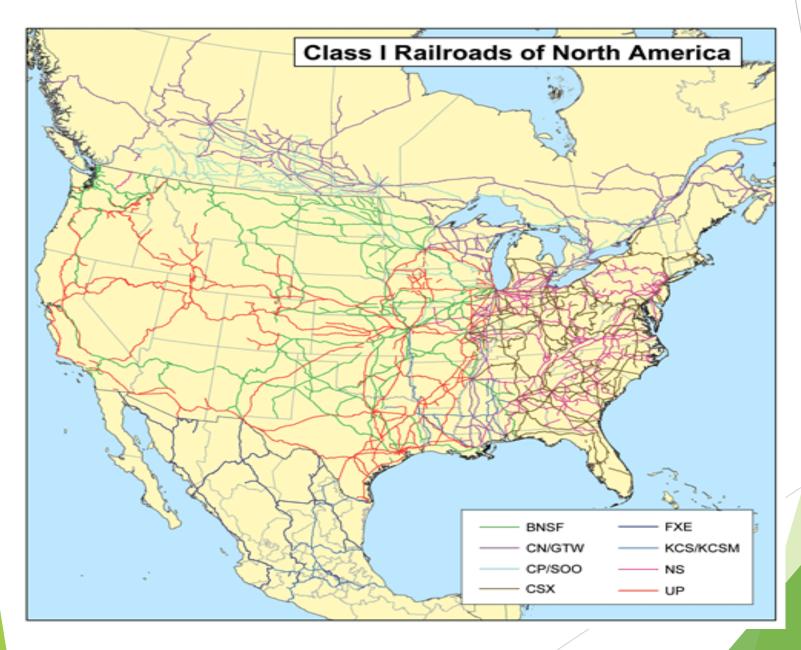
Topics Requested by AmCham

- Brief overview of the U.S railway transportation system;
- Transformation of the U.S. railway market in conditions of liberalization by:
 - highlighting the stages of railway transport market reforming through the scope of appropriate regulation;
- Particularities of private traction regulation via U.S. perspective;
- The features of tariff system formation for access to railway infrastructure through U.S. experience.
- Principles of the transport process under conditions of equal access to railway transport.

North American Rail Network



Federal Railroad Administration (FRA), U.S. Department of Transportation Selected 2006 Rail Freight Statistics











- 140,490 miles of road owned by railroads
- 23,732 locomotives
- 1.3 million rail freight cars*
- 99 average tons per carload
- 186,957 workers
- 2.0 billion ton-miles carried
- 32.1 million freight cars originated
- \$52.2 billion annual operating revenue
- 11.3% rate of return on shareholders equity*

* Class I only

The Beginning in America 1826-1828



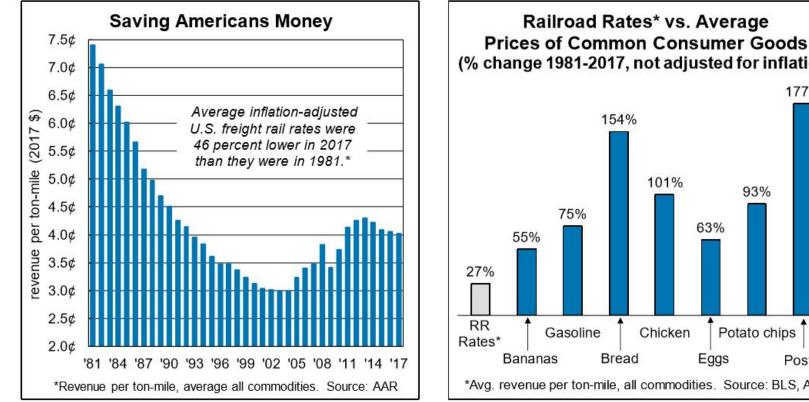
The Rapid Expansion in America 1860 - 1890

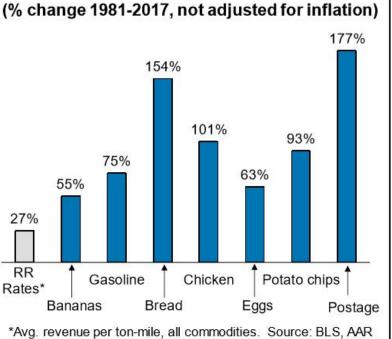


The Modern Network in America 1970 - 2000

- Formation of the Surface Transportation Board (STB)
 - Supreme Court for Shippers & Railways
 - Revenue / Variable Cost < 1.80</p>
 - Revenue Adequacy Returns > Cost of Weighted Capital
 - No "Directives" like EU
- Increase Role of Federal Railway Administration
 - Determines Licenses for Operators
 - Establishes "Minimum" Safety Requirements
 - Collects Railway Data and Employee Data for Safety
 - Collects Injuries, Derailments, Statistics Predicting
 - Oversight Positive Train Control (Europe = ETRMS)

