Partnering Infrastructure Development to Meet Hemispheric Growth

AAPA Port Commissioners Seminar







Agenda

- I. Objectives
- II. Hemispheric Growth Prospects
- III. Modal Challenges
- IV. Partnering Solutions-the Key to a Systemic Solution
- V. Implications for the Port Industry





I. Objectives

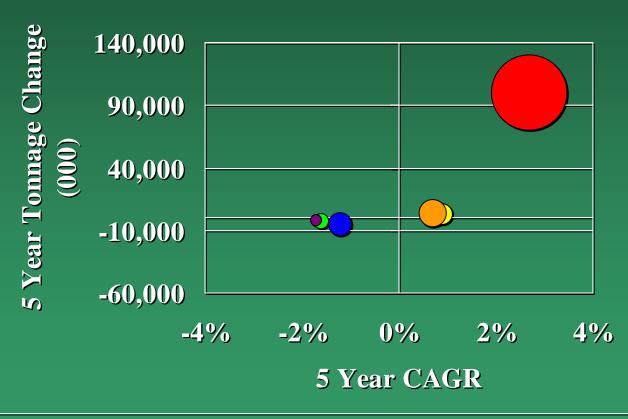
- Review the Growth Prospects
- Define the Challenge
- Outline Some Options
- Discuss Some Specifics





Hemispheric bulk cargo performance has been mixed over the past five years





- United States
- Canada
- Mexico
- Caribbean Basin
- Central America
- South America

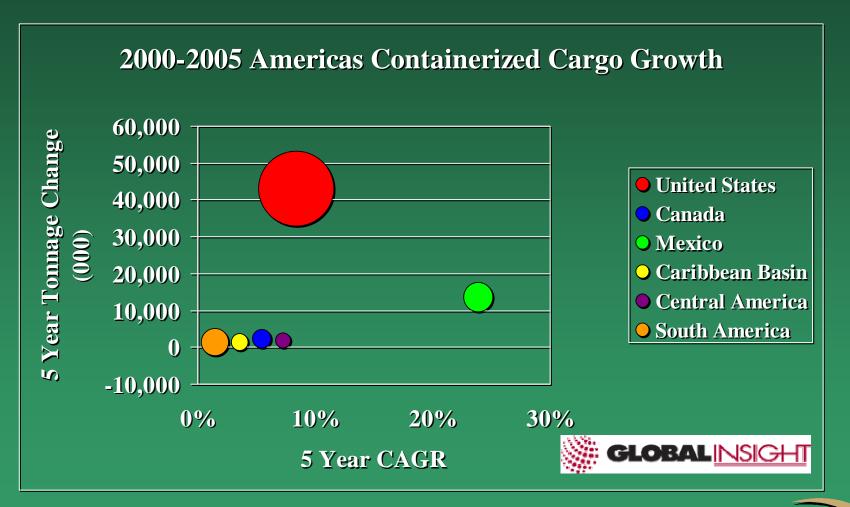




Note: Bubble size indicates 2005 tonnage



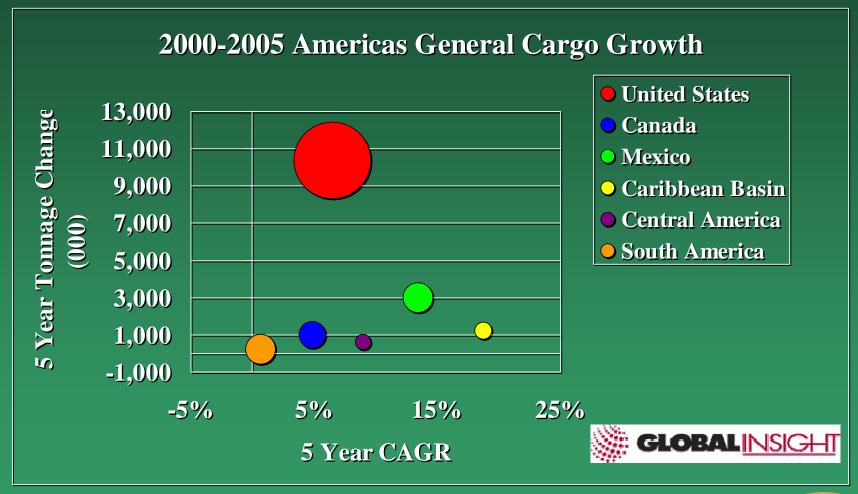
Mexico has lead the way in terms of growth in hemispheric container trade





