



UNITED STATES
DEPARTMENT OF TRANSPORTATION

Next Generation ITS Transit Technologies – USDOT Perspective

Yehuda Gross

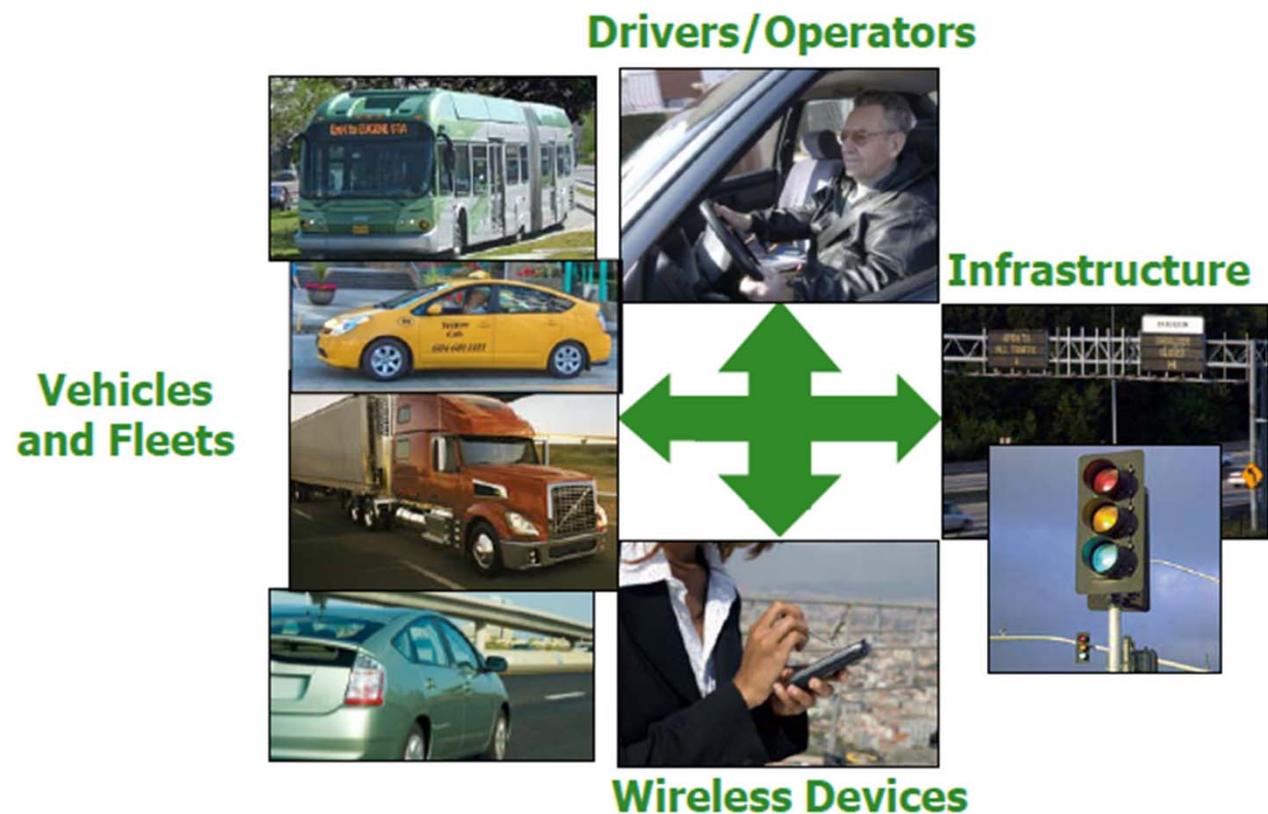
USDOT ITS Joint Program Office

2011 National Rural ITS Conference

August 2011

Next Generation Surface Transportation

Intermodal + Connectivity



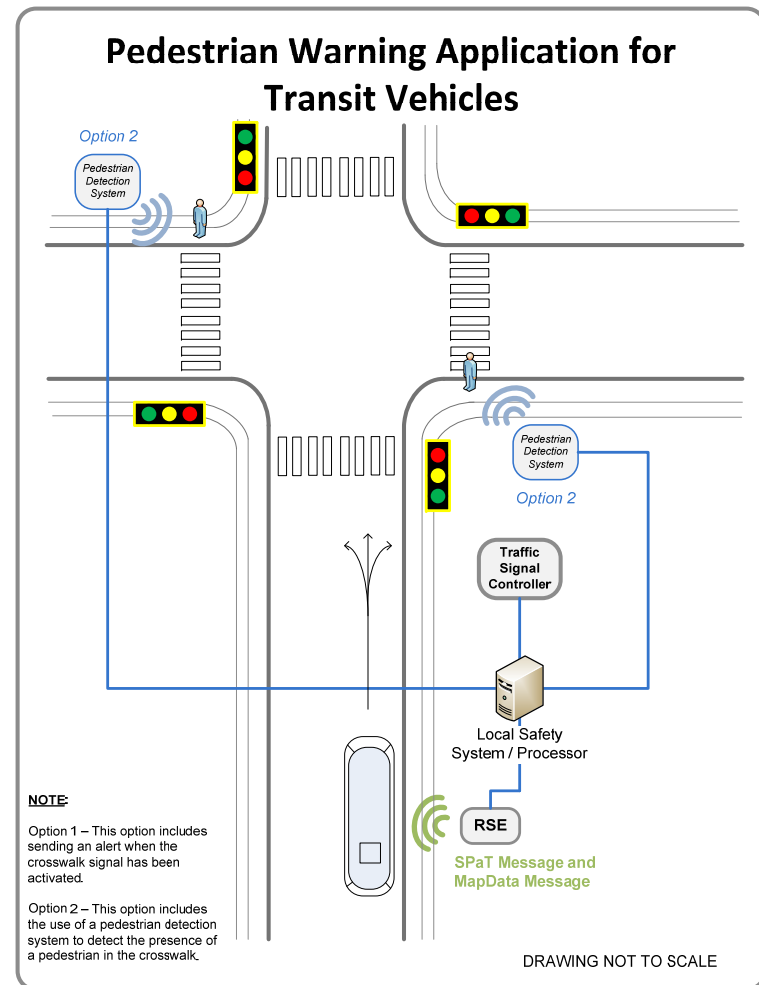
