

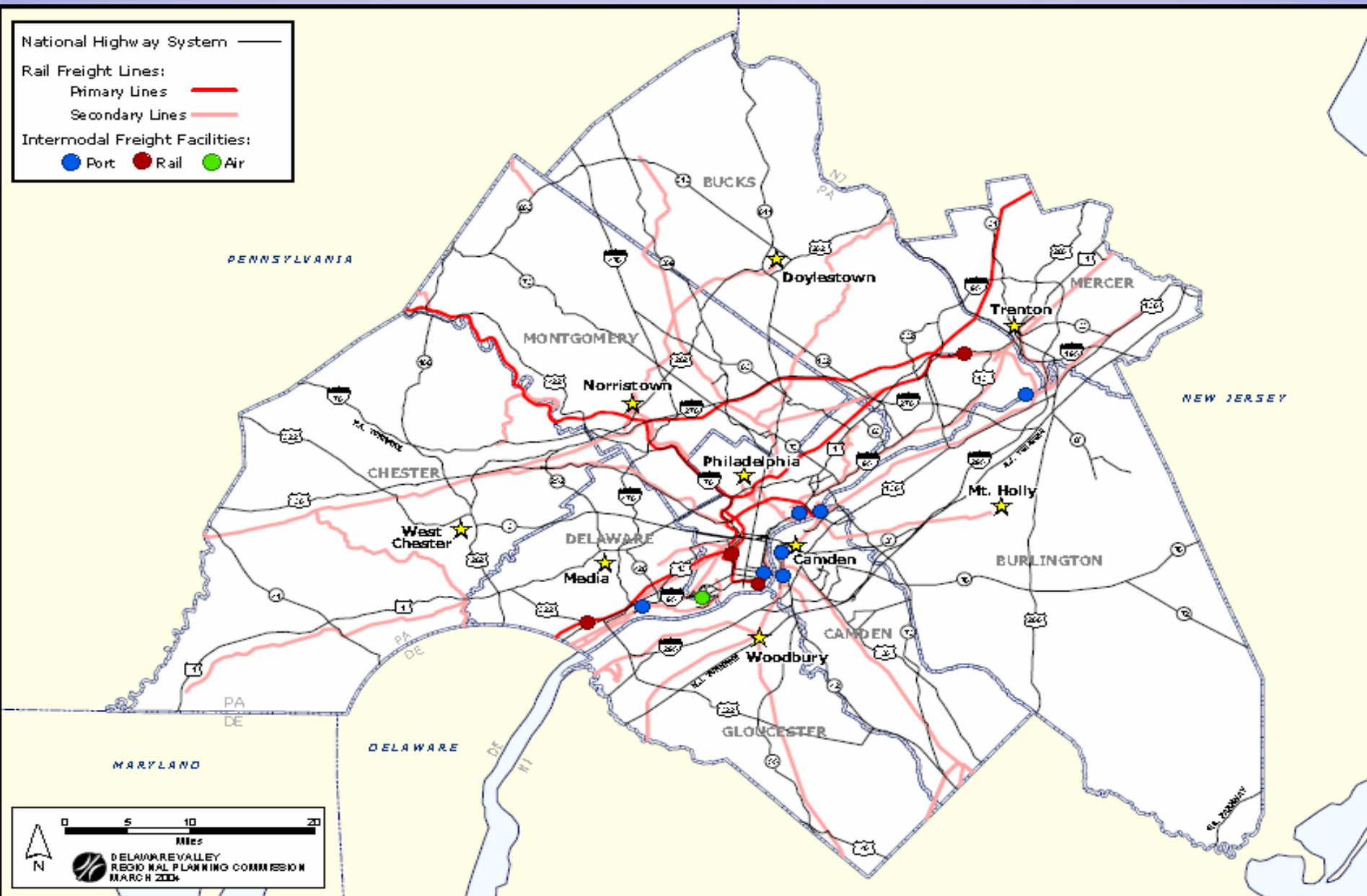
Optimizing Our Waterways For Transportation



Discussion format

- Appreciation of the situation
 - Terrain
 - Challenges
 - Assets and endowments
- Some topics & ideas for discussion

The Terrain



Challenges

The challenges we face today are

- **Truck hours delay**
 - 750Khrs to 1700Khrs per annum
- **Pollution**
 - Diesel sulfur content 500ppm,
- **Safety**
 - Risks , Direct & indirect accidents in urban areas.
- **Infrastructure Maintenance**
 - Increasing wear & tear of highways and bridges.
- **Sustainability**
 - Alternatives for growth

Assets & Endowments

- Annual Value of IWW cargo by State in billions
 - PA \$2-5, NJ \$5-10, MD \$2-5, DE 5-10
- Maritime Industries
 - Marine Terminals , Ships, Towboats, Barges, Tugs, Shipyard, Brokers & Agents , Consultants , Attorneys,
- Manufacturing
 - Chemicals , Pharmaceuticals , Foodstuff, light and heavy machinery etc
- Other transportation related
 - Warehousing , Truck terminals , Rail ramp,
- Governmental support for such initiatives
 - \$7.6 billion for the 20-year Inland Waterway Capital Investment Program

Some discussion topics

- Land use and Social impacts
 - Land for housing and community instead of widening roads
 - Noise and air pollution; Quality of Life
- Jobs
 - Nationwide shortage of truck drivers
 - New jobs pertaining to waterborne trades
- Development of transloading and intermodal terminals
 - Eg: At Morrisville PA
- Design of ships for costal trade
 - Learn from the Australians who have designed ships for a sustainable costal trade
- Innovate with the current laws
 - Export Initiative
 - Promote a US Merchant Marine fleet
 - Eg: The Jones Act, (possible short term dispensation for funding the initiative)

Examples of ships on a costal and ocean going trades



ANL's Bass Trader

Built 1976

GRT : 6,374

NRT: 2,170 net.

DWT: 7,483 dwt.

Lbd: 141.97 x 23.42 x 7.182m

Vehicles under deck

Containers on deck

Bow Thruster + Twin screw – CPP

Service speed 14.5 knots.

NOL's ANRO Temasek

Built 1978

GRT: 16,353

NRT: 7,166

DWT: 22,195

Lbd: 212.92 x 27.56 x 9.01 m.

Vehicle-deck

Cellular container

Bow Thruster + Single screw – CPP

Service speed 16 knots.

Credits

- Texas Transport Institute study 2007
- Federal Highway Admin Office of Transportation Policy studies
- Report on Freight flows & forecasts in the Philadelphia CSA by DVRPC
- ANL
- NOL