



*CargoWay*TM Heavy Cargo Shipment



**Near-term Solution to Railroad Congestion
& Heavy Truck Traffic Problems**

ROAM Transport Systems, Fort Worth, Texas

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U.S. PATS. 6,039,135, 6,401,625, 6,435,100, 6,615,740, 6,742,458, 6,834,595, 6,837,167, & 7,926,425 B2
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The Heavy Truck Problem

The Highway Disaster

<u>Parameter</u>	<u>Large trucks</u>	<u>Cars</u>	<u>Ratio</u>
• Max weight	80,000+	5,000	16 : 1
• Road wear			99+ : 1
• Lane space	120 ft	66 ft	1.8 : 1
• Miles/gallon	4	28	7 : 1
• Clear accident	6+ hrs	1/2 hr	12+ : 1

Large trucks produce:

- Much of the **air pollution** – High fuel use and no limits
- Much of the **road congestion** – Large numbers & size
- Most of the **highway wear & tear**
- Most of the **long accident traffic delays**

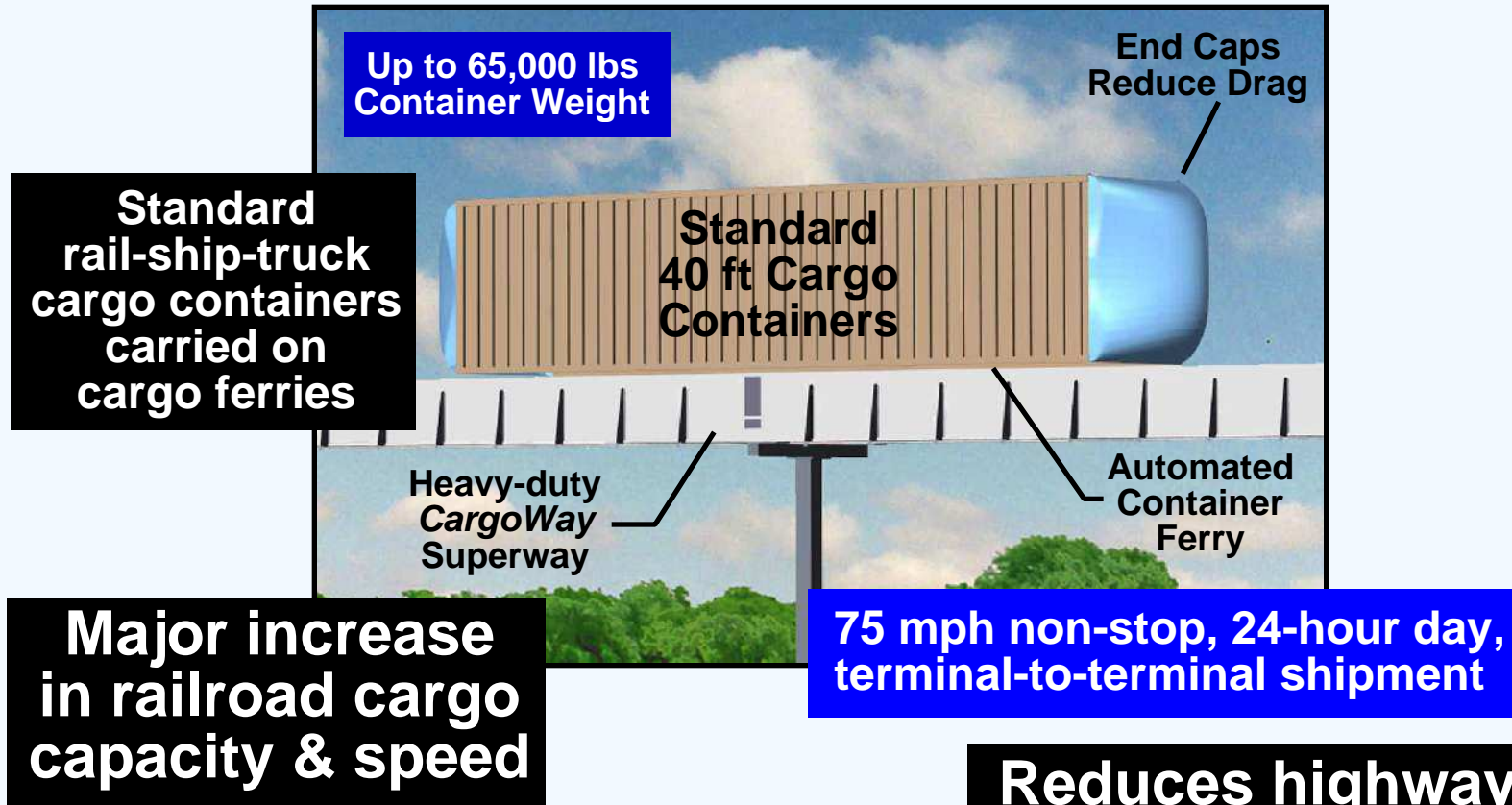
The Major Railroad Problems

Increasing difficulty handling traffic load

- **Single track** on many major lines – *Serious limit!*
 - Delays waiting for oncoming trains
- Many lines not adequate for high speeds
- *Yard delays* – **Moving cars between trains is slow!**
- Low average freight speeds – *15 mph typical*
- *High road maintenance cost*
- Frequent crossing accidents – **Increasing with traffic**
- Increasing *truck competition* – **Shorter transit times**

CargoWay™ Heavy Cargo System

Heavy-duty lines for busy cargo routes



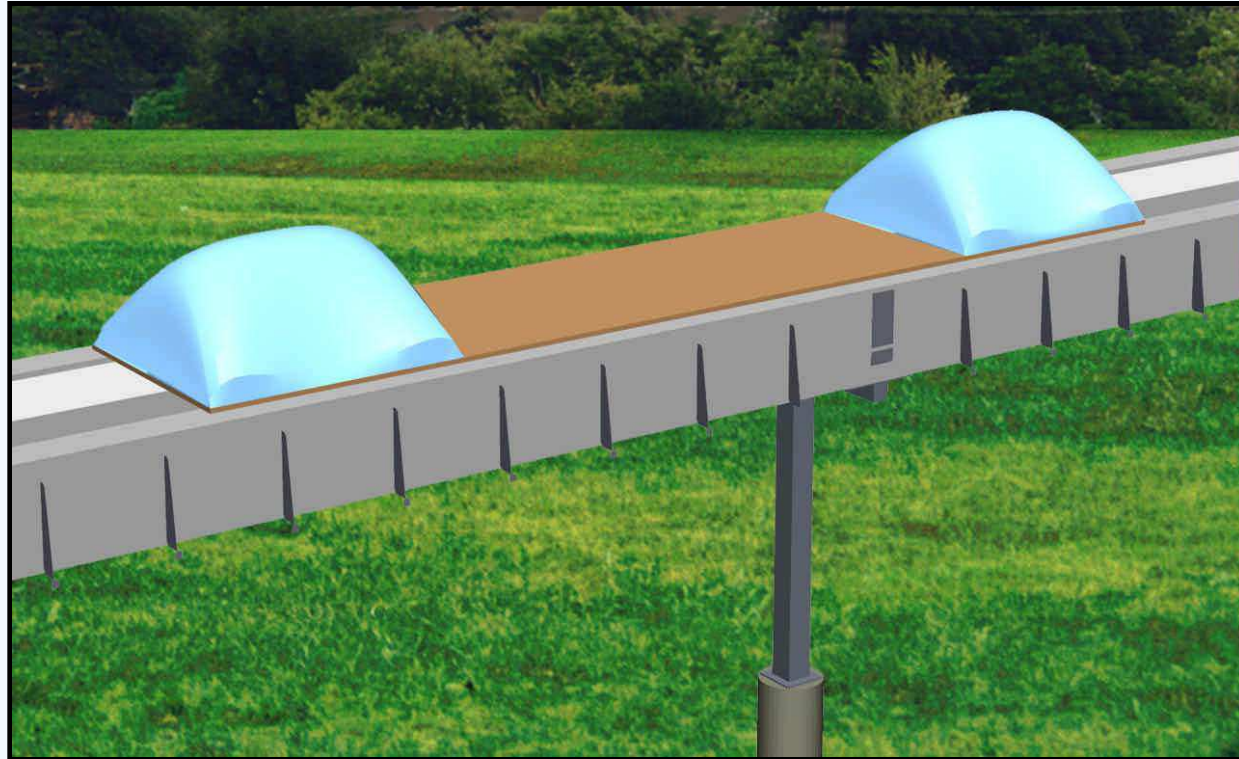
- Local container delivery on trucks
- Over 5,000 containers/hour/direction

