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## Brightline Connects Florida

The first and only privately owned, operated and maintained passenger rail system in the United States hit the tracks in May of 2018.

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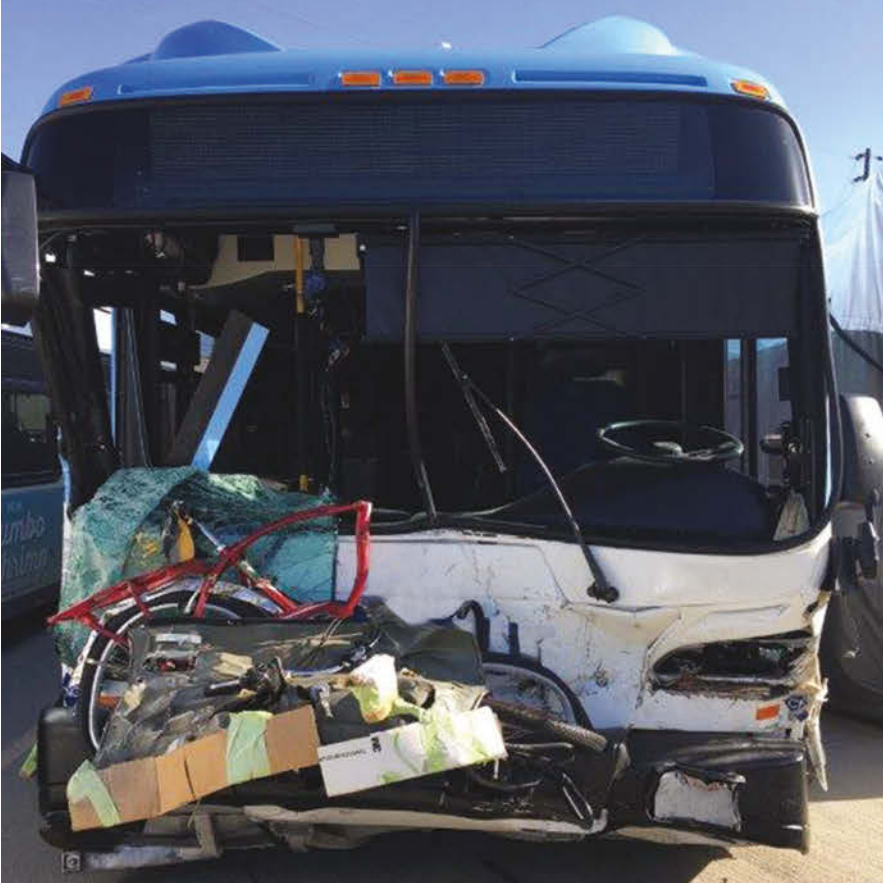


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# MASS TRANSIT



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# Let's Begin With An Introduction

It's an exciting time to work in the transit industry.



Mischa Wanek-Libman

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**Transit agencies across North America...are pushing the innovation envelope in a way that is changing how people move.**

**A**t first, this may look like another issue of *Mass Transit* with another face and another opinion taking over the column. However, you'll be seeing more of me on this page as I assumed the role of executive editor at the end of October. My aim is to maintain and further enhance the excellent editorial coverage the previous and current editorial teams have worked to provide.

I have more than 17 years of experience covering transportation issues specific to the rail industry. In my previous professional life, I led the editorial team for a civil engineering and construction trade journal. Much of that coverage focused on freight railroads, but transit stories dominated the daily news coverage and I found myself more and more excited whenever a transit-focused feature article presented itself.

Transit agencies across North America, along with their partners on the supply side, are pushing the innovation envelope in a way that is changing how people move. That is inspiring to me and it is also what made the decision to join the team at *Mass Transit* easy.

A little bit about my background: I grew up in Grand Island, Neb., which is located in the south central part of the state. Great place to grow up, but mobility was limited to where your parents, your friends or your own two legs on a bicycle could take you. While studying at Drake University, I took a semester abroad in London, UK, which is where I was first introduced to the ease of transit. I moved to Chicago after college thinking it would be a good place to find a career and a life. The city's bus and rail systems made the journey to finding both of those things much more convenient. I bought property many years before I bought a car due to the transportation options available. When my husband and I decided to make the move to the suburbs, a reliable commuter rail system continued to allow access to the city.

I've been an active transit user for nearly two decades and recognize that the seamless experience of an end user is the result of an all-hands-on-deck effort involving a given transit provider's management, operations and maintenance teams and supply chain. The stories behind that effort is where *Mass Transit's* coverage comes in and I'm ready to help tell those stories.

In the coming months, I look forward to taking this conversation off the page and into exhibition halls, on-site visits and any other face-to-face opportunity that may arise. Should you have a comment on an article or topic, please feel free to reach out via email, social media or even an old fashioned phone call.

Mischa Wanek-Libman, Editor

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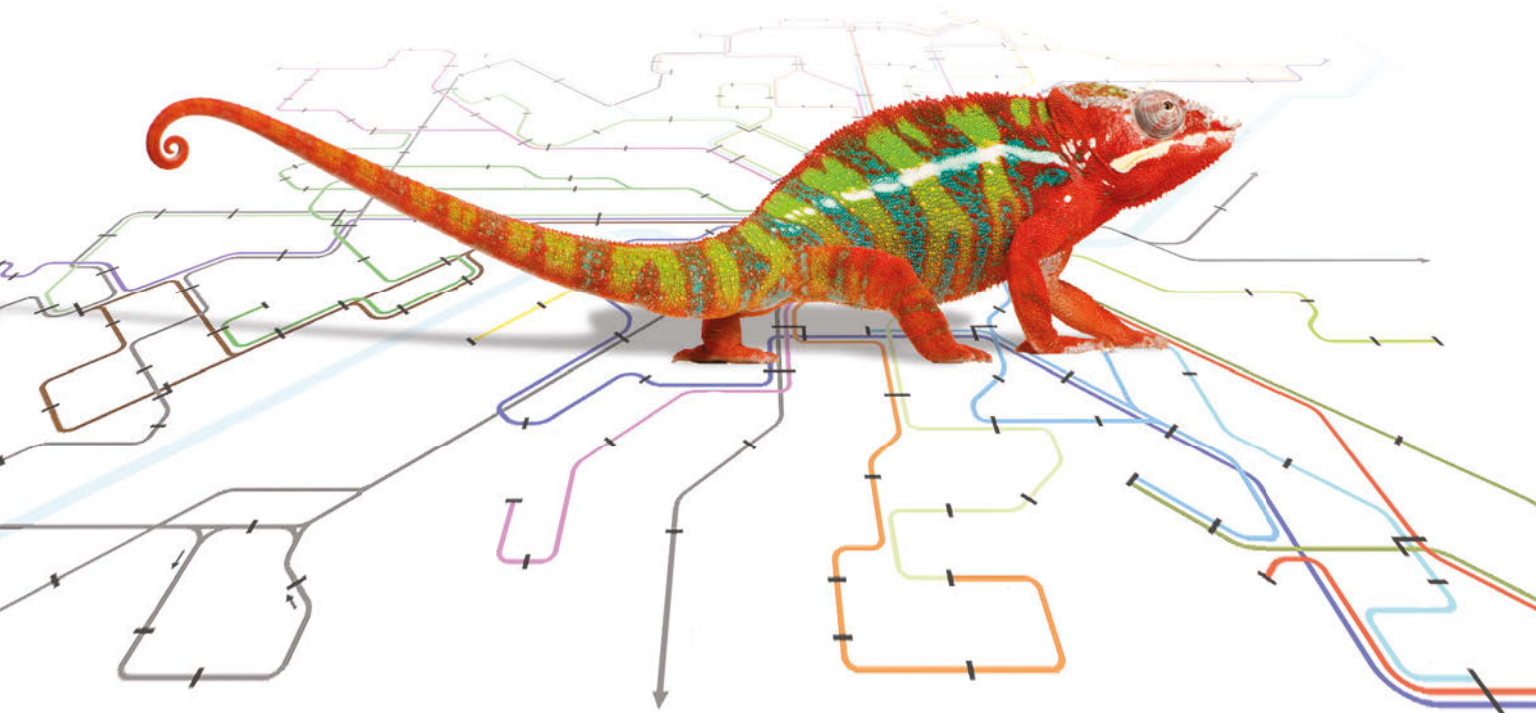
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## Adapting to a changing environment is critical to survival.

Ok, let's talk fare collection in the digital age.

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A RENDERING of a future station along Sound Transit's Lynnwood Link light-rail extension.

## FTA submits \$1.2 Billion Grant For Lynnwood Link To Congress For Approval

An agreement finalizing \$1.2 billion in federal funding for Sound Transit's Lynnwood Link light-rail extension is expected shortly following the Federal Transit Administration's (FTA) submission of the full funding grant agreement (FFGA) for congressional approval.

By submitting the agreement to Congress, a 30-day review period begins and is the final step before FTA can sign and execute the agreement. Congress has already allocated a total of \$200 million in funding for the project through the Capital Investment Grants program in FY 2017 and FY 2018. A signed FFGA would allow Sound Transit to begin drawing down on the previously allocated amount.

