

Self-funding Commuter Rail That Really Works

A plan that really takes cars off the roads! Low Cost Low Tech Low Fisk

MegaRail_® Transportation Systems, Inc.

Fort Worth, Texas

U.S. PATS. 6,039,135, 6,401.625, 6,435,100. 6,615,740, 6,742,458, 6,834,595 & 6,837,167 **OTHER U.S. & INTERNATIONAL PATENTS PENDING**

® Reg. U.S. Pat. & Tm. Off.

MegaRail CarTrain[™]



Typical Commuter Rail Plans

Use existent railroad lines

Routes limited to existent railways

Railways rarely follow real commuter routes

- Hence Trains carry small portion of commuters
- **Result** Systems provide negligible traffic reduction

Systems involve very high costs! Taxpayers pick up the tab



Current Rail Lines are a Problem

Most railroad lines used for freight

Railroads reluctant to accept passenger trains

- Most lines far below passenger standards High upgrade cost
- Liability issues Railroad attitude "Freight never sues"



Commuter Rail Plan Flaws

- Based on available rail routes
- Not based on user trip start and end points!
- CAN'T SOLVE "LAST MILE" PROBLEM!
 - Move less than 2% of people Most continue driving!
- Result Roads remain totally congested!

Must have lower cost, more effective planl



Conventional Rail Cost & Time Problems

High cost – \$40 M / mi (Single track) – Includes rail line cost Typically 25% Federal – 75% local funds Old freight lines – Very costly to upgrade for passengers

High O&M COStS – 15 - 20% from fare box – Balance from taxes Example – 35-mi D/W TRE 2006 subsidy – \$6.45 per passenger

Must negotiate train time slots with railroads* Difficult to impossible task – (Railroads congested with freight)

Long wait for Federal funds – Often 6 to 12 years

* Even if you own the lines you can't actually prohibit freight use



MegaRail – Self-funding Alternate that Works

- Elevated steel guideway over any public right of way
 - Electrically-powered Low pollution
 - Rubber-tired wheels in enclosed rail tubes
 - Silent service Up and down hills
 - All-weather service
- Low-cost guideway
- Small, separated rail tubes for low visual obstruction
- Little new right of way Minimum land use
- Serves ALL users TAKES TRAFFIC OFF ROADS!



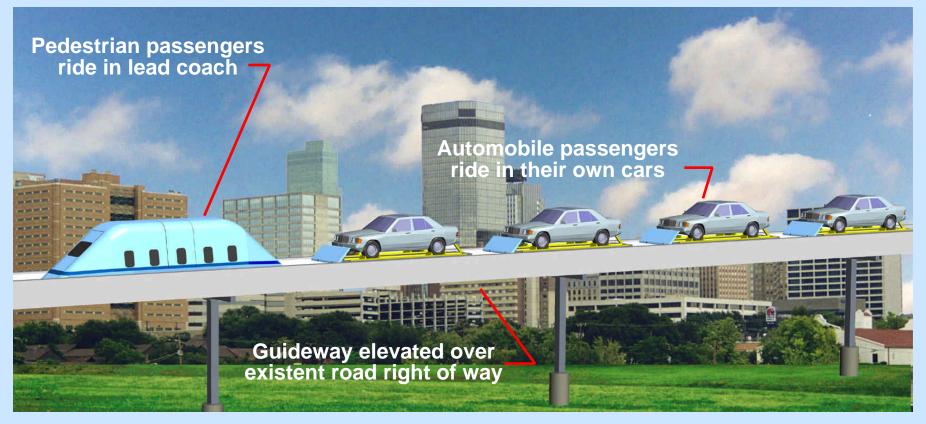
Minimum sky blockage - No wide elevated conventional train shadows

View looking upward through guideway U.S. Patent 6,837,167

Low risk – Current, proven technology!



Ultralight Commuter *MegaRail CarTrain*[™] Fast service in your car or in train coach at low cost



Ultralight *MegaRail* commuter *CarTrain* on elevated guideway *Skycoach*[™] & *CarFerries*[™] in single train Automobile passengers never leave their car for entire commute!



High Performance

High-speed – 85-mph – Short trip times!

- People travel in their cars Few in train coaches!
- High line capacity With full dual-track system
 - Up to 3,570 automobiles phpd (400-ft stations & 16-car trains) Plus up to 2,856 pphpd in train coaches
- Off-line stations for both local and express trains

Grade-separated – Small, factory-built steel guideways

Go-anywhere (Including up hills) – Cars use rubber tires

Cost less than driving the same distance!



MegaRail – Low Cost, Self-funding System

Example – 200-mile, dual-track system

- Elevated dual guideway @ \$6.1 M/mile \$2.4 B (Installed)
 - Stations at each 5-mi @ \$1.0M \$0.8B
 - 100 16-car *CarTrains* @ \$4.0M \$0.4B
 - Maintenance facilities & support equipment \$0.05B

Total MegaRail cost for 200-mile dual-track system – \$3.7B

Complete dual-track system in 10 years!



