



# ALLIANCE FOR TOLL INTEROPERABILITY

*Request for Information  
Pre-Submittal Presentation*

*November 9, 2009*

*[www.TOLLINTEROP.org](http://www.TOLLINTEROP.org)*

# Agenda

- **Toll Interoperability Today**
- **What is ATI?**
- **ATI Today – *Current Approach & Initiatives***
- **Phase 1 & Phase 2**
- **ATI Tomorrow – *Request for Information***
- **Open Discussion – *Q&A About the RFI***



Please submit all questions during the webinar to [jr.fenske@tollinterop.org](mailto:jr.fenske@tollinterop.org)

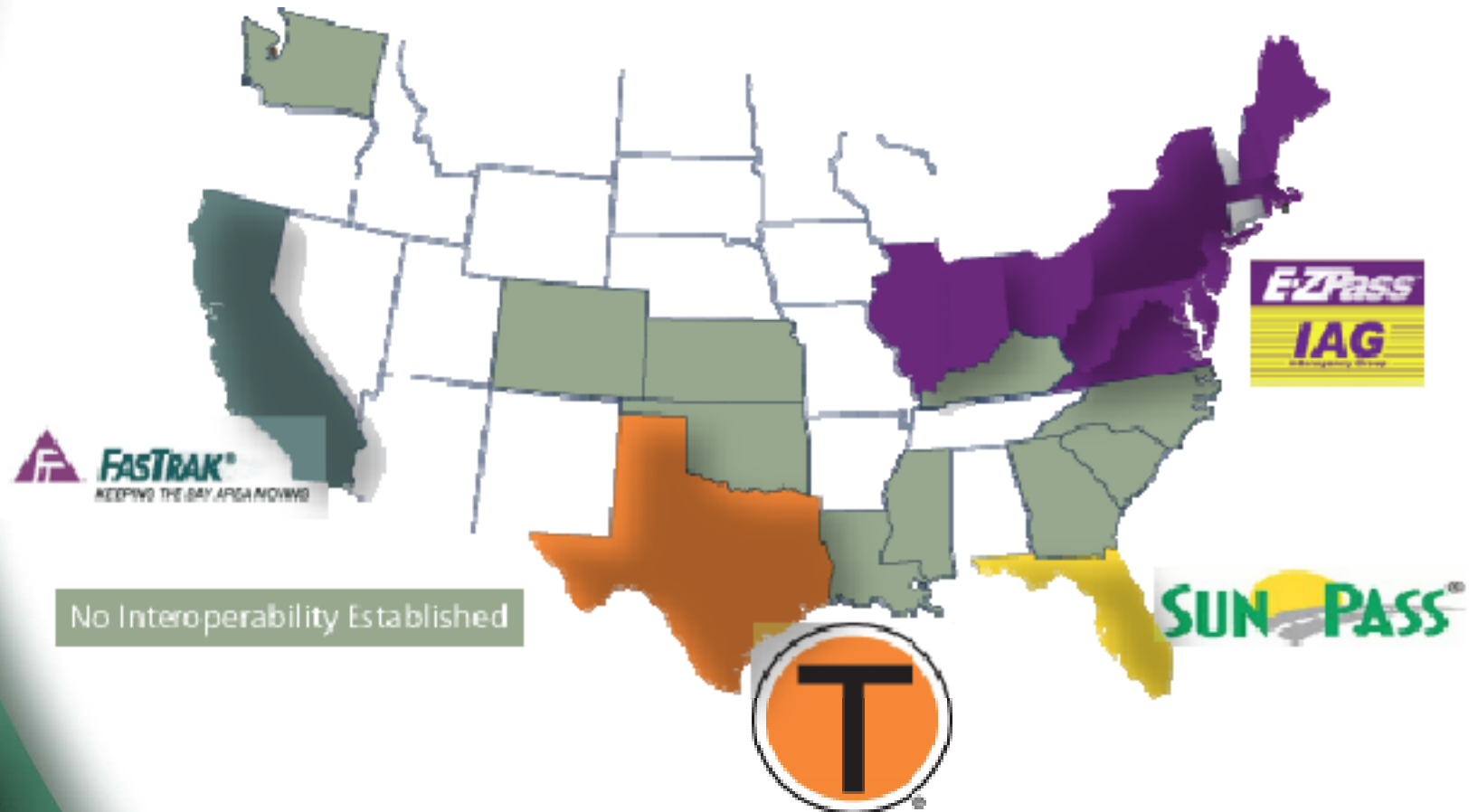
# Toll Interoperability Today

- **How and why interoperability started**
  - Customer convenience
  - Cashless systems
- **The four US regions that evolved**
  - Ez-Pass / IAG
  - Florida System
  - Texas System
  - California System
- **Successes and limitations**
  - Technology
  - Business Rules



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# Toll Interoperability Today



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# Toll Interoperability Today

- **Obstacles of national interoperability:**
  - Radio-Frequency Identification (RFID)
    - Proprietary & claimed patent protections
  - Business Arrangements / Rules
  - Cost of replacing / updating current systems
- **Catalyst of national interoperability:**
  - Customer need / convenience
  - Cashless is king
  - The bottom line
  - Future technology & innovation
  - All Electronic Tolling



