



# E-470 AND EXPRESSTOLL

*Travel with Excellence*

E-470 Communications Consultant

*Sheryl Machado*

Commerce City Council Presentation

June 4 , 2018



# A MOBILITY SOLUTION



- **Solution**
- **Choice**
- **Interoperable**



COLORADO  
Department of  
Transportation



EXPRESS  
LANES





# BACKGROUND INFORMATION



- 47-mile all-electronic toll road
- 1991 – Opened first segment
- 2003 – Opened Segment 4
- 2009 – AET conversion
- User-financed: NOT TAX FUNDED



# BACKGROUND INFORMATION

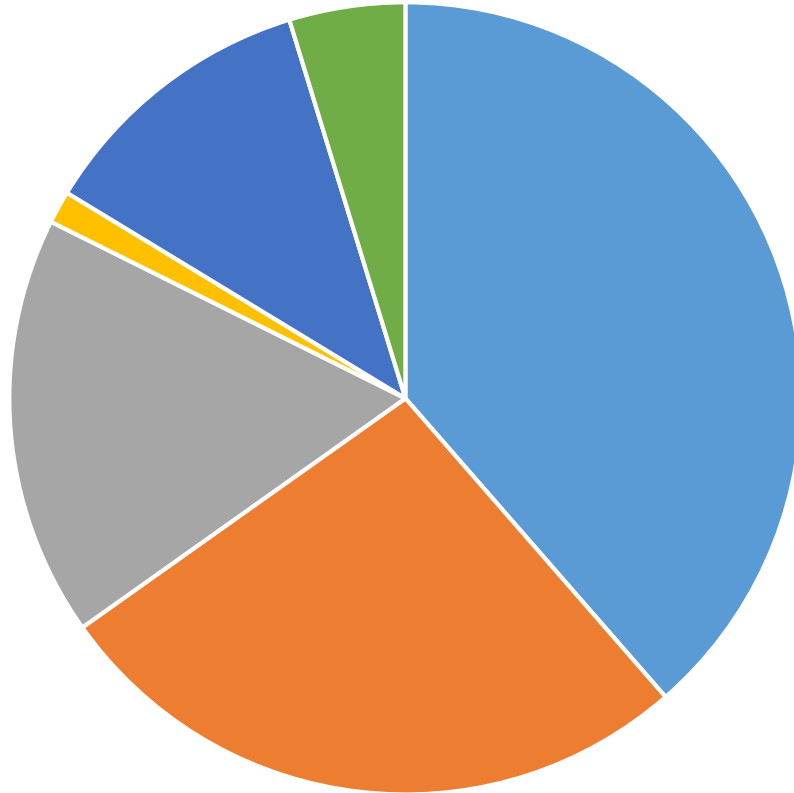
- Political Sub-division of the State
- Governed by PHA Law and Board of Directors
  - **8 Voting Members**
    - Adams County
    - Arapahoe County
    - Douglas County
    - Aurora
    - Brighton
    - Commerce City
    - Parker
    - Thornton
  - **8 Non-Voting Members**
    - Arvada
    - Broomfield
    - Colorado Department of Transportation (CDOT)
    - Denver Regional Council of Governments (DRCOG)
    - Greeley
    - Lone Tree
    - Regional Transportation District (RTD)
    - Weld County

- More than \$1.5 Billion in bond debt
- Total matured bond payoff amount is \$2.7 Billion
- Annual payments around \$100 Million
- Scheduled to be paid off in 2041
- Perpetual Maintenance Fund (2076)





# 2017 USES OF E-470 REVENUES



- Debt Payments - 39%
- Capital Program - 27%
- Operating Expenses - 17%
- Law Enforcement & Safety - 1%
- Required Reserves - DSCR - 12%
- Reserves for Future E-470 Reinvestment - 5%

**2017 Total Revenues - \$249,574,506**



# TOLL ADJUSTMENT FOR 2018-2020

- No toll increases for E-470 ExpressToll users for up to three years
  - Implemented January 1, 2018
- ExpressToll rate dropped by \$0.25 at Toll Plaza C
  - E-470 between I-70 and Peña Boulevard
- License Plate Toll (LPT) adjustment to cover increased collection cost
  - 25% premium over ExpressToll rate increased to 50%
- LPT Customers can easily be converted to ExpressToll
  - Go to [ExpressToll.com](https://www.expresstoll.com) or call 303-537-3470