Commuter MegaRail is Available NOW!

Guideway installation

- Guideway engineering Immediate start
- First production guideway sections deliver in 12 months
- **Train production (Prototype now operating)**
 - Production start within 12 months
 - Deliveries within 18 months

First service within 30 months – (Manual control)

No wait for extensive new development!

Routes based on trip origin and end points!



200-mi *MegaRail* System Summary

- MegaRail \$370M / yr (10 yrs) Without taxes!
 - Revenue covers all bond & O&M costs
- MegaRail guideway provides guideway for:
 - 85-mph automobile & passenger *CarTrains*
- MegaRail Attractive & SELF-FUNDING commuter system

 - 45% of heavy rail cost
 Use any public right of way

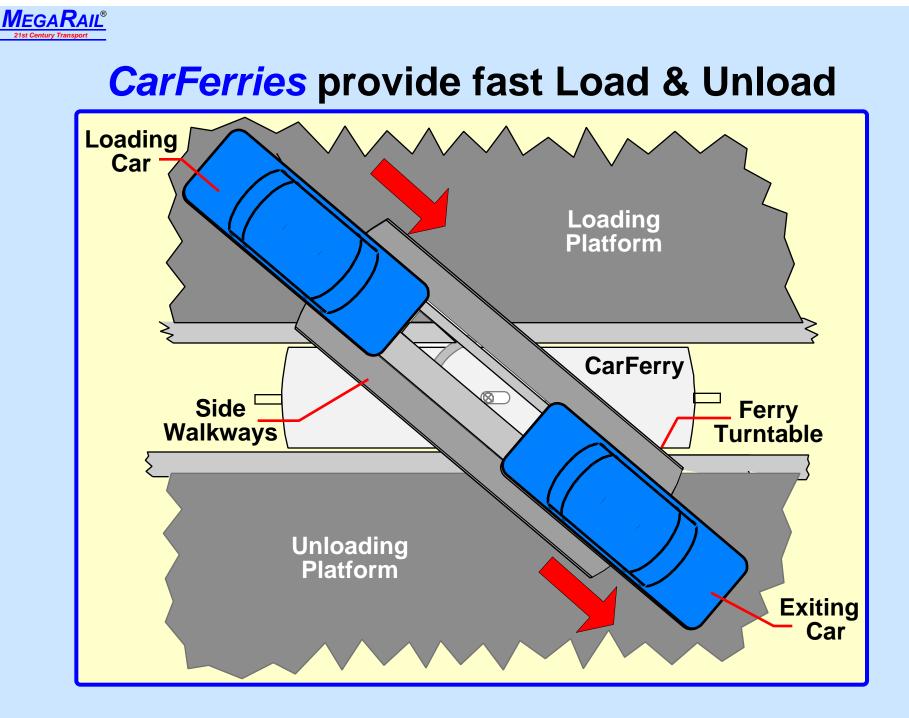
 - Environment friendly
 Increased service area

MegaRail service unloads freeways!

No conflicts with freight railroad line uses

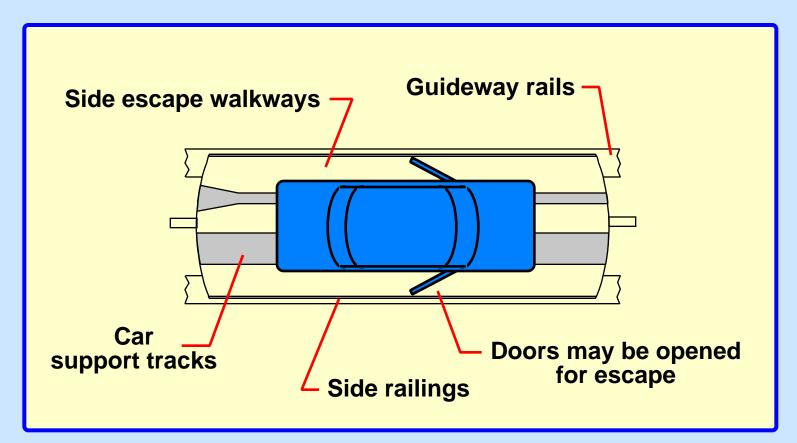


Commuter MegaRail Ultralight Rail Transport (URT) Advanced Design with Off-the-shelf Technology for Low Risk