Norbridge

While almost all regions have contributed to overall growth in breakbulk cargoes





Note: Bubble size indicates 2005 tonnage



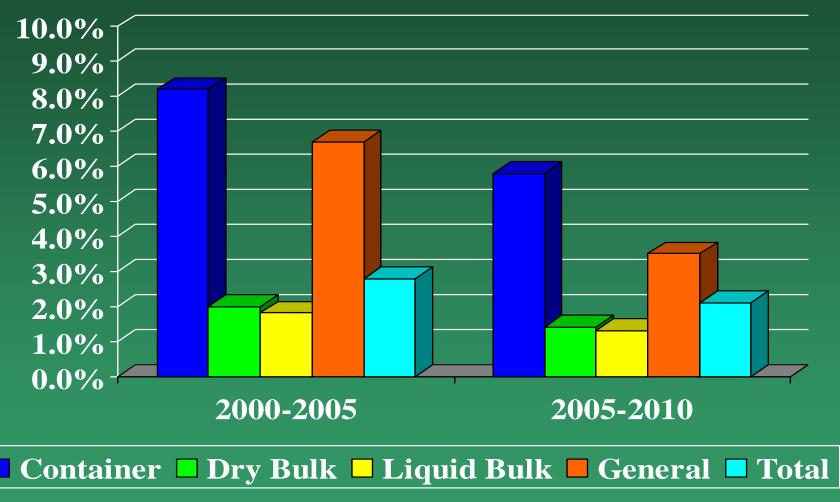
Trade Growth Will Continue to Increase the Pressure on Ports

- At a 5% CAGR, trade doubles every 15 years
- At a 7.5% CAGR, trade doubles every 10 years
- In 2005, the major North American ports handled a reported 44+ million TEUs
- By 2010, this volume will approximate 60-65 million TEUs





The next five years will see sustained growth across the hemisphere

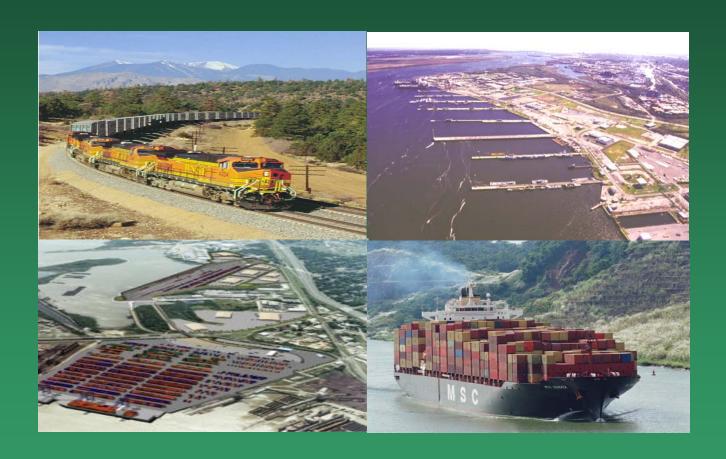








II. Define the Challenges







Motor Carrier Challenges







Several factors have driven productivity gains

- Trailer size increased from 40' to 53'
- Truck engine and maintenance cycles lengthened
- Truck engine fuel efficiency increased
- Empty miles were reduced
- Unionized carriers share down
- Improved technology and processes