# REINVESTING TOLL REVENUE

- Wrong-way driver prevention
- Deer fence installation
- Median remediation
- Cable Barrier (Prevents Crossovers)
- Bridge rail replacements
- Technology upgrades
- Routine road maintenance







# RECENT INITIATIVES

- Completed \$90 million Road Widening Project between Quincy and Parker Road (Dec. 2017)
- Temporary tag initiative
- Removal of Vehicle Registration Fees in Adams, Arapahoe and Douglas Counties (effective Sept. 2018)
- Removal of the Highway Expansion Fees
- Autonomous vehicles
- RoadX support (Smart 25 and Arrivo)



- Level of Service Study
  - Roadway widening
  - Interchange improvements & additions
- Continued maintenance improvements
  - Paving, lighting, signing, safety devices, etc.
- Accommodate growth along corridor
- Identify and implement mobility solutions
- Identified ~\$1.8 billion in capital, infrastructure, and replacement needs between 2018-2040
- Authority is evaluating the timing and project plans for these costs





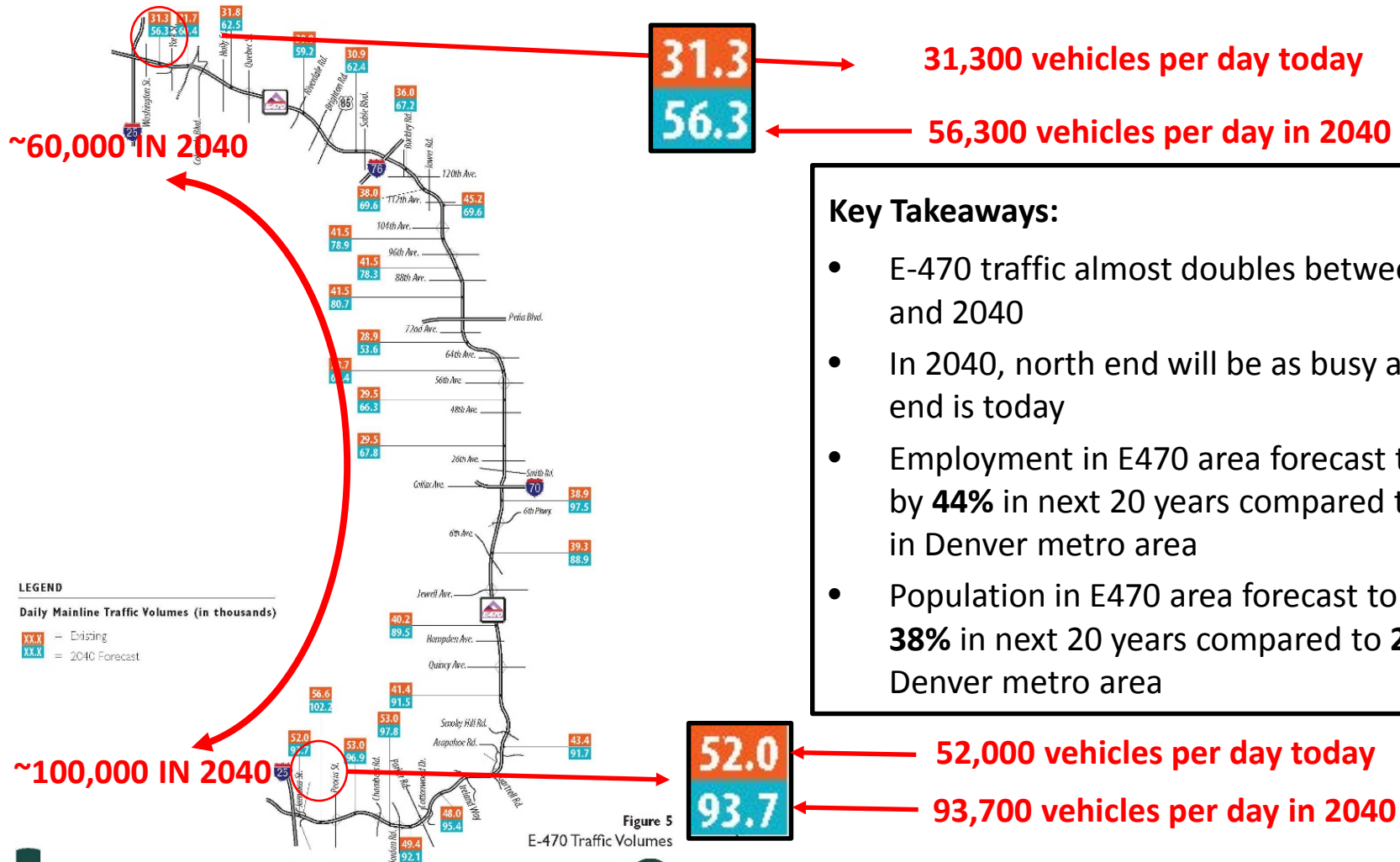
# Financial Summary of Master Plan 2018 - 2040

