

Infrastructure, Technology and the Corporate Opportunity

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Transport Infrastructure

- Economic competitiveness is dependent upon a sound transportation system
- Major reconstruction, not just capacity
- 87% freight value carried on highways
- Interstate engineering design stds. 20 years, max 73,280 lbs., max load now 80,000 lbs.
- I-70 in Missouri finished 40 years ago
- Tolling - part of the inevitable solution

Technology

- ETC increased the safety and convenience of toll collection and reduced the cost to collect
- Foundational ETC technology is advancing
 - RFID, ALPR
- Application of ETC tech advancing
 - AETC, interoperability
- Logistics efficiency – beyond “just-in-time”
 - Security, tracking, safety, predictive modeling

Foundational Technology Advances

- ALPR technology continues to improve
 - Hardware, OCR processing
 - Crucial to AETC implementation
- RFID technology price/performance
 - 915 MHz 6C Tags, 1/10 previous cost, no battery
 - Move or destroy on removal, switchable tags
 - Multi protocol readers
 - Open standards are being adopted

Technology Application

- As standards become more established and price/performance improves, ETC technology will expand into other markets
 - Parking, location and reservation
 - EVR, registration, vehicle ID, insurance
 - Security, vehicle tracking/identification
 - Advanced freight logistics
 - Transit applications, electronic payment systems
 - Other ITS applications

Corporate Opportunity

- Greater leverage of investments in ETC R&D
- New markets through innovative applications of existing technology
- Market expansion
 - Policy driven, MBUF
 - Business driven, profitability
 - Globally driven
- Strategic opportunities

Possible Outcomes

- Agency consolidations (DOT)
- Corporate consolidation/innovation
- Broader application of ETC technology
- Disruptive foundational technologies
- Standardization, modularity, interoperability
- Tolling is accepted as the method for collecting trans. revenues and managing demand based on voluntary use