

The *MegaRail*® Cargo Story



Low-cost, ultralight electrified guideway along highway ROW Initial manual control train service

120-mph *MegaRail* removes most pavement-busting, heavy trucks from highways & speeds commerce

U.S. PATS. 6,039,135, 6,401,625, 6,435,100, 6,615,740, 6,742,458, 6,834,595 & 6,837,167

MegaRail® Transportation Systems, Inc.
Fort Worth, Texas

Heavy Truck Highway Impacts

- **80,000-lbs plus weight – Over two tons per tire**
 - Concentrates load on small areas thus breaking pavement
 - Cause ruts in asphalt pavement in hot weather
 - Even small tire balance problems hammer pavement
 - Heavy stress shortens bridge beam & connector life
- **Truck collisions can destroy bridge columns**
- **Major factor in congestion & accidents**
 - Large stopping distances & slow acceleration
 - Easy to jackknife on slick pavement – Hours to reopen roads

Single truck – more damage than 1,000 cars

***MegaRail* can Carry All Box Truck Cargo**

- **Cargo in boxes, barrels, crates, bags, etc.**
- **Most cargo stacked on standard shipping pallets**
 - Often fully wrapped with plastic wrapping
- **Most cargo pallets & crates – forklift compatible**
- **Typically loaded into truck trailers with forklifts**

Truck average speed – 55 to 60-mph

Initial **120-mph MegaRail** Container Trains



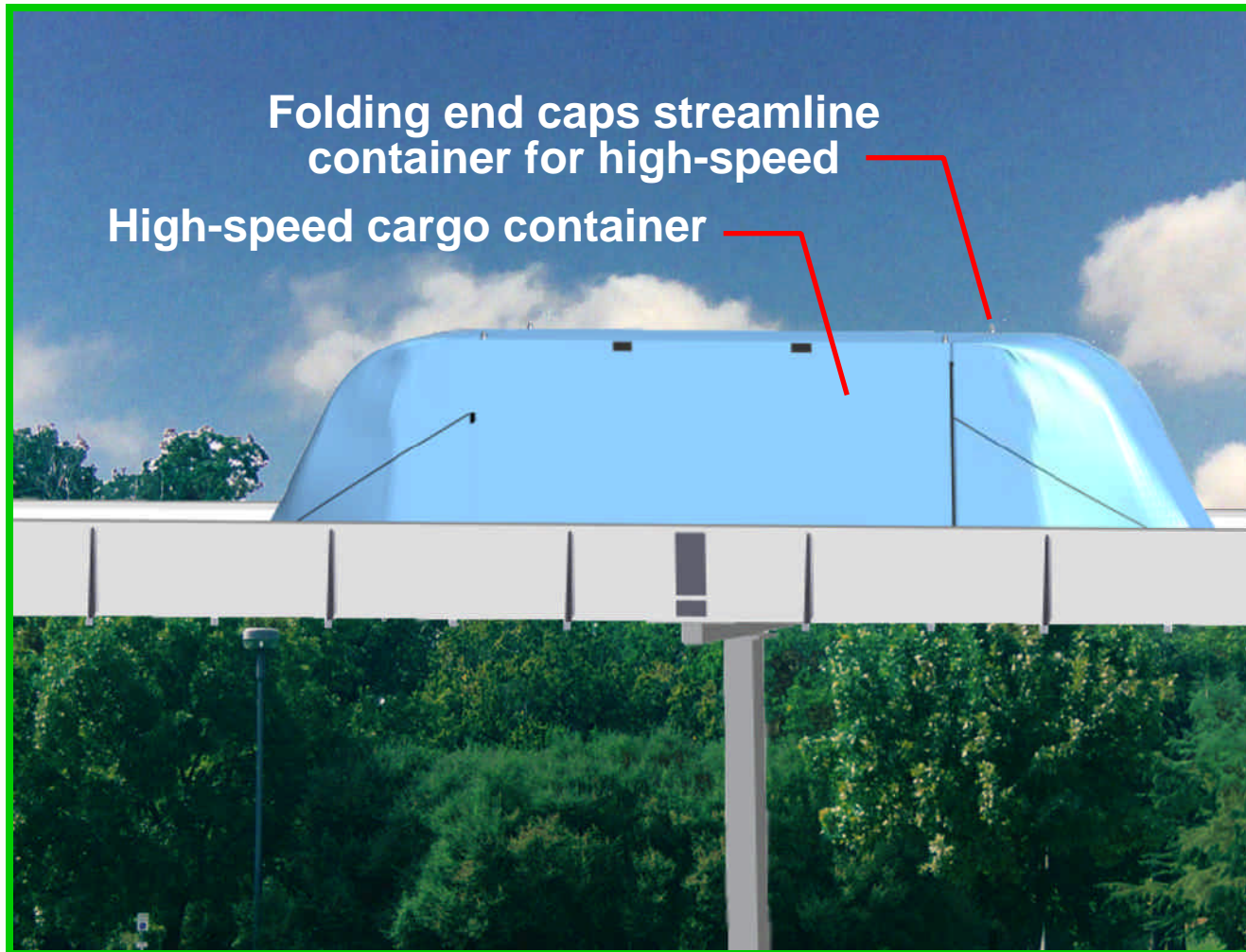
Non-stop terminal to terminal train service

