The Freight Shuttle System:

A Private Sector Freight Transportation Solution

Briefing for:

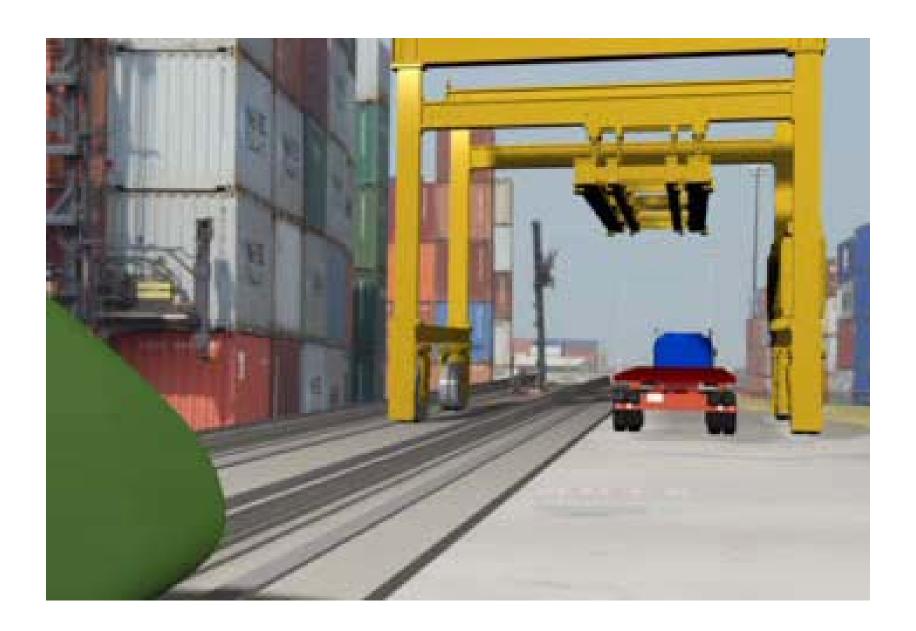
U.S.-México Border Mayors Association

El Paso, Texas, August 16, 2011













The Freight Shuttle System

- A <u>new approach</u> to regional Intermodal & cross-border freight transport
 - Concept developed over the last 7 years at the Texas Transportation Institute (TTI)
 - Based on known and understood technology
 - Effectively addresses <u>both</u> community and commercial needs

Combines technology and operational strategies to provide freight transportation in an environmentally responsible manner.



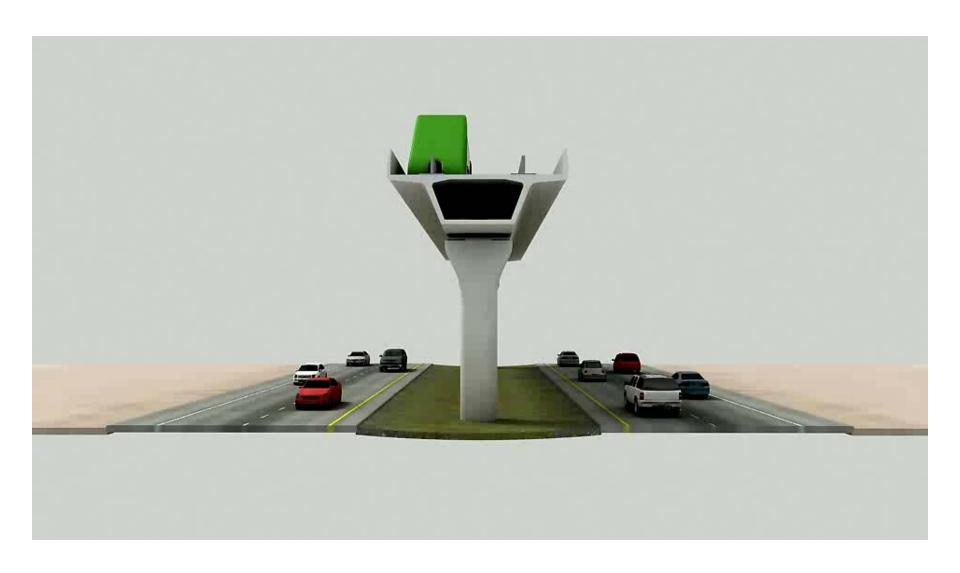
The Freight Shuttle System

Automated Freight Shuttles

- Hybrid system; uses the best features of truck and rail
- Single-container transports
- Linear induction motors (LIMs)
- Dedicated, small footprint guide way
- Fully elevated on existing highway ROW

24/7 operations offer an option that may overcome throughput, capacity, and impact issues affecting freight transportation