However, many of these productivity opportunities may be reaching their end

Area of Improvement

• Equipment Gains

- Fuel Efficiency Gains
- Labor Gains

Inhibitor



• 53' to 57' Unlikely



Environmental Regulations



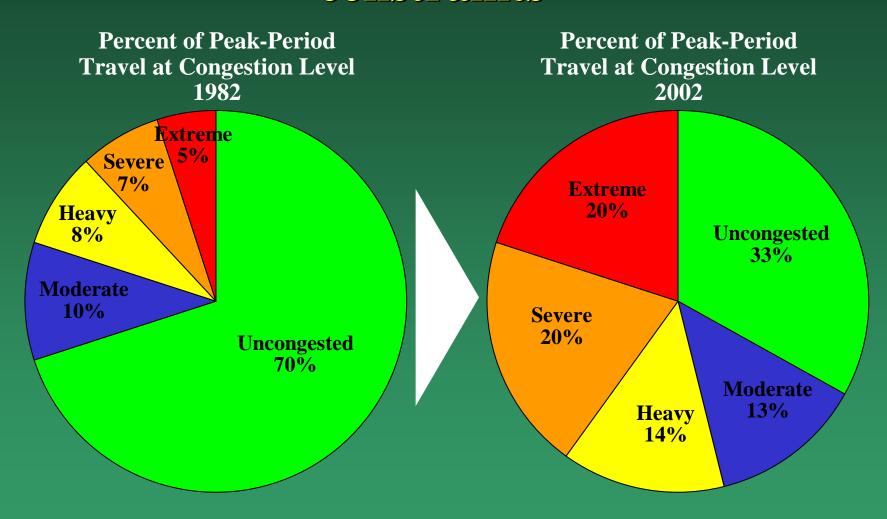
 Hours-of-Service Regulations

In addition to slower productivity gains, the infrastructure is reaching its capacity





Highway infrastructure is facing significant constraints





Source: Texas Transportation Institute at Texas A&M University



Rail Industry Challenges

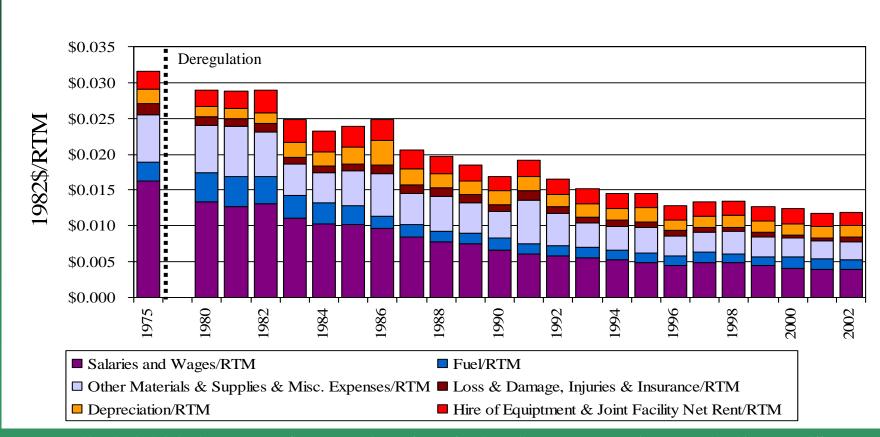






Railroads have more than halved their cost/revenue ton-mile since deregulation

Railroad Expenditures per Revenue Ton-Mile (1982\$)



Note: 1980 and 1981 Salaries & Wages Data reflect AAR's estimate of 95% of total payroll expenses. In comparison year (1982), this measure differs from the 1975,1982-2002 methodology by 0.4%.

Sources: AAR "Railroad Ten-Year Trends." (various ed.); AAR "Analysis of Class 1 Railroads." (1981); AAR "Railroad Facts" (various ed.).