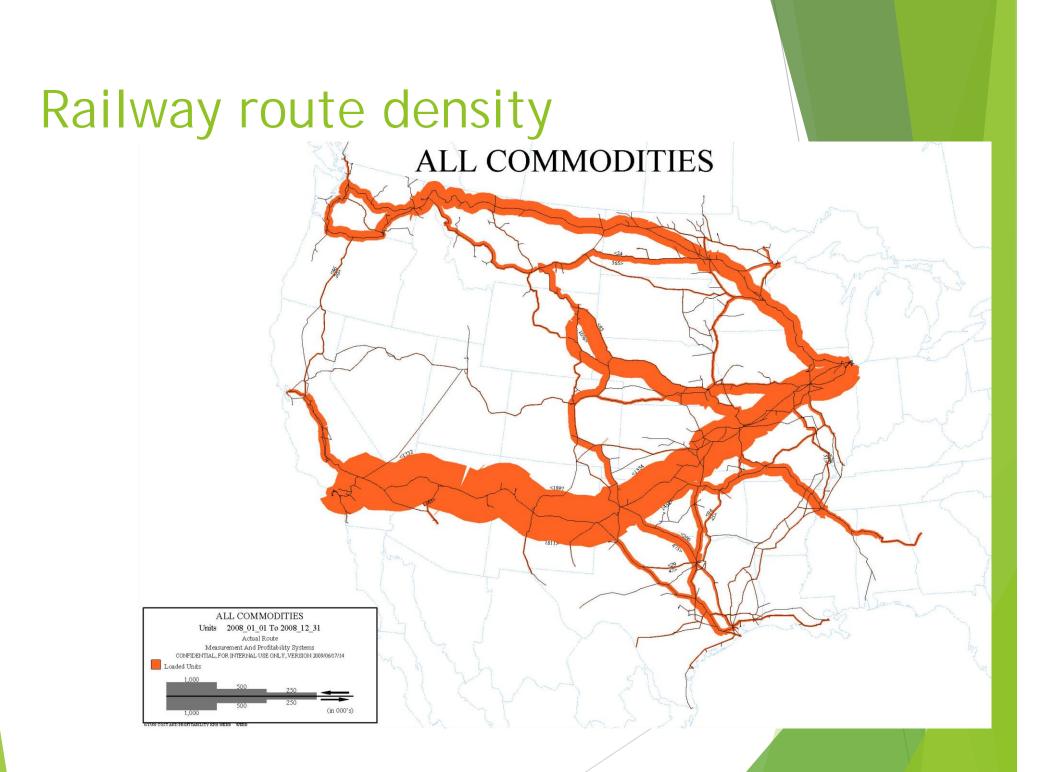
Tariffs decline as Efficiency Gains



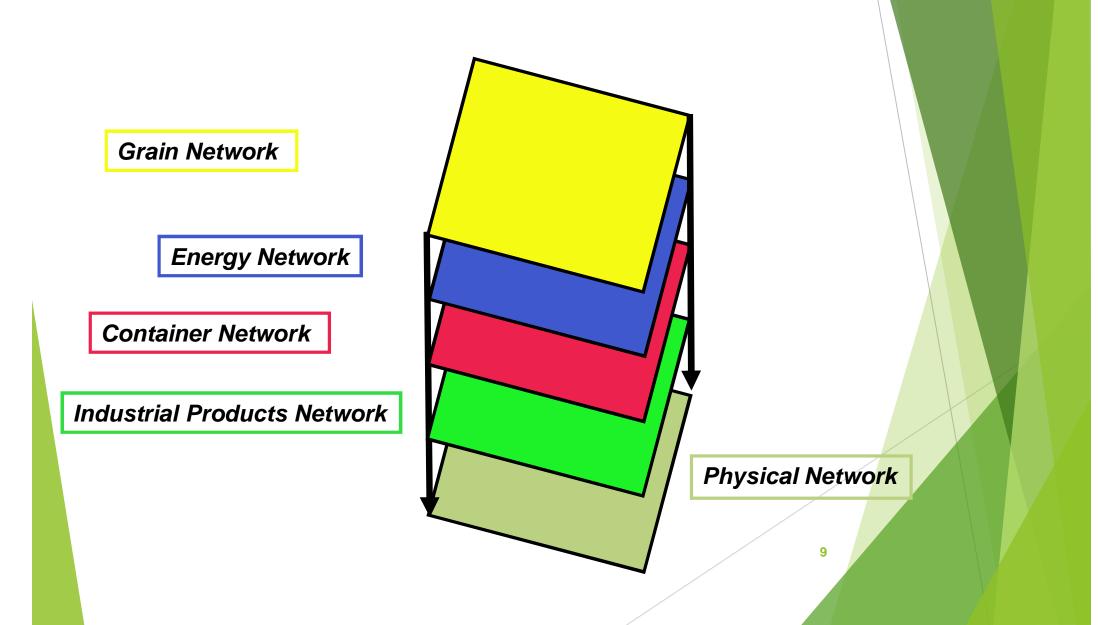


Example Railway Network





Network Planning & Operations

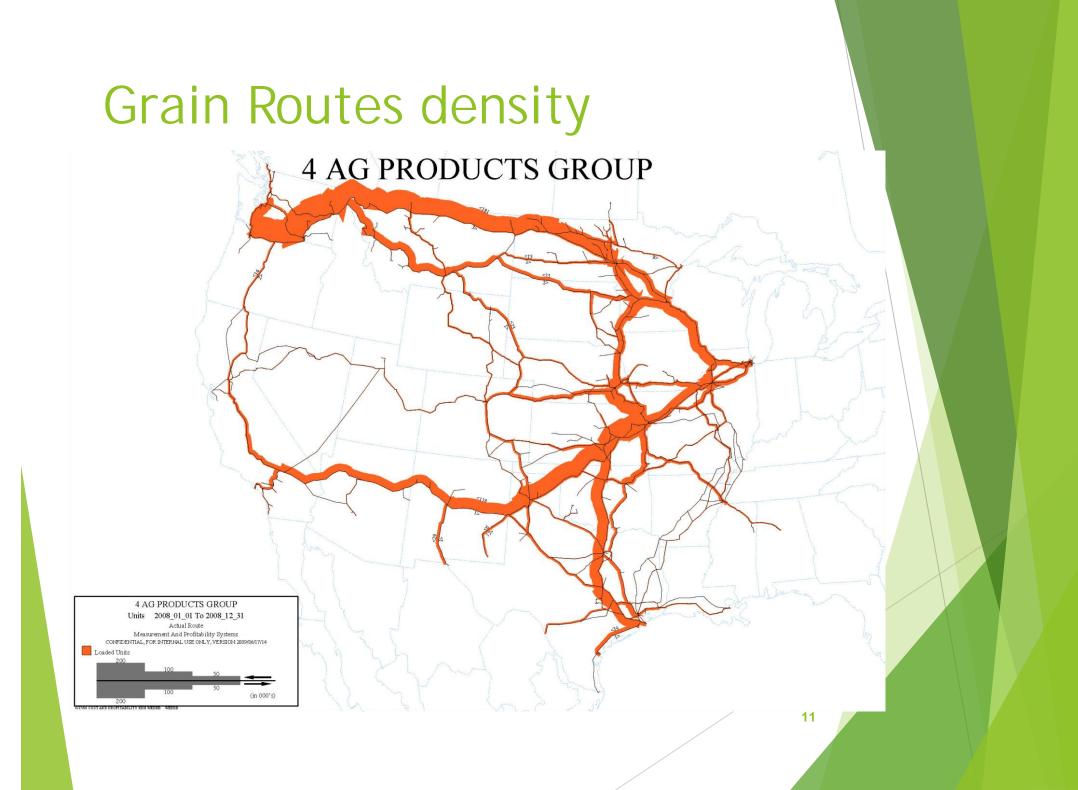


Grain Business

Ag Products...

