 - Combined with defensive driving training to monitor and curb fuel-wasting habits
 - Not used to actively monitor discipline



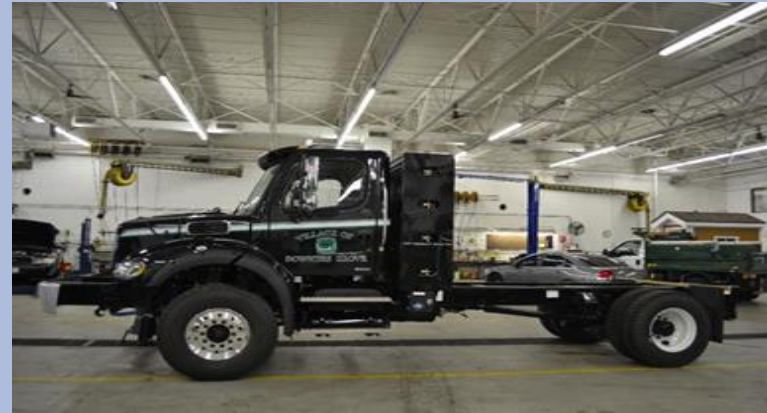
Innovative Solutions: Anti-Idling Policy

- City-wide policy
- Education campaign for Village Staff
- Cab warming devices for snowplows
 - Feeds off vehicle's battery



Innovative Solutions: Nitrogen Filled Tire Conversion

- 100% of fleet filled with nitrogen
- Tires last longer and improves mileage
 - Tire life: 10,000 miles → 21,000 miles



Innovative Solutions: Heating Fleet Garage

- Installation of solar panels and waste oil heater
- Saves on heating costs, removes toxic substances
- 48.5% reduction in using natural gas while heating up the building



Recognition





QUESTIONS?



THANK YOU FOR ATTENDING!