Reduces highway heavy truck traffic

U.S. Pat. 6,615,740

CargoWay™ Empty Container Carrier

Container carriers deadhead in low drag configuration

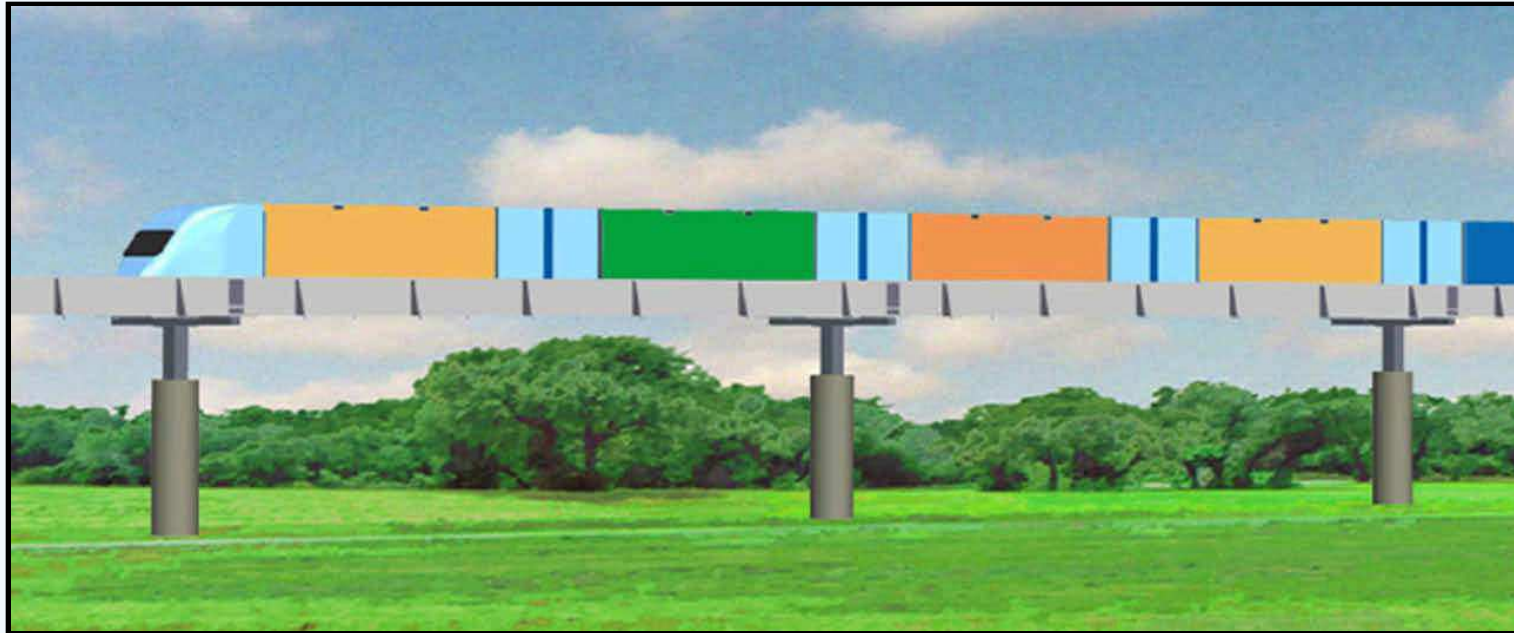


End fairings fold downward for reduced wind resistance when empty for low energy use

U.S. Pat. 6,615,740

CargoWay™ Manually-controlled Trains

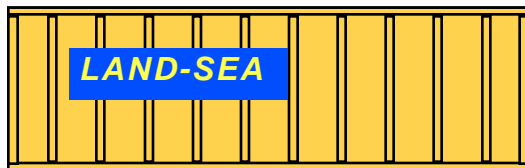
Special container carrier version allows coupling into trains



- **Coupled trains operate in same manner as railroad trains except for train based switching**
- **Carriers may be moved under own power by remote control in yards for fast train to train movements**

