The Future of National Transportation: Where Tolling, DMV’s and DOT’s Intersect

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E-470 Public Highway Authority
Aurora, Colorado
BACKGROUND INFORMATION

- 47-mile toll road
- All-electronic tolling
- User-financed
- Political subdivision
E-470 MEMBER JURISDICTIONS

• **Voting Members:**
  – Adams County
  – Arapahoe County
  – Douglas County
  – Aurora
  – Brighton
  – Commerce City
  – Parker
  – Thornton

• **Non-Voting Members:**
  • Arvada
  • Broomfield
  • Greeley
  • Weld County
  • Colorado Department of Transportation (CDOT)
  • Denver Regional Council of Governments (DRCOG)
  • Regional Transportation District (RTD)
ALL ELECTRONIC TOLLING

• **ExpressToll™**
  – ExpressToll™ customers prepay their accounts by cash, check, or credit card
  – 1.1 Million transponders issued as of 7/31/14
  – 70% of Toll Transactions in 2013
    • 71% of Net Toll Revenue in 2013
    • 97.7% Collection Rate of Billable Revenue

• **License Plate Toll (LPT)**
  – Captures images of the vehicle and the registered owner receives a statement of use for toll collection (Post-pay)
  – Payments are accepted online, by phone, mail or in person
  – LPT customers pay a 25% premium over ExpressToll™
  – 30% of Toll Transactions in 2013
    • 29% of Net Toll Revenue in 2013
    • 91.5% Collection Rate on Billable Tolls
## ExpressToll vs. LPT Transaction Growth

<table>
<thead>
<tr>
<th></th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>YTD 2014</th>
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</thead>
<tbody>
<tr>
<td>Overall Growth %</td>
<td>1.5%</td>
<td>3.6%</td>
<td>8.2%</td>
<td>12.7%</td>
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<tr>
<td>LPT</td>
<td>14,320,571</td>
<td>15,271,039</td>
<td>17,294,134</td>
<td>9,451,597</td>
</tr>
<tr>
<td>ExpressToll</td>
<td>37,759,815</td>
<td>38,694,777</td>
<td>41,108,598</td>
<td>21,338,369</td>
</tr>
</tbody>
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* Q2 2014 increase calculated as compared to Q2 2013
Criticality of DMV Data

2014 Unbillable Toll Revenue by Type Breakdown

- Temporary License Plate, 28%
- No Visible License Plate, 31%
- Weather, 3%
- No DMV Record, 13%
- Other, 12%
- Out of State - No DMV, 1%
- Obstructed Plate, 3%
- Blurry Image, 9%
- Out of State - No DMV, 1%
- Weather, 3%
- Temporary License Plate, 28%
- No Visible License Plate, 31%
- Other, 12%
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E-470 Sources of DMV Data

• Direct Interfaces:
  – CO DMV
  – WY DMV
  – NE DMV *
  – IA DMV

• Private Party Interface for Other States and Provinces
Security of DMV Data by Toll Agencies

• Annual Payment Card Industry Audit
• Direct Interface Partner Requirements
  – Law Enforcement Audits
  – Special Software Development
  – Downstream Contract Requirements
LPT Imagery

CA

TX
LPT Imagery

OK

AZ
Future Managed Lane Facilities

- CDOT Owned
- P3 (CDOT & PRD)
- All-electronic tolling
  - ExpressToll & LPT
Projection of Colorado Toll Facility Transactions 2014-2020

C-470
- 3,917,000 3,999,000 4,081,000 4,163,000
I-25N
- 4,840,000 7,996,000 9,507,000 10,237,000 10,946,000 11,704,000 12,463,000
US-36 (Plenary)
- 4,199,727 7,216,090 8,976,656 15,663,042 16,840,790 18,015,868
I-25C (Plenary)
1,345,727 1,401,036 1,458,619 1,518,568 1,580,981 1,645,960 1,713,609
NWP
3,408,172 3,538,023 3,672,822 3,812,756 3,958,022 4,108,823 4,265,369
E-470
58,665,740 62,770,960 65,773,680 68,809,720 71,793,820 74,497,640 77,120,120

Projected Transactions 39,860,978
Nationwide Tolled Managed Lane Facilities

- Washington, DC
- North Carolina
- Florida
- Texas
- California
- Washington
- Utah
- Georgia
Nationwide Toll Interoperability

- Guidance through Federal Law (2012)
  - Moving Ahead for Progress in the 21st Century (MAP-21)

- Single Toll Account

- Single Device (Transponder)

- Accepted by All Toll Facilities Nationwide
Electronic Toll Collection Interoperability Requirements.--Not later than 4 years after the date of enactment of this Act, all toll facilities on the Federal-aid highways shall implement technologies or business practices that provide for the interoperability of electronic toll collection programs.
Nationwide Toll Interoperability Committee Structure

- Roadside Operations Subcommittee (ROSC)
- Back Office Subcommittee (BOSC)
- Communications Subcommittee
- Governance Subcommittee
Nationwide Toll Interoperability Committee Progress

• IBTTA RFI: Open ETC Protocols for North American Interoperability (November 2013)

• IBTTA RFI: National Toll Protocol Requirements Document (January 2014)

• To Be Approved September 2014:
  – Interoperability Back Office Business Rules
  – National Toll Protocol Requirements Document
  – National Toll Protocol Nomination and Selection Criteria
The Future of User-Funded Transportation: Where We Integrate

Toll Agencies

DOT’s

DMV’s

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Questions / Comments