Transports **most current heavy truck cargo**

Manually-controlled trains

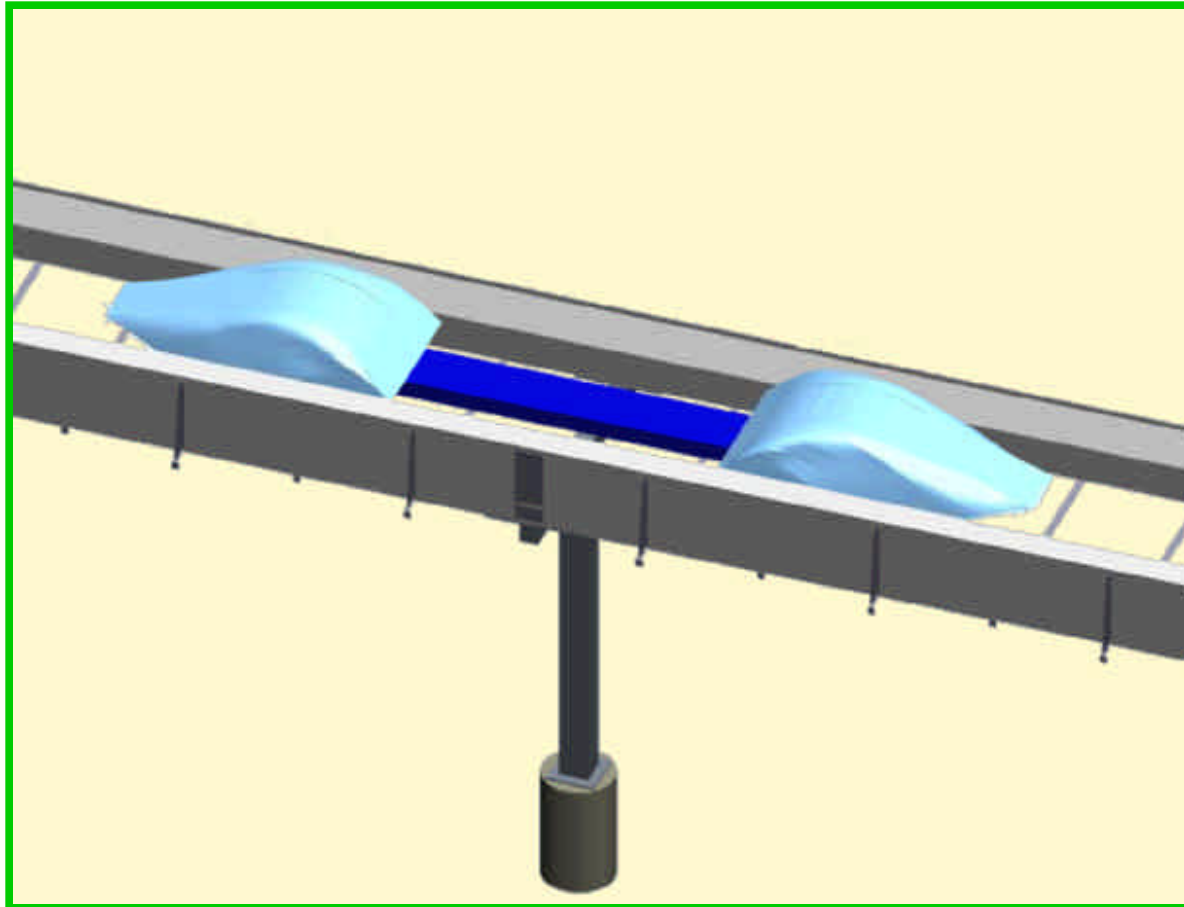
Cuts Truck Traffic, Pavement Damage, Pollution & Noise

Later Single Automated *MegaRail* Carrier



MegaRail High-speed Cargo Container on Guideway
(Non-stop terminal to terminal transport)

