

# Existing Toll Facilities Emerging Technologies

*E-470 Public Highway Authority*

Dave Kristick

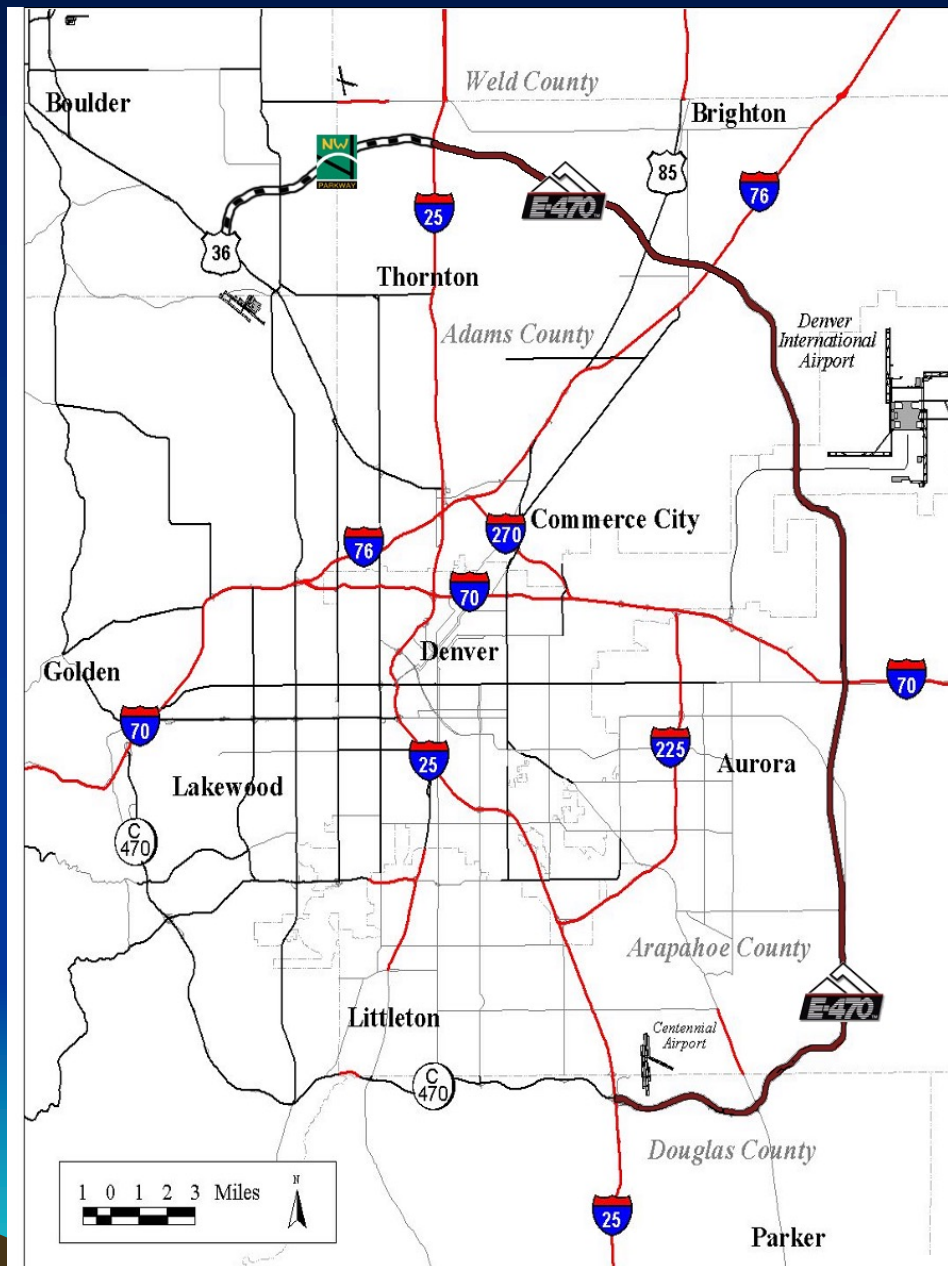
September 4, 2008



# Outline



- **E-470 Background**
  - The Four S's
- **Toll Facility Peculiarities**
- **Intended to Furnish Value**
  - Customers
  - Investors
- **Capital Funding Limitations**
- **Stewardship of Capital Assets**