Productivity gains have contributed to the decreasing cost/revenue ton mile

Productivity Improvements

- Labor requirements declined
- Networks and track were rationalized following mergers
- Engine fuel efficiency increased
- Railcars increased to 286,000 lb. gross rail load
- Many railcar types were improved





For railroads, some of these productivity opportunities may have reached their limits

Area of Improvement

• Equipment Gains

- Labor Gains
- Fuel Efficiency Gains

Inhibitor



315,000 GTW Unlikely



Adding Employees



Future Locomotive Environment Regulations?

In addition to slower productivity gains, the infrastructure is reaching its capacity





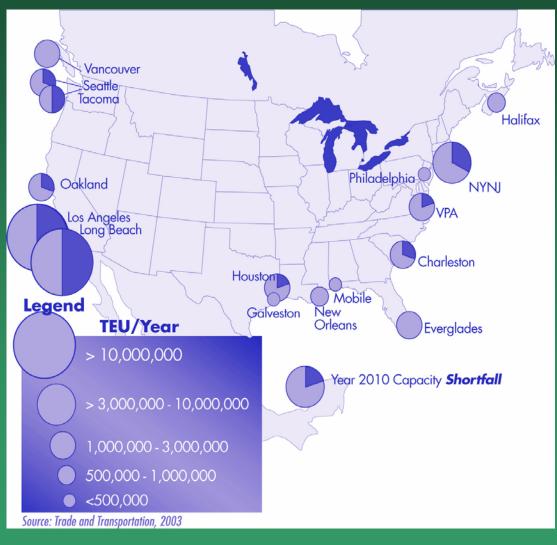
Port Industry Challenges







North American port infrastructure is under increasing pressure







Port Region Container Capacity Summaries

	2005	2010	Comments
	Net	Net	
	Position	Position	
PSW			LA/LB face significant capacity challenges during the next five years. Oakland should have ample capacity
PNW	+		Tacoma has largest expansion potential although port-rail and continued PSW diversions pose challenges
Atlantic	++		North Atlantic, particularly with the AMPT-Portsmouth terminal should provide adequate capacity. The South Atlantic will need to improve density and reduce dwells. A significant increase in Suez services would pose challenges.
South Florida	+	•	Southport expansion, terminal reconfiguration, higher density and lower dwell should accommodate growth
Gulf		-	Bayport, Choctaw and some combination of Tampa, Texas City, Corpus Christi, Brownsville, Millennium Port and a rebuilt Gulfport should provide adequate capacity



The Port Industry challenge is multidimensional

- Security
- Environmental
- Community
- Harbor deepening
- Labor efficiency and effectiveness
- Berth utilization
- Reducing dwell times/increasing velocity
- Port-rail interface
- Regional transportation infrastructure





Security Challenges: Evolutionary or Revolutionary?

Operational Challenges

- Scope: all trade, regional trade, specific goods, specific companies?
- Approach: 100% inspection, sampling, profiling?
- Technology
- Sustaining/improving
 Productivity & efficiency

Financial Challenges

- What will it cost given it's a moving target?
- Who benefits?
- Who should pay?
- What are the funding options?
- Which are most equitable?





Environmental & Community Challenges

Environmental Challenges

- Who is in charge?
- What are the rules?
- What are the standards?
- How far should/must we go?
 - Compliance
 - Tested state of the art
 - The extra mile, i.e. net improvement
- Who benefits/who should pay?
- What is the balance among stewardship, sustainability and financial realities?