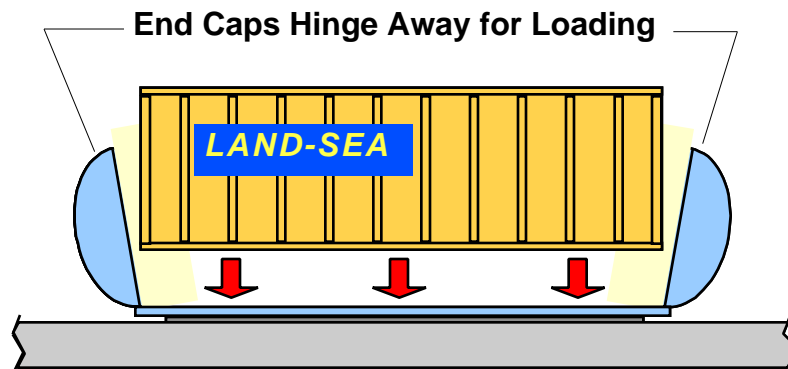
CargoWay™ Ferry Loading

Fast Loading of Standard Containers

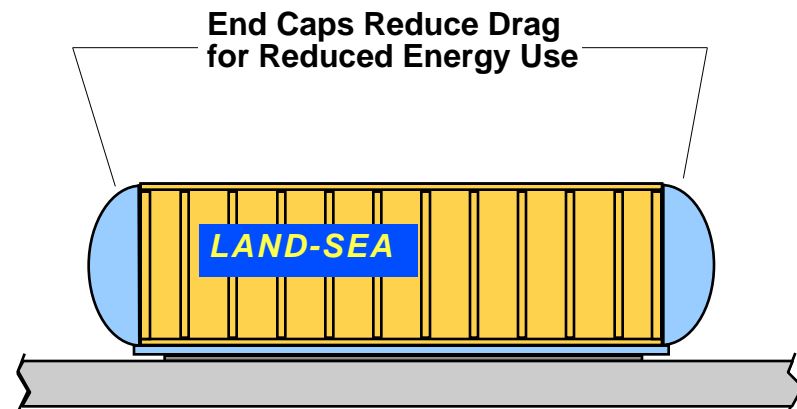


Standard land-sea cargo container

- Standard land-sea cargo containers are easily loaded



Cargo containers loaded onto ferry

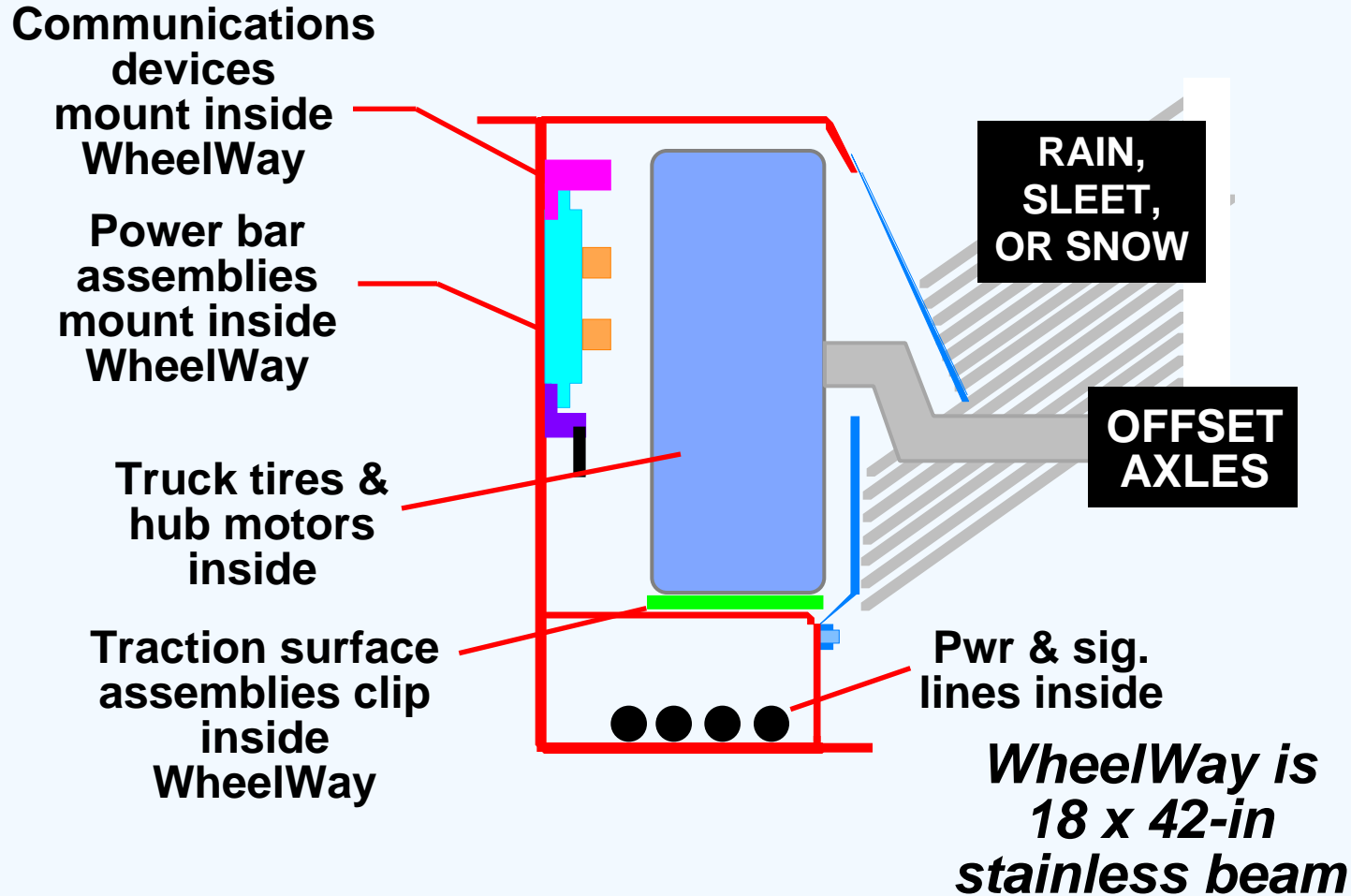


Loaded ferry on guideway

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Unique *CargoWay*TM *WheelWay*TM

Simple, light-weight design assures low cost



