



Introduction

BIFA Overview

Architecture Scope

Needs/Problems

Architecture Inventory

**Architecture Services**

Next Steps

# Architecture Services

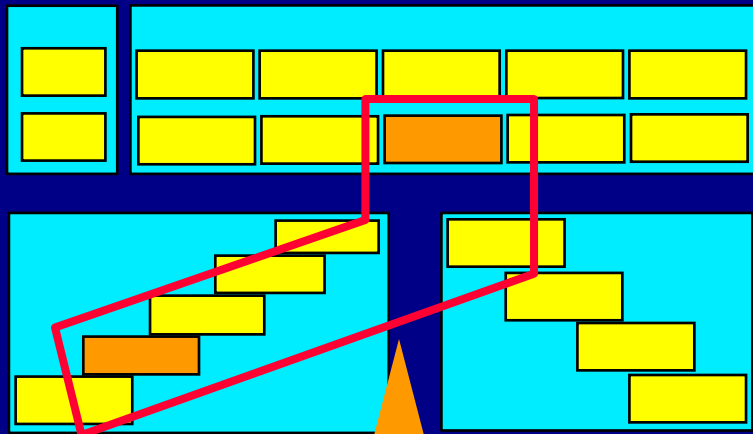
## BIFA Workshop #1

# Transportation *Services*

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- **The systems and capabilities you put in place to meet transportation needs**
- **These can be described by:  
Market Packages**

