

USDOT ITS Joint Program Office

Electronic Payment Systems
from USDOT Perspective

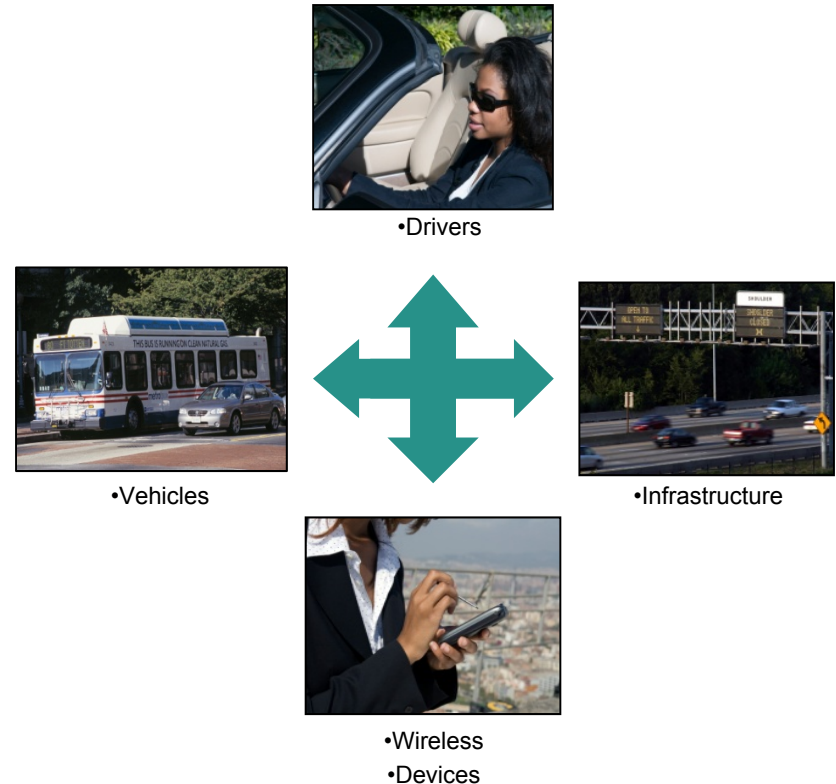
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Outline

- IntelliDriveSM Mobility and e-Payment
- Why Electronic Payment
- Selected Electronic Payment Systems (EPS) deployments in the U.S.
- ITS Standards Activities related to Electronic Payment
- Multi-modal Integrated Payment Systems (MMIPS) exploratory initiative

What is IntelliDriveSM?