4,700+ customers 2,100+ origins Shuttles = 110 cars 2.5 trips/month 120 shuttles running





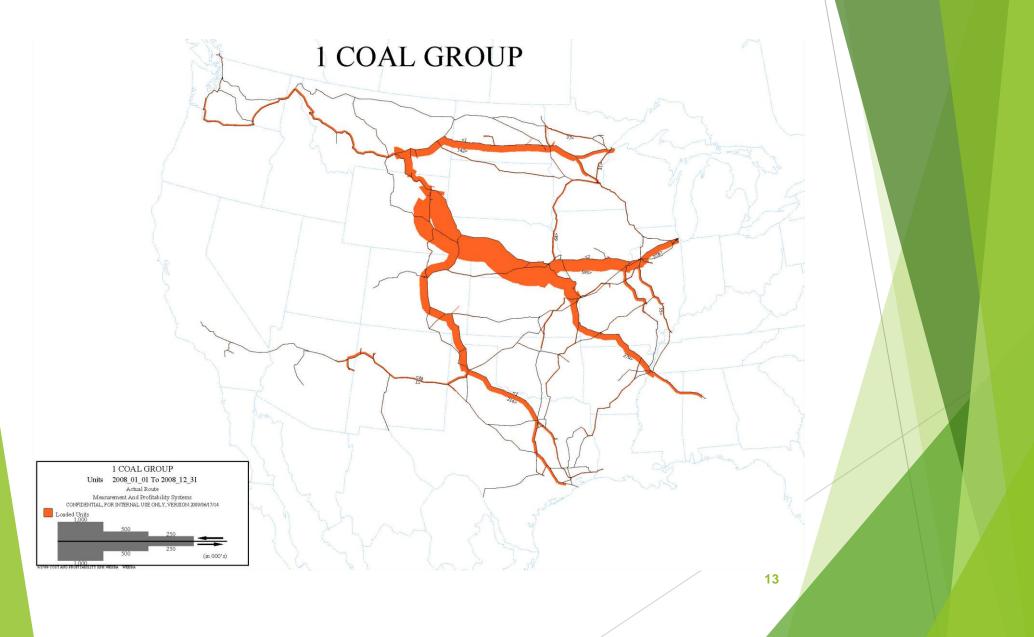
Energy Business

<u>Coal...</u>

10 customers = 60% 400+ train sets 14,400+ tons/train 50+ trains loaded/day Powder River Basin output has doubled over the last decade