# Market Packages

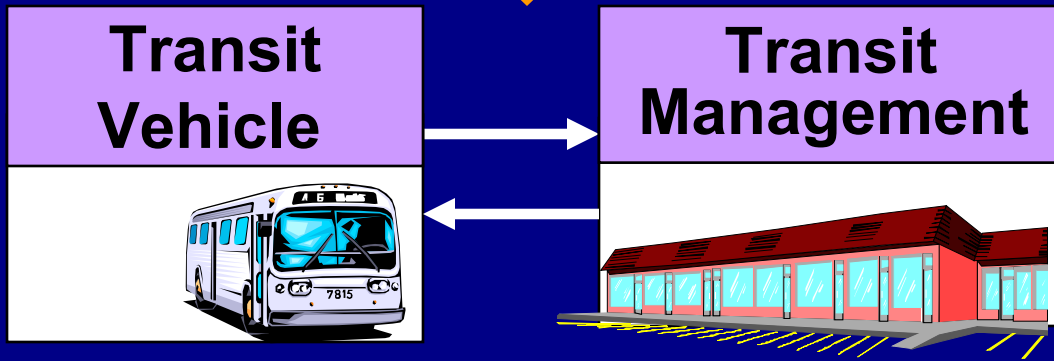


## National Architectures

An ITS framework

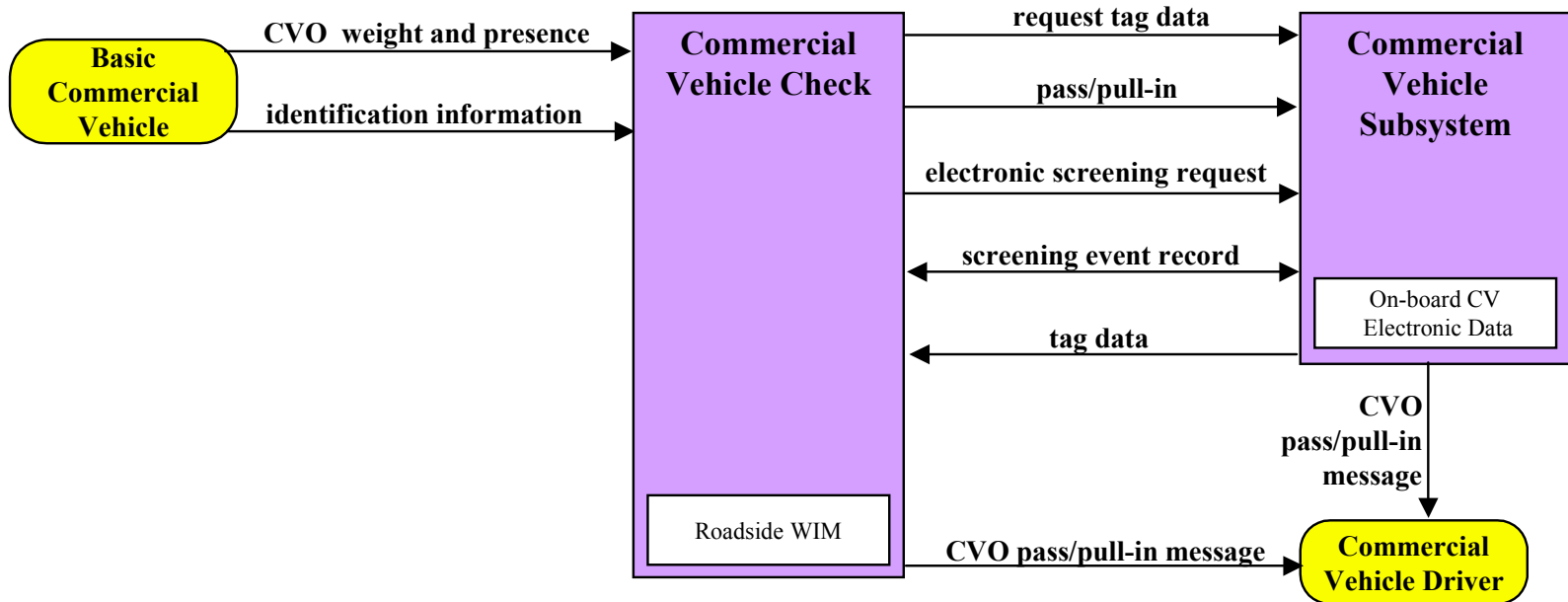
## Market Packages

Contain pieces of the National ITS Architecture that provide a particular transportation service



# Example: CVO06 - Weigh-in Motion

CVO06 - Weigh-In-Motion



# BIFA Market Packages

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- **Preliminary selections made based on BIFA processes**



# Policy/Planning

Archived Data



## 5. Policy/Planning

Processes	Services	Issues/Extensions
<ul style="list-style-type: none"> <li>• Transportation Operations</li> <li>• Transportation Planning</li> <li>• Trade Policy</li> <li>• Inspection and Enforcement</li> <li>• POE facility analysis</li> <li>• Regulatory and legislative policy analysis</li> <li>• Modeling (using archived statistics)</li> </ul>	<p style="text-align: center;"><b><u>Archived Data</u></b></p> <ul style="list-style-type: none"> <li>• ITS Data Mart</li> <li>• ITS Data Warehouse</li> <li>• ITS Virtual Data Warehouse</li> </ul>	<p><b><u>New Users</u></b></p> <ul style="list-style-type: none"> <li>• Economic Development Interests</li> </ul> <p><b><u>New Data</u></b></p> <ul style="list-style-type: none"> <li>• Immigration Info               <ul style="list-style-type: none"> <li>• e.g., Traveler Nationality</li> </ul> </li> <li>• Import Info               <ul style="list-style-type: none"> <li>• e.g., Commodity type</li> </ul> </li> </ul>



# Conveyance Safety and Security

CVO



## 4. Conveyance Safety and Security

Processes	Services	Issues/Extensions
<ul style="list-style-type: none"> <li>• Safety inspections</li> <li>• Weights/ Dimensions enforcement</li> <li>• Credentials</li> <li>• Permits/ Taxes/ Insurance</li> <li>• Supply chain security</li> <li>• Security</li> </ul>	<p><u>Commercial Vehicle Operations</u></p> <ul style="list-style-type: none"> <li>• Electronic Clearance</li> <li>• CV Administrative Processes</li> <li>• Weigh-In-Motion</li> <li>• Roadside CVO Safety</li> <li>• On-Board CVO and Freight Safety&amp;Security</li> <li>• Roadside HAZMAT Security Detection and Mitigation</li> <li>• CV Driver Security Authentication</li> <li>• Freight Assignment Tracking</li> </ul>	



