



MegaRail Transportation Systems, Inc. Fort Worth, Texas

MegaRail, Superway, CarLiner, CarFerry, SkyCoach, CargoLiner, WhisperLiner, MegaLiner, & Person Liner are trademarks of MegaRail Transportation Systems, Inc.

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.

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LRT/BRT & Streetcar Guideway Problems

Light rail is not light weight — Must support 149,000-lb cars

Heavy-duty bridge structures needed

Guideway — Railroad rails or dedicated BRT pavement lanes

Right of way — Dedicated 44-ft ROW needed can be needed

- 25-ft on city streets (Typical) Plus side trolley wire posts for LRT
- On-street lines often take two traffic lanes & interfere with traffic







Heavy-duty & costly structures Massive support columns

Multiple traffic lanes lost

Much lower cost, less intrusive answer needed

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Critical Cost & Time Impacts

LRT, BRT & Streetcar systems

High initial cost – \$30 to \$70 M / mile (us)

At-grade LRT - \$30 - \$70M/mi - (Avg. \$45M/mi)

BRT - \$2 TO \$25 M/mile

Streetcar systems slightly lower

(Typically \$16 - 40-M per lane-mile)

High O&M costs — 15 - 25% from fares - No Positive ROI

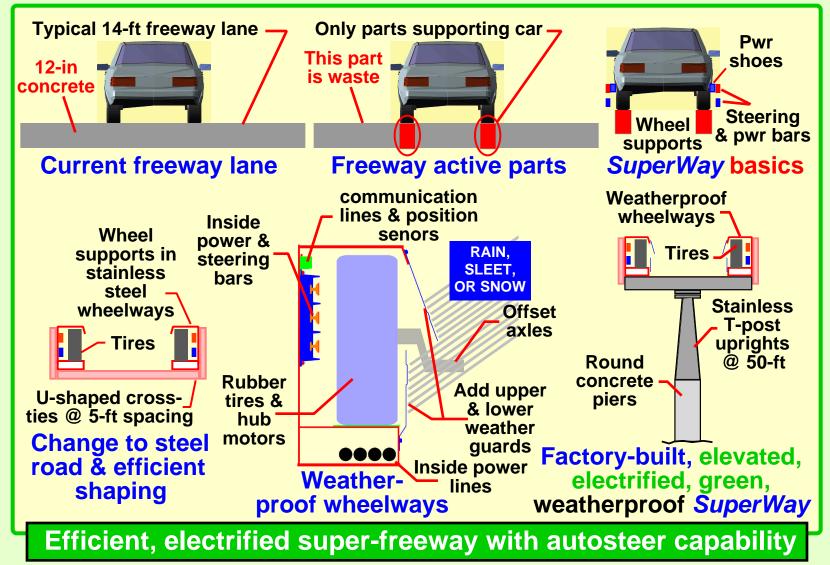
Long wait time – Often 6 to 12 years

- Heavy construction required
- Long and major traffic disruptions for installations

Federal money for any of the above – Hard to obtain!



Now The 21st Century SuperWay





SuperWay Urban Transport Solution

Real Solutions to Critical Problems

- Freeway & street congestion reduced
 - Reduced car traffic
 - Fewer slow buses to slow traffic
- Critical air pollution problems solved
 - System fueled by clean-burning natural gas!
- Sustainable urban transit can pay for itself
 - Up to 65-mph MicroWay public mass transit
 - 65-mph *MicroWay* electric *CarFerry*™ service
- Nothing added to impede traffic

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Micro Way™ Builds on What We Have