Item	Estimated Cost	Description
Road Widening	\$ 625M	Widen to ultimate 4 lanes in each direction
Minor Interchange Improvements	\$ 65M	Traffic signals, ramp & cross street widening
Major Interchange Improvements	\$ 325M	Build out I-70, I-76 and Pena Interchanges
New Interchanges	\$ 90M	38 <sup>th</sup> /48 <sup>th</sup> Ave., 88 <sup>th</sup> Ave., 112 <sup>th</sup> Ave., Potomac Street
Other Capital Improvements	\$ 130M	Trail, bridge deck replacement, pavement overlays
Renew & Replacement	\$ 600M	General ongoing road and facility maintenance, TCS and IT upgrades
<b>TOTAL =</b>	<b>\$ 1.8B</b>	





# 2040 TRAFFIC PROJECTIONS



# ROADWAY LEVEL OF SERVICE



LOS C Example



LOS D Example

**A**

Free flow, low traffic density



**B**

Minimum delay, stable traffic flow



**C**

Stable condition, movements somewhat restricted due to higher volumes, but not objectionable for motorists



**D**

Movements more restricted, travel speeds begin to decline



**E**

Traffic fills capacity of the roadway, vehicles are closely spaced, incidents can cause serious breakdown



**F**

Forced flow with demand volumes greater than capacity resulting in breakdown in traffic flow





# ROAD WIDENING QUINCY TO I-70



## PROJECT HIGHLIGHTS

- 7-miles long
- Grading/drainage for 8 lanes (4 north and southbound)
- 3<sup>rd</sup> lane added to outside
- Widen 14 bridges
- Widen Toll Plaza B
- 170,000 tons asphalt
- Trail included in scope

## TENTATIVE PROJECT SCHEDULE

**FALL 2018**

*Design Phase*

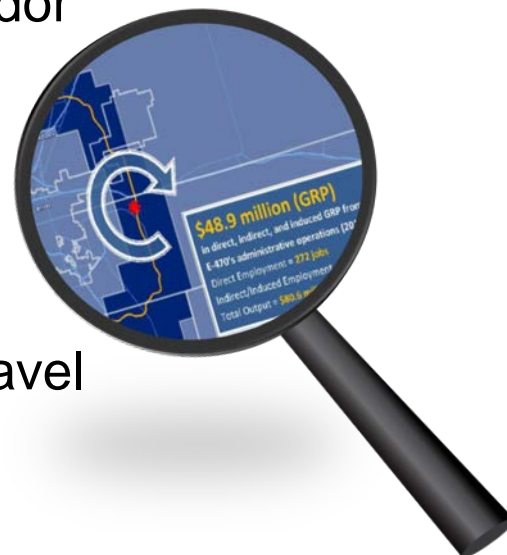
**MID 2019-2020**

*Construction Phase*

**DECEMBER 2020**

*Project Completion*

- **\$38.4 Billion:** Real estate valuation along corridor
- **407,000:** Homes built within impact area
- **132,000:** Jobs created within area
- **21,000:** Households dependent on E-470 for travel
- **7,800:** Workers dependent on E-470 for travel
- **14.8 Million Hours:** Driving hours saved with E-470
- **E-470 provides safety** and reduces traffic incidents