Individual CarFerry Safety Features

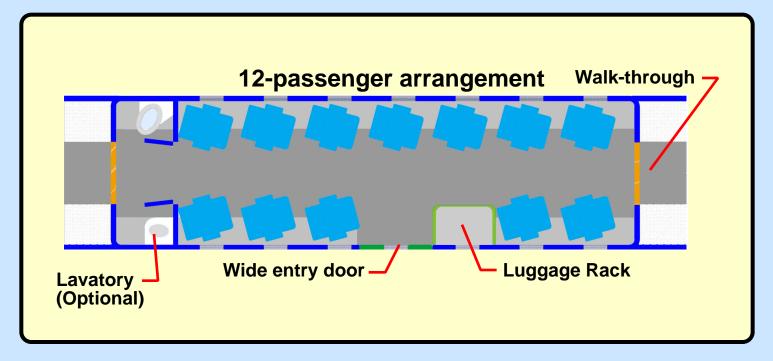


Ferry walkways enable passengers to access guideway center emergency walkways



SkyCoaches have Spacious Interiors

Large, comfortable seats – Wide center aisle



For traditional transit passenger use



Skycoaches offer Safe Escape

Unaided escape for all (including wheelchairs) without rescue personnel



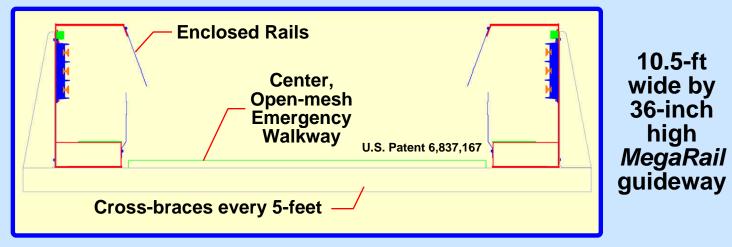
Covered electric rails

Upward view through walkway



Small, Low Cost, Factory-built Guideway

Fast, bolt in place installation



Guideway cross-section

- **Cost** 20% of heavy elevated mass transit guideway
 - Existent highway/street rights-of-way
 - Mass-produced, factory-built sections fast on-site assembly
 - No more land use & earth moving projects

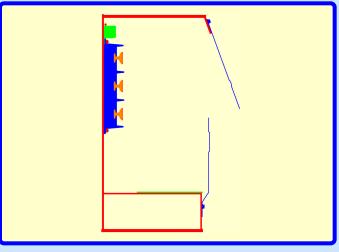
Low-cost, All-weather, Enclosed Rails

Low-cost guideway rails

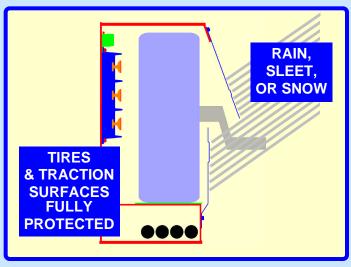
- Formed from flat stainless-steel
- Machine-welded construction
- Low material & labor costs
- Bolt-in electric power rails
- Trucked to installation site

• All-weather, enclosed rails

- Wheels & power collectors inside
- Protected electric power rails
- Dry & ice-free traction surfaces
- Safe operation in any weather



Single guideway rail cross-sections





Technology Summary

Unique new combination of off-the-shelf, proven technology

Enclosed stainless-steel guideway rails - US Pat. 6,039,135

- Simple welded steel factory fabrication
- Standard electrical power rails

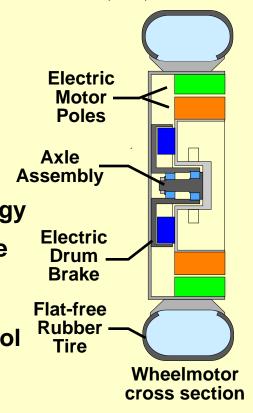
Flat-free tires – Current car tire technology

Permanent-magnet electric motors

- Current commercial brushless-motor technology
- Electric motor wheels current electric car use

Car-based steering & switching

- Automobile-type steering with electronic control
- Switching No moving rails Done by cars!



Only the combination & guideway are new!

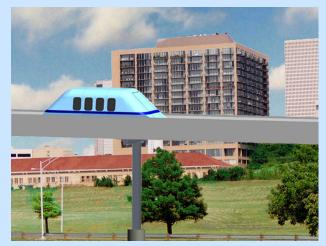


Future Automated Single Cars

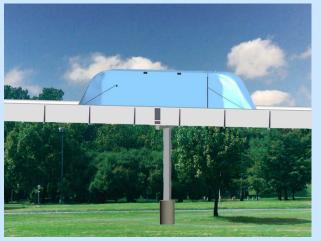
Available within 48 months



Automated *MegaLiner*™ for 24-hr, 7-day & increased service



Automated *PrivateLine*r™ 24-hr, 7-day high-speed rail private car service



Automated CargoContainer™ for direct terminal to terminal container shipment



Automated *CarFerry*™ high-speed rail service in personal automobile



Commuter MegaRail CarTrain Summary

Performance – Far superior to any other system

- Seamless commute for automobile users No last mile problem
- Major reduction in road traffic Bus-type hill capability

Start first service – Within 30 months!

Shorter time than for any other system - No funding delays

Total system cost – Far less than other rail plans

Local revenue bond funding and control
 No tax subsidies

Environment friendly – Noise free operation

- No construction impacts to business or street traffic
- No earth moving Removes cars from freeways!

MegaRail - The 21st Century Commuter Rail Available NOW





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Revolutionary, High-speed, Multi-user 21st Century Transport! offers -

- Unprecedented level of service
- Low transportation user costs

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