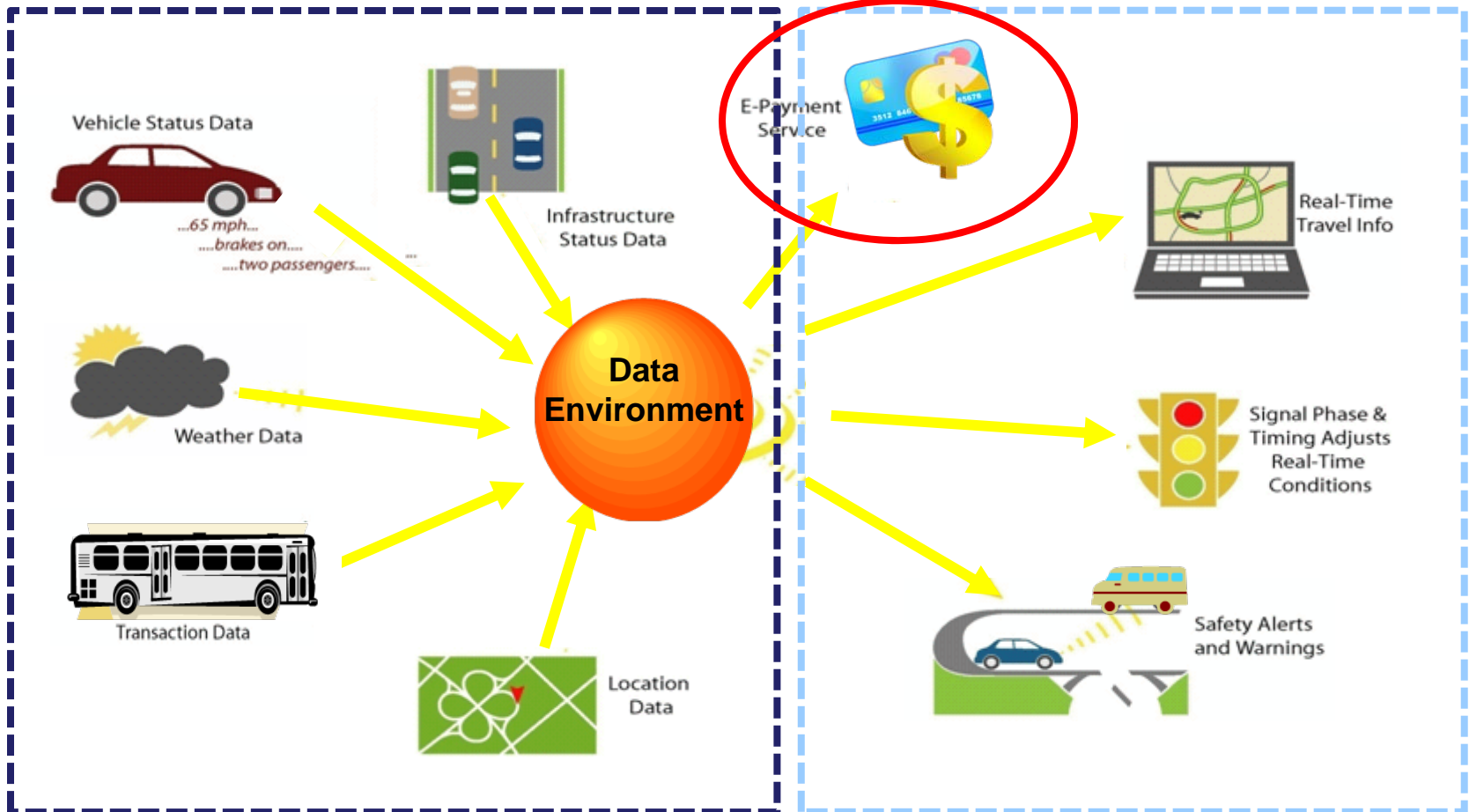
- IntelliDriveSM is a suite of technologies and applications that use wireless communications to provide connectivity:
 - With and between vehicles of all types
 - Between vehicles and roadway infrastructure
 - Among vehicles, infrastructure and wireless consumer devices
- Safety, Mobility and Environment Implications



IntelliDriveSM Mobility and E-Payment

•Data Capture and Management (DCM)

•Dynamic Mobility Applications (DMA)



Why Electronic Payment

- Travelers
 - User convenience and satisfaction (cashless travel)
 - Receive all eligible discount/promotion automatically
- Transportation Service Providers
 - Reduced dwell time (operational efficiency)
 - Reliable operational data for decision support
 - Reduced fraud and cost for cash handling
 - Potential for additional revenue (such as through advertisement)



Why Electronic Payment (cont.)

- Governments
 - Integrated transportation environment (transportation management and environmental benefits)
 - Flexible adjustment and implementation of fare policy (a key difference from credit cards)
- Private Businesses (e-purse)
 - One more way to encourage consumer spending
 - Quicker transaction (shorter customer line)



EPS Deployments in the U.S.

- Selected Electronic Payment Systems (EPS) deployments in the U.S.
 - Smart Passport – Ventura County California
 - SmartTrip – Washington DC metro
 - TransLink – San Francisco metro
 - EZ Transit Pass – Los Angeles metro
- Contactless Credit Card Payment
 - Utah Transit Authority
 - New York City Transit (planned)



ITS Standards

- ITS Standards Activities related to Electronic Payment
 - Transit Communication Interface Profiles (TCIP)
 - Universal Transit Fare System (UTFS) Task Force
 - Contactless Fare Media System (CFMS) Standard
 - ISO TC204 WG8 (Intelligent Transportation Systems – Public Transport)



Multi-modal Integrated Payment Systems (MMIPS)

- An Exploratory Initiative in the 2010 – 2014 ITS Strategic Research Plan
- USDOT Role
 - Facilitate government and industry dialogues (such as USDOT, FCC, transportation, financial, telecommunications, and commercial/retail industries)
 - With industry participation, conduct an exploratory study, if needed
- Scope of Exploratory Study
 - State of the practice
 - Trend of technologies
 - International practices and lessons learned
 - Business case analysis



Questions and Comments

Yehuda Gross

ITS Transit Program Manager

USDOT

202-366-1988

Yehuda.gross@dot.gov