Safety is #1 Priority

One Tragedy Too Many...

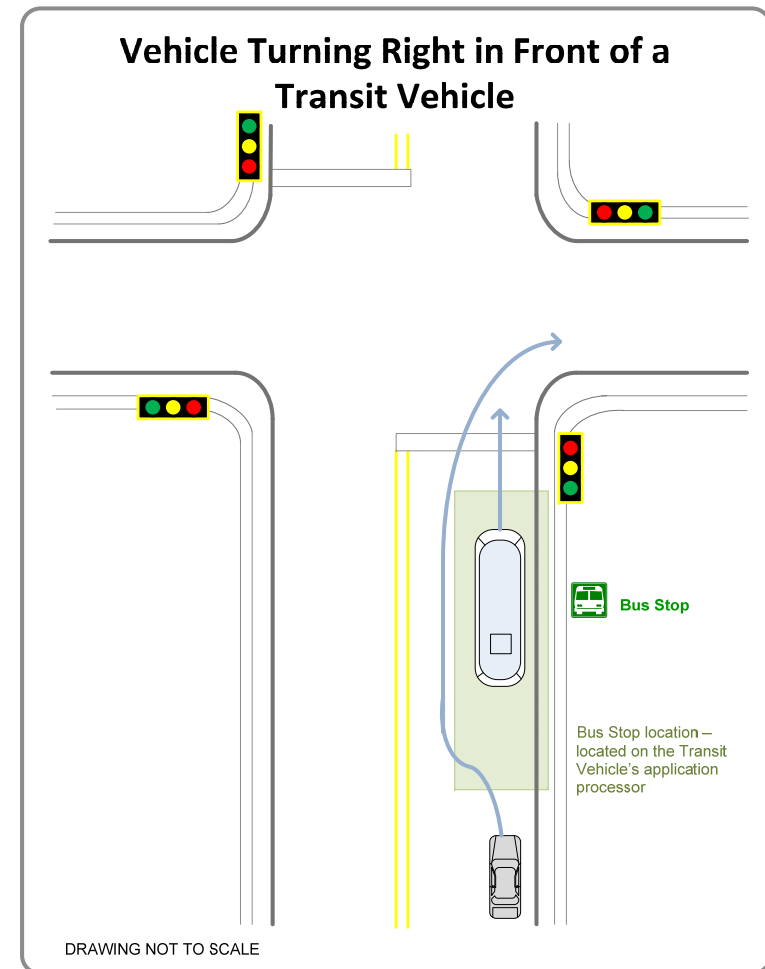
On November 4, 2010, a city bus struck two young brothers, 10 and 12 years old at around 7pm. The pair was crossing a street when the bus turned left, striking the two children in the crosswalk. The younger brother died from injuries.