➔ [MassTransitmag.com/12437285](http://MassTransitmag.com/12437285)

## IMG Members Visit the MCI and New Flyer Vehicle Innovation Center

► Motor Coach Industries knows when it comes to innovation in the motor coach industry, seeing is believing. And from October 16-18, members of the International Motorcoach Group saw the future during a visit to the Vehicle Innovation Center (VIC), collaboration between MCI and New Flyer. Located on New Flyer of America's manufacturing campus in Anniston, Alabama, the VIC features a lab and education center dedicated to exploring developments in propulsion, vehicle connectivity and Advanced Driver Assistance Systems (ADAS), and design for future buses and coaches. IMG members are the first private sector transportation operators to visit the VIC which opened last October.

The three-day exploration covered MCI's deployment of ADAS systems, vehicle connectivity through telematics and the battery-electric platform coming to MCI models in 2020.

➔ [MassTransitmag.com/12436401](http://MassTransitmag.com/12436401)



MCI AND IMG members gather the Vehicle Innovation Center (VIC), the industry's only tech-lab.

## People in the News



Joe Lhota

### Metropolitan Transit Authority

**The chairman of the MTA, Joe Lhota, has resigned his post.**

Lhota, 64, led the agency through Hurricane Sandy and started his second round at the MTA in June 2017. Fernando Ferrer, the vice chair of the MTA Board, will serve as acting chairman. MTA credited Lhota with launching the Subway Action Plan and reinvigorating the MTA. The agency said his focus on delivering better daily service for customers and prioritizing cost containment and procurement reform initiatives while working to create long-term sustainable funding sources were the hallmarks of his time leading the board.

➔ [MassTransitmag.com/12436392](http://MassTransitmag.com/12436392)



Nick Promponas

### First Transit

**First Transit announced that Nick Promponas has taken over the role of senior vice president for the transit management services (TMS) division in North America.**

Promponas assumes the role from Rick Dunning, who will stay on in an advisory role until his retirement on December 31. Promponas has managed several First Transit divisions including transit management services, call centers and transit contracting. Since 2002, he served as senior vice president for transit contracting in the west region.

➔ [MassTransitmag.com/12436057](http://MassTransitmag.com/12436057)

## New DART Natural Gas Deal Boosts Sustainability, Bottom Line

► Dallas Area Rapid Transit (DART) has signed a new agreement with Element Markets Renewable Energy to provide renewable natural gas (RNG) for DART's fleet of 650 CNG powered buses.

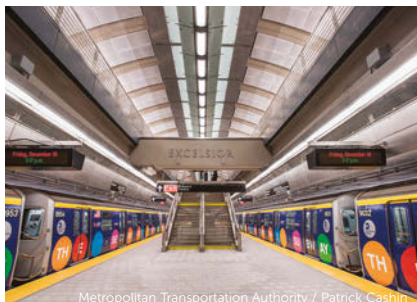
The five-year agreement begins January 1 and has one, two-year option. It monetizes Renewable Identification Number credits that have the potential to generate up to \$11,000,000 in revenue for DART over the life of the contract.

"RNG is another way we're powering transit with clean fuels," DART President/Executive Director Gary Thomas said. "We are also excited about the financial benefits of converting to clean fuels."

DART is adding 41 new CNG-fueled buses in 2019 to expand bus service and improve schedules and frequency.

➔ [MassTransitmag.com/12437288](http://MassTransitmag.com/12437288)





THE 86TH Street Station along the Second Avenue Subway.

## FTA issues FONSI for Phase 2 of MTA's Second Ave. Subway

► The Federal Transit Administration (FTA) allowed a step forward for the second phase of the Metropolitan Transportation Authority's (MTA) Second Avenue Subway with the issuance of a Finding of No Significant Impact (FONSI) based on review of the Supplemental Environmental Assessment for the project.

MTA says Phase 2 of the project will provide a number of benefits for the East Harlem community, much of which sits in a "transit desert" with few public transportation choices. The new service will cut commute time by up to 20 minutes a day and further reduce crowding on the Lexington Avenue line. Following opening of the first phase of the line on Jan. 1, 2017, crowding was reduced at parallel stations on the 4, 5 and 6 trains by up to 40 percent during the morning rush hour.

➔ [MassTransitmag.com/12436878](http://MassTransitmag.com/12436878)

## Metro's Crenshaw/LAX opening delayed until mid-2020

► The opening of the 8.5-mile Crenshaw/LAX light-rail line will be delayed until mid-2020 according to an updated time-frame from Los Angeles County Transportation Authority (Metro) CEO Phillip A. Washington to the agency Board's Executive Management Committee.

The \$2-billion project requires complex work that is taking longer than expected to complete. Several key issues are impacting the project's schedule including the completion of the electrical work on the rail line, which is taking longer than expected, as well as L.A. Metro opting to take advantage of outages to complete other work.

The project is 90 percent complete with 'substantial completion' of the project expected in December 2019. L.A. Metro says it will then complete final safety testing and operator training with service to the public anticipated to begin in mid-2020.

➔ [MassTransitmag.com/12437007](http://MassTransitmag.com/12437007)

## Read More Online

► The District Department of Transportation has announced that the DC Streetcar Car Barn Training Center has won a 2018 Award of Merit from *Engineering News-Record*. The DC Streetcar maintenance facility incorporating award-winning sustainability and historic compatibility features.

➔ [MassTransitmag.com/12436172](http://MassTransitmag.com/12436172)

► Ballot measures, which increased or secured investment in public transit, earned the approval of voters in states from California to Connecticut, New Mexico to Maine, Virginia to Florida. Voters said "yes" to investments in improving and expanding public transportation, creating jobs, and making communities even safer.

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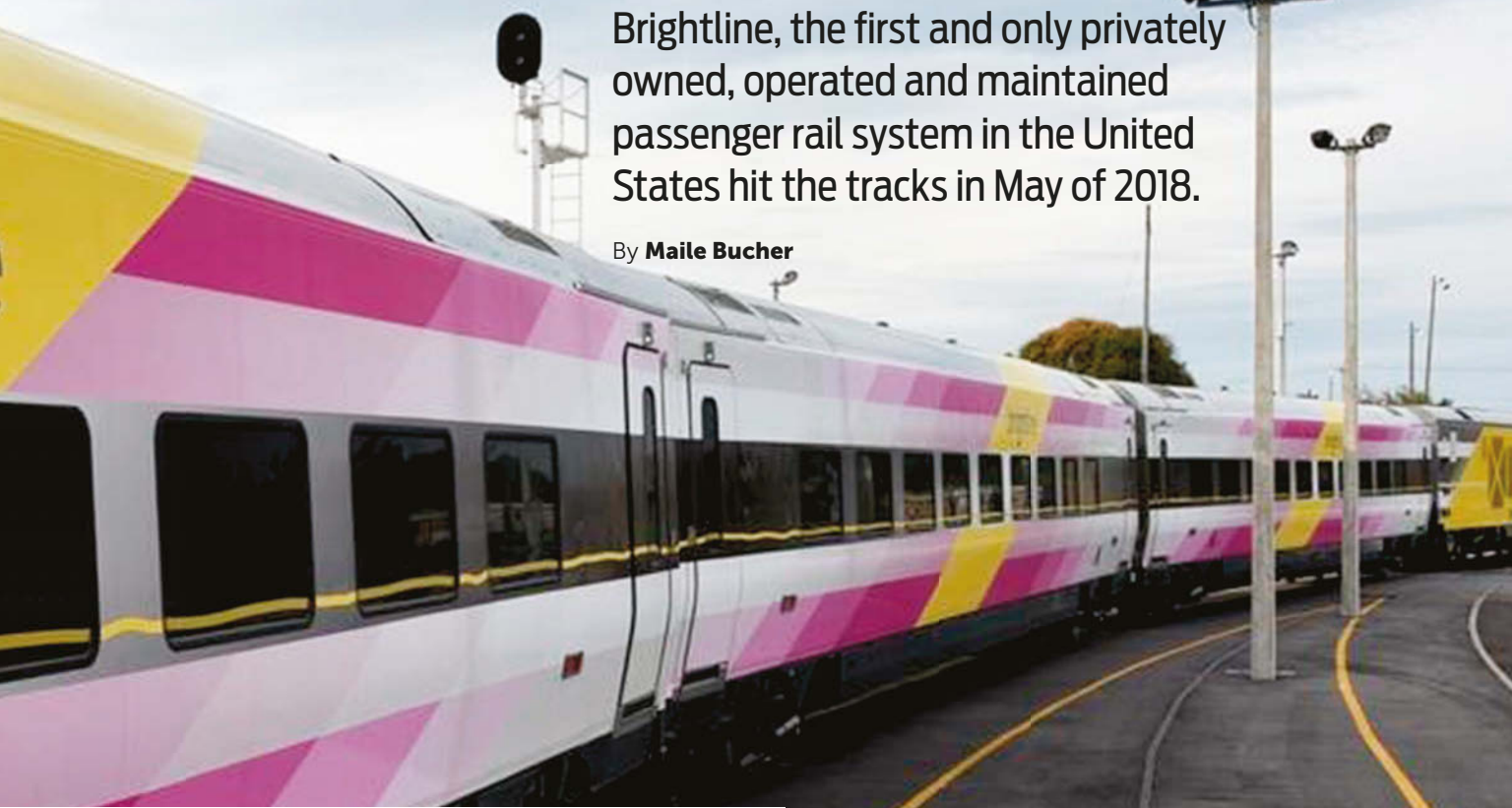
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# *Brightline Connects* **Florida**

Brightline, the first and only privately owned, operated and maintained passenger rail system in the United States hit the tracks in May of 2018.

By **Maile Bucher**



THE BRIGHTLINE corridor was completed in two phases.