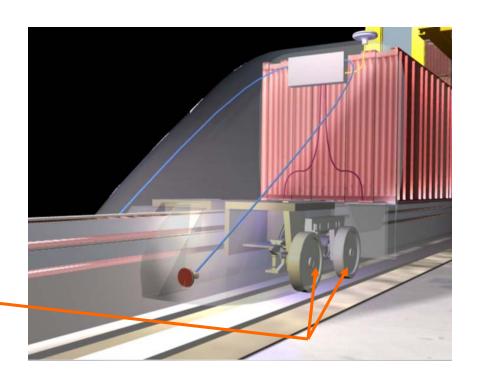




The Freight Shuttle System

High reliability

- Steel-on-steel for low rolling friction/low cost
- LIM linear motion from vehicle-guideway interaction
 - Small number of moving parts
- Automated control system







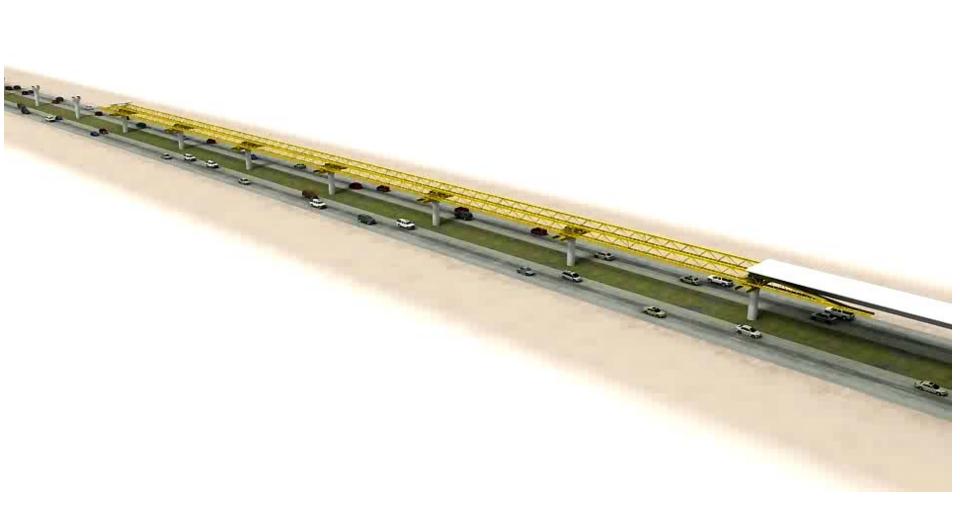
Texas Department of Transportation

- April 8th TxDOT issued a RFP for "Low-carbon Emitting Freight Transportation Facilities"
 - The stated intent: lease existing highway rights of way for alternative freight transportation technologies
 - No public funds will be expended/no public costs incurred
 - Designed to monetize "under-performing" assets through leasing arrangements
 - Expecting D-B-O-M proposals that are privately funded







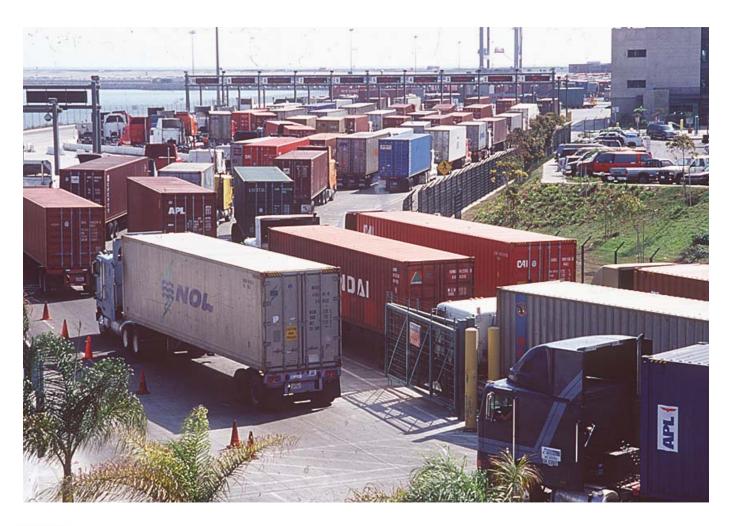


III. Freight Shuttle System Business Model

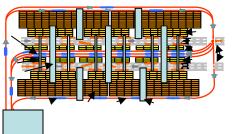




Port of Entry Security







El Paso Intermodal Terminal

Inspect-in-motion

2009 DOE – funded study assessing the Feasibility of bi-national FS operations Over a secure, elevated guideway with pre-Clearance in secure facilities