Transit Safety Scenario #1 – Pedestrians vs. Turning Buses



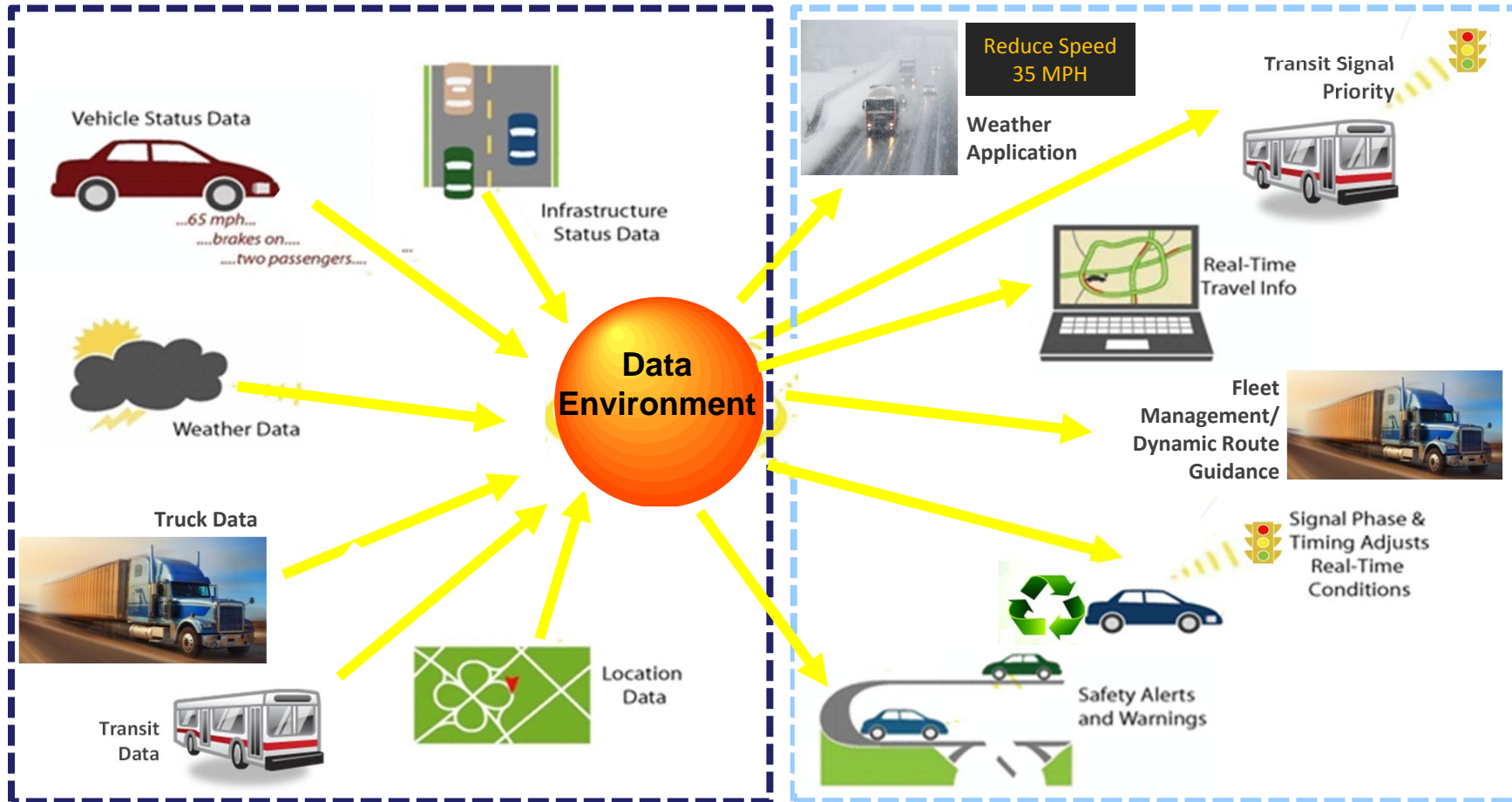
Transit Safety Scenario #2 – Right-Turn In Front Crashes