**T**HIS YEAR, BRIGHTLINE launched its first services in Florida between Miami, Fort Lauderdale and West Palm Beach. Brightline was announced by Florida East Coast Industries (FECI) in 2012. The idea behind the line was to build a passenger rail system in highly populated cities that are separated by distances that are too long to drive, but too short to fly. Brightline is one of the first privately owned, operated and maintained passenger rail systems available in the U.S. in more than 100 years.

Brightline currently operates between Miami and West Palm Beach, one of the most heavily traveled and congested regions in the U.S. Brightline has plans to expand to Orlando and the Florida Department of Transportation (FDOT) recently announced it would enter into negotiations with Brightline to connect Orlando to Tampa. Brightline and its parent company FECI are also developing transit-oriented development around the three south Florida stations.

On May 19, 2018, Brightline officially launched revenue service into MiamiCentral. The announcement drew crowds and trains were sold out.

### Creating the optimal rail car

Siemens worked with Brightline to create the railcars for the line. Brightline ordered five trainsets, comprised of four passenger cars and two locomotives.

"These trainsets are comprised of Siemens high-speed intercity railcars, powered by Siemens diesel-electric Charger locomotive," Ray Ginnell, head of Passenger Coaches for Siemens Mobility, and a lead manager on the Brightline project.

Siemens featured new technol-

ogies within the railcars, including important safety features.

"All carbodies incorporate Crash Energy Management (CEM) crumple zones to absorb energy at both ends of the railcar," said Ginnell. "Our design also includes a controlled collapse feature to enhance safety in the event of impact and has been fully tested and is compliant with PRIIA 305-003 and FRA requirements."

Siemens also included features to make boarding and off-boarding easy for riders.

"The 'gap-filler' was something specially designed for this project and something that provides true level-boarding at all stations," explained Ginnell.

Not only does level-boarding help with ADA compliance for wheelchairs and walkers, but the gap-filler also aides the smooth boarding of bicycles, strollers and rolling luggage.

The trains have dual locomotives, a diesel-electric engine and the train is 100 percent Buy America-compliant.

### Passenger amenities for a new style of train

As the project is one of the first of its kind in a century, Brightline faced unique hurdles to overcome. Brightline worked to enhance the experience for riders. The passenger rail line worked to cover every base from its online booking system, greeting riders at the station, on-board service and announcing a partnership with Lyft as Brightline's ride-share service.

"On this particular project, the customer was focused on design and passenger experience and we had to work very closely with the design-group Rockwell on an extraordinary level of detail surrounding seat comfort, sightlines, materials, etc., all the while ensuring compliance with the



necessary safety and industry standards and regulations," said Ginnell. "Few people will be able to notice that there is perfect alignment between seating and windows, delivering better views with larger windows and integrated window shades."

As the first private passenger train in the United States, leading up to the launch, there was a great interest in to what amenities would be available.

"These Brightline trainsets represent the utmost in today's passenger experience: a high level of comfort, state-of-the-art lighting, low noise vestibules, large windows for greater visibility and sophisticated roof-mounted HVAC for all seasons," said Ginnell.

He listed additional passenger comfort amenities include wide aisles that are fully accessible, wider, comfortable hand-stitched leather seats; in-seat reclining that is less intrusive to the person seated behind you, larger multitask tray tables, enhanced WiFi for better connection reliability and USB/power outlets at every seat.

Along with the wide aisles, and gap-filler, Siemens worked to make the rest of the train fully ADA-accessible.

"There was also special attention paid to the bathrooms – not

**SIEMENS INCLUDED** new technologies within the railcars, including important safety features, such as CEM crumple zones.

only very spacious and fully accessible, but a unique hands-free experience,” Grinell said.

Other amenities of the train include:

- Extra space for luggage
- Pets are welcome
- Bike racks

### Expanding partnership

Brightline announced in November 2018 that it had entered into a new strategic

partnership and trademark licensing agreement with the Virgin Group, which will establish Virgin Trains USA.

“Our private sector-led effort to reinvent passenger rail service in America is taking another leap forward with the addition of the Virgin team,” said Wes Edens, chairman of Brightline and cofounder of Fortress Investment Group. “Virgin has built a respected and trusted brand in travel

and hospitality. With our shared focus on customer experience, powered by a culture of innovation and disruption, we are well positioned to build on our success.”

In a Virgin blog by founder Richard Branson, he stated, “A little over a year ago, we visited Miami to see the new privately-funded passenger rail system that Brightline and Fortress Investment Group was building in Florida.”

Branson continued. “It was clear from that our first visit that Wes Edens, Brightline’s founder, and his team had an exciting vision and the skills for American rail travel that no other private American enterprise has been able to do for a century.”

“This partnership further validates the incredible accomplishments of our team as we challenge conventional wisdom to reinvent train travel in America,” said Patrick Goddard, president of Brightline. “Given our shared values and Virgin’s track record, this partnership will help amplify our efforts and growth potential as we seek to expand to new markets.”

Virgin Group has an impact in the UK rail sector. Virgin Trains, which operate as a high-speed passenger rail line, has been in operation for 21 years. The partnership between Brightline and Virgin Group opens the door for riders to expand to accessing other Virgin brands.

Branson finished in his blog, “We have a long history of creating innovative businesses that shake up markets and establish loyal followings. We transformed domestic air travel with Virgin America and have spent more than a decade looking for a similar opportunity to change the face of American railways. We believe Brightline is at the forefront of this innovation and the ideal partner to work with to alter perceptions and traveling habits across the United States.”

Brightline will rename itself Virgin Trains USA and the switch to Virgin Trains USA branding begins in 2019.

### Looking towards the future of the rail line

Brightline has plans to further expand into Orlando and Tampa. It also recently revealed an exciting project to connect Las Vegas to Southern California.

Brightline announced in September 2018 the acquisition of XpressWest,



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which is a high-speed rail project that has been federally approved to develop a corridor connecting Southern California and Las Vegas, Nev. Brightline's move to the west stems from the success that the company has seen from the current line connecting Florida. The rail line is set to connect 22 million people directly to Las Vegas; reaching those who make up the 50 million yearly trips from Southern California. Construction is expected to begin in 2019, with service beginning in 2022. The first phase will run 185 miles with no at-grade or pedestrian crossings.

Siemens will continue to provide support for the rail line in a number of different areas.

"For Siemens, we will remain actively involved as a result of a unique 30-year maintenance contract we have for the Brightline trains and locomotives," Ginnell said. "Our digitalization platforms now allow us to take-on full maintenance of our assets thanks to modern diagnos-



**BRIGHTLINE PRESIDENT and COO Patrick Goddard welcomes dignitaries outside Fort Lauderdale Station.**

tics and real-time connectivity through ethernet-based communications."

Continuing with the trend of digitalization, Siemens has a wider reach for monitoring and increasing efficiency on the rail line.

"Siemens can now monitor real-time status; temperature readings, scheduling and any need to replace parts," explained

Ginnell. "It is also able to monitor interior assets such as faulty reading lights or non-working power outlets or ports. In the end, this digitalized monitoring, data collection and analysis allows our customers to react proactively before anything breaks, essentially allowing spare parts to be ordered in advance and available for a quick and timely turnaround." **MT**



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# Mobility Meets Sustainability: The Push to Integrate Smart City Tech into North America's Transit Systems

Transit agencies across North America are exploring a myriad of ways to incorporate new technology into smart cities.

By **Chris Barker**

**O**n the quest to provide more effective and environmentally sound transportation service options, we've seen transit agencies in North America explore a plethora of ways to incorporate new technology into smart cities. Over the past two years specifically, these agencies have integrated the 'Internet of Things' into their networks, services and overall operations.

Cities and governmental agencies, both in the United States and Canada, are collaborating with global organizations and forward-thinking companies, such as Keolis, to maximize existing operations while incorporating newer options for safe, streamlined services.

In this piece, we'll explore some of the major ways Keolis has contributed to the way we move from day to day.

**KEOLIS AND NAVYA** launched a fully autonomous electric shuttle pilot program in November 2017 to operate on open roads in Las Vegas, Nevada.



## Las Vegas on the move

Keolis and NAVYA launched a fully autonomous electric shuttle pilot program in November 2017 to operate on open roads in Las Vegas, Nev. This self-driving electric shuttle is the first autonomous public transit vehicle in North America to be fully integrated into an open road with mixed-use traffic. Additionally, the Keolis shuttle is helping to make Las Vegas a “smart city” by communicating with traffic signals, which improves safety and helps to realize efficiencies in traffic flow. The Keolis autonomous shuttle is equipped with LiDAR technology, GPS, cameras and safety belts. It is designed to communicate with traffic signals, operate on open roads and navigate around pedestrians and other moving traffic.

Keolis, NAVYA and the American Automobile Association (AAA) partnered with the city of Las Vegas and the Regional Transportation Commission of Southern Nevada (RTC) to launch a downtown autonomous shuttle route connecting local commuters and visitors to multiple retail, business and transit locations in the Freemont Innovation District.

In addition to studying how the shuttle interacts in a live traffic environment in downtown Las Vegas, AAA surveyed riders to understand why many consumers remain wary of driverless technology and whether a personal experience changes their perception. The surveyed riders to date indeed showed skepticism before riding the shuttle, but that sentiment almost instantly changed once they utilized the shuttle service. To date, more than 32,000 people have traveled on the autonomous shuttle in downtown Las Vegas.