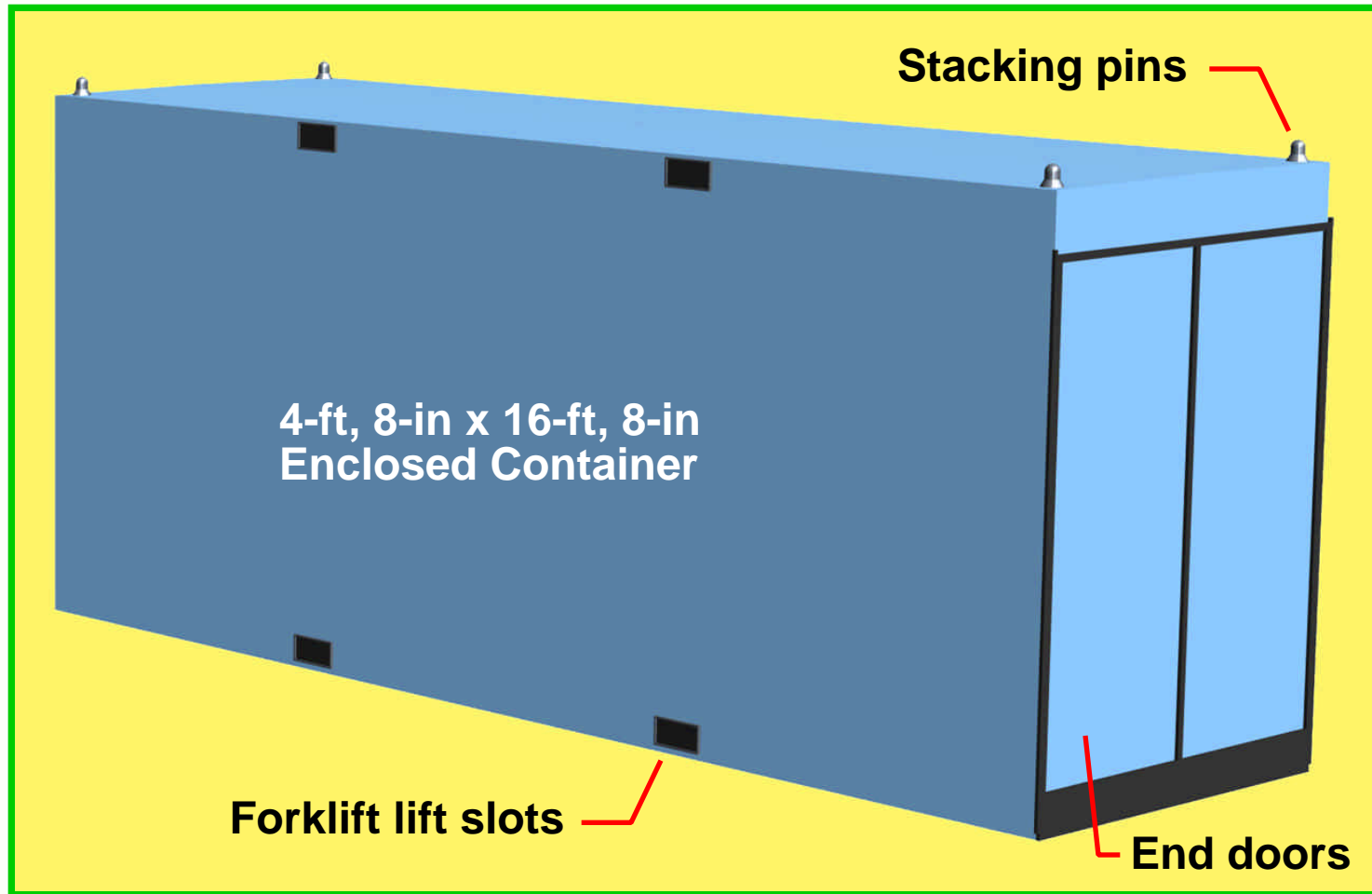
Empty *MegaRail* Carrier is Low Drag



End Caps Fold Down for Minimum Drag

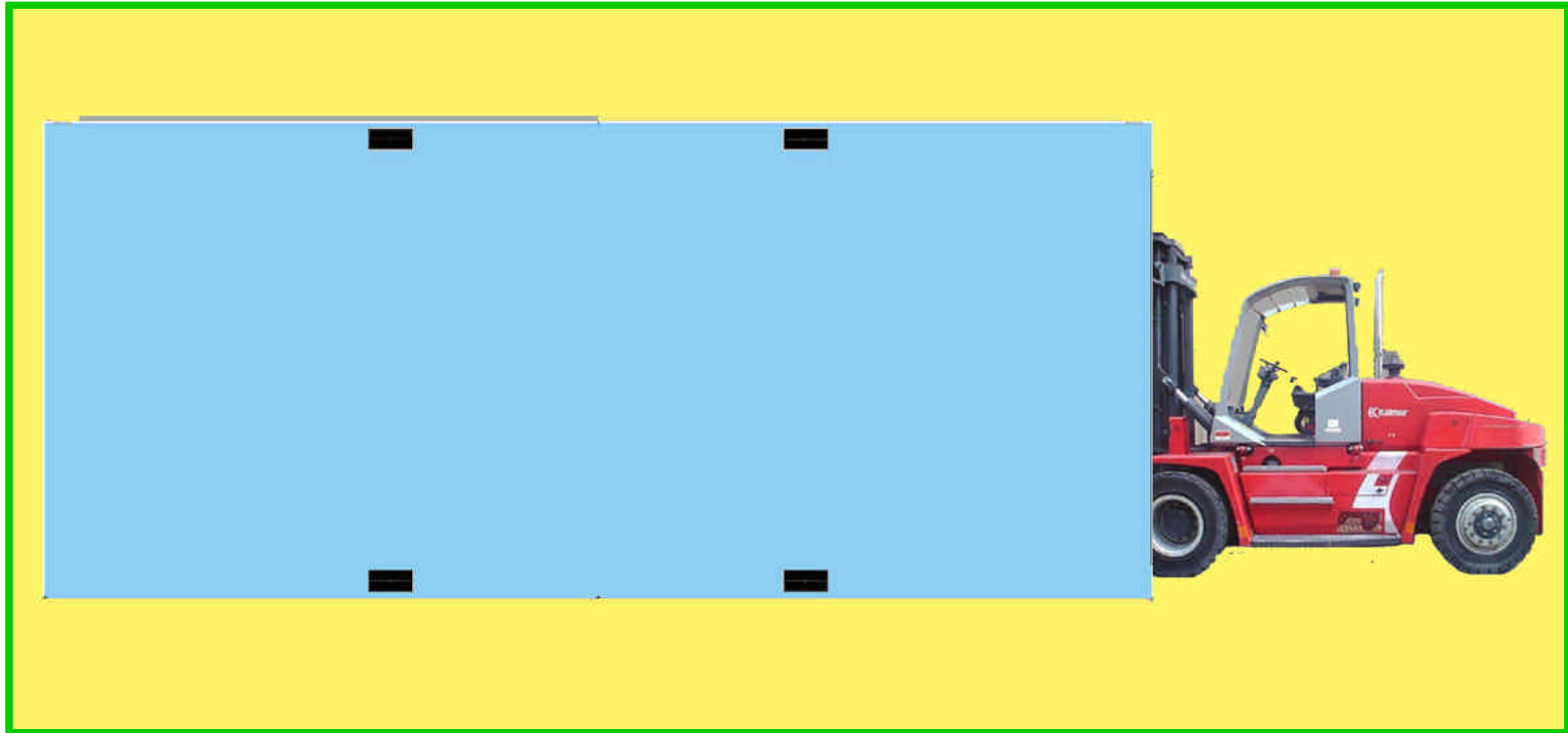
Major reduction in electric power use

MegaRail High-speed Cargo Container