Greater Mobility through Connectivity

Real-time Data Capture and Management

Dynamic Mobility Applications



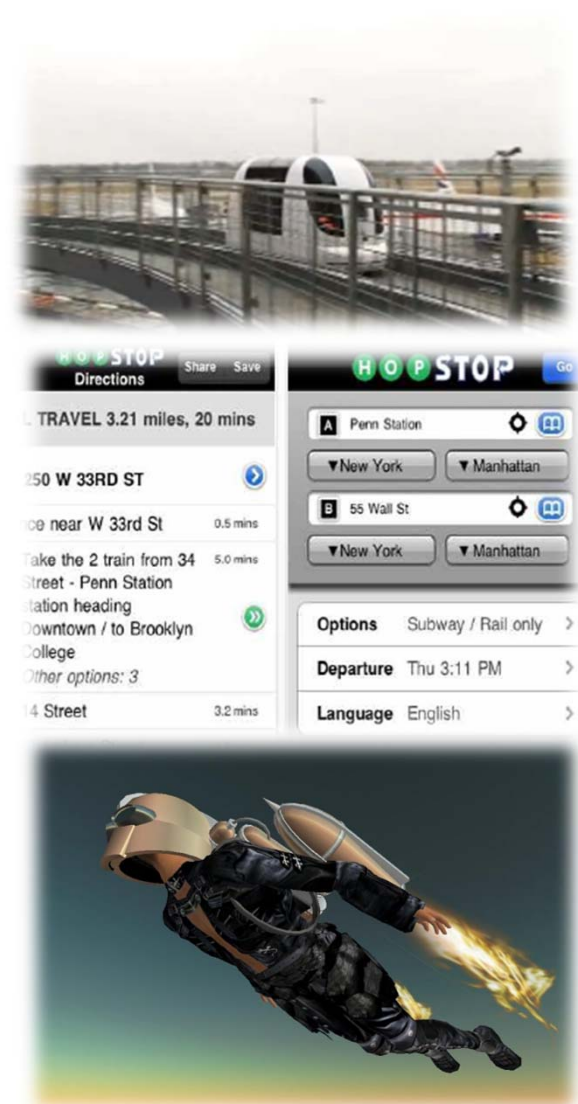
Sample Short-Term Mobility Applications

- Dynamic Transit Operations
- Connection Protection
- Dynamic Ridesharing
- Smart Evacuation