# E-470 Member Jurisdictions

- Adams County
- Arapahoe County
- Douglas County
- Aurora
- Brighton
- Commerce City
- Parker
- Thornton

**Voting Members**



# E-470 Member Jurisdictions

- CDOT
- DRCOG
- RTD
- Arvada
- Broomfield
- Greeley
- Weld County

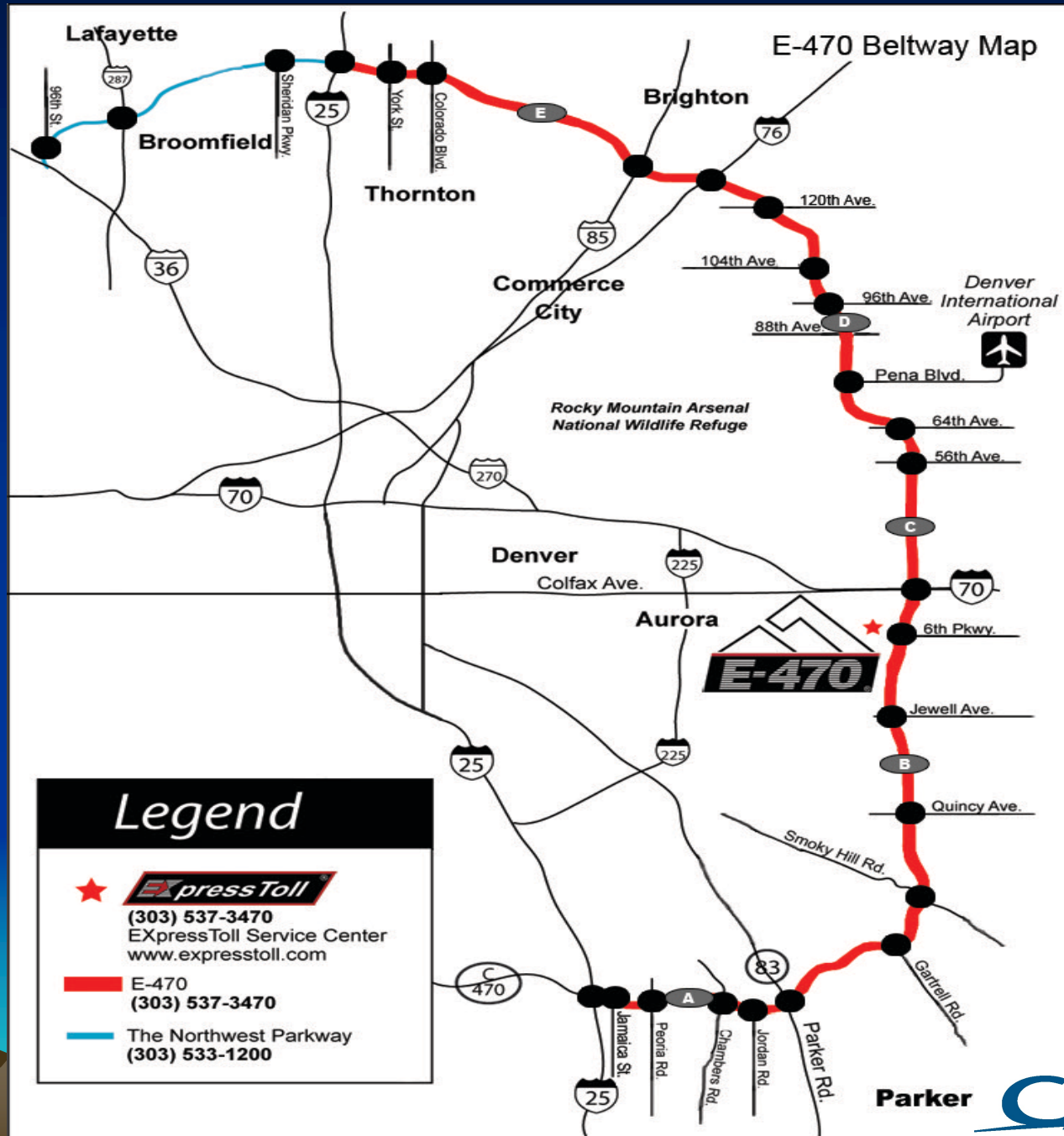
## Non-Voting Members

# Colorado Toll Road Differences

- **E-470 Public Highway Authority**
  - Special Purpose Enterprise Government
- **Colorado Tolling Enterprise - CDOT**
  - I-25 Express Lanes (HOT/HOV)
- **Northwest Parkway Public Highway Authority**
  - Northwest Parkway LLC – 99 Year Lease
  - Brisa

# E-470 Facts & Figures

- Centerline Miles – 47
- Lane Miles – 311
- Bridges - 96
- Mainline Toll Plazas - 5
- Ramp Toll Plazas – 16 Locations
- 106 Toll Lanes
- 2 Axle Cost / Mile - \$.21
- 2 Axle End to End Cost - \$9.75



# Road/Pavement (311 lane miles)





# Bridges (96)





# Mainline Toll Plazas (5)





# Mainline Toll Plazas (5)





# Ramp Toll Plazas (32)



# Maintenance Support Sites (4)





# E-470 2007 Year-End Traffic & Revenue Results

- Toll Revenue \$ 94,373,000
- Total Revenue \$ 121,207,000
- Operating Costs \$ 27,773,130
- Debt Payments \$ 65,949,872

# E-470 2007 Year-End Traffic & Revenue Results

- Toll Transactions 54,142,000
- Avg Weekday Transactions 166,000
- Transponders 493,900
- EXpressToll Accounts 251,700

# Toll Facility Peculiarities



- Customer-Centric
- Service Oriented
- Intended to Furnish Value
  - Customers
  - Investors
- Capital Funding Limitations
- Stewardship of Capital Assets

# E-470's Four S's



- Safety
- Service
- Speed
  - Congestion Free
  - Predictably Convenient
  - Always Well Maintained
- Steewardship

# Safety



- **Commitment to Being the Safest Road in Colorado**
- **Use of Technologies**
- **Safety Features**
- **Public Safety Services**
  - **Colorado State Patrol**
  - **State Farm Safety Patrol**







