Rail Freight and Economic Development



Presentation to the Pennsylvania Rail Conference, Altoona, 2007



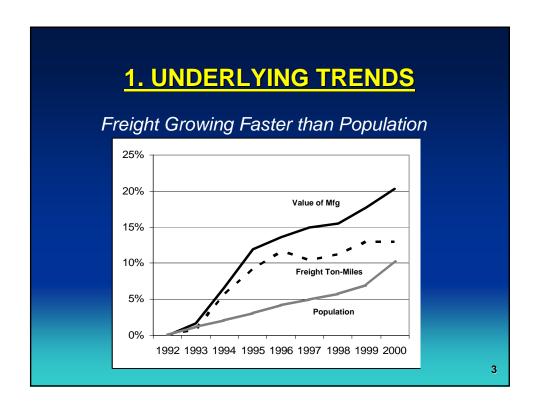
Glen Weisbrod

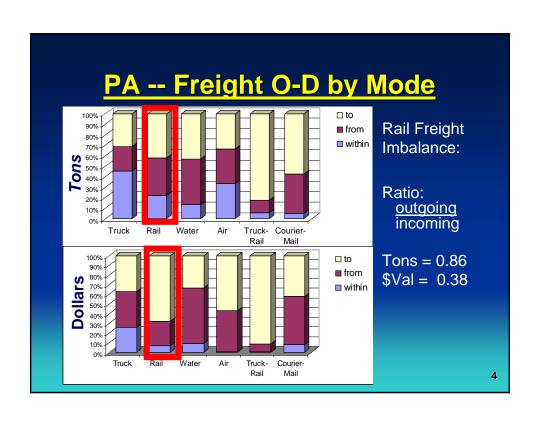
Economic Development Research Group, Inc.

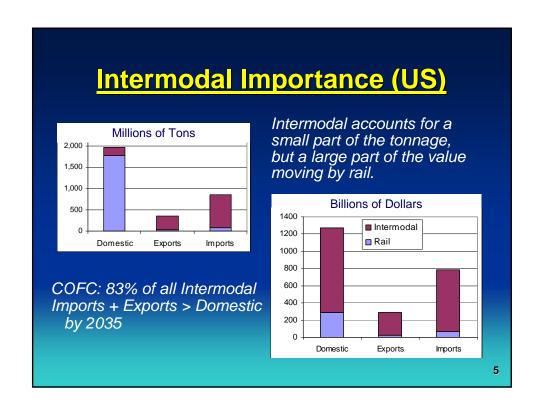
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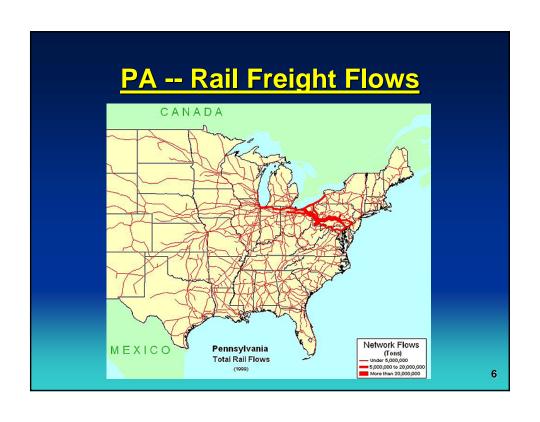
Three Themes

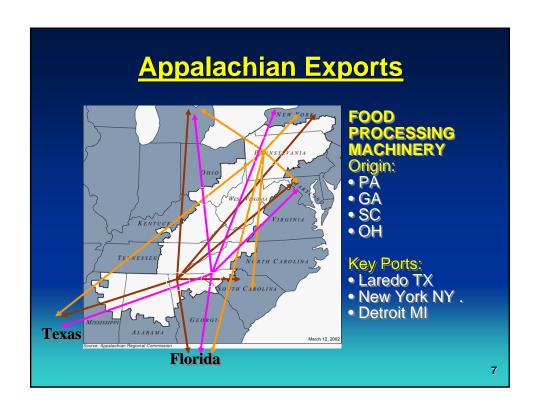
- **1.** <u>Underlying Trends:</u> changing due to national & global economic markets.
- **2.** Intermodal Rail Freight Projects: reducing costs & expanding services to improve competitiveness.
- **3.** Economic Development: depends on market access & cost competitiveness.













PA to Canada \$758 million (+83% from 2000)
Canada to PA \$2.698 Billion (+85% from 2000)

PA to Mexico \$311 million (+44% from 2000) Mexico to PA \$104 million (-21% from 2000)



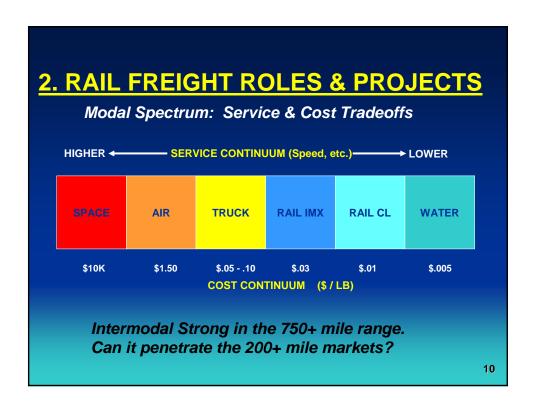
International Trade Administration 2006



PA -- Exports to Canada by Rail

- Locomotives & Traffic Signals
- Organic Chemicals
- Iron & Steel and Products
- Plastics
- Mineral Fuels, Oils & Waxes
- Wood and Wood Articles
- Boilers, Machinery and Parts
- Chemical Products