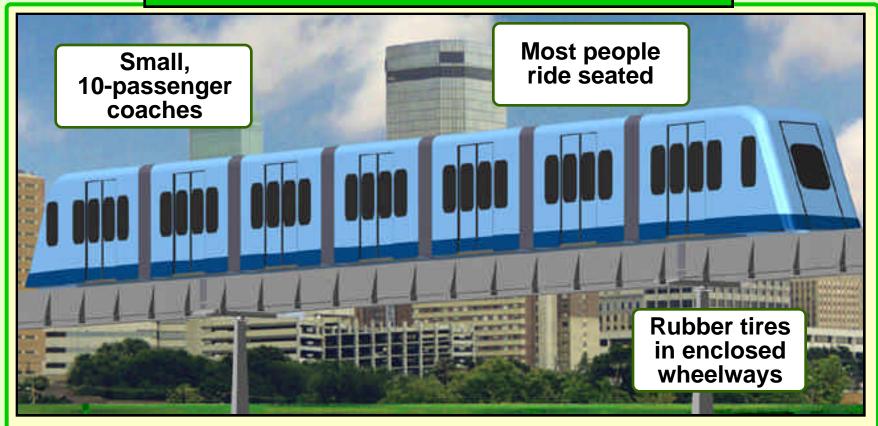
Easy Adoption by Public Users

- Elevated over street right of ways
 - No interference with current streets
- No new personal user vehicles needed
 - Low-cost public system equipment purchases
 - Little change in current travel methods
- Current & affordable technology
 - Easy, current production methods
 - Current installation & construction methods



Affordable 65-mph *MicroWay*™ *Mass Transit*

Ultralight, All Weather Multi-mode SuperWay



- Small, low-cost, low-maintenance, elevated *SuperWay*
- Silent & ultra-low air pollution Natural gas powered
- No added right of way, ground or street traffic lane impacts



MicroWay™ Skycoach™ mass transit service

MicroWay – Affordable mass transit

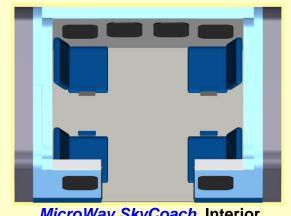
- Whisper-quiet smooth ride
- Most passengers seated
- Grade-separated for safety
- Safe, derail-proof design
- All-weather service
- 65-mph top speed



65-mph ultralight MicroWay transit train

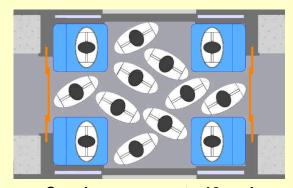
- Service in 42 months
- All-electric operation
- Use street right-of-way
- Ultra-low noise
- Motorman manual control
- Ultra-low 20% LRT cost
- 6X at-grade LRT capacity

MicroWay - Ultra-light, comfortable SkyCoaches



MicroWay SkyCoach Interior

- 3% LRT car weight
- Self-propelled
- Long-life stainless
- Rubber tires
- Air suspension
- Air conditioned
- 11- 13 pass. cars

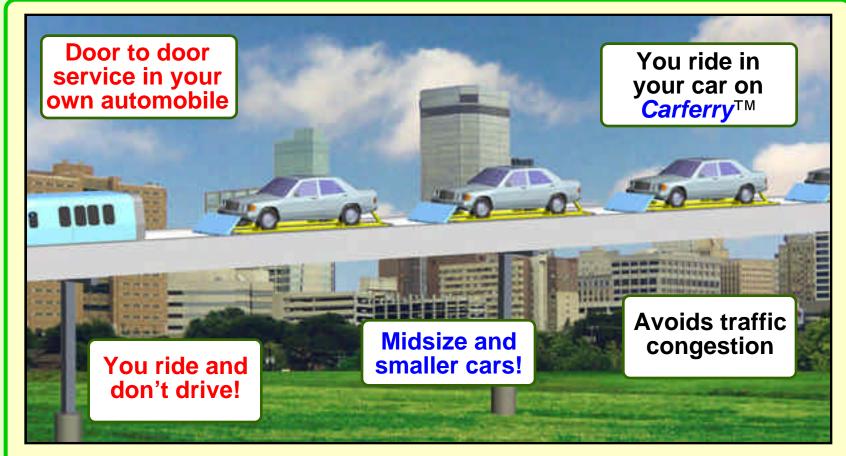


Coaches carry up to 13 and seat four to six

16 to 25-car trains – 176 to 275 passengers per train



City-wide 65-mph Dualmode Car Service



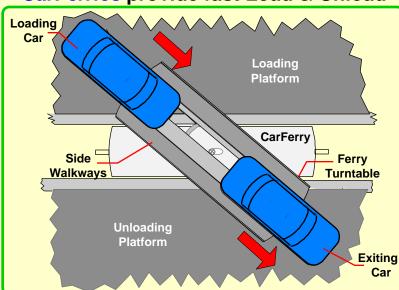
- Standard personal cars and passengers on elevated *SuperWay*
- Silent & ultra-low air pollution Natural gas powered
- Share same guideway as mass transit services