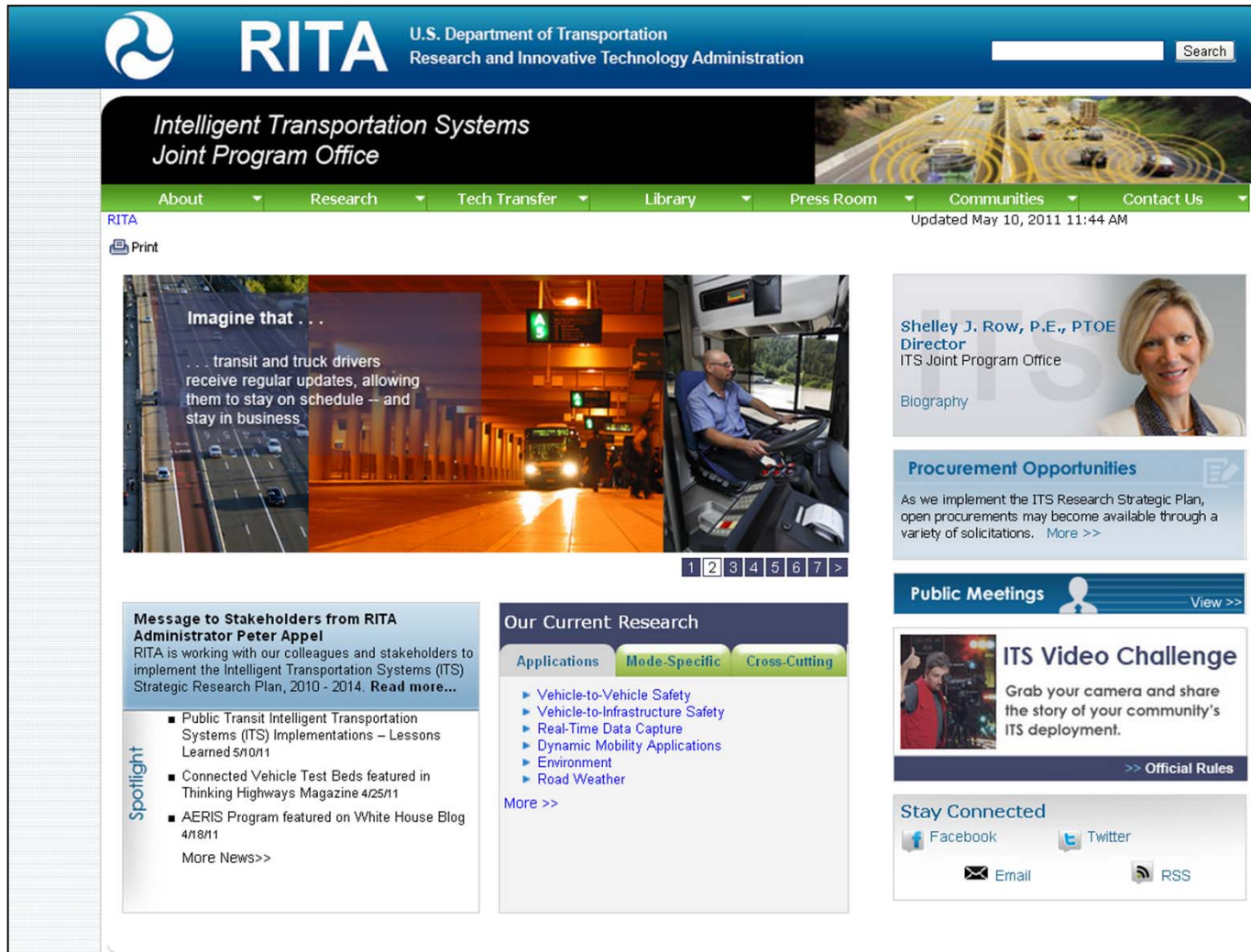


Longer-Term Visions

- Holistic Journey
 - “first mile” & “last mile”
 - all modes, including air travel, all the time
- Integrated Transportation Intelligence
 - real-time and archived info
 - integration with common tools, such as calendars
- From V2V to J2J Communications
 - jetpacks



For More Information.....



The screenshot shows the homepage of the Research and Innovative Technology Administration (RITA), part of the U.S. Department of Transportation. The header features the RITA logo and name, along with a search bar. The main navigation bar includes links for About, Research, Tech Transfer, Library, Press Room, Communities, and Contact Us. A secondary navigation bar lists various topics like Intelligent Transportation Systems, Public Transit, and Freight. The main content area is divided into several sections: a large banner for Intelligent Transportation Systems with a video player, a 'Message to Stakeholders from RITA Administrator Peter Appel' section, a 'Spotlight' section featuring news items, a 'Our Current Research' section with a list of research topics, a 'Public Meetings' section, and an 'ITS Video Challenge' section. The footer includes social media links for Facebook, Twitter, Email, and RSS.

RITA U.S. Department of Transportation
Research and Innovative Technology Administration

Intelligent Transportation Systems Joint Program Office

Updated May 10, 2011 11:44 AM

Imagine that . . .
... transit and truck drivers receive regular updates, allowing them to stay on schedule -- and stay in business.

Message to Stakeholders from RITA Administrator Peter Appel
RITA is working with our colleagues and stakeholders to implement the Intelligent Transportation Systems (ITS) Strategic Research Plan, 2010 - 2014. [Read more...](#)

Spotlight

- Public Transit Intelligent Transportation Systems (ITS) Implementations – Lessons Learned 5/10/11
- Connected Vehicle Test Beds featured in Thinking Highways Magazine 4/25/11
- AERIS Program featured on White House Blog 4/18/11

[More News>>](#)

Our Current Research

[Applications](#) [Mode-Specific](#) [Cross-Cutting](#)

- Vehicle-to-Vehicle Safety
- Vehicle-to-Infrastructure Safety
- Real-Time Data Capture
- Dynamic Mobility Applications
- Environment
- Road Weather

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Public Meetings [View >>](#)

ITS Video Challenge
Grab your camera and share the story of your community's ITS deployment.
[>> Official Rules](#)

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