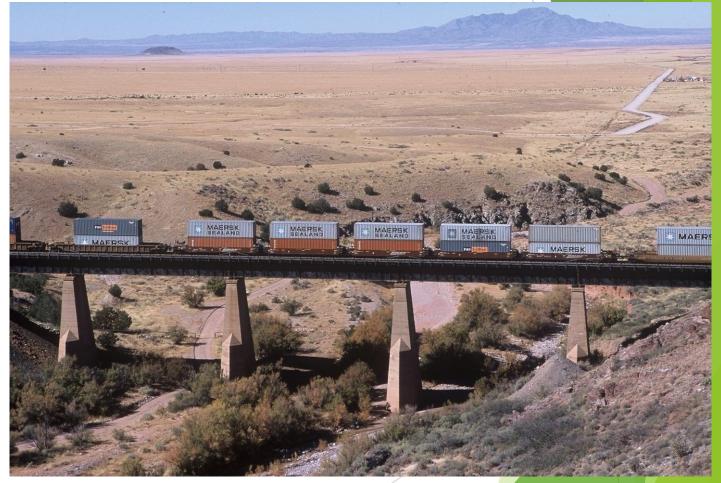
Energy Routes

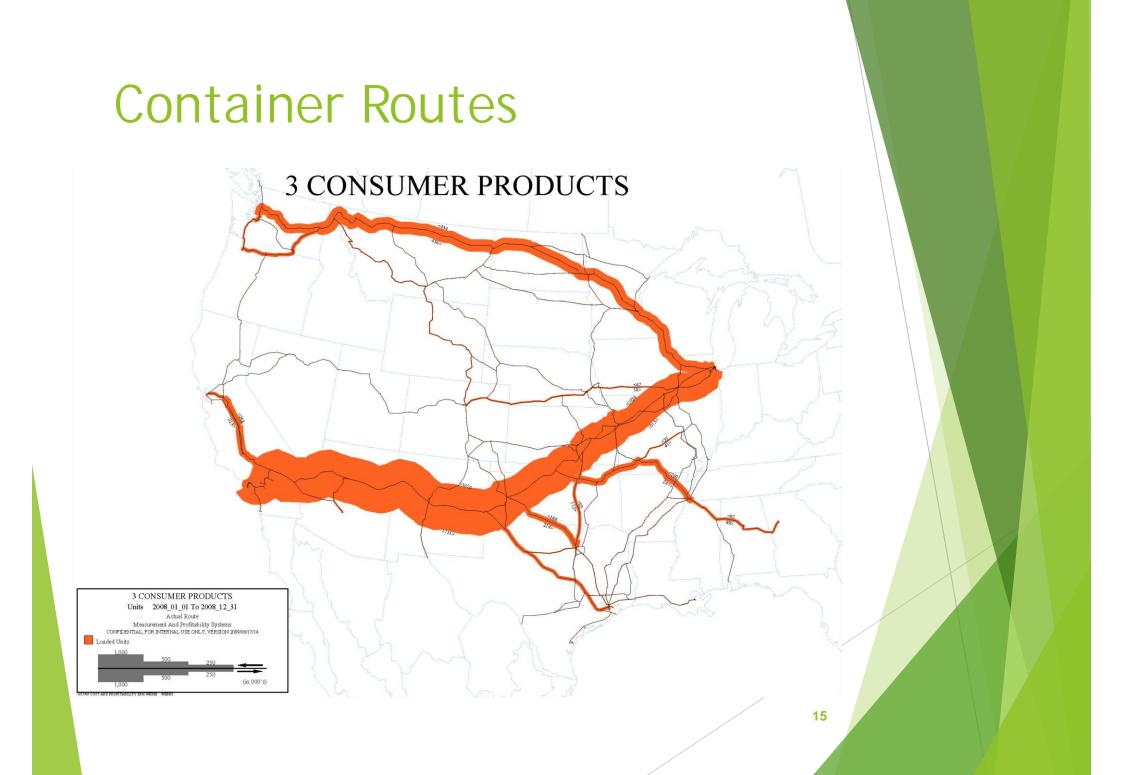


Container Business

Consumer Products...

- Many Customers
- Concentrated Origin and Destination Intermodal Facility Network
- Train = 280+ units
- 3-5 day trips





Industrial Products Business

Merchandise...

