FHWA Corridors and Gateway Concept

presented to

Joint Annual Freight Meeting

presented by

Cambridge Sytematics, Inc.
Texas Transportation Institute.





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Project Objective

Identify and document multimodal gateway and corridor needs, trends and opportunities to ensure U.S. and North American competitiveness for consideration in the development of future national infrastructure plans.



Conducting Research on Corridors and Gateway Concept

Stakeholder Input

Research on Driving Trends

International Literature Review and Comparisons



Input from Public/Academic Forum

Major Trends Impacting Future Needs

Logistics

- Changes in sourcing patterns and distribution networks
- Energy availability and costs

Economic

- Socio-demographic changes
- Global trade and geopolitical climate

Policy

- Regulations trucking and security
- Energy policy

Infrastructure

- Passenger/freight interaction
- Increase use of intermodal
- Mode specific constraints impact whole system



Input from Public/Academic Forum

Key Considerations for Developing a National Plan

Action oriented plan

Quantification of performance gains

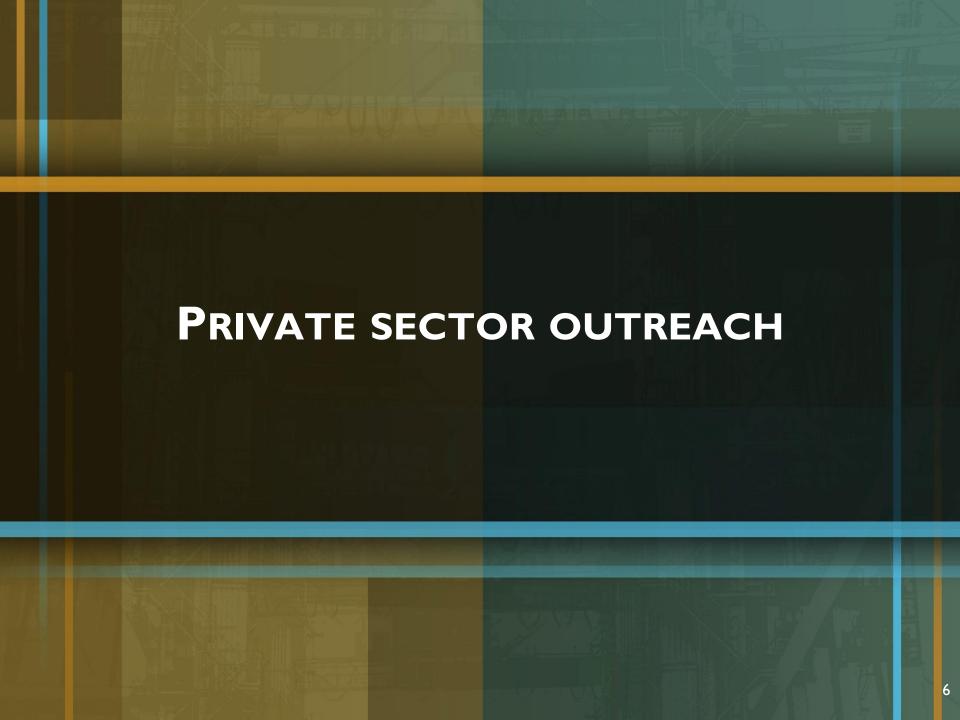
Nationally organized, locally executed

Focus on fewer, nationally significant projects

True multimodal approach

Trade-off identification and mitigation





Summary of Outreach Events

Where

- Newark Indianapolis
- Houston Anaheim

When

June to November 2012

Who

- Carriers Shippers
- Facility operators



Outreach Participants

Newark	Indianapolis	Houston	Anaheim	
Canadian Pacific	Koch Fertilizer, LLC	BNSF	Port of Tacoma	
New Jersey DOT	TPG Marine	Greater Houston Port Bureau	Hawks Logistics, Inc.	
CSXT	Indiana DOT	Port of Houston Authority	Container Port Group	
PANYNJ	Purdue University	Air Liquide	ABL Logistics - 3PL	
NYC DOT	Indianapolis Airport Authority	Lyondell Basell Industries	Port of Long Beach	
Norfolk Southern	TTX Company	M&G Polymers	Container Ports Group	
Oakland Transportation	MD Logistics	Couch Lines	Plum Creek Marketing	
A&P NY A Railway	Norgren	HR Green	True Value Company	
DVRPC	Canadian National Railway	Weatherford International	Quality Transportation Services	
SJPC/GCIA	Indianapolis MPO	Union Pacific	ABF Freight	
East of the Hudson Development	Conexus Indiana	Port of Galveston	Presto Geosystems	
HCIA	In tegra ted Distribution Services, Inc.	Gulf Coast Rail District	Bison Transport	
NJIPA		Transport Handling Specialist	SNX Advance	
		Railsery Inc	MOL America	
		Mediterranean Shipping	Port of Virginia	