Three-Ton Capacity per Container

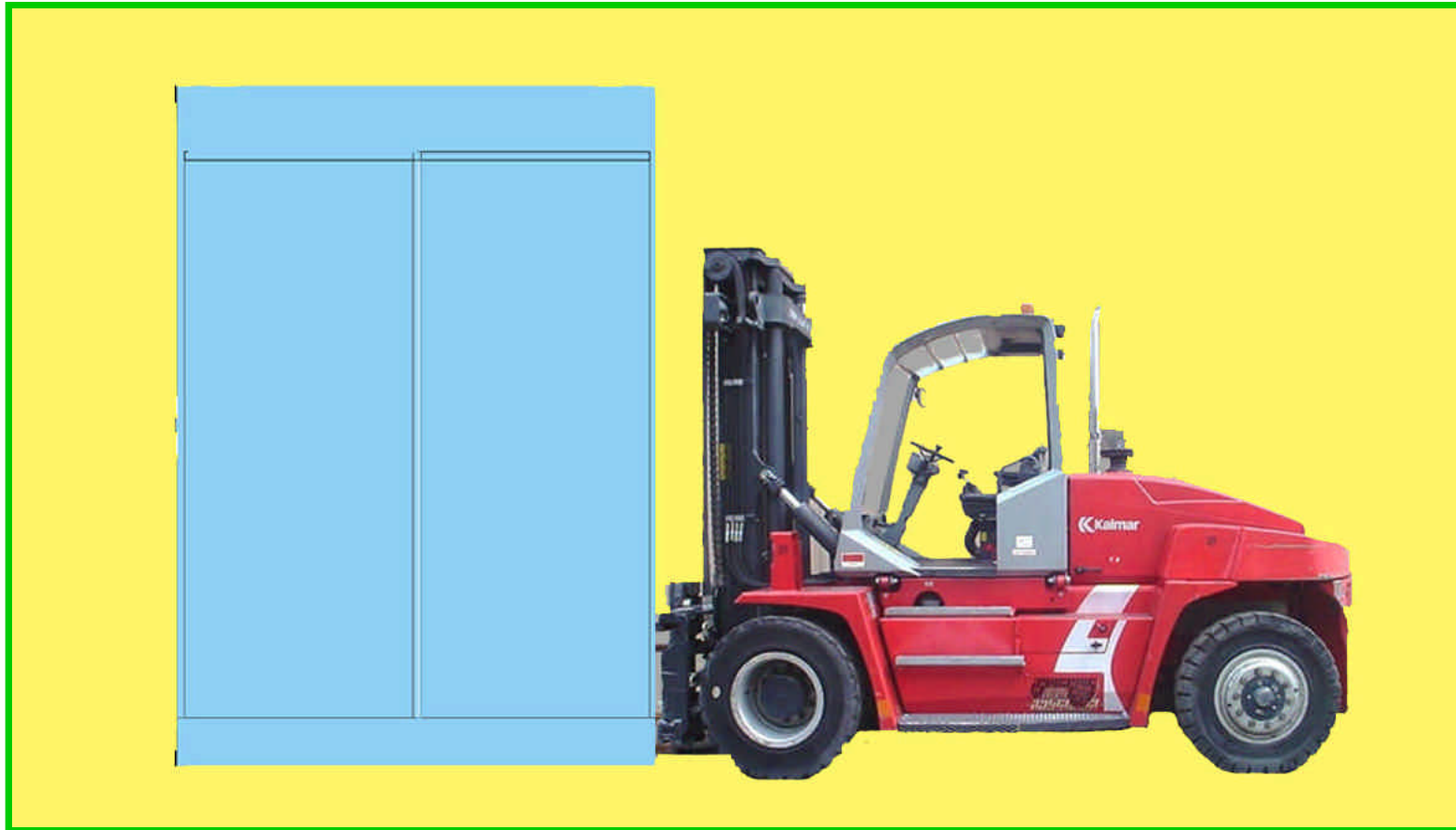
Easy Load/Unload of *MegaRail* Containers



Cargo Pallet Load/Unload by Standard Forklifts
Forklifts drive into & out of containers