## Creating sustainable mobility

At the 2018 Consumer Electronics Show (CES)—recognized as the world’s largest technology innovation show - Keolis partner NAVYA



introduced the first fully autonomous taxi in North America, AUTONOM CAB. The all-electric-powered AUTONOM CAB is an intelligent transport service designed for private or shared trips for up to six passengers in urban centers. Users can order an AUTONOM CAB through a dedicated smartphone application and open and close the vehicle’s door via the application.

The move toward incorporating technology for sustainable mobility options can also be seen in the Greensboro Transit Authority’s (GTA) plan to replace 48 vehicles in its bus fleet with electric Proterra buses. Keolis will be operating GTA’s fixed-route bus and paratransit services starting in January 2019 as electric Proterra buses start to replace vehicles in the bus fleet. By March 2019, 14 electric buses will be in operation, while the city aspires eventually to have a fully-electric fleet.

## Canada in transit

In August 2018, Keolis Canada and partner NAVYA launched the first long-term demonstration project of an all-electric autonomous shuttle operating on public roads in Candiac, QC, Canada.

The autonomous shuttle will spend 12 months (including four months of a research and develop-

**THE AUTONOMOUS** shuttle will connect commuters to retail and transit hot spots.

## By the Numbers

IN LAS VEGAS  
**More than 32,000**  
riders since  
November 2017

IN GREENSBORO  
**48**  
bus fleet to be  
replaced with  
electric buses

ment project to test the shuttle in Quebec’s cold weather conditions without passengers on board) operating in the city of Candiac (south shore of Montreal) on a 2-kilometer route on public roads mixed with traffic.

Like all NAVYA AUTONOM shuttles, the vehicle does not have a steering wheel or pedals. It is designed to operate on a predetermined route at urban traffic speeds with frequent stops to accommodate high-traffic pedestrian areas and connect with other transit center facilities.

One of the main objectives of integrating the autonomous shuttle into urban areas is to ease public transit by providing the interconnection between the shuttle and the bus terminal to take employees to their workplaces and visitors to their destinations. The shuttle also includes additional stops such as the city hall, retirement housing and an array of local businesses.

The Keolis Shuttle is supported by the Quebec government, the Technopôle IVEO and Propulsion Quebec, the Cluster for Electric and Smart Transport. The prospect of gaining critical insights into extending service, maintaining harmony between other vehicles on the road and understanding public acceptance



or dissent prompted Quebec's Ministry of Economy, Science, and Innovation to provide C\$350,000 (US\$265,200) in financial support for this demonstration project.

### Micro transit on-demand

The Orange County Transportation Authority (OCTA) launched

its on-demand microtransit pilot program, OC Flex, to provide public transit to some of the most underserved areas in the county. The pilot project, operated by Keolis, ensures that passengers are able to easily access all public transportation options in their region and will connect to the OC

Bus network and Metrolink commuter rail stations. It will initially serve two zones of approximately six to eight square miles, with the potential to expand into additional zones, allowing passengers to hail rides from their smartphones and track the status of their trips.

### Modern transit, modern management

Keolis is also applying insights in smart city technology to modernize its transportation management projects. The company utilizes drones to conduct safety inspections of railroad tracks to detect potential hazards much sooner and more efficiently than traditional inspection methods.

Smaller changes such as the Virginia Railway Express (VRE) mobile ticketing app, VRE Mobile powered by GlobeSherpa, are adding up to greater user satisfaction by allowing passengers to buy and use tickets and multiple-day passes on their iPhones and Androids. In Boston, a reverse commute and discount fare program was recently launched to encourage ridership on the commuter rail during off-peak commuter routes and during special events, such as a Patriots or Red Sox baseball game. By taking this approach, Keolis is introducing the benefits of public transportation while reducing vehicle traffic, congestion and protracted commute experiences.

As we incorporate new technology into traditional transit systems, we provide a more cost-efficient, integrated and environmentally-friendly experience. These new transportation modes can be layered on top of legacy transportation networks to allow them to be nimbler and more sustainable. Ultimately, as these services expand and technological innovations become more widely utilized, the global transportation landscape will continue to evolve to meet passenger needs. **MT**

**Chris Barker** is vice president of New Mobility for Keolis North America



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# Digitalization to Optimize Rail Operations

With the need for rail lines to adhere to safety standards and keeping agencies running on time; how can data make the process more effective?

By **Maile Bucher**

**R**AILWAYS IN THE UNITED States are utilizing developing technologies within the digitization of their systems. The addition of technology offers increased efficiency, making it easier for agencies to operate at a higher level. Agencies across the country are incorporating a number of different types of technology within the system, including:

- Signaling
- The Internet of Things (IoT)
- Cyber security
- Predictive maintenance and asset management
- Passenger amenities

The Metropolitan Atlanta Rapid Transit Authority (MARTA) has implemented the use of technology to increase security systems on its routes, provide passenger information and alerts.

## Signaling

With the Positive Train Control (PTC) deadline approaching, signaling is one of the prominent areas in which to digitalize a transit network.

“MARTA is one of the few properties in the U.S. which has been using automatic train control

(ATC) since rail transit service began in 1979. This system exceeds the requirements of PTC,” said David Springstead, assistant general manager of Capital Programs & Development.

Springstead highlighted the key functions of MARTA’s PTC:

- **Automatic Train Operations (ATO):** Regulates train start/stop and speeds
- **Automatic Line Supervision (ALS):** Regulates dispatch, routes and communication
- **Automatic Train Protection (ATP):** Enforces safe operation through speed control and train separation

## System, asset management

To keep a network effectively digitalized, an agency needs to have a strong infrastructural support system. Facilities for operations, safety operators and maintenance connect the network and ensures that it runs efficiently.

“MARTA recently commissioned a new state-of-the-art Integrated Operations



**TECHNOLOGY HAS** brought many benefits to MARTA’s rail lines.



Center, Emergency Operation Center and is on the home stretch on a system wide Train Control and SCADA upgrade project,” said Springstead. “These projects not only leverage technology, but allow MARTA to change antiquated business processes to optimize service delivery, safety,

profile, a Security Design Criteria and Security Certification Program helps to ensure that security technologies are part of any rail expansion, upgrade or lifecycle refresh. This includes finding dual purpose solutions for technologies that provide internal intelligence about system read-


suspects to the police. Greene explained that this has resulted in MARTA Police’s 95-percent solvability rate of Part I crimes. “...suspects are quickly identified and apprehended. Given this tactical use of technology, MARTA Police is able to quickly address crimes and minimize both threats and delays to our transit service.”

MARTA deploys cameras, as well as direct lines for passengers to report suspicious activities while riding.

“MARTA has a robust vehicle security camera system that features video and audio on all rail cars in addition to having fixed CCTV Cameras at all rail stations. Additionally, MARTA deploys a SEE&SAY App for all patrons to utilize while on the rail system that is monitored at a Police Communications Center. This app enables passengers to send discreet messages via smartphones that can lead to immediate police responses on the rail system,” said Greene. “Additionally, technologies supporting the rail system include the implementation of video analytic solutions at key stations which turns cameras into ‘smart-cameras’ that can alert on suspicious activity and a new Emergency Operations Center dedicated to supporting any emergencies that may occur on the rail system.”

## Passenger amenities

In a changing transportation landscape—that’s incorporating autonomous vehicles, car sharing services, as well as bicycle and scooter sharing—passenger signage and amenities add benefits and increase ridership.

“MARTA is in the process of deploying enhanced cellular and Wi-Fi connectivity for patrons at the stations and in the rail cars that will allow for passengers to call and connect seamlessly throughout the rail line for improved safety,” said Kirk Talbott, AGM Technology/CIO. 



Photos by MARTA

security and emergency response capability.”

Enhanced mapping for everything from the addition of grid-lines to instant notifications and alerts on rail lines, is seeing more and more technologies into the market. Technology offers the easy of customization from agency to agency.

## Digitalizing for a safer system

“As part of MARTA’s security

iness and normalcy,” explained Major Aston Greene, commander, Emergency Preparedness Unit, MARTA Police. “For example, new cybersecurity protocols for SCADA systems are currently being deployed, which improve efficiencies, but also addresses the mitigation of cyber-related threats to transit systems.”

Technology, such as CCTV and cameras, has increased how MARTA is able to get images of

**TECHNOLOGY**  
**HAS** increased efficiencies on MARTA’s rail lines.

## CCTV Benefit

**95%**  
solvability rate of Part I crimes by MARTA Police



# Bus Service in the Age of On-Demand Mobility



Los Angeles County Metropolitan Transportation Authority (Metro)

With the continued emergence and increased popularity of on-demand mobility services, transit companies are working to provide methods to incorporate additional services to make reaching destinations easier.

By **Maile Bucher**

**M**OBILITY ON DEMAND (MOD) is a continuously growing factor in the transit world. The MOD service menu available to riders includes car-sharing, scooters, bicycles and emerging

autonomous vehicles. With all that is available, transit agencies are addressing several challenges including how to incorporate emerging services with current systems, as well as how to continue bus operations with integrated first-and-last-mile services.

**ADDITIONAL MOBILITY** services provide options to riders who may live far from their preferred station.

## Making smart cities

Smart cities are aimed at making transportation an ease for those who rely on it. Buses remain an important cog in the smart city machine, with continued developing technologies, buses are an attractive choice for riders.

Jennifer McNeill, vice president of sales and marketing at New Flyer, explained the role of buses in on-demand mobility, “We think that there is actually a real paradigm shift in North America towards this idea of mobility more as a service. More than a thought of I’m taking a bus or I’m taking a train or a taxi, people want to get from point A to point B. We are focusing on integrated mobility and supporting smart cities in that way.”