Community Challenges

- Drivers
 - Globalization & trade growth
 - Urbanization of the waterfront
- Issues
 - Noise, lights, congestion, air quality
 - "Quality of life"?
 - Local vs. regional vs. national trade
- Challenges
 - Defining the issues
 - Establishing a fact-based, objective dialogue
 - Finding the balance





IV. Partnering Solutions, the Key to a Systemic Approach







US Transportation Funding

Characteristic	Highway	Aviation	Maritime
Constituency	Broad-based	Broad-based	Narrow, fragmented
Funding Source	User fees	User fees	User fees and general funds
Management	Centralized: FHWA	Centralized: FAA	Fragmented
Disbursements	Formula-driven	Formula-driven	Generally project-based
Funding availability	Predictable	Predictable	Unpredictable
Cost-benefit linkages	Clear	Clear	Unclear
User fee visibility	Low: gas taxes	Low: ticket fees	High: HMF, fuel taxes



Canadian Transportation Funding

Characteristic	Highway	Aviation	Maritime
Constituency	Broad-based	Broad-based	Narrow, fragmented
Funding Source	User fees and general funds	User fees and general funds	User fees and general funds
Management	Centralized: Transport Canada	Centralized: Transport Canada	Centralized: Transport Canada
Funding availability	Predictable	Predictable	Predictable
Cost-benefit linkages	Clear	Clear	Unclear
User fee visibility	Low: gas taxes	Low: ticket fees	Low: fuel taxes





Overview of Canada's Pacific Gateway Strategy

- Precedent setting policy change in federal government policy
- <u>Objective</u>: Address the interconnected issues in an integrated way and accelerate the development of the Pacific Gateway, and its benefits for British Columbia, Western provinces and the entire country
- <u>Content</u>: \$590 million in specific measures and commitments in several interconnected areas that impact the effectiveness of the Pacific Gateway, and how well Canada takes advantage of it





The Challenges

Needs are increasing

Environmental & Community challenges

Security Needs

Funding shortfalls

Modally focused

Maritime Industry: Fragmented approach

Maritime visibility

Finding the Common Ground





Lessons Learned

What Has Worked

- Project-specific; focused on bottlenecks
- Finite timelines
- Environmentally oriented
- Comparatively small
- Tangible benefits
- User-fee based funding

What Hasn't Worked

- Policy-related
- Large scale
- Capacity-driven
- Broad benefits
- Complex funding
- Grant or appropriations based funding





What Are Some of the Options?

The "Big Bang"

- Centralized, integrated, multimodal policy and funding
- Integrates the surface modes
- Builds on best practices
- Systemic approach to investment

Phased Approach

- Redesign the Maritime Model
- Design a Rail Model
- Develop a sustainable funding source for multimodal projects
- Long-term, evaluate comprehensive modal integration

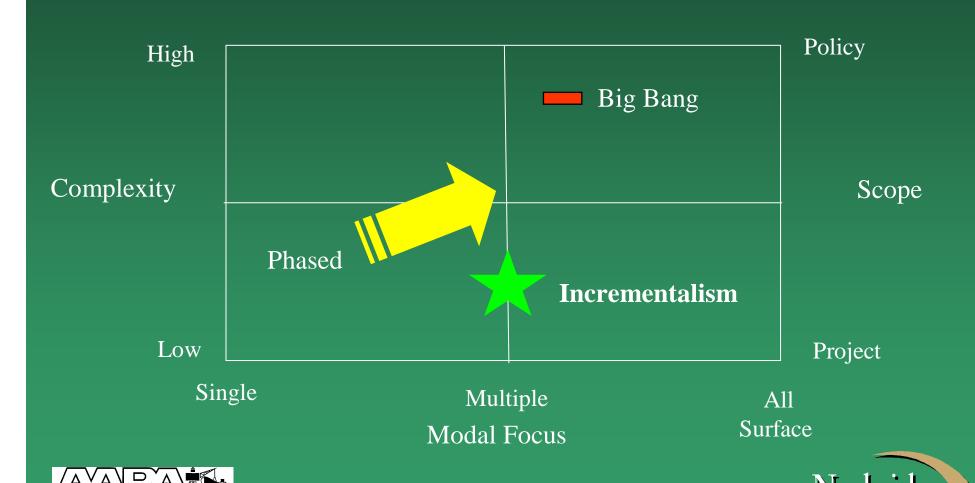
Incrementalism

- Cooperative, projectspecific, industrydriven approach
- Significant industry participation
- Works within existing regulation and funding mechanisms
- Identifies and implements an evolutionary approach to funding