CarFerries™ allow people to take their cars

Rapid (1-min) loading and unloading by car drivers at stations

CarFerries provide fast Load & Unload



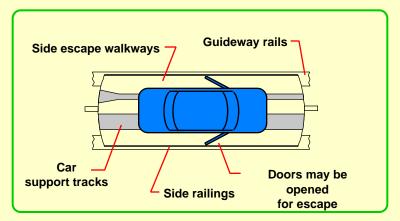
Car drivers drive their cars onto and off of ferries at stations

Easy as pulling into slant parking space or car wash

Car wheels automatically lock into place on ferry to hold car

- People in cars that need their cars
- People in Skycoaches who don't need cars

Individual CarFerry Safety Features



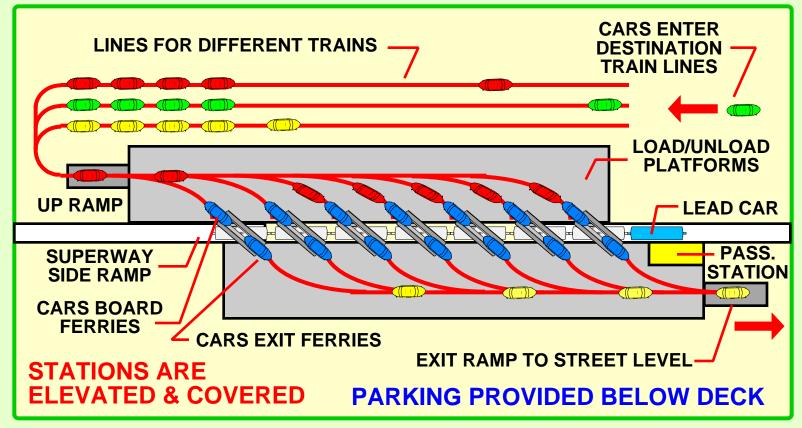
Ferry walkways enable passengers to access SuperWay center emergency walkways

Roll correction in curves for airliner ride comfort level



Sample CarLiner™ Station Arrangement

Short Carliner train shown to simplify illustration

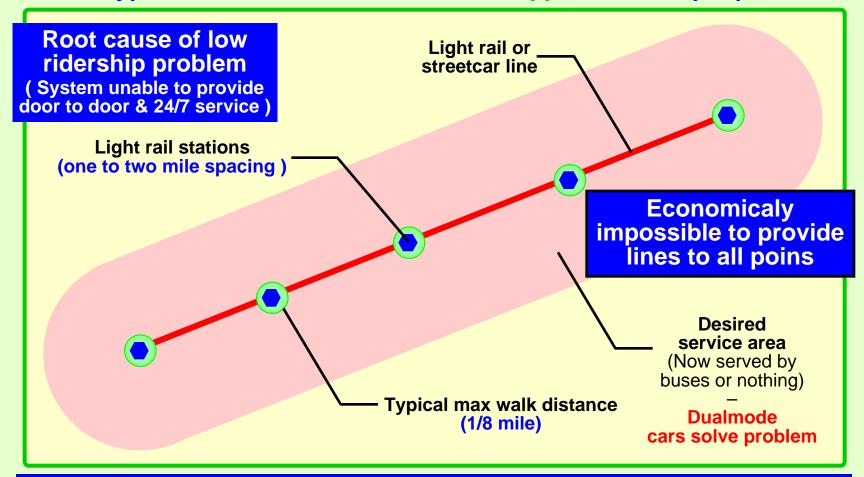


Drivers enter line for desired route or destination (Trains may take different *MicroWay* routes)