McNeill said that trends in ridership have a high variable. Some cities are seeing bus ridership decreasing, whereas others have seen an increase.

## MOD partnerships

“We have been talking to some of our customers and we understand while ride-sharing is defiantly on the rise we also understand that there have been demographic or other changes in their cities that require them to re-imagine their transit system. A number of key cities like Los Angeles, Washington, D.C., and others are actually going through this major change to redesign their mobility services,” said McNeill.

One clear leg up that transit services, such as buses, offer is

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“Our infrastructure on our roads and our cities can’t really handle the congestion that would be created by a gazillion ride-sharing services all running around the city doing MOD. The congestion and commute times would not get any better by that as a solution,” explained McNeill. “We think that the mobility as a service is going to include trains and subways, ride-sharing services, scooters and bicycles – and we think that buses will be included, as well.”

In a moving city, a decrease in congestion promotes ease of use among riders, as does the ability to take transit from their front doors to the station and on to their end destination.

“At the end of the day, I think the thing that people like about MOD is that they can be productive doing something else during the ride. We do think that all the vehicles that New Flyer, Motor Coach Industry and ARBOC build are going to be part of mobility going forward. We just think of the shape of how mobility is offered to clients, whether via an app or a different way of finding your way from point A to B won’t change,” said McNeill.

## Pilot programs to further develop connections

As the emergence of MOD continues, transit agencies are working to plan how to best integrate on-demand mobility into current bus routes.

McNeill said that she is aware of a number of different agencies that are putting programs into place.

The Los Angeles Metropolitan Transportation Authority (Metro) services a number of different counties, which covers a wide range of communities.

Joshua Schank, chief innovation officer, Metro said, “There are two separate projects that

we have for on-demand services, one is mobility on demand and the other is microtransit. MOD is a service that is designed to bring people from two or three different stations in L.A. County. It is an on-demand shared ride service and can only be used to and from the transit station, on one case it’s the bus, the other is light rail and heavy rail.”

Metro has areas in which it may be difficult for riders to reach their stations with ease.

“We picked those service areas specifically because people have challenges getting to and from those stations. This could be a better method for accessing those stations, especially for people who are low income, disabled or do not have smartphones. We’re opening up to all those groups,” Schank said. “We selected a specific service area boundaries that do not specifically compete with existing bus service, but are instead a new method of getting to and from the station. We worked with our service planning folks to make sure that we were not duplicating what was out there.”

L.A.’s microtransit program will launch in 2019

“When it comes to microtransit it’s a separate project, we have not decided where those zones will be and what exactly it will look like, but part of what we’re doing on our NextGen bus study is looking at our network and deciding where does microtransit and how does microtransit fit in,” explained Schank. “We’re

**“At the end of the day, I think the thing that people like about MOD is that they can be productive doing something else during the ride.”**

**-JENNIFER MCNEILL**, vice president of sales and marketing at New Flyer



Los Angeles County Metropolitan Transportation Authority (Metro)

**BUS MANUFACTURERS** are working to innovate vehicles through the integration of technology and a greater partnership with agencies.

observing different parts of the county to see which service would be most appropriate for that part of the county.”

## A more connected future

Schank explained that Metro is still in the experimentation phase of observing how on-demand mobility programs will fit in with the rest of the system.

“My thinking has always been that the way this is going to work is through partnership between public and private sectors where we bring the best of both sides to deliver the best possible service. The private sector is inclined towards profit, but profit usually doesn’t include serving marginally inclined groups like the disabled or low income people or making sure that people who don’t have smartphones are served. This allows us to open into that demographic,” explained Schank.

Across the transportation industry, these programs will offer a glimpse into the future of how our cities will operate.

“At the end of the day, transit agencies provide a really important service to communities. They’re looking for more ways to expand that service,” said McNeill. **MT**

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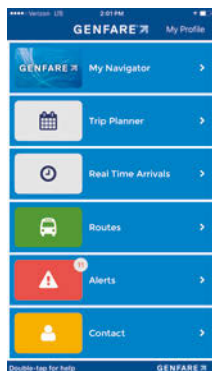
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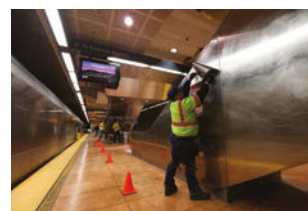
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www.ugllimited.com/engineering

**UGRIDD CORP.**  
www.ugridd.com

**UL**  
www.ul.com

**ULTIMATE TRANSPORTATION EQUIPMENT**  
ultimate-eur.com/en

**ULTRALED LIGHTING INC.**  
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**UNION COUNTY SEATING**  
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**UNYSON**  
Website: www.unyson.com

**UPTAKE**

**URBAN ENGINEERS**  
www.urbanengineers.com

**URBAN MAPPING**  
www.urbanmapping.com

**URBAN SOLAR CORP**  
www.urbansolarcorp.com

## V

**VAHLE ELECTRIFICATION SYSTEMS**  
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**VALEO COMPRESSORS NORTH AMERICA**  
www.valeocompressors.com/en

**VANNER INC.**  
www.vanner.com



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mkeegans@vischeck.net  
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**VERICOM TECHNOLOGIES INC.**  
www.intergis.com

**VERITOLL**  
www.veritoll.com

**VICON INDUSTRIES INC.**  
www.vicon-cctv.com

**VICTOR STANLEY**  
Website: www.victorstanley.com

**VHB**  
www.vhb.com

**VOITH**  
www.voithusa.com

**VOSSLOH NORTH AMERICA**  
www.vossloh-north-america.com

## W

**WABTEC CORP.**  
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**WAGO CORP.**  
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**WAVE INC.**  
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**WENDEL**  
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www.wheel-check.com

**WILMORE ELECTRONICS CO. INC.**  
www.wilmoreelectronics.com

**WI-TRONIX, LLC**  
www.wi-tronix.com

**WIGHT & COMPANY**  
www.wightco.com

**WILBUR SMITH ASSOCIATES**  
www.wilbursmith.com

**WILLIAMS & JENSEN PLLC**  
www.williamsandjensen.com

**WILMORE ELECTRONICS CO. INC.**  
www.wilmoreelectronics.com

**WINSTED**  
www.winsted.com

**WONDERSIGN**  
wondersign.com

**WOOJIN IS AMERICA INC.**  
www.wjisamerica.com

**WORTHINGTON INDUSTRIES**

**WSP USA**  
www.wsp.com

## X

**XENTRANS INC.**  
www.xentrans.com

**XKL LLC**  
www.xkl.com

**XL HYBRIDS INC.**  
www.xlhybrids.com

**XPAN INTERACTIVE**  
www.xpan.ca

**XPLORE TECHNOLOGIES CORP.**  
www.xploretech.com

**XTRALIS**  
xtralis.com

## Y

**YOKOHAMA**  
www.yokohamatire.com

**YOUNG TOUCHSTONE**  
www.youngtouchstone.com

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# MASS TRANSIT PRODUCTS & SERVICE CATEGORIES 2019

From ADA-Related products and service companies to Bus, Rail and Technology companies, find out about the services they can provide for your company.

	ADA-Related
	Architect, Engineering, Consultants
	At The Stop/At The Station
	Bus
	Contracted Services, DBOM, Management
	Fare Collection
	Maintenance
	Rail
	Safety & Security
	Technology

Company										
ABB										
ABC Companies										
Abloy Security, Inc.										
ABM Industries Inc.										
AbsoluteSoftware										
Accenture										
Adamson Industries Corp.										
Adcomp Systems Inc.										
AddLight										
Aecom										
Aldon Company										
Alexander Dennis Inc.										
AlphaVu										
Alpina Manufacturing LLC										
Alstom Transport										
Altran										
Altro Transflor										
Ames Construction										
Ametek Technical and Industrial Products										
Andrew Stahl Executive Recruiters, LLC										
AMF Bruns of America										
AngelTrax										
Angelvision Technologies Inc.										
Angi Energy Systems										
Apollo Video Technology										
ARBOC Specialty Vehicles LLC										
Arup										

Company										
Atkins North America										
Aventura Technologies										
Avire										
Avail Technologies, Inc.										
Axis Communications										
BAE Systems - HybriDrive Solutions										
BAI Communications										
BEA Transit Solutions										
Bechtel Infrastructure Corp.										
Bendix Commercial Vehicle Systems LLC										
Bentech Inc.										
Bikelid Systems										
Bitimec International Inc.										
Bitzer US Inc.										
Bode North America										
BoldIQ										
Boltaron										
Bombardier Transportation										
Booz Allen Hamilton										
Bosch										
Bosch Security Systems Inc.										
Brake Sentry										
BrakePro										
Bridgestone Americas Holding Inc.										
Brookville Equipment Corp.										
Burns Engineering Inc.										
Bus & Truck of Chicago										
BYD Motors Inc.										
Byk-Rak										
Bytemark Inc.										
C.A.R.E. Evaluators LLC										
C.E. Niehoff & Co.										
CAF USA Inc										
Camira										
Caprock Mfg.										
CDM Electronics										
CDM Smith										
CG/LA Infrastructure Inc.										
Ch Products										
Chamberlin Rubber Company Inc.										
Chassisjet USA, Inc.										
Chassis Plans										
Chestnut Ridge Foam, Inc.										
Chicago Pneumatic										
CHK America										
Clean Energy										
Clever Devices										
CMI Automotive										
CMP Corp.										
Code Blue Corporation										
Codered Business Solutions Inc.										
Columbia Equipment										
Comark Interactive Solutions										
Comdata Corp.										
Commercial Solutions										
CommuterAds										
Compin										
Complete Coach Works										
Comtronics										
Concept Seating										
Conduent										