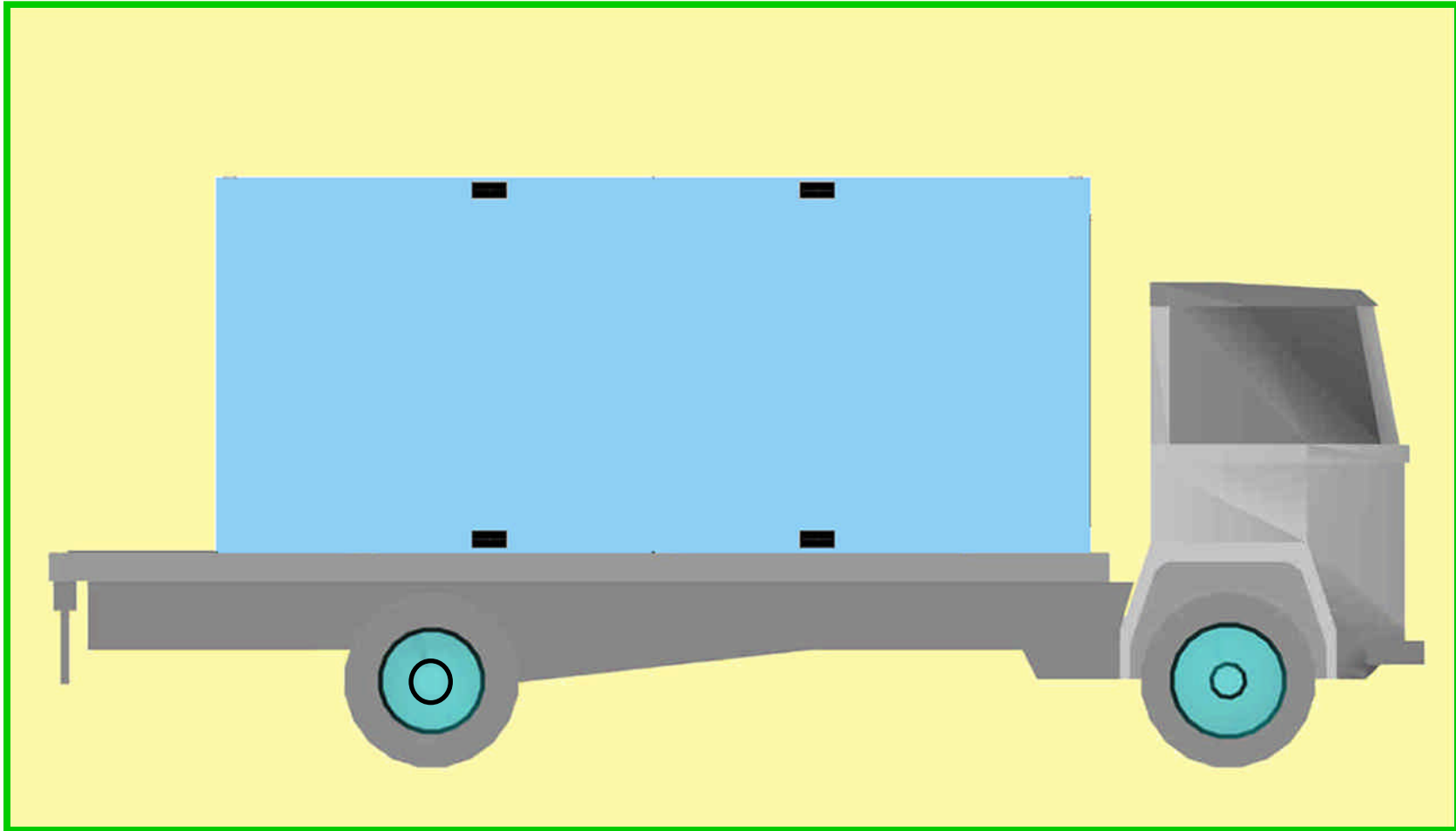
MegaRail Containers Handled by Forklift

Carrier loading with overhead lifts



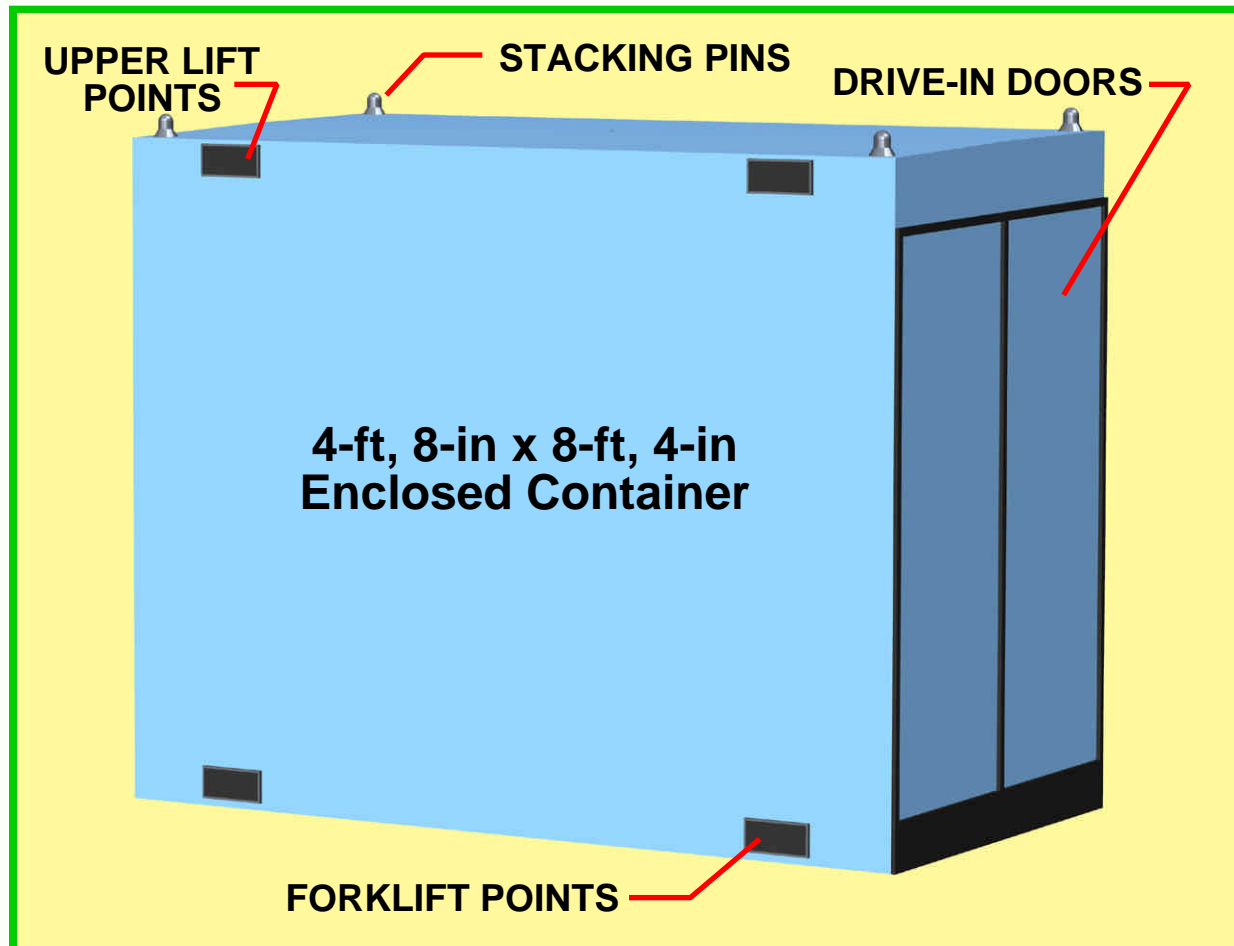
Loaded or Empty Containers Easy to Move on Dock