Dualmode Solves "Last Mile" Problem

Typical fixed route service does not appeal to most people



Only the carless & a few others use fixed route transit

Expensive BRT has offers only a partial solution



Expanded MicroWay Capability

All LRT & streetcar capabilities plus dualmode cars

- SuperWay stations Over streets Elevators / stairs in parking lanes
- SuperWay short turns (30-ft) to follow street corners
 - All Electric operation Natural gas generators along lines

Dualmode personal car service – Full citywide service

- Shares passenger train **SuperWay** On & off-**SuperWay** transport
- Electrical SuperWay operation Normal car street operation

Easy expansion – Affordable extension throughout area

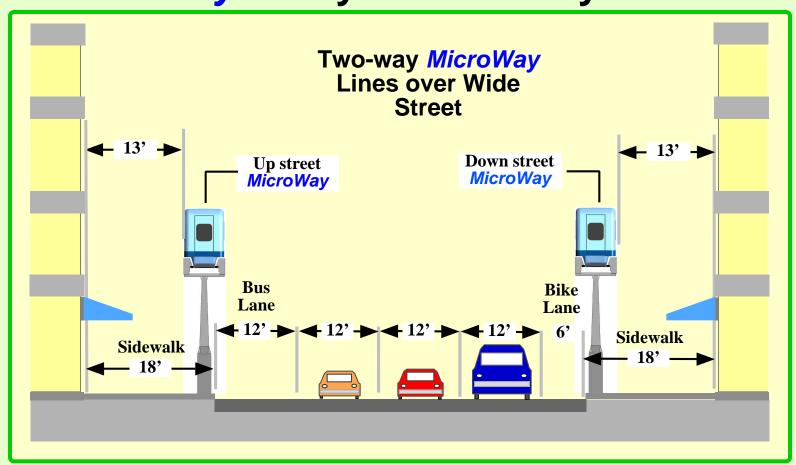
- Use available bridges or new, lightweight suspension bridges
- No traffic lanes impacted
 Minimal installation impact