			Florida East Coast Railway	
			NS Thoroughbred Direct Intermodal	
			Alliance Shippers	
			US Transportation Command	
			World Trade 100	
			Port of San Diego	
			Port of San Diego	
			RailPro	

Four Areas of Input

- What are current conditions and needs?
- What are future needs given current trends?
- What are future needs given alternative futures?
 - » Future Freight Flows scenarios
 - » No brainers, no regret, contingent
- Federal role and key considerations



Current Conditions and Needs

- Broadly examine corridor investments and emphasize non-traditional infrastructure such as specialized labor and communication technologies
- Take into account the entire supply chain systemwide from point of origin to point of destination
- Follow private money

- Tackle existing bottlenecks and urban area congestion
- Emphasize importance of cross border gateways, border operations, and waterways
- Address policy disconnects between metropolitan, state, and national organizations
- Redundancy



Future Needs Based on Current Trends

- Need to focus on ports national but with emphasis on east coast
- Resurgence of Mexico
- Increasing need for additional rail investment – passenger vs. freight
- Address bottlenecks at last mile
- Labor shortage truck drivers

- Harmonization of polices across different modes
- Restrictions on truck size and weight
- Growing near-shoring activities
- Existing transportation policies such as Jones Act inhibiting U.S. competiveness
- Align public private needs and policy predictability



Four Future Freight Flow Scenarios











Key Ideas



Fast paced, Interconnected, Chaotic, Minimal Government intervention, Commercial



Heavy handed, Regulated, Slower pace, Feel of 1970's PBS broadcast, Strong government



Self-Reliance, Merging cultures, Trading Blocs, Re-domestication of manufacturing



Mfg. clusters, Make close to consumption, Dispersed demographics, Nuclear renaissance



Differences Between Scenarios





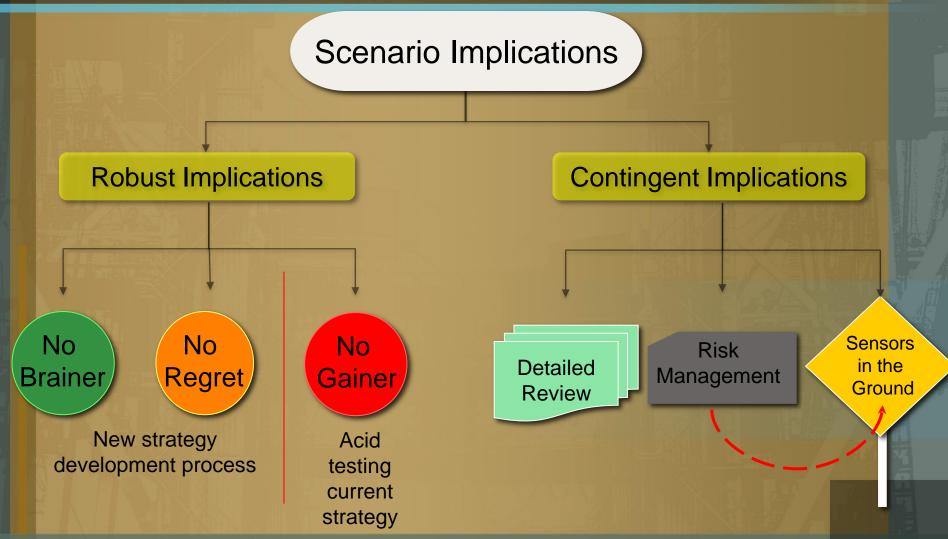




Global Trade	Low	High	High	Low (physical)
Resource Availability	Low	Low	High	High
Energy Cost Level	High	High	Low	Low
Energy Cost Variability	Low	High	High	Low
Level of Environmental Awareness	Same as Today	High	Low	High
Population Dispersion	Growth in SW	Growth in Biggest Cities	Growth in Biggest Cities	Rise in Mid Tiered Cities
Energy Sources	Majority NA	Mix Foreign & Domestic	Majority Foreign	Majority Domestic
Level of Migration	High w/in Bloc, Low between	High	High	Low
Migration Policy	High	High	Low	Low
Currency Fluctuations	Low w/in Bloc	High	Moderate	Low