# What is ATI

## Background:

- **August 2007** – IBTTA – Dallas, Texas
  - Initial discussion
  - 3 Agencies
- **December 2007** – Phone Conference
  - Set mission and goals
  - Formation of organization committees
  - 12 Agencies
- **February 2008** – Dallas, Texas
  - Formation of functional tasks given to committees
  - 16 Agencies
- **April 2008** – Orlando, Florida
  - Draft of Bylaws and Articles of Incorp. presented
  - 23 Agencies
- **July 2008** – Dallas, Texas
  - Bylaws and Articles of Incorporation adopted
  - 28 Agencies
- **September 2008** – Baltimore, MD
  - Board Elections
  - Established Interoperability Committee
- **February 2009** – Board Meeting
  - Final Draft of Phase I Spec
  - Initial Discussion of Phase II Spec
  - 21 Official Members
  - 20 Participating Agencies



# What is ATI?

- **Current Organization:**

- **Members:**

- More than 40 participating toll agencies representing 24 states & 3 countries
    - Experienced toll operations professionals
    - Vendors & consultants **not** permitted to join



Updated October 1, 2009

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# What is ATI?

**Chairman, JJ Eden**

**Treasurer, Grady Rankin**

**Board of Trustees**

**Agency Members**

David Machamer, OTA  
PJ Wilkins, DeIDOT  
Steve Andriuk, MDX  
Dave Kristick, E-470  
Steve Snider, HDBC  
John Breedlove, SRTA



# ATI Today

## *Current Approach & Initiatives*

- **Mission: Improve ability of toll agencies to identify vehicles traveling on toll facilities**
  - Allow customers the seamless use of toll facilities across state lines
  - Maximize state toll revenues and reduce toll collection and operations costs to States and agencies
  - Guide the toll industry towards technical interoperability utilizing future technology opportunities



# ATI Today

## *Current Approach & Initiatives*

- **Objectives:**
  - Expand North American interoperability *today* by focusing on data exchange through standard business rules, not new technology
  - Find practical solutions, fast implementation, by utilizing or interfacing with existing systems where possible
  - Improve service and minimize expense to customers



# ATI Today

## *Current Approach & Initiatives*

### ***Progress to Date:***

- **Field tests underway**
  - Launched IAG/Florida Pilot Program
  - Launched Texas/Oklahoma Pilot Program
  - Leading discussions with data processors (strong interest)
- **Facilitating talks with multi-State organizations to secure access to motor vehicle records**
  - Will allow toll agencies and states to identify vehicles without the use of transponders through Automatic License Plate Recognition
  - American Association of Motor Vehicle Administrators fully engaged
  - Will allow enforcement across state lines, not just for tolling



# ATI Today

## *Phase 1 & Phase 2*

- **Future vehicle ID technology in all vehicles:**
  - 5.9 GHz RFID in various devices, or
  - Satellite / GPS Tolling.
- **TODAY, vehicles have a common, if imperfect, identification technology – the license plate.**
- **License Plate Tolling is the “bridge” interoperability technology**



# ATI Today

## *Phase 1 & Phase 2*

- **Released Phase 1 Specification in June 2009**
  - Evaluated existing regional interoperability business rules & technical specifications
  - Interviewed existing regional interoperability groups:
    - Lessons learned / best practices
    - Unresolved issues
    - Plans to extend reciprocity to video tolling
  - Developed ATI's Technical Specification
- **Phase 1 Specification is complete and provides a 'common machine' language for processing plate-related data**



# ATI Today

## *Phase 1 & Phase 2*

- **To Complete Phase 1:**
  - Establish contracts to exchange plate-related data for toll facilities to locate a vehicle owner, operator, or registrant and directly “invoice” tolls / violations to them



# ATI Today

## *Phase 1 & Phase 2*

### *Commence Phase 2 Activities:*

- **Develop “Business Rules” to guide operation of interoperable toll systems**
- **Develop model contracts and state legislation to implement interoperability**
- **Engage in pilot programs between States and Agencies to assess business case(s)**
- **Identify and contract with partners to process data and transfer funds among agencies**



# ATI Tomorrow

## *Request for Information*

- **Need to develop the business plan and formulate the phase 2 system. But how?**
- **Past interoperability practices may be essential, may be impossible, definitely will require deliberation and debate.**
- **Ultimately, must be a good business proposition for toll operators.**
- **So how does ATI do this?**



# ATI Tomorrow

## *Request for Information*

- **Released Request for Information (RFI) in October 2009**
  - Expected respondents banks, cellular companies, processing companies, and toll industry
  - Responses due December 14, 2009



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# ATI Tomorrow

## *Request for Information*

- **ATI steering group developed the solicitation for information,**
- **NOT part of a formal procurement process,**
- **No proprietary information or pricing,**
- **No obligation to submit information in order to be allowed to propose on a system, products, or services later.**



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# ATI Tomorrow

## *Request for Information*

- **RFI Content:**
  - Introduction with some overall goals,
  - Description of current toll interoperability environment,
  - Discussion of interoperability with license plates,
  - A review of the RFI process: dates, content, contacts, so on.



# ***ATI Tomorrow...***

## Endless Possibilities & Opportunities

Mobile Commerce

Homeland Security & Border Crossing

Electronic Vehicle Registration

North America Tolls

Electronic

Infrastructure

Standard



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# ALLIANCE FOR TOLL INTEROPERABILITY

*A Practical Solution to Interoperability*

*For additional information or questions regarding the  
RFI, please contact **J.R. Fenske** at  
**[jr.fenske@tollinterop.org](mailto:jr.fenske@tollinterop.org) or (919) 510-4373***

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