Go-anywhere (Including up hills) - Vehicles use rubber tires

PAT. PENDING

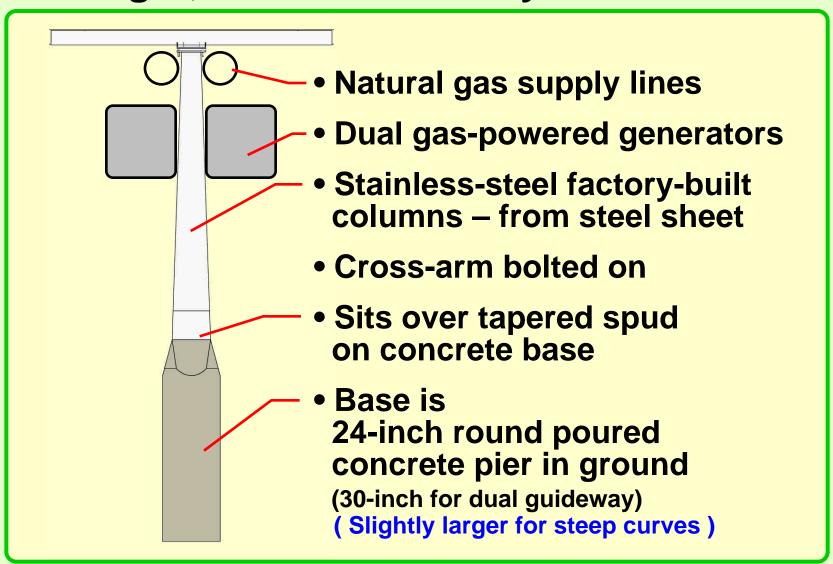


MicroWay™ Easy Fit over City Streets



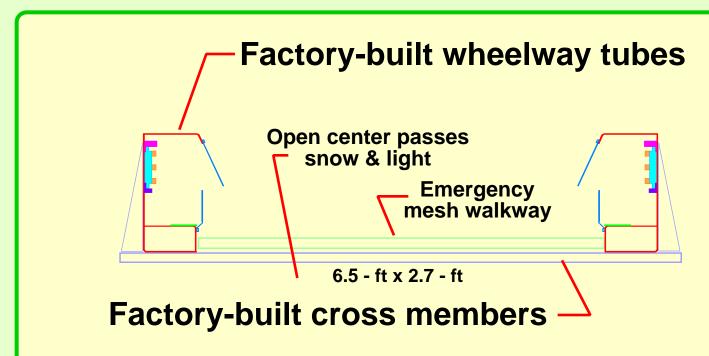


Ultralight, Low-cost Factory-built Columns





Ultralight, Low-cost Factory-built SuperWay

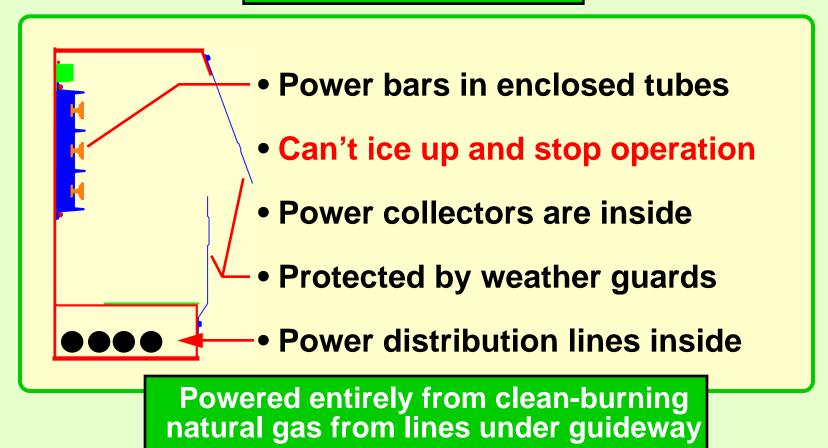


- Plasma & laser-cut flat stainless-steel
- Machine welded for low labor cost
- Truck to site & lift onto uprights



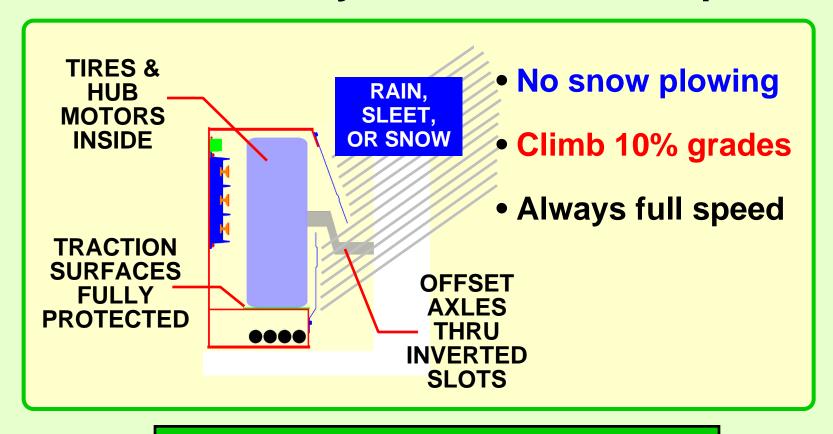
Electrically powered from protected bars

Weather-proof operation





Enclosed wheelways for all-weather operation



Perfect for winter weather service



MegaWay – Self-funding Alternate that Works

- Elevated steel SuperWay over any right of way
 - Electrically-powered from natural gas Low pollution
 - Rubber-tired wheels in enclosed wheelway tubes
 - Silent service

- Up and down hills
- All-weather service
 - Low-cost SuperWay
- Small wheelway 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 train shadows

Open-center SuperWay casts small shadow

U.S. Patent 6,837,167

Low risk – Current, proven technology!



Center Emergency Escape Walkway

Safe passenger emergency escape



- Welded stainless-steel wire mesh between tubes
- Easy passage of light & snow



Prototype Test Vehicle

In road and SuperWay proving



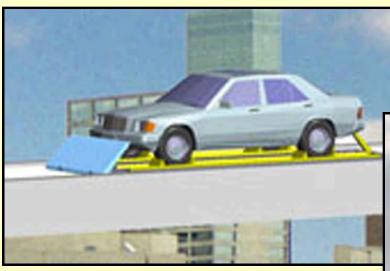
Main chassis unit of hybrid dualmode tram lead car in test (Dualmode version operates both on SuperWay & streets)

Not just another "paper" system – It's real and here!