6,000+ Customers

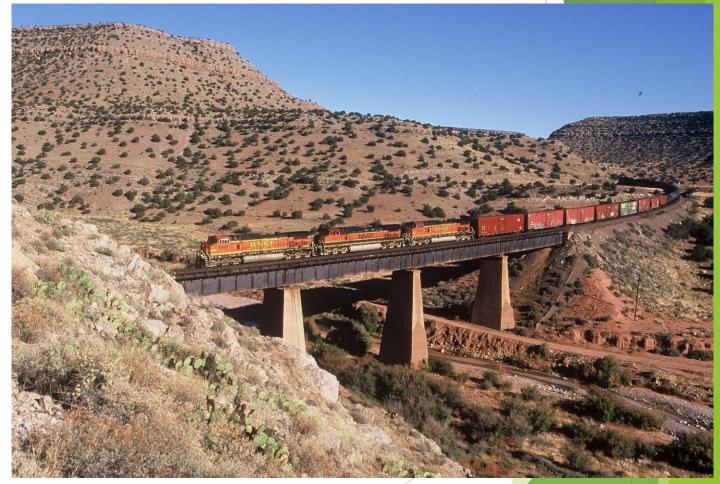
Diversified Origins and Destinations

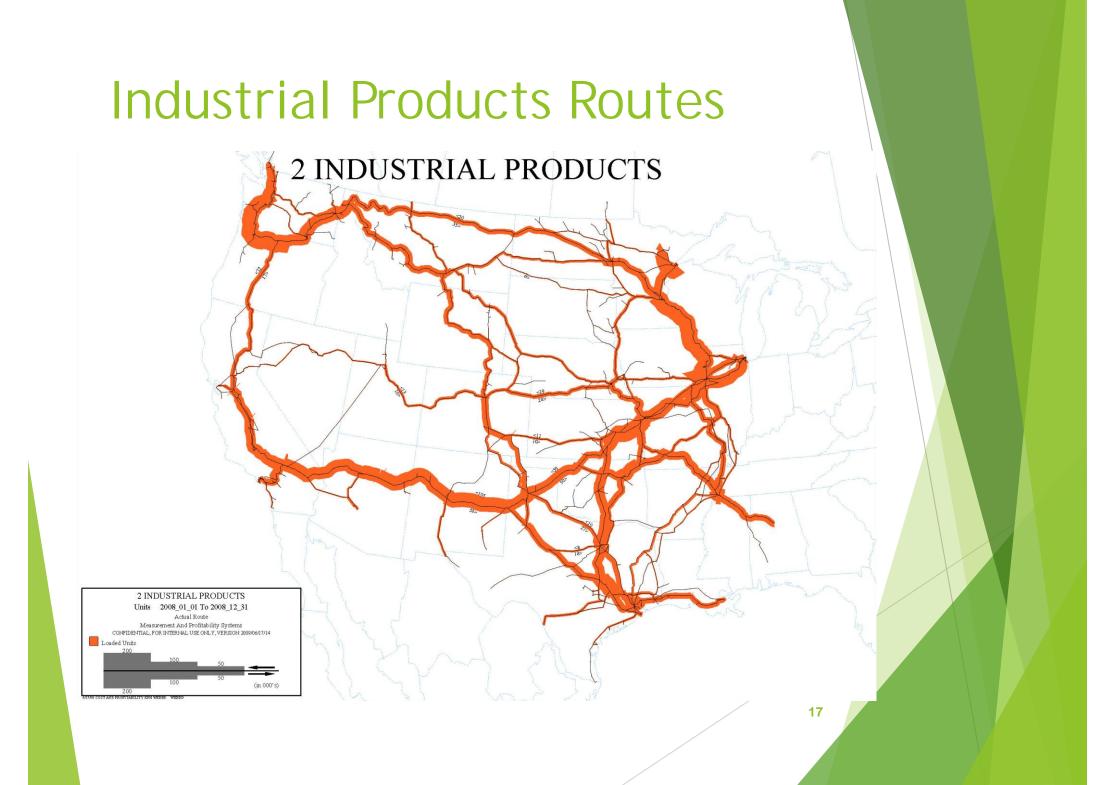
Large Gathering and Distribution Network