# Traffic Management and Operations



## 3. Traffic Management and Operations


Processes	Services	Issues/Extensions
<ul style="list-style-type: none"> <li>• Traffic monitoring</li> <li>• Incident response</li> <li>• Traveler information</li> <li>• Inspection-lane opening and closing</li> <li>• Traffic sorting for primary inspection, including dedicated lanes (NEXUS/FAST)</li> <li>• Tolling (Bridge, Tunnel, Highway)</li> </ul>	<p><b><u>Traffic Management</u></b></p> <ul style="list-style-type: none"> <li>• Network Surveillance</li> <li>• Surface Street Control</li> <li>• Freeway Control</li> <li>• Traffic Incident Management System</li> <li>• Electronic Toll Collection</li> <li>• Roadway Closure Management</li> </ul> <p><b><u>Traveler Information</u></b></p> <ul style="list-style-type: none"> <li>• Broadcast Traveler Information</li> <li>• Interactive Traveler Information</li> </ul> <p><b><u>Commercial Vehicle Operations</u></b></p> <ul style="list-style-type: none"> <li>• HAZMAT Management</li> </ul>	<p><b><u>New Data</u></b></p> <ul style="list-style-type: none"> <li>• Coordination between border crossing and traffic management               <ul style="list-style-type: none"> <li>• Traffic sorting/inspection lane mgmt</li> </ul> </li> </ul>



# Entry (Preclearance)



2. Entry  
(Pre-clearance)


Processes	Services	Issues/Extensions
<ul style="list-style-type: none"> <li>• People</li> <li>• Cargo</li> <li>• Outbound clearances (both inspection and “back office”)</li> <li>• HazMat pre-notification</li> </ul>	<p style="text-align: center;"><b><u>Commercial Vehicle Operations</u></b></p> <ul style="list-style-type: none"> <li>• International Border Clearance</li> <li>• HAZMAT Management</li> </ul>	<p><b><u>New Services</u></b></p> <ul style="list-style-type: none"> <li>• Immigration (beyond CV Drivers)</li> <li>• Customs/Inspection (Limited)</li> </ul> <p><b><u>New Data</u></b></p> <ul style="list-style-type: none"> <li>• Advanced cargo notification requirements?</li> </ul> <p style="text-align: center;"><b>BIFA-Specific</b></p> <div style="text-align: center;">  </div>



# Inspection



1. Inspection

Processes	Services	Issues/Extensions
<ul style="list-style-type: none"> <li>• People/immigration</li> <li>• Goods</li> <li>• Conveyances</li> </ul>	<p><b><u>Commercial Vehicle Operations</u></b></p> <ul style="list-style-type: none"> <li>• International Border Clearance</li> <li>• HAZMAT Management</li> </ul>	<p><b><u>New Services</u></b></p> <ul style="list-style-type: none"> <li>• Immigration (beyond CV Drivers)</li> <li>• Customs/Inspection (Limited)</li> </ul> <p><b>BIFA-Specific</b></p> 





# Post-Clearance



+1. Post-Clearance

Processes	Services	Issues/Extensions
<ul style="list-style-type: none"><li>• Safety Inspection</li></ul>	<p><u>Commercial Vehicle Operations</u></p> <ul style="list-style-type: none"><li>• Roadside CVO Safety</li><li>• On-Board CVO and Freight Safety&amp;Security</li></ul>	

# Market Package Review

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- **For each potential market package, determine:**
  - **Status (Existing, Planned or Not Planned)**
  - **Associated Inventory Elements**
  - **Interfaces that apply to BIFA**
- **Define custom market package(s) for BIFA-specific services**