***MegaRail* High-speed Container on Truck**



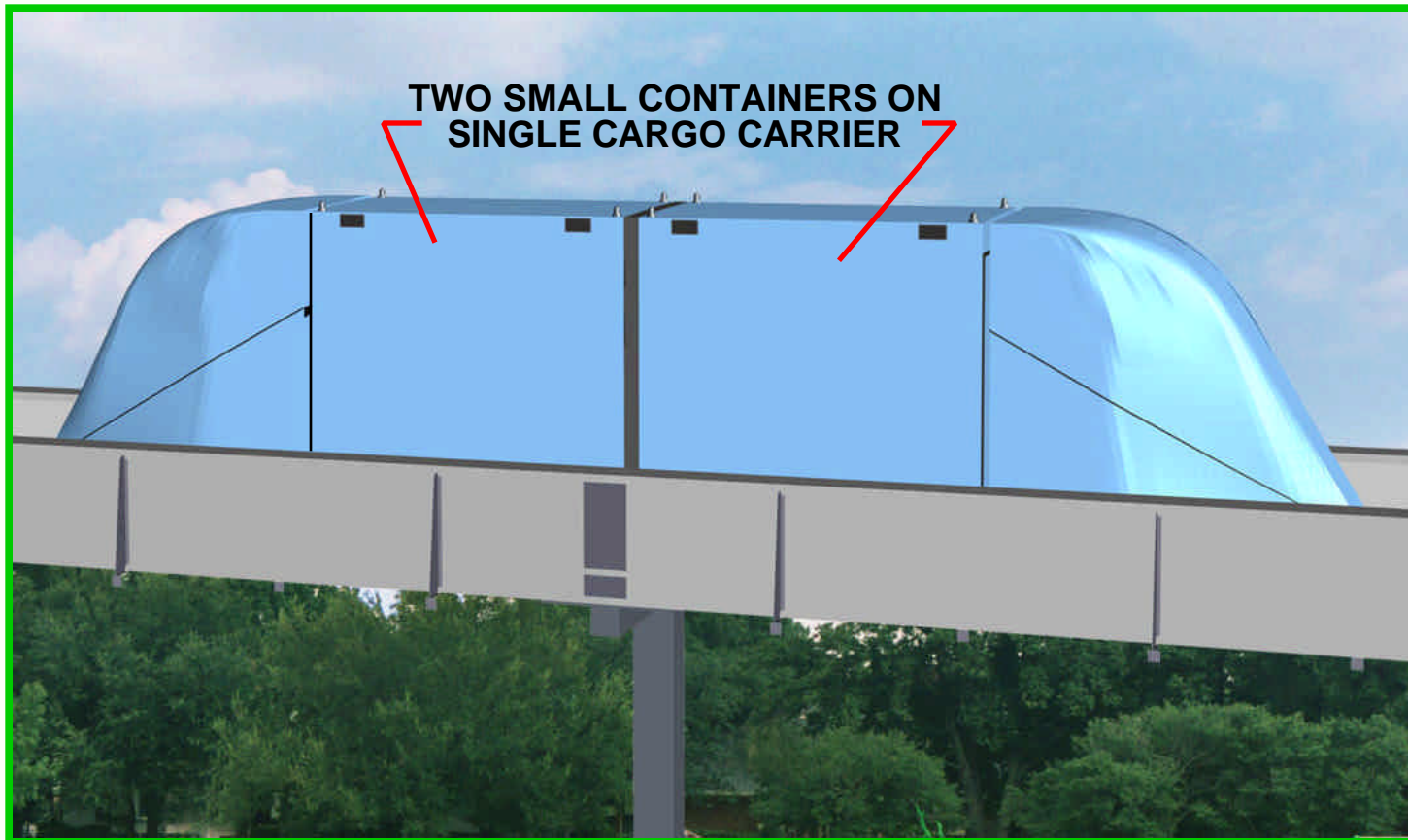
**Containers moved on trucks for local transport
Loaded/unloaded by standard forklifts**