Company										
Confidex Inc.										
Connecthings										
Covestro										
Covia Labs Inc.										
Cradlepoint										
Creative Bus Sales, Inc.										
Crosspoint Kinetics										
CTC Inc.										
CTLGroup										
CTS Cleaning Systems Inc.										
Cubic Transportation Systems										
Cummins Inc.										
Cyberlock Inc.										
Cyclehop										
CycleSafe Inc.										
Cyclonaire Corporation										
Daktronics										
Data Display USA Inc.										
Decision Lens										
Decos Mobile Solutions										
Dedicated Micros Inc.										
De Leo Transportation Fabrics										
Delerrok Inc.										
Dellner Couplers Group										
Delon Hampton & Associates										
Delphi Display Systems										
Diesel Radiator Co.										
Digital Ally Inc.										
Digital Recorders Inc.										
Dilax Systems Inc.										
D&R Technical Solutions										
Duo-Gard Industries										
DVEO										
EAO Corp.										
Ecolane										
Econolite Group Inc.										
EDM Technologies Inc.										
Edna A. Rice, Executive Recruiters, Inc.										
Educational Data Systems Inc.										
EIC Solutions Inc.										
Elcon Associates Inc.										
Electronic Data Magenetics Inc.										
Electronic Displays Inc.										
Electronic Micro Systems										
Electroswitch										
Element Fleet Management										
Emcom Systems										
Emerson Bearing										
EMP Advanced Development LLC										
EnerDel										
Energy Suspension										
EnerSys										
Enghouse Transportation										
Engie										
Enidine Inc.										
ENSCO Rail										
Enseicom Inc.										
Envitech Energy Inc.										
Euramtech Corp.										
Eurotech Inc.										
FAAC Incorporated										

Company										
First Transit										
Flowbird										
FluidMesh Networks LLC										
Fluor Corp.										
Fogmaker										
Freedman Seating Company										
Gannett Fleming										
GE Transportation										
Genetec										
Genfare										
Gensler										
Gillig Corp.										
Girardin Minibus Inc.										
GIRO										
Global Display Solutions										
GMT International Corp.										
GOAL SYSTEMS										
Graffiti Shield, Inc.										
Hadley-Transmatic										
Handheld US										
Handi-Hut, Inc.										
Hanover Displays										
Harsco Rail										
Harting										
HCRQ Inc.										
HDR										
HENDRICKSON										
Hexagon Metrology										
Herzog Transit Services										
HiRAIL Corp.										
Hitachi America										
Hitech Electronic Displays										
HNTB										
HOK										
Hometown Manufacturing										
Hoppecke Batteries, Inc.										
Huber+Suhner										
Hubner Manufacturing Corp.										
HUDDIG										
Hyper Alert										
Hyperloop   One										
Hyperloop Transportation Technologies inc. (HTT)										
Hypertronics Corp.										
Hyundai Rotem USA										
I.D. Systems Inc.										
IADEA										
IBI Group										
IBM Corp.										
IBP Industries Inc.										
ICERTIS										
ICOMERA										
Icom North America										
Icon Shelter Systems Inc.										
IDA Corp.										
iDrive, Inc.										
IGRALUB										
IGW USA LLC										
Imagine Tile Inc.										
Impact Recovery Systems										
Impeltronics										
IMW Industries LTD.										

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Company										
In Motion Technology Inc.										
Inca Gold Products LLC										
INCOMM										
INDEECO										
Indigovision Inc.										
Indra Systems Inc.										
Industrial Electric										
INFAX, Inc.										
Infodev										
Infor Public Sector Group										
Information Management Consultants Inc.										
InfoSight Corporation										
InfoZen Inc.										
Infraconsult LLC										
Infrastrategies LLC										
Ingersoll-Rand Systems Co.										
Init, Innovations In Transportation Inc.										
Innovative Products of America Inc. (IPA)										
Innovision Research & Technology										
INORCA										
Inpower LLC										
INRIX										
InSight USA										
Insultech										
Integrated Metal Products										
Integrated Spatial Solutions Inc.										
Integrian Inc.										
Integrity Wire Inc.										
Intec Video Systems Inc.										
Intellitec Products LLC										
Interalia										
Interclean Equipment, Inc.										
Interfleet Technology Inc.										
InterMotive										
Intersection										
Ioxus Inc.										
Iris GmbH										
IRT Systemx										
Irwin Transportation Seating										
ISC Applied Systems										
ISCON Imaging Inc.										
iSigns Inc.										
ITRANS Consulting Inc.										
ITT Corp.										
ITT Electronic Components										
ITT Ind.										
ITW Switches										
IVU Traffic Technologies AG										
J P and Concepts Co. (JPCO)										
J. Perez Associates Inc.										
J.L. Geisler Corp.										
Jacobs										
Jacobs Associates										
Jamaica Bearings Group (JBG)										
Janus Elevator Products										
Jarrett Walker & Associates										
Jasper Engines & Transmissions										
JEN/MAR Systems Corp.										
Jeppesen										
Jeskell										

Company										
Jewell Instruments LLC										
JTM Concepts Inc.										
JTM Jumpstarters										
Kapsch CarrierCom										
Karsan USA LLC										
Kawasaki Rail Car Inc.										
KEOLABS										
Keolis										
Key Equipment Finance										
Kiel North America										
Kiene Diesel Accessories										
Kilfrost Inc.										
Kilian Manufacturing Corp.										
Kinetic Traction										
Kinkisharyo International LLC										
Kion Specialty Polymers A Clariant Business										
Kirk's Automotive Inc.										
Kismet Rubber Products Corp.										
Klein and Hoffman Inc.										
KLI Inc.										
Knorr Brake Corp.										
Kolimat USA										
Koni North American										
Kontron America Inc.										
Koppers Inc.										
Krauthamer & Associates										
Krown Rust Control Systems										
Kustom Seating Unlimited, Inc.										
KVH Industries										
Kvichak Marine Industries Inc.										
L&M Radiator Inc.										
L.B. Foster										
L.E.K. Consulting										
L.K. Comstock										
La France Industries										
Lacor/Streetscape										
Lantal Textiles										
LCPTTracker Inc.										
LDK Engineering										
Lea+Elliott										
Lecip Inc.										
LEDtronics Inc.										
Leitner & Poma of America Inc.										
Leitner Ropeways										
LEM USA, Inc.										
Leotek Electronics Corp.										
LG Electronics USA Inc.										
Liebherr										
Lift-U										
Lighthouse International, Ltd.										
Lightning Gloves										
Lightning Hybrids										
Lilee Systems										
Lin Industries Inc.										
Lincoln Composites Inc.										
Linktise										
Liquidspring LLC										
LiteMax Technology Inc.										
LNI Custom Manufacturing Inc.										
Local Motors										
Lochner										

Company										
Lockwood, Andrews & Newnam Inc.										
Locus										
Logena Automotive LLC										
Logic Supply										
Logic Tree Corp.										
Logiquial, Inc.										
Loop Energy										
Loram Maintenance of Way, Inc.										
Lordon Inc.										
Lost Art Communications LLC										
Louis Berger Group Inc.										
Louroe Electronics										
LTK Engineering Services										
Lucerix International Corp.										
Lumenor Consulting Group										
Lumichron										
Lumination LLC										
Luminator Technology Group										
Luxfer Gas Cylinders										
M & J Engineering PC										
Mac Products Inc.										
Macro Corp.										
Macton Corp.										
Madico										
Madrax - Bike Racks										
Magenta Research										
Magtec Products Inc.										
MAHA USA										
Maintenance Design Group										
Man Engines & Components Inc.										
Mansfield Oil Company										
Manufacturing Resources International (MRI)										
Marathon Brake Systems										
March Networks										
Mark Weiss Associates										
Masabi US LTD										
Mascoat Products										
Maser Consulting, P.A.										
Mass Fire Extinguishers										
Mass. Electric Construction Co.										
Masterduct Inc.										
Matrix Video Surveillance										
Matrox Graphics Inc.										
Maven										
Maxacel										
MaxLite										
Maxton Manufacturing										
Maxwell Technologies Inc.										
Maxxeon Inc.										
McCain, Inc.										
McDonald Transit Associates Inc.										
McKissack & McKissack										
McMahon Associates Inc.										
Medius										
Megatronics International Corp.										
Mektech Composites Inc.										
Melfast Inc.										
Men Micro Inc.										
Mentor Engineering										
Mer Security										

