



American Marine Highways

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Totem Ocean Trailer Express



The Dream

- To see Marine Highways as an integral and vibrant part of the US Surface Transportation System
- History
 - Maritime Nation
 - Continental Rail
 - Interstate Roads





The Reality

- “Build it and they will come” does not work
- Congestion is not yet bad enough to create necessary demand
- Many have tried
 - SeaBridge
 - The Albany Service
 - AFL





Create Demand

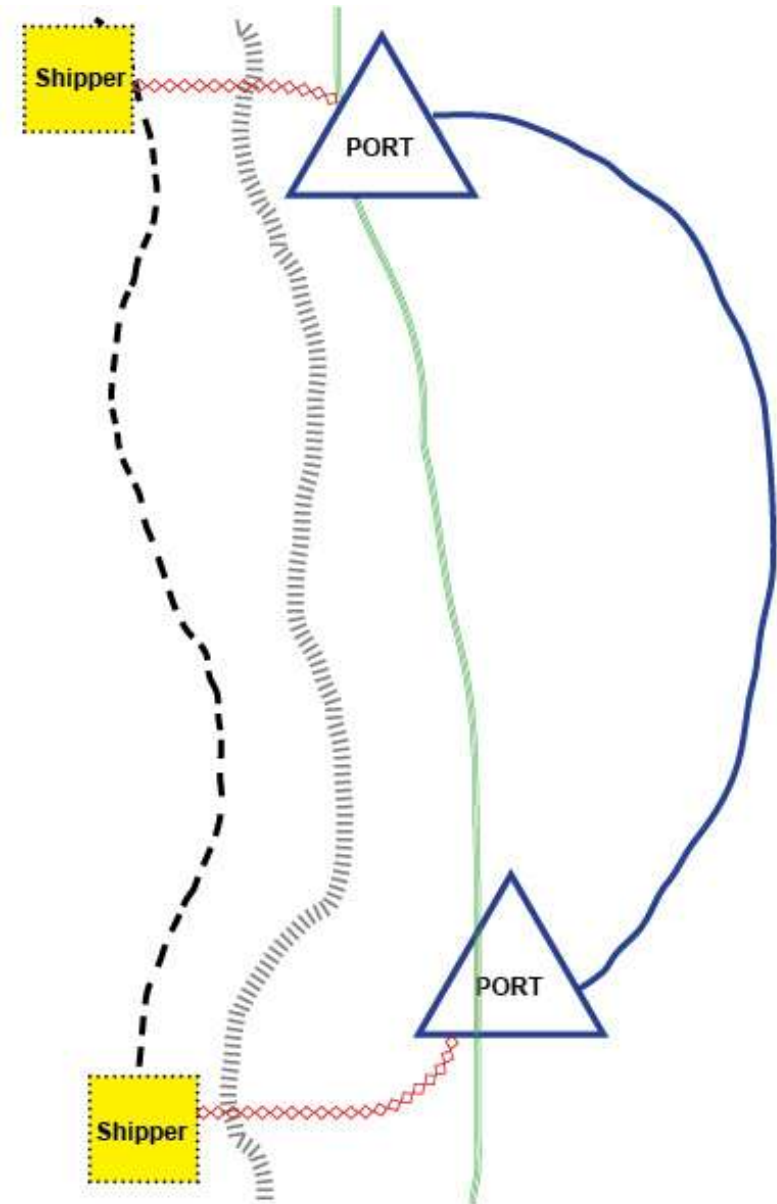
- Better, Faster, Cheaper
- MH needs to be viewed as competitive with road and rail in order to achieve modal shift
- MH Advantages:
 - **Safety**
 - **Congestion relief**
 - **Environmental**
- How are these advantages commoditized in order to provide direct benefits to the cargo owners





Last Mile

- One barrier to modal shift is the “last mile” issues
 - Increased number of hand-offs (security)
 - Frequency (convenience)
 - Harbor maintenance tax (cost)
 - Port congestion (time)





Shipbuilding

- Standard ship design, engines & hull forms
- Dual use vessels – ready reserve & commercial
- Dual fuel – IFO, MDO & LNG





North American Emissions Control Area (ECA)

- Requirements
 - 0.1 percent sulfur
- Ways to comply:
 - Blend fuels
 - Scrubbers
 - New fuels
- One solution:
 - LNG ships and tugs
 - Shore side distribution facilities
- Is this a blessing in disguise?





The Future of American Marine Highways