# ALL-ELECTRONIC TOLLING



- ExpressToll customers prepay their accounts
- Branding and technology used on all Colorado facilities
- ExpressToll customers received a 35% discount
- Also gain access to the ExpressToll Rewards Program



- Front and rear image taken of license plate
- Registered owner of vehicle receives monthly statement
- LPT customers pay a 50% premium over ExpressToll on E-470
- Branding and technology used on E-470 and CDOT toll facilities





# COLORADO INTEROPERABILITY



## COLORADO TOLL FACILITIES

### ■ Toll Roads:

- E-470
- Northwest Parkway

### ■ Express Lanes:

- US 36 (Phase I and II)
- I-25 (Central & North Seg II)
- I-70 (MEXL)

### ■ Express Lanes (In progress):

- I-25 North Seg III
- C-470
- I-70 Central



# COLORADO TRANSPONDERS

## ■ Interoperable Transponders

- All transponders can be used on all toll facilities in the state
- One transponder per vehicle
- Multiple vehicles per account accepted



■ 6c Tags - 81%

■ T21 Tags - 10%

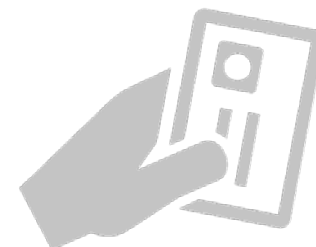
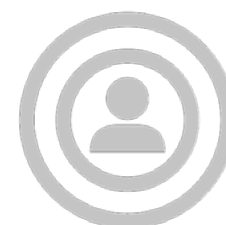
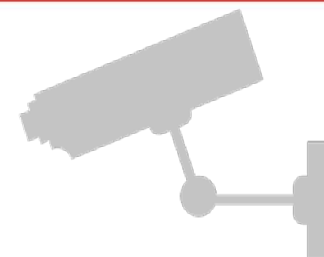
■ Switchable HOV Tags - 9%



**Total Issued Transponders: Over 1.6 Million**

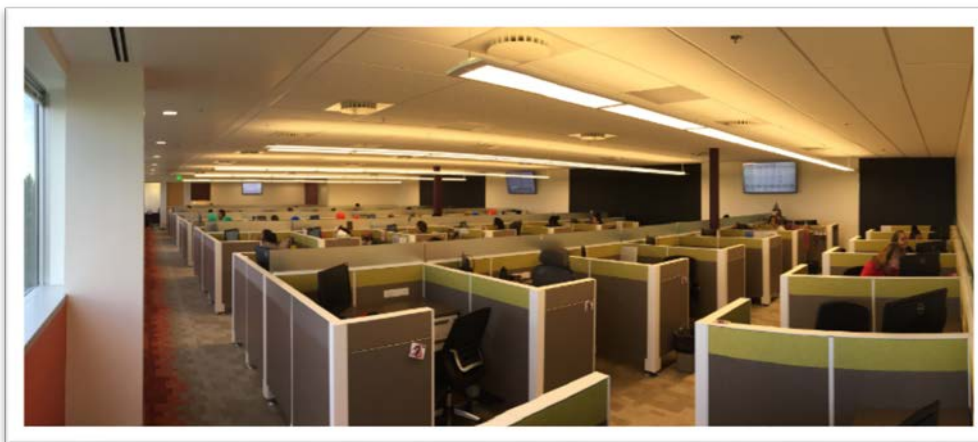


- Tolling systems software development
- Toll equipment installation & testing
- Transaction & payment processing
- Business partner correspondence
- Customer service activities
- Billing, courts & adjudication
- Quality assurance



# OPERATING STATISTICS

- **Total Transactions** – **116.2 Million** Lane Level Transactions in 2017
  - 10% Growth over 2016 (all roadways combined)
- **Call Volumes** – **919,000** Customer Calls Serviced in 2017
  - 3% Growth over 2016
- **Images Reviewed** – **73.1 Million** Images in 2017
  - 23% Growth over 2016
- **New ExpressToll Accounts** – **128,300** Opened in 2017
  - 2% decrease from 2016