MegaRail Half-size Container Option



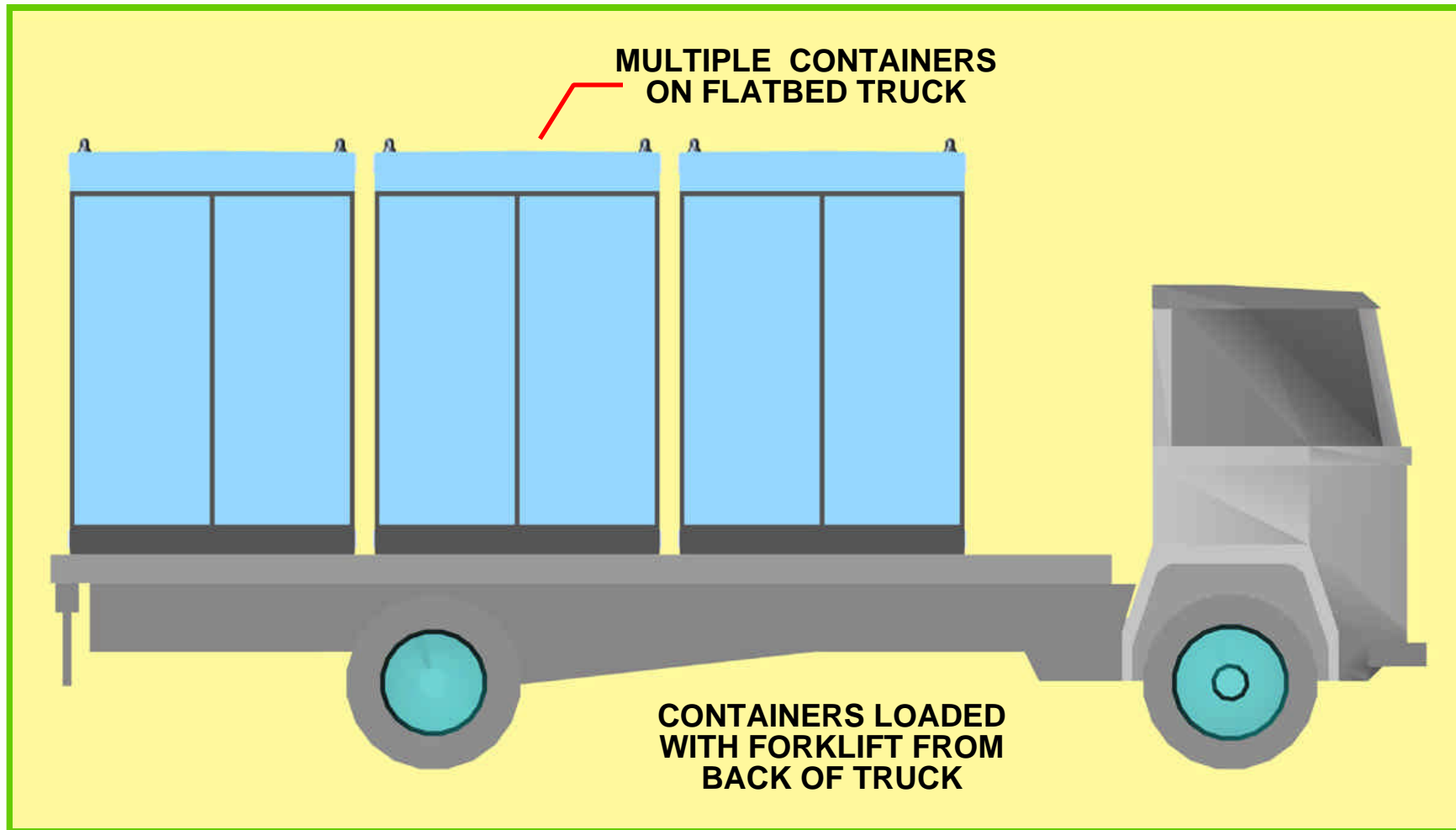
One & one-half-ton per container

MegaRail Carrier with Half Containers



Each container = 1-1/2-tons for 3 tons total

MegaRail Half-size Containers on Truck



Containers moved on trucks for local transport
Half-size containers – 1-1/2-ton capacity

Cargo Carriers Designed for Low Cost

Lightweight Design & Ease of Maintenance

- **Systems in lower chassis unit for access ease**
- **All metal parts cut by robot plasma & laser cutters**
- **Most raw material is flat stainless-steel**
- **Entire structure of welded stainless sheet**
- **Empty carrier weight – 1,200 pounds**
- **Low complexity control systems**