Company										
Merchants Fleet										
Meridian										
Meridium										
Meritor Inc.										
Meritor Wabco Vehicle Control Systems										
Mesh Networks										
Metalocaucho MTC - A Wabtec Company										
Metavante										
MGM Brakes										
Michael Baker Corp.										
Michelin North America										
Microdesk										
Microphor										
Micropower Technologies Inc.										
Microtek Electronics Inc.										
Microvast Inc.										
Midwest Bus Corp.										
Midwest Transit Equipment Inc.										
Mile-X Equipment Inc.										
Miller Ingenuity										
Milrail Inc.										
Milwaukee Composites Inc.										
Mincom										
Miscor Group Ltd.										
Mitsubishi Electric Power Products Inc.										
Mitsuiki Corp.										
Mix Telematics										
MJM Innovations										
Mobile Climate Control										
Mobile Commons										
Mobile Mark										
Mobileye										
Mobilicom Ltd.										
Mobilitat Software										
Mobility Management Partners (MMP)										
Mobility Transportation Services										
Mobility Ventures LLC										
Mobiliya										
Modjeski and Masters										
Modustri										
Mohawk Lifts										
Mohawk Mfg. & Supply Co.										
Mohawk Resources Ltd.										
Moltec International										
Moovel North America										
Moovit										
More MARTA										
Mors Smitt - A Wabtec Company										
Mortenson Construction										
Motiv Power Systems										
Motive Power Inc.										
Motor Coach Industries (MCI)										
Mott MacDonald										
Moxa Americas Inc.										
Moz Designs										
Mozio Inc.										
MP Pumps Inc.										
MTM Inc.										
MTS Sensors										
MV Transportation										



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Company										
NEC Display Solutions of America Inc.										
NESCO Sales and Rentals										
Neteon Technologies Inc.										
Neu Inc. Railways Depot Equipment										
Never Gray										
New Cities Foundation										
New England Welding Inc.										
New Flyer Industries Inc.										
Newell Rubbermaid										
Newlands & Company Inc.										
Nexans Inc.										
NexGen-Chart										
Nexgenenviro Systems Inc.										
Nexiq Technologies										
NextBus, Inc.										
Nextel Communications										
NextSense GMBH										
Nexus Alpha Ltd.										
NFC Forum										
NGV America										
Nice Systems Inc.										
Nichols Brothers Boat Builders										
Nightstick by Bayco Products, Inc.										
Niles Bolton Associates										
Nilfisk-Advance America Inc.										
Nippon Sharyo USA Inc.										
Nissan Commercial Vehicles										
Nitrofill Inc.										
NLNOVALINK										
No-Spill Systems Inc.										
Nokia										
Nomad Digital LTD										
Nopetro LLC										
Noppen Co. Ltd.										
Nora Systems Inc.										
Norbar Torque Tools										
Nord-Lock, Inc./Superbolt, Inc.										
Nordoc, Inc.										
Norman Data Defense Systems, Inc.										
Normont Industrial										
North American Lbricants Co.										
North American Signal Inc.										
North American Specialty Glass										
North American Video Inc.										
Northstar Battery										
Northwest Rail Electric										
Nossaman LLP										
Nova Bus										
O'Neil & Associates, Inc.										
Odebrecht SA										
OEM Technology Solutions										
Oetiker Inc.										
Oleo International										
Olev Technologies										
Omega Frontline Apparel Ltd.										
Omni Products Inc.										
Omnivex										
Omnova Solutions										
On Time Consulting Services										
Ontirea Communications										
On Track Innovations LTD.										

Company										
OnTrackNorthAmerica Inc.										
Opoli Technologies										
Optellios Inc.										
Optibus Ltd.										
Optronics International										
Oracle Corp.										
Oregon Iron Works Inc.										
Orion Wire Co. Inc.										
Oriskany Manufacturing Technologies										
Orlaco										
Otis Worldwide										
OTW Safety										
Outfront media Inc.										
ORX										
Palram Americas										
Panasonic Corp. of North America										
Pandrol North America										
Panduit Corp.										
Panel-Brite, Inc.										
Pannone Lopes Devereaux & West LLC										
Papercast										
Parabean B.V.										
Parabit Systems										
Paradigm Risk Management										
Paragon Project Resources Inc.										
Parkeon Inc.										
Parker Hannifin Corp. - Electronic Controls Division										
Par-Kut international inc.										
Parsons Corp.										
Passio Technologies										
Passport										
Patroleyes										
Patten Industries Inc.										
Pavlov Advertising LLC.										
PCTEL, Inc.										
Peerless-AV										
peiker acoustic, Inc.										
Penasack Machine										
Penn Machine Company, LLC										
PennTex Industries Inc.										
Penske Corp.										
Penta Corporation										
Pentadyne Power Corp.										
Performance Consulting Associates Inc. (PCA Inc.)										
Performance Metal Fabricators										
Performance Tube Bending Inc.										
Permatex										
Perpetuum										
Phillips Ind.										
Phoenix Cars LLC										
Phoenix Contact										
PHW Inc.										
Pinnacle CNG Co.										
Planar Systems Inc.										
Planet Halo										
Plasser American Corp.										
Plastic Components										
Plazit-Polygal										
Plexus										
Plustek Technology Inc.										

Company									
PNR Railworks									
Polaroid Commercial ID Systems									
Poligon									
Polycorp Ltd.									
Pom Inc.									
Pomona Electronics									
Portable Techonology Solutions									
Positronic Industries Inc.									
Power Efficiency Corp.									
Power Engineering Ind.									
Power Rail Training & Consulting Inc.									
Powerup Inc.									
Powr-Flite, A Tacony Company									
PPG Ind.									
Precision Power Labs									
Precision Quincy Corp.									
Precision Solar Controls									
Preco									
Prelco									
Pretoria Transit Interiors Inc.									
Prevost									
Priority Manufacturing Inc.									
Proair LLC									
Pro-Flex Inc.									
Progressive AE									
Progressive Dynamics Inc.									
Progress Rail Services Corp.									
Proheat									
Propane Education & Research Council (PERC)									
Prosavvy									
Pro Tech Communications Inc.									
Protectolite Inc.									
Proterra									
Protran Technology									
Proxim Wireless Corp.									
Psomas									
PTMW Inc.									
Pulsar Advertising									
Pure Power! Inc.									
Ognify									
Q'Straint									
Qual-Tran Products									
Quality Two-Way Radios									
Qualitywise									
Quantum Technical Services Inc.									
Quester Tangent									
Quilite International									
Quinte Plastics									
Quintiq									
Quixote Transportation Technologies Inc.									
Radio Engineering Industries (REI)									
Radio Frequency Systems									
Radwin									
Rail Temps Inc.									
Railcomm									
Railhead Corp.									
Railhead Vision Systems									
Rail Heating Products & Services									
Railquip, Inc.									
Rail Safety Consulting									

Company									
Railtech Composites Inc.									
Rail Temps Inc.									
RailPros Inc.									
Railquip, Inc.									
Rajant Corp.									
RailWorks Corp.									
RATP Dev									
Raycap									
R.C.A. Rubber Co.									
React Systems Inc.									
Recaro North America									
Reflect Systems Inc.									
REI									
Rel-Tek Corp.									
Remy International									
Renewable Energy Group Inc.									
REO-USA Inc.									
Retlif Testing Laboratories									
Rev Group Inc.									
Ricon Corp. - A Wabtec Company									
Ridecell									
Ride Right LLC									
Ridewell Suspensions									
Rifled Air Conditioning Systems									
Rigid Lifelines									
Rimex Metals Group									
RNL Design									
Ron Turley & Associates Inc.									
Rosco Inc.									
Ross & White Company									
Rotary Lift									
Round Trip Graphic									
Rousch Cleantech									
RouteMatch Software									
Roxtec Inc.									
R&R Partners									
RSCC Wire & Cable LLC									
RSM Services									
R-Solutions Corp.									
RTR Technologies Inc.									
Rytec Corp.									
S&A Systems Inc.									
S-Square Tube Products Inc.									
Sabic's Polymershapes									
Safe Fleet									
Safeguard Technology Inc.									
Safetran									
Safety Vision									
Saft									
Sapa Extrusions North America									
Sardo Bus & Coach Upholstery									
SAS Rubber Co.									
Scantek Inc.									
Schaltbau Electric America									
Scheidt & Bachmann									
Schindler Elevator Corp.									
Schneider Electric									
Seabubbles									
Secheron SA									
Secured Cities									
Sefac Inc.									

# PRODUCTS & SERVICE

## CATEGORIES 2019

Company									
Sekisui Spi									
Sener									
Sentry 360 Security Inc.									
Seon Design Inc.									
Sherwin Industries Inc.									
Shure Manufacturing Corp.									
Shure-Step									
Siemens Mobility Division									
SIMME LLC									
Simmons Machine Tool Corp.									
Sintrones									
Skanska USA									
SKF									
Skyline Products Inc.									
SLEC, Inc.									
Smart Software Inc.									
Smartdrive Systems									
Smartmaps									
Smart Vision Lights									
SMA Technologies									
Smith Detection									
Snake Tray									
SNC-Lavalin									
Solana Networks Inc.									
Solar Outdoor Lighting Inc.									
Solid									
SOL Inc.									
Solis Energy Inc.									
SOS Booster									
Southco Inc.									
Spaceage Control Inc.									
Spaceage Synthetics									
Spacecraft Components Corp.									
Specialty Vehicle									
Spectra Logic									
Spectro Inc.									
Sperry West Inc.									
Spheros North America Inc.									
Spinner II Products									
Sportworks NW Inc.									
Stacy and Witbeck Inc.									
Stadler US Inc.									
Stainless Steel Coatings Inc.									
Stallion Bus Industries									
Standard Change-Makers Inc.									
Stan Design Inc.									
Stanley Hydraulic Tools									
Stantec Consulting									
Starcraft Bus & Mobility									
Starled Inc.									
Star Machine & Tool Co.									
Steer Davies Gleave									
Steri-Fab									
Stertil-Koni									
Strategic Mapping Inc.									
Strato Inc.									
Strix Systems Inc.									
STV Group Inc.									
Sumitomo Corp. Of America									
Summit Seating Inc.									
Sun Brite Supply									