Contrast to Domestic Rail Flows that feature Coal, Petroleum, Pulp & Paper



Rail Freight to Reduce Hwy Traffic

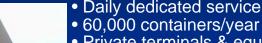
NCHRP Guide:

- Converging interests: private carriers, public agencies
- Motor carriers (facing labor shortages, truck delays, rising fuel prices) see rail freight as a positive option.
- Reducing congestion and road/rail conflicts can enhance public safety & economic development
- Guide for evaluation & public-private partnerships

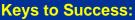


Successful Short-Haul





- Daily dedicated service
- Private terminals & equipment
- Private, purchased train



- Single-end dray
- Stack economics
- Economic geography
- Turnkey set of services

Expanding Regional Capacity

Regional Rail-Hwy Access Strategies

- Vancouver Gateway System
- Chicago CREATE

Inland Ports and Feeder Systems

- Netherlands: European Container Port Venlo
- Virginia Inland Port
- Nilai Inland Port (Malaysia)
- NY: Port Inland Distribution Network

Rail to Satellite Facilities

- Betuwe Line Netherlands
- Alameda Corridor California



Example: Chicago Rail Yards

- 74 rail yards, 17 for intermodal
- delays at 600 grade crossings
- Congestion from truck trips moving cargo from yard to yard
- Abandoned & under-utilized rail yards





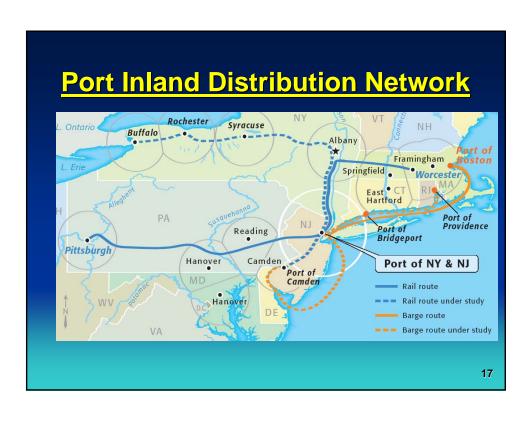
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Inland Ports

- European Container Terminal Venlo
 - 120 miles from Rotterdam daily shuttle trains
- Virginia Inland Port
 - 220 miles from Hampton Roads daily shuttle trains
- Nilai Inland Port (Kuala Lumpur)

 25 miles from Port Klang
 daily shuttle trains

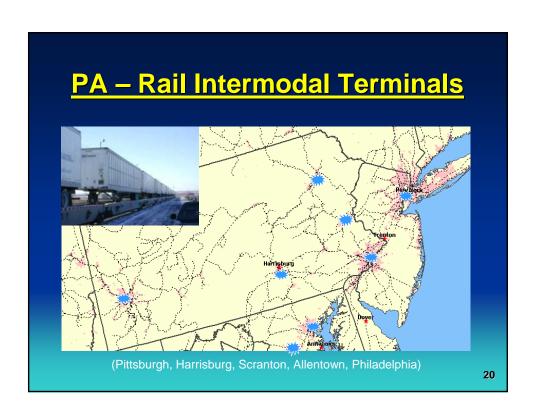


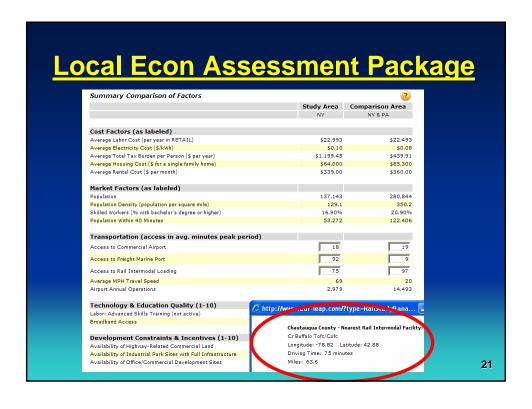


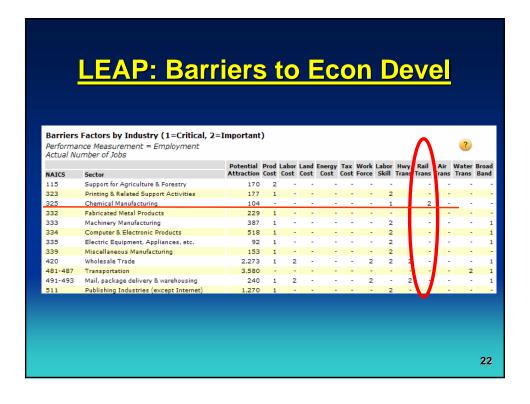


3. Economic Development

- Business growth & attraction depends on many cost, quality and market size factors.
- Freight connections alone do not create economic development.
- But failure to provide access or service can constrains it.
- International trends will create more opportunities for intermodal services.







PA - Rail Freight & Development

- Rail Freight Properties Directory (205 listings)
- Rail Freight Assistance Program (track, bridge, siding, spurs for industrial development)
- Intermodal Warehousing & Logistics Centers
- Int. Port Connections (e.g., reverse logistics for military equip. repair (Phila to Ft. Drum, Dix...), future PIDN to Pittsburgh, etc.

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Future: Public-Private Cooperation

Element	<u>Leadership</u>	<u>Support</u>
Rail capacity limits	Rail Carriers	
Rail capacity investment needs	Rail Carriers	Public Agency
Freight market projections	FAC & Public Agency	Rail Carriers
Trans-modal effects of investment	Public Agency	Rail Carriers
New market assessments	Public Agency	FAC & Rail Carriers
Public education	Public Agency	Freight Advisory Council
Environment	Public Agency	
Multi-jurisdiction coordination	Rail Carriers	Public Agency
Media coordination	Public Agency	FAC & Rail Carriers