Carriers are light weight & low cost

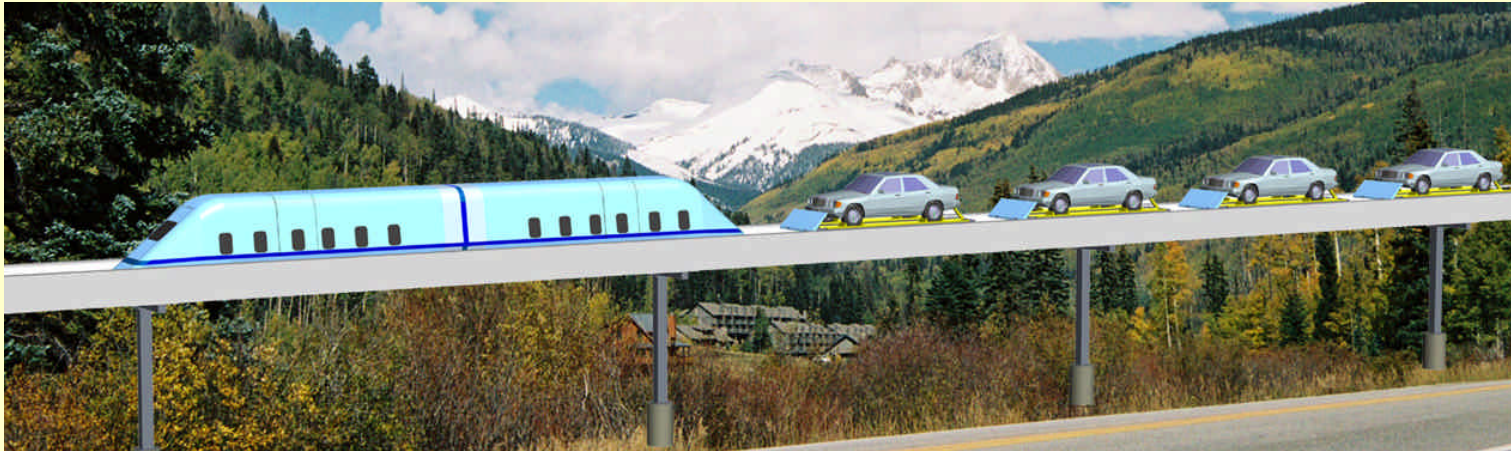
MegaRail High-speed Cargo Capacity

Greater Capacity than a Six Lane Freeway

- Cargo moves at **120-mph** speed – **Not 55-mph!**
- No traffic jams or delays – 24 hours per day
- Max cargo capacity calculation: (per direction)
 - Carriers spaced at 50-ft intervals = 105 vehicles/mi
 - 105 containers/mi x 120-mph x 3-tons = 37,800 tons/hr
 - 37,800 tons/hr x 24-hrs = **907,000 tons/day** = **22,000 trucks**
- Plenty of space for high-speed passenger service

Plus the freeways remain available!

Guideway Shared by Cargo & Passengers



Passengers use luxurious *SkyCoaches* for long trips – Cars ride behind

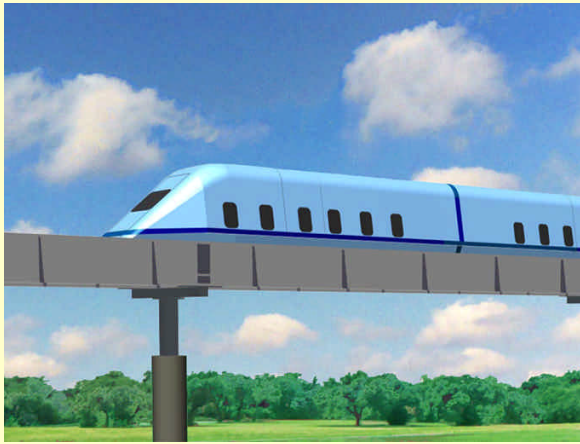
Cuts Truck Traffic, Pollution & Noise



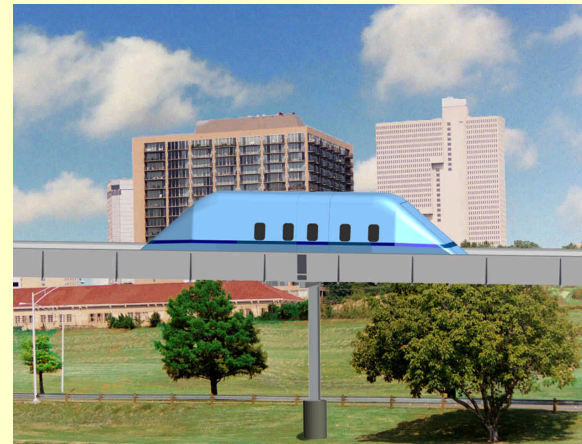
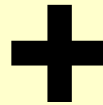
Cargo moves in three-ton containers with low-drag fairings

Ultimate Multi-mode **120-mph** Transport

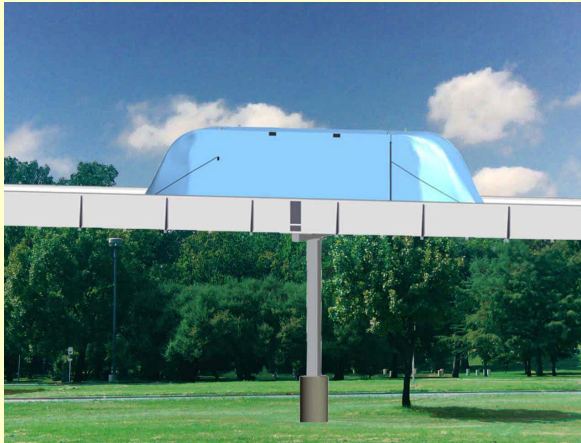
Desired high-speed rail plus other high-value services



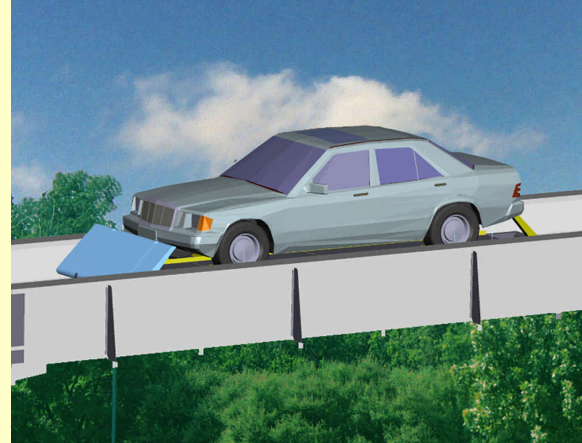
120-mph passenger train



120-mph group transport



120-mph cargo transport



120-mph carferry service

Future growth to single **automated** cars – **Three to four years**

Ultimate Cargo & Passenger Service

- Cargo and passengers – **Non-stop at 120-mph!**
- More capacity than costly, new 6-lane tollways
- Ultra smooth cargo and passenger ride
- **All electric power – No diesel air pollution!**
- No need for costly high-speed rail + **shorter trips**
- **Noise-free & minimum environment impact!**

Average trip speed – 120-mph



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