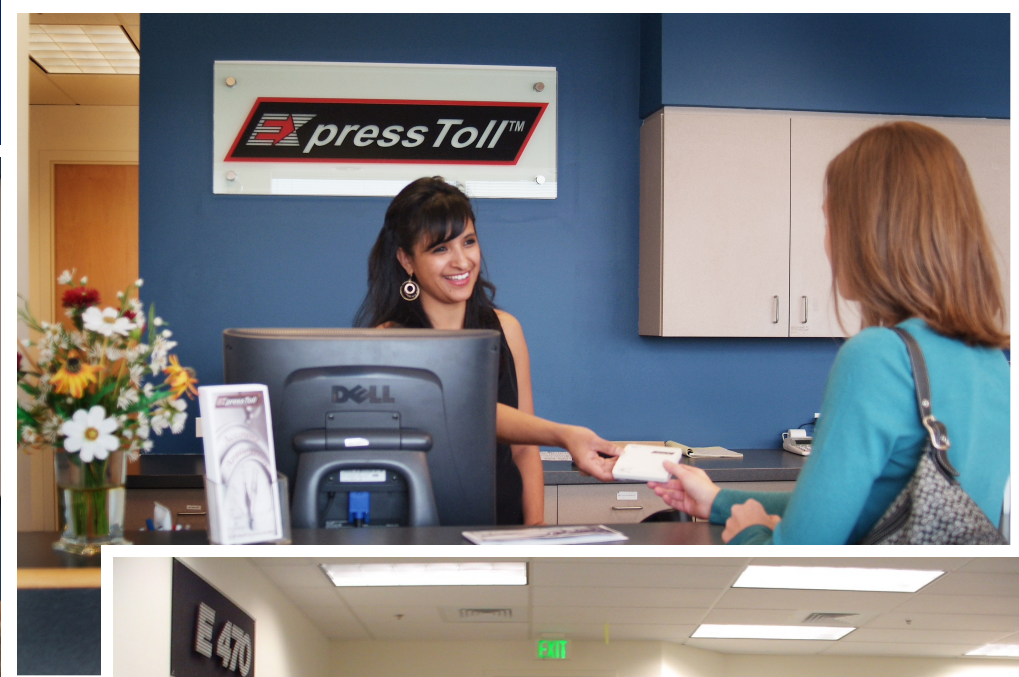
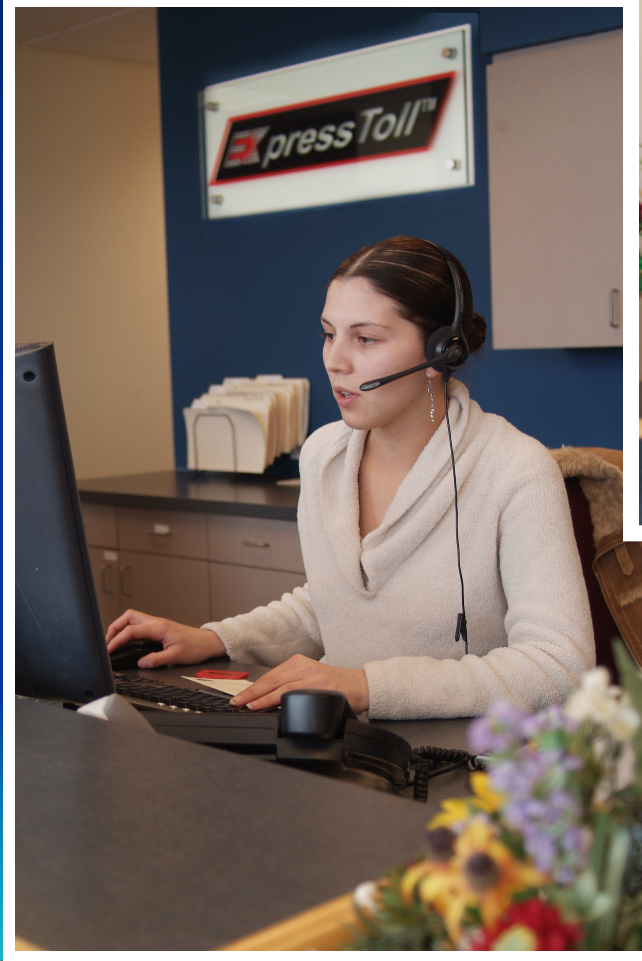
# Service



- **Best Practices**
  - Performance Criteria
  - Balanced Scorecard/Lean Six Sigma



# Customer Service Center



# Speed



- **Congestion Free Travel**
- **Predictable Travel Times**
- **Unmatched Road Conditions,  
Regardless of Weather  
Conditions**
- **Improvements in Advance of  
Traffic Demands**

# Weather





# Improvements - I-70 Interchange (Before)





# Improvements – I-70 Interchange (After)





# Improvements – Segment I (Before)



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# Improvements – Segment I (After)



# Stewardship



- **Best of Class Care of Assets –**
  - Long Term Focus
  - Facilities, Roadway & Toll Equipment
- **Business Operations Oriented to Long Term Cost Controls**
  - Cashless Strategy
  - Alliance for Toll Interoperability
    - Focus Toward ETC and Image-based Interoperability



# Vehicles



# Toll System Equipment





# Ramp Toll Plazas (32)



# Non-Stop Tolling



- **Cashless Tolling on E-470 in 2009**
- **Similar to CTE Express Lanes on I-25**
- **Video Tolling for Customers Without a Transponder**
- **Price Differential Between EXpressToll Transactions and Pay-by-Plate Tolling**





# Questions?



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