Factory-built components enable rapid installation

Small, *Low Cost*, *Factory-built SuperWay*

Fast, bolt in place installation

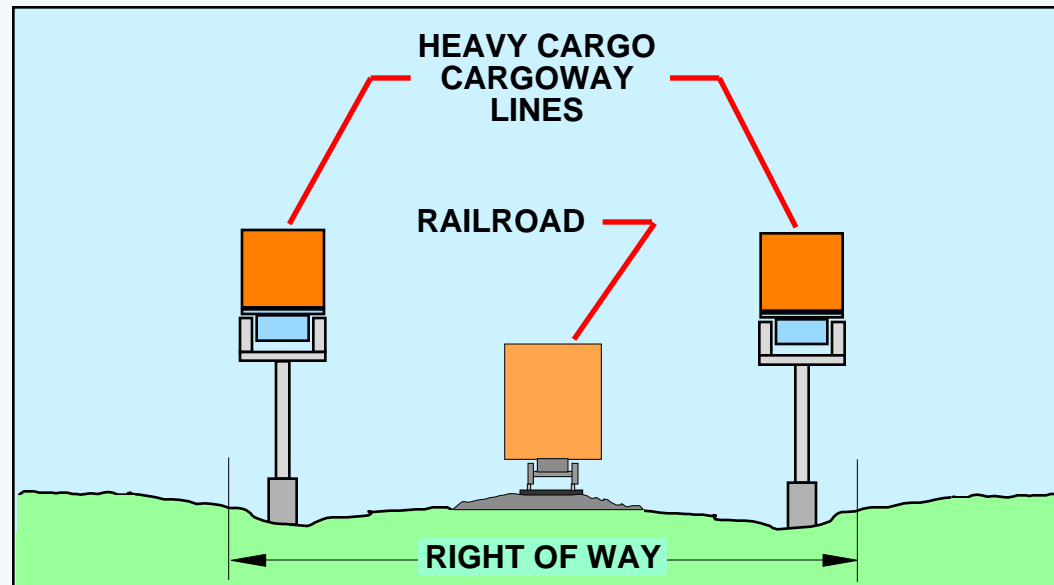


Ultralight *SuperWay* cross-section

Cost — 20% of elevated railway or freeway lane

- Uses highway/street right-of-way
- Mass-produced, factory-built sections – Fast on-site assembly
- No more land used & earth moving projects
- Light weight – Vehicles only 5% of typical railcar or truck weight