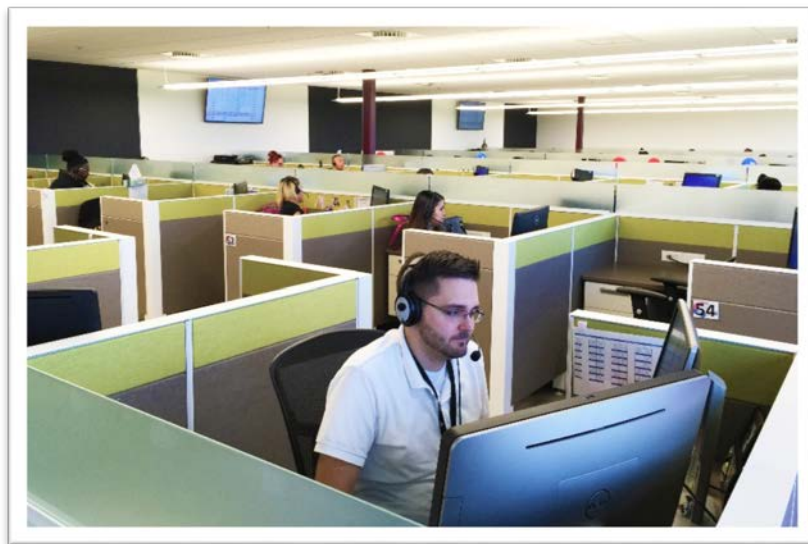
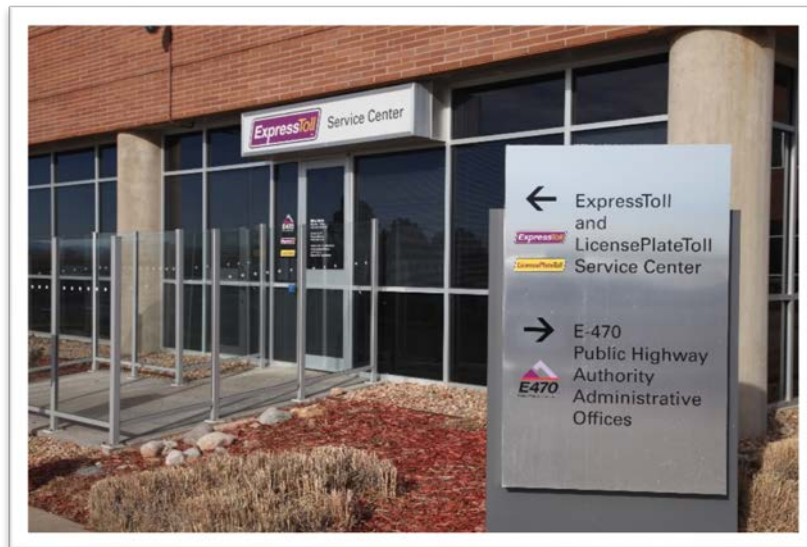


# HOW TO SIGN UP FOR EXPRESSTOLL

**ExpressToll Service Center:**  
22470 E. 6th Pkwy, Suite 110  
Aurora, CO 80018

**Customer Service:**  
Local 303-537-3470  
Toll-Free 888-946-3470

**Website:**  
[www.expresstoll.com](http://www.expresstoll.com)





# THANK YOU FOR YOUR TIME





# CONTACT INFORMATION

- **Tim Stewart** | Executive Director  
Phone: (303) 537-3745 | [tstewart@e-470.com](mailto:tstewart@e-470.com)
- **Sheryl Machado** | E-470 Communications Consultant  
Phone: (303) 825-6100 | [sherylmachado@gbasm.com](mailto:sherylmachado@gbasm.com)
- **Customer Service** | Email: [customerservice@expresstoll.com](mailto:customerservice@expresstoll.com) |  
Phone: 303-537-3470
- **Roadside Assistance** | Phone: 303-537-3400
- **E-470.com**
- **ExpressToll.com**