Pragmatism & Political Realities Are Key Success Drivers in the Short to Mid-Term



Implications: A dual strategy most likely represents the best approach

Short-to-Midterm

- Focus on enhancing
 Maritime funding based
 on current best practices
 - Centralized
 - Dedicated funding
 - Full disbursement of collected funds
 - User fee based
 - Industry participation

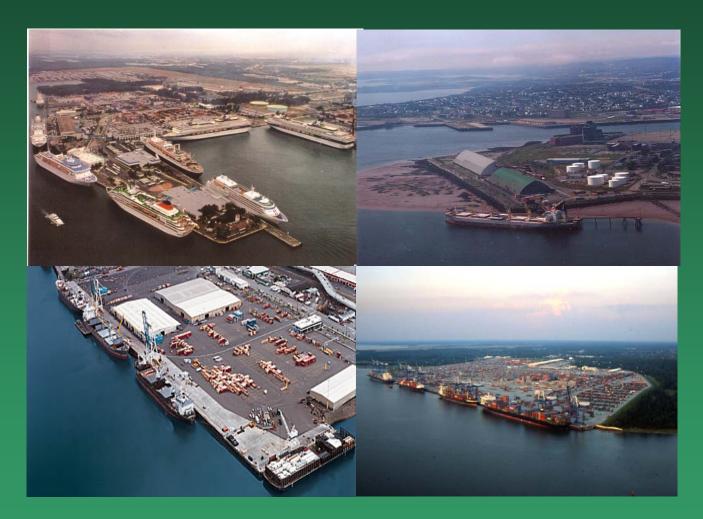
Mid-to-Long Term

- Phased approach that integrates road, rail and maritime (deep sea, short sea, inland).
 - Initial focus on what works
 - Multimodal
 - Mitigation: congestion, air
 - Specific projects
 - Incremental expansion built on successes





Implications for the Port Industry







It depends on how one views the glass





Half Empty

Half Full





The Port Industry is highly diverse in terms of ports' capabilities and needs

Strong & Diverse

Financial Health

Weak & Concentrated

We can probably survive

An industry approach is critical We are winning winning

We need to pursue all options

is

Large

Small & limited

High &

to

dedicated

Access

Capital

Narrow & small

Business Base & Size



& diverse



It depends on how one sees the glass

Half Empty

- The pot of funds is shrinking
- The status quo is the best we can hope for
- Emphasis is on getting my fair share
- We will cooperate when it is compelling

Half Full

- We can grow the pot of funds
- The status quo is not an option
- We will gain more by cooperating





What is Required?

- ✓ Internal Assessment
- ✓ Port/Maritime Industry Game Plan
- ✓ Multimodal Game Plan





Internal Assessment

- Is the status quo acceptable or is change imperative?
- What do we need?
- What are the critical success factors?
- What are worldwide best practices?
- Are we committed to a sustained change effort?
- How do we fund it?





Port/Maritime Industry Game Plan

- Is it a Port or Maritime Industry Game Plan?
- Who are the key players?
- What are the roles and responsibilities?
 - Government
 - Port Industry
 - Private sector
- What are the key elements of the game plan?
 - Governance
 - Funding: who pays, who benefits
 - Disbursement
 - Oversight & control
 - Performance monitoring
 - Setting long-term direction





Port/Maritime Industry Game Plan-Continued

- What is the contingency plan?
 - Public-private partnerships
 - A national tariff that is competition neutral
 - Financial self-sufficiency
 - Taxing authority





Multimodal Game Plan

- Who are the key decision-makers?
- Is there common ground?
- Is there a commitment to partnering solutions?
- What does each of the parties bring to the table?
- What does each party leave at the table?
- What is the plan?
- How do we execute?
- Many of these questions are the focus of the Framework for a National Freight Policy





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