Many Intermediate yards

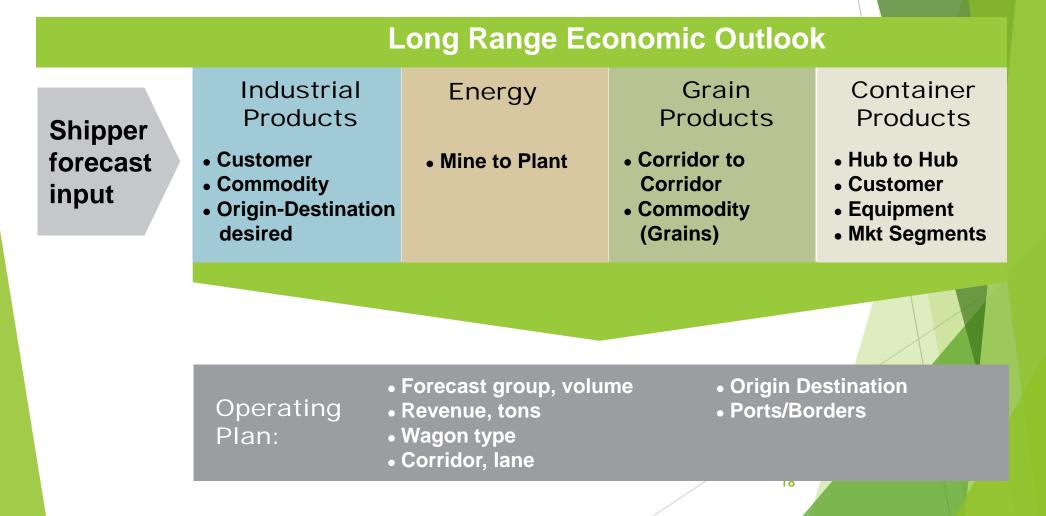
10-13 day trips

25-30 day cycles

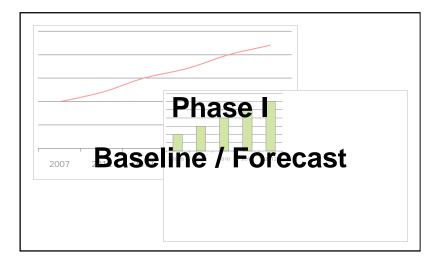




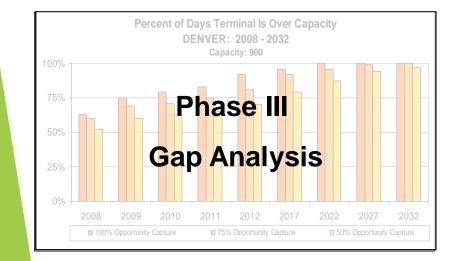
Service Planning Overview



Four Phases

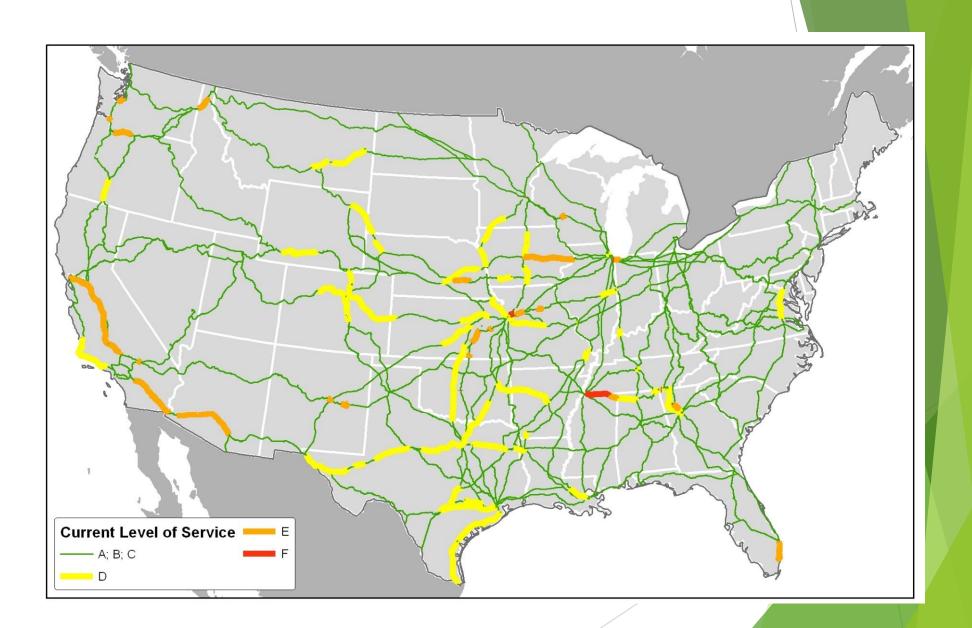




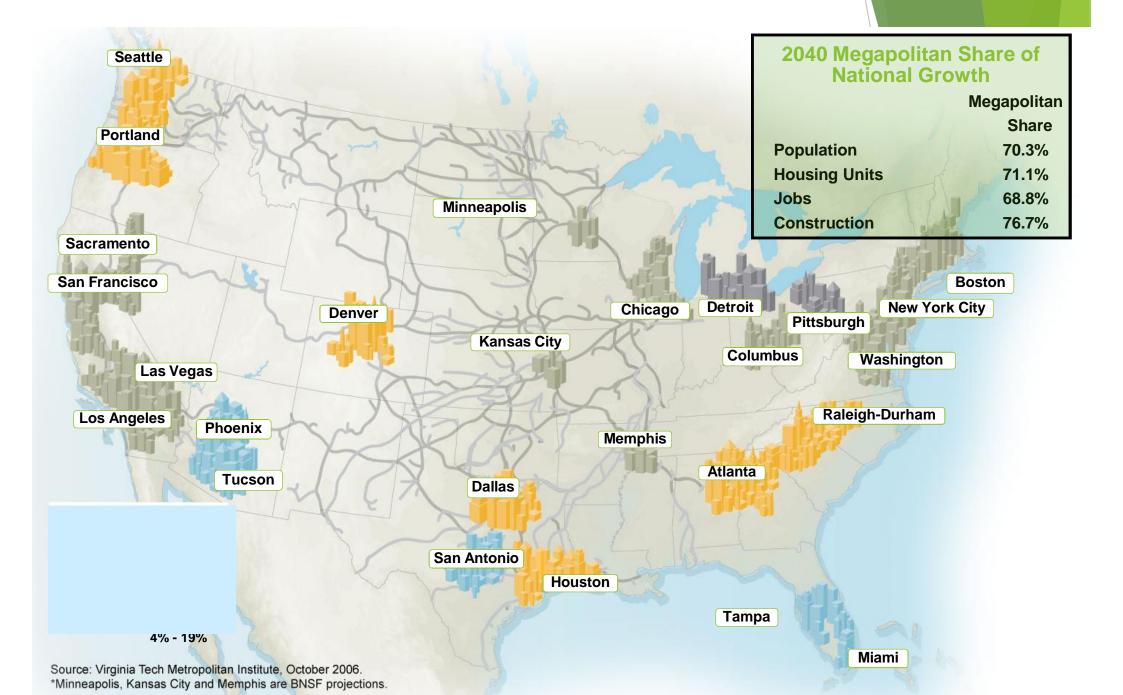




Majority of Routes Operating Below Capacity Levels

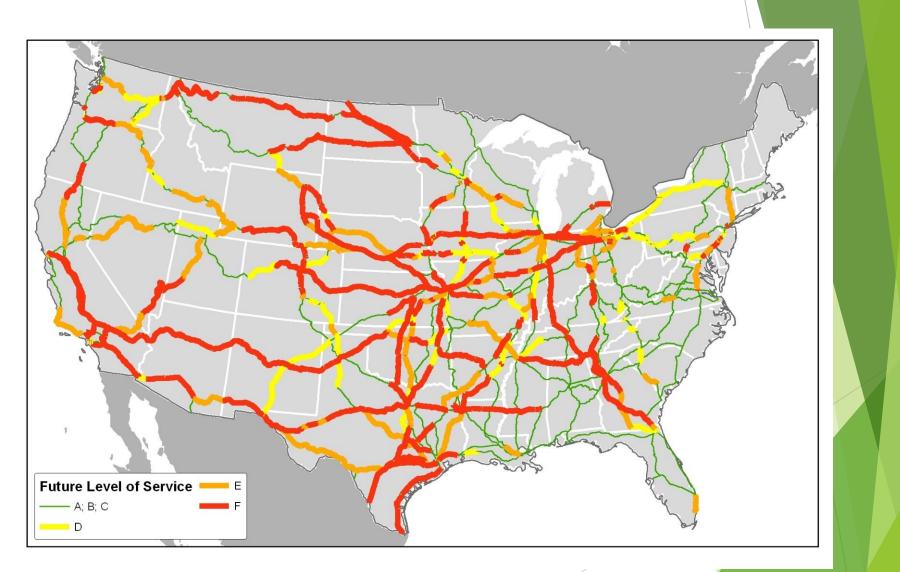


70% of Growth in Megapolitans



If No Improvements, Congestion Affects Every Region of the Country

2035 Without Improvements



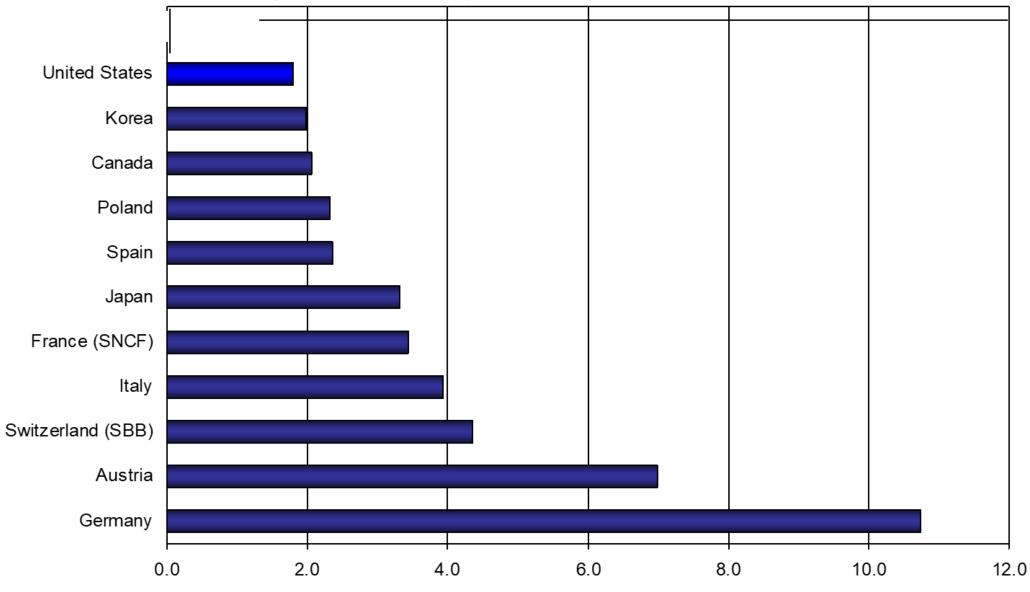