Future "Last Mile" Problem Solutions

Fully Automated, 24/7 services in 52 Months



Automated CarFerry service

- Drive to CarFerry station
- Drive onto waiting CarFerry
- Select destination
- Mid-size and smaller cars
- Ride without driving to desired station
- Drive back to street and to destination



PAT passenger service

- Walk to nearest station Any time of day
- Enter waiting car (up to four people)
- Select destination
- Ride, non-stop to selected station



Technology Summary

Unique, patented new combination of proven technology (8 patents)

Enclosed stainless-steel wheelways - US Pat. 6,039,135

- Simple welded steel factory fabrication
- Standard electrical power buses

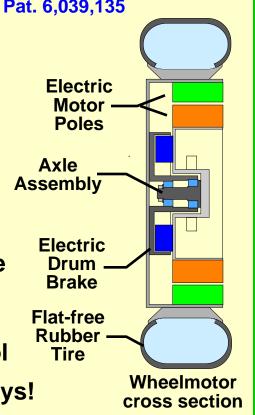
Flat-free tires — Current car tire technology

Permanent-magnet electric motors

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

Car-based steering & switching

- Smooth non-contact electronic steering control
- Switching By cars as on conventional freeways!



Only the combination & SuperWay are new!

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MegaRail Staff is Highly-experinced

- Experienced aircraft engineers & business personnel
 - Experience level 40 + years on far more complex systems
 - Managed 30,000 people, many vendors & \$4B+ contracts
 - Developed, & supported the USAF B-58, F-111 & F-16s
- Staff understands long-term support
 - Includes experienced logistics & vendor support people
- More highly experienced personnel available
 - Similar experience levels in all required fields

MegaRail team able to provide complete systems



Proven Industry Team

MegaRail Transportation Systems

- System Design & Integration
- Prime Contractor

Control & Software

- MegaRail Design
- Outside Harness Production
- Outside Electronics Production

Clark's Precision Machine

- Vehicle Production
- SuperWay Production
- Ramp & Station Production

Austin Bridge

- Site Engineering Design
- On-site SuperWay Assembly
- Pier & Superway Installation

Reduced Customer Risk

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Major *MicroWay* Benefits

- Near-term, low-cost transit & traffic solutions
 Public / Private partnerships possible
 No more costly light rail projects!
- Minimal physical & visual impacts
 Adds only small, stainless-steel SuperWays
- Reduced commuting times & reduced cost
- Major reduction of traffic noise & air pollution
 Drivers find MicroWay lower cost and faster commute
- All-weather travel No rain, snow & ice impacts

Win, win approach to problems!



MicroWay Summary

Performance – Beats any other approach

- Up to 6,500 cars / hour / direction More than 6-lane freeway!
- Shorter trip times 10% grade hill capability Off-line stations!
- Mass transit train & dualmode automobile for full city service

First service — Within 48 months! — (Train-type manual control)

Joint private / local funding – No Federal funding delays

Total system cost – \$6 – 7M per lane-mile (Typical cost)

Local funding and control
 No on-going operating subsidies

Environment friendly – Low emission – Uses natural gas!

- No earth moving
 No new right-of-way
 Noise free
- No impact to street traffic capability
- No power substations or electrical lines
- Low Cost
 - Proven Tech
 - Low Risk



Suggested, Low-cost, Low-risk Action

- Compare MicroWay with LRT & BRT
 - Cost per lane-mile
 Area of city served
- Compare MicroWay, LRT & BRT total risk
 - Technical & schedule
 Long-range cost risk
- See MicroWay prototype demo
- Request & evaluate MicroWay proposal

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MicroWay Results

- Reduce street traffic Use elevated alternate
- End freeway traffic jams
- 65-mph, non-stop travel in our own cars
- 65-mph, non-stop mass transit train service
- Gas-generated power for low air pollution
- All-weather travel No rain, snow & ice impacts
- Avoid billions for light rail or BRT lanes

Nothing else offers anything close!



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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