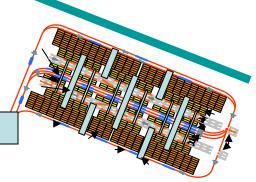


El Paso



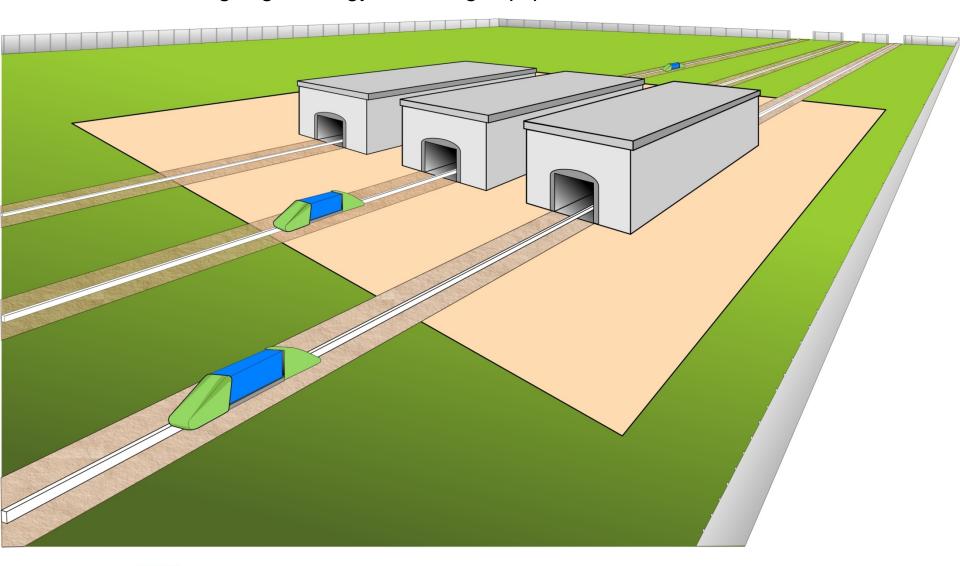
Ciudad Juarez

Inspect-in-motion





Parallel Scanning Stations Allow for 100% Inspection Using High-Energy Scanning Equipment





Overview of Freight Shuttle International

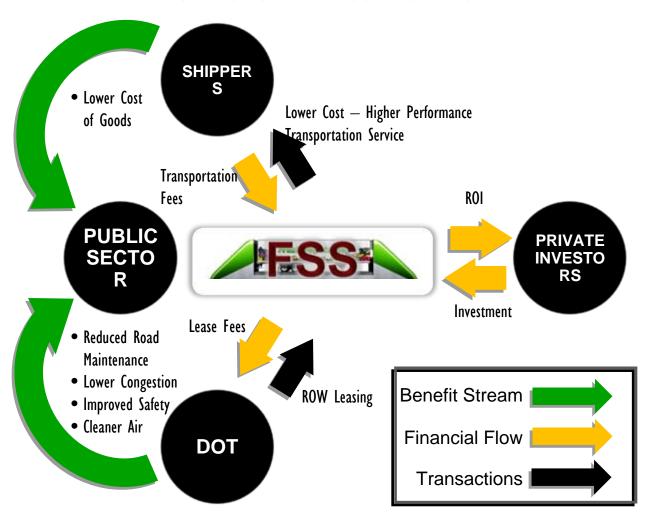
- FSI was formed to **commercialize** the Freight Shuttle technology developed by the Texas Transportation Institute
- The Freight Shuttle System is a **hybrid** mode of freight transportation that can move freight over international borders on a secure, grade-separated, electric-powered guideway
- The Freight Shuttle System will move freight in a more **secure** and **sustainable** manner than is currently possible



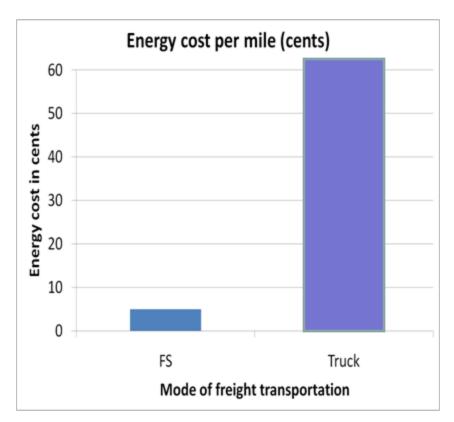


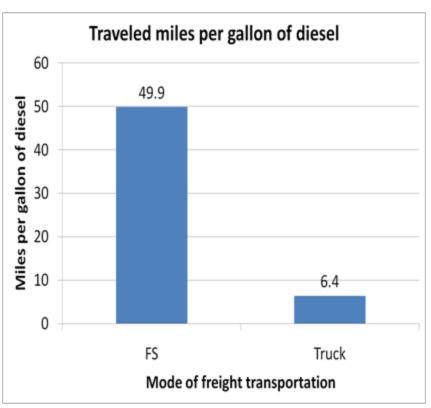


FREIGHT SHUTTLE BUSINESS MODEL



Improving Energy Efficiency





Based on BTU Equivalency