Locomotive Traction

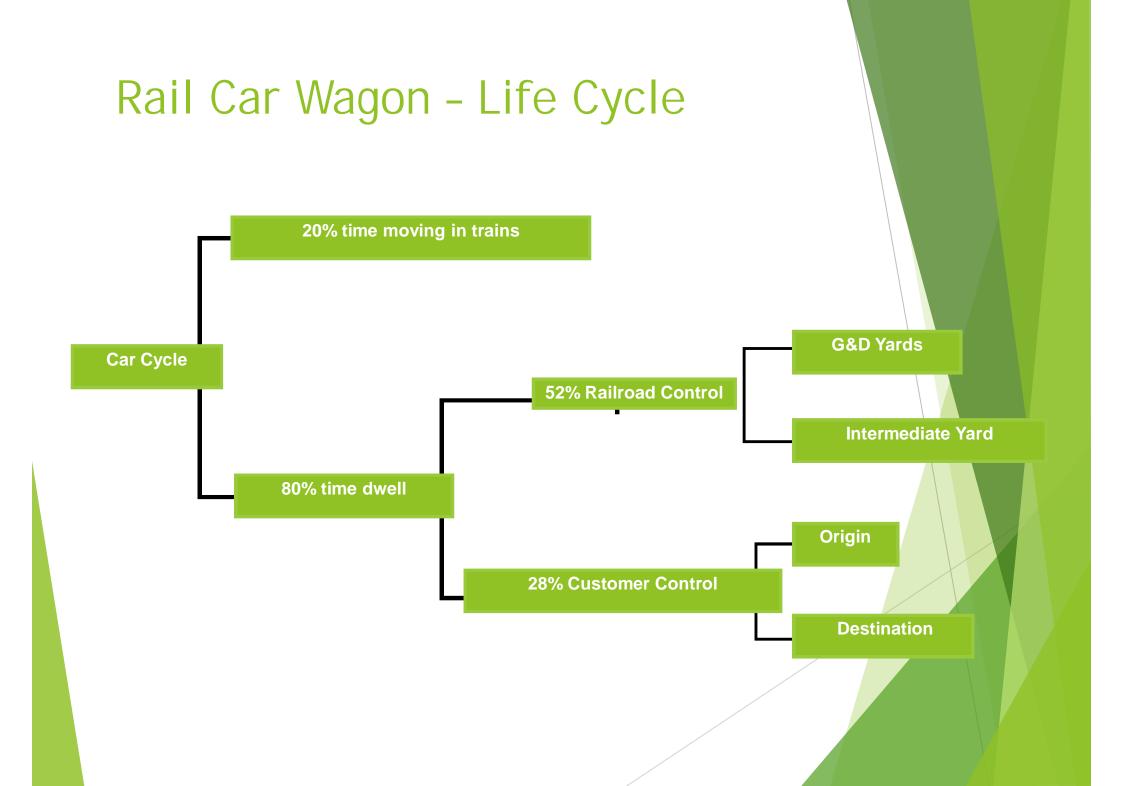
- Requires Certification by Regulatory Authority
- Ownership by Railway Operators
- Ownership by Shippers / Companies
- Lease Pool available per day per unit
- Maintenance 12 year bumper to bumper warranty
- Tariff to reflect provision of Traction
- American "Trackage Rights" \$ 0.30 0.50 per rail car mile (locomotive, train and driver provided) - cost is for incremental track maintenance fee & dispatch
- American "Haulage Rights" \$ 0.75 1.50 per rail car mile (only rail car provided)



Comparative International Rail Freight Charges

(US cents per tonne-kilometer)





Steps to the Future

- Railway Law? Copy Austrian or other EU Laws to allow Open Access, Private Operators, Liberalize Private Rolling Assets
- Spin-Off Passenger/Sub-Urban/Commuter Trains from Freight > Becomes "Public Services"
- Baseline Actual Costs to Index tariffs to Variable Costs split between Track Infrastructure and Private Operators
- Transition Manufacturer of Wagon and Traction Supply
- O/D train-load quantities for Express Shuttles
- Regulatory Oversight for Tariffs / Licenses / Safety
- Remove Political "Ownership"