CargoWay™ along Railway



- Use current right of way
- Away from highway traffic
- **Minimum railroad disruption for installation**
 - Rapid installation of factory-built guideway
 - Concrete piers - **only on-site construction**

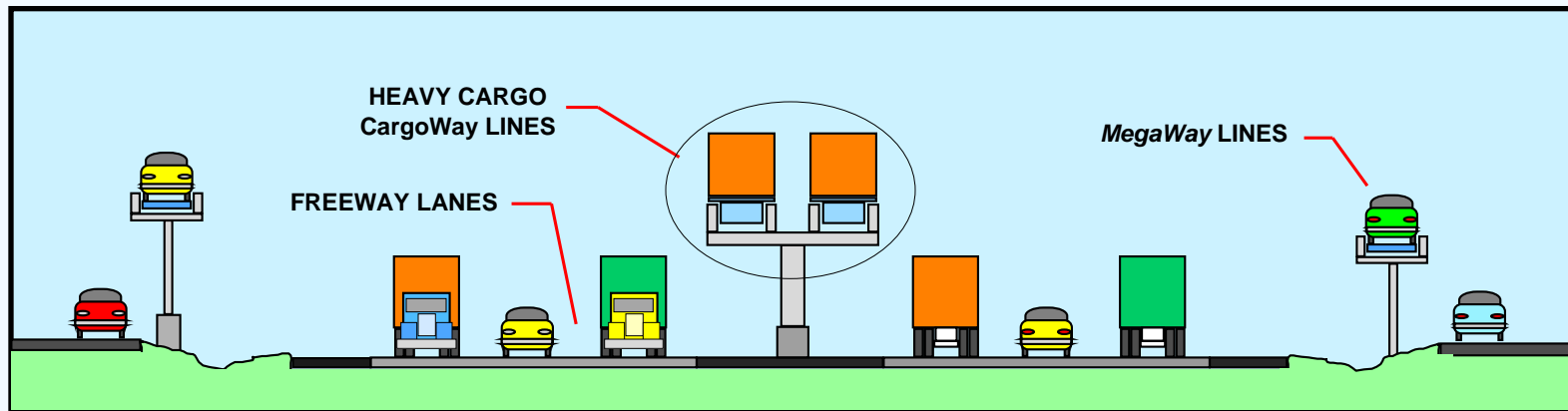
CargoWay[™] is great for railroads

ROWs Generate Major Added Revenue

- **Major increase in railroad speed & capacity**
- **Railroad ROW use increased**
 - **Could become primary source of future revenue**
 - **Does not compete with low-speed rail cargo business**
- **No interference with current railroad operations**
- **Offers speeds railroads unable to provide**

Installation along Freeway

Heavy Cargo Lines at Freeway Center Median



- Uses highway right of way
- **Minimum traffic disruption for installation**
 - Rapid installation of factory-built parts
 - Concrete piers - **only on-site construction**

Ultimate Objectives

- **Wide line network** - Parallel major highway routes
- **Decongest railroads & *provide high-speed service***
- **Reduce heavy truck highway use**
- **Increase cargo transport speed** - *Non-stop!*
- **Reduce road maintenance & construction costs**
- **Improve highway safety & speed traffic flow**
- ***Reduce shipping costs***

CargoWay™ Major Benefits

Solve critical truck, railroad & port problems

- **Decongest traffic-clogged railroads**
- **Increase highway & railroad capacity**
- **Ultimately remove some large trucks from highways**
- **Fast heavy cargo shipment aids economy**
- **Reduce major air pollution source**
- **Decrease highway & railroad maintenance**
- **Improve highway safety & reduce traffic delays**
- **Increase port capacity without costly expansions**

All this with one single step!

CargoWay™ Capability, Cost & Schedule

Separate Lines Carry Heavy Cargo

- **Heavy-duty lines** - Can parallel high-speed **MegaWay™** lines
- **Passengers & high-speed cargo** use **MegaWay**
- **Ferries** load and unload at container terminals
- **Container trucks** used for local container handling
- **CargoWay** capacity - Over 5,000 containers / hour / direction
- **Cost - Comparable to conventional rail line**
- **Initial operational capability – 42 months!**



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Revolutionary, High-speed, Multi-user
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- *Unprecedented* level of service
- Low transportation user costs

**Near-term & affordable solution to
traffic & air pollution problems**

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