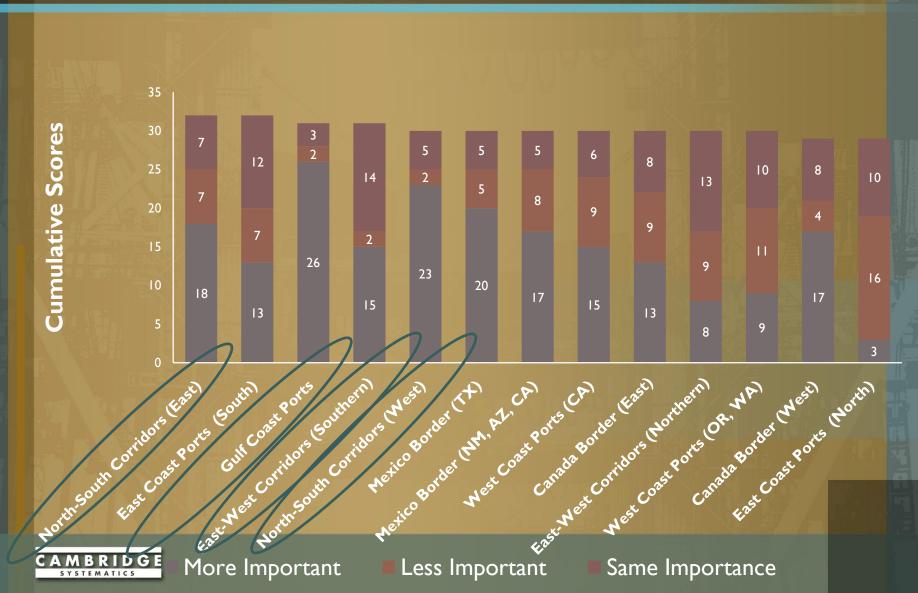


Cross-Scenario Comparisons





Cross Scenario Comparisons



Cross-Scenario Comparisons

No brainers

- Gulf Coast ports
- North-south corridors
- Southeastern border crossings

No regrets

- Southeastern ports and east-west corridors
- Northwestern border crossings
- Southwestern border crossings

Contingent

- Northern east-west corridors
- Northeastern Coast ports and land borders
- West Coast ports



Federal Role

- Federal role importance is divided among the participants at each event
- Overarching sentiment of need for policies to harmonize across modes



NATIONAL GATEWAY AND CORRIDOR CONCEPT DEVELOPMENT

International Gateways and Corridors Plans

Canada

Mexico

Europe



Canada- The National Gateway Plan



Building Canada Infrastructure Plan (2007-2014)

National Policy Framework for Gateway and Corridor Strategies (2007)

Asia-Pacific Gateway and Corridor Initiative (2006)

The Ontario-Quebec Continental Gateway Strategy (Under Development) The Atlantic Gateway and Trade Corridor Strategy (2010)



Mexico- Multimodal Freight Corridor Masterplan





European Trans European Transport Network (TEN-T)

- 83 main European ports with rail and road links
- 37 key airports with rail connections into major cities
- 15,000 km of railway line upgraded to high speed
- 35 cross border projects to reduce bottlenecks





Private Sector Input on Key Considerations

Most Important Considerations

- Volume
- Export chains
- Energy production/distribution

Important Considerations

- Agriculture production/distribution
- Key import and export commodities
- Emerging trade lanes and partners
- Existing trade lanes and partners

Neutral

- Redundancy in system
- Value of freight



Project Outcomes

- Private sector input on
 - » Current needs
 - » Future needs based on alternative futures
 - » Key considerations for evaluation of national priorities
- Insights on potential and private sector differences
- Building block for development of national gateway and corridor plan



Next Steps

Draft report
April 2013

Final report
May 2013