Company									
Suncoast LED Displays LLC									
Sunrise Systems Electronics									
Superior Shade									
Superior Shelter									
Sure-Foot Ind.									
Sure-Lok Inc.									
Sutrak Corp.									
Swazyer Engineering Inc.									
Syncromatics Corp.									
Systra									
Tait Radio Communications									
Talfourd-Jones Inc.									
Talgo Inc.									
Talkaphone									
Taser International Inc.									
TC Communications Inc.									
TCS Rail Services									
TDG Transit Design Group Inc.									
TEB Technology									
Tech Products Inc.									
TE Connectivity									
Telargo Inc.									
Tele-Fonika Cable Americas									
Telenav									
Teleproducts									
Teleste									
Televate LLC									
Telvent USA									
Tensar International Corp. Inc.									
Testmec USA Inc.									
Tessco									
Test and Measurement Instruments C.C.									
TextSpeak									
Tezo Systems									
Thales Group									
The Armor Group Inc.									
The Bilco Co.									
The Burns Group									
The Wright Group									
Thermal Matrix									
Thermal Structures Inc.									
Thermal Transfer Products									
Thermoclave									
Thermo King Corp.									
Tiefenbach USA									
Tightitco Inc.									
Tightrope Media Systems									
Tig/M. Modern Street Railways LLC									
Timco Rubber									
Tindale Oliver									
Tire Service Equipment Mfg. Co. Inc.									
TireStamp Corp.									
Titan Rail Inc.									
Ti Training Corp.									
TKH Security Solutions USA									
Tolar Manufacturing Company Inc.									
Toshiba Imaging Systems Division									
Total Plastics Mass Mobility									
Touchsystems									
Tracer Products									



Company										
Traction Systems										
TR Advisors										
Trans-Lite Inc.										
Trans/Air Manufacturing Group										
Transcare										
Transcore										
Transdev North America										
Transform										
TransGroup										
Transign LLC										
Transit App										
Transit Auto Parts LLC										
Transit Cooling Solutions										
Transit Safety & Security Solutions										
Transitscreen										
Transit Surveillance Systems										
Transit Systems Inc.										
Transit Wireless										
Transit Screen										
Transitvue Communication Systems										
Transloc										
Transmatic Group										
Transoft Solutions Inc.										
Transpec Worldwide										
Transpod										
Transpo Industries										
Transportation Equipment Sales Corp. (TESCO)										
Transport Products Inc.										
TransportTrack										
TransTech: a Wabtec Company										
Transtechnik Corp.										
TransTrack Systems										
TranSystems										
Trapeze Group										
Trauner Consulting Services										
TRC Companies Inc.										
Tribridge										
Trillium CNG										
Trippark Technologies										
Trojan Battery Company										
Trolex LTD.										
Trolley Illusions										
Trudigital Signage										
Trueform										
TruStar Energy LLC										
Tru-Vu Monitors Inc.										
TSC2 Group										
TSO Mobile										
Turbo Images										
Turtle Top Inc.										
Tutor Perini Corp.										
TUV Rheinland of North America										
Twiflex USA										
Twinco Mfg. Co. Inc.										
TwinVision An LTG Company										
Tyco Electronics Corp.										
Tyco Integrated Security										
T.Y. Lin International Inc.										
Tymetal Corp.										

Company										
Uber Technologies Inc.										
Ubisense Inc.										
UGL Limited										
Ugridd Corp.										
UltimateCNG LLC										
Ultraled Lighting Inc.										
Union County Seating										
United States Seating										
Unitrac Railroad Materials - A Wabtec Company										
Urban Engineers										
Vahle Electrification Systems										
Vanner Inc.										
Vapor Bus International - A Wabtec Corp.										
Vapor Stone Rail Systems										
Ventech USA LP										
Vehicle Inspection Services (VIS)										
Vehicle Production Group LLC										
Velodome Shelters										
Vericom Technologies Inc.										
Vicon Industries Inc.										
Victor Stanley										
VHB										
Voith Turbo										
Vossloh North America										
Wabtec Corp.										
Wago Corp.										
Wave Inc.										
Wendel										
Westcode Semiconductors										
Westermo Data Communications										
Western Specialty Contractor										
Western-Cullen-Hayes, Inc.										
Westmatic Corp.										
Westport Innovations Inc.										
Whiting Corp.										
Wheel-Check Safety Inc.										
Wi-Tronix, LLC										
Wilbur Smith Associates										
Williams & Jensen PLLC										
Wilmore Electronics Co. Inc.										
Winsted										
Wondersign										
Woojin is America Inc.										
Worthington Industries										
WSP USA										
Xentrans Inc.										
XL Hybrids Inc.										
Xpan Interactive										
Xplore Technologies Corp.										
Xtralis										
Young Touchstone										
Zen Industrial Services										
ZF										
Zonar										

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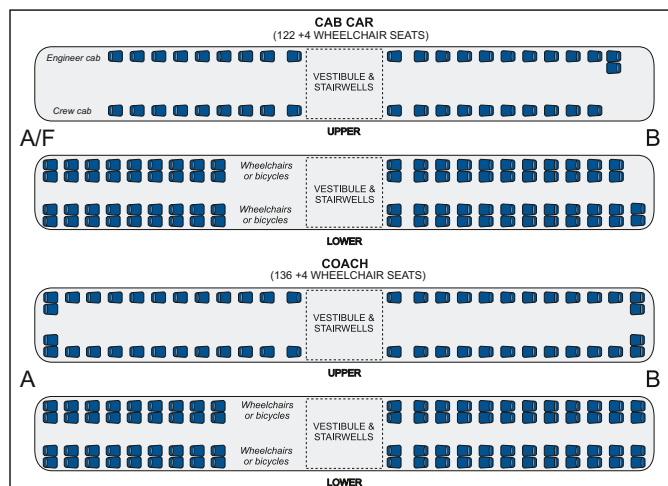


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## Bi-level Commuter Rail Equipment

### Cab Cars and Coaches

**ALSO 25 un-refurbished cars for sale or lease**



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- Ex-Metra stainless steel equipment
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- Twelve coaches: each with 136 seats, 128,000 pounds
- Complete mechanical and interior refurbishment as of 2014: new flooring, seating and painted interior
- Trucks rebuilt by Progress Rail with replaced castings and wheels
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- 27-pin multi-unit (MU) connections
- Trainline door and communications system with electronic message boards
- Meets all ADA, FRA and CFR requirements
- Meets all Amtrak and APTA standards
- All work done under guidance of FRA, tested and approved for use up to 79 mph
- Digital documentation of all work
- Cars available for inspection by appointment
- Two additional cab cars and four additional coaches also available (two ADA restroom-equipped)

**For leasing information, contact:**

**Great Lakes Central Railroad, Owosso, MI**  
**Chris Bagwell, 989-723-8609 ext 6100**  
 or email [chbagwell@glcrailroad.com](mailto:chbagwell@glcrailroad.com)

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- ✓ Alexander Dennis Double Deck Coaches
- ✓ MCI Coaches

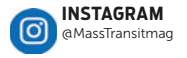
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**1-(416)-315-0632 • [joseph@cvbussales.com](mailto:joseph@cvbussales.com)**



# Social Hubs



## DISCUSSION

### Tweet & Retweet



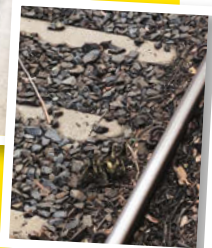
**Austin**  
@Indy\_Austin

I just took a scooter to a bus stop in a cross-town pattern that otherwise can't be served well by public transit. Doing so saved me a transfer and probably about 25 minutes off of my travel time.



**Harry**  
@HarryHasapis

Our train driver in Glen Waverley stopped to not hurt a group of ducklings this morning. Delayed by ducks  
#Melbourne



**Wendy L**  
@WendySkyel

So... can I put "always takes off backpack and moves to the back or the bus" on my resume? Because it's clearly not a skill that all commuters have.  
#octranspo #bussing

## FTA checks in on SoCal transit projects



### Federal Transit Administration

@FTADOT

► The Federal Transit Administration (FTA) took a field trip at the end of November in order to visit transit projects in southern California. The region, FTA notes, is home to many public transit agencies that are working hard to relieve traffic and serve riders, while expanding. FTA Acting Administrator K. Jane Williams visited Metrolink, L.A. Metro and capped the visit by signing a \$149-million Full Funding Grant Agreement with OCTA for the OC Streetcar project.

## PHOTO OP



## THE VIEW



**BOMBARDIER RAIL**  
@BOMBARDIERRAIL

Today, we have shipped from our Kingston site the final two vehicles for the @RegionWaterloo. We are committed to have installed the specialized equipment in all 14 vehicles by the end of December, as promised. #FLEXITY #myIONthetrain #wrLRT

## PERSPECTIVE



**MCTS**  
@RideMCTS

► MCTS is keeping a seat open and placing a red rose on every bus from Friday, November 30 through Sunday, December 2 to honor the life of Rosa Parks and her contribution to equal rights.

[MassTransitmag.com/bus/press-release/21034399](https://www.masstransitmag.com/bus/press-release/21034399)



**VTA**  
@VTA

Congrats to the grads of the Overhead Line Worker Apprenticeship, part of the VTA/ATU Joint Workforce Investment program. Learn more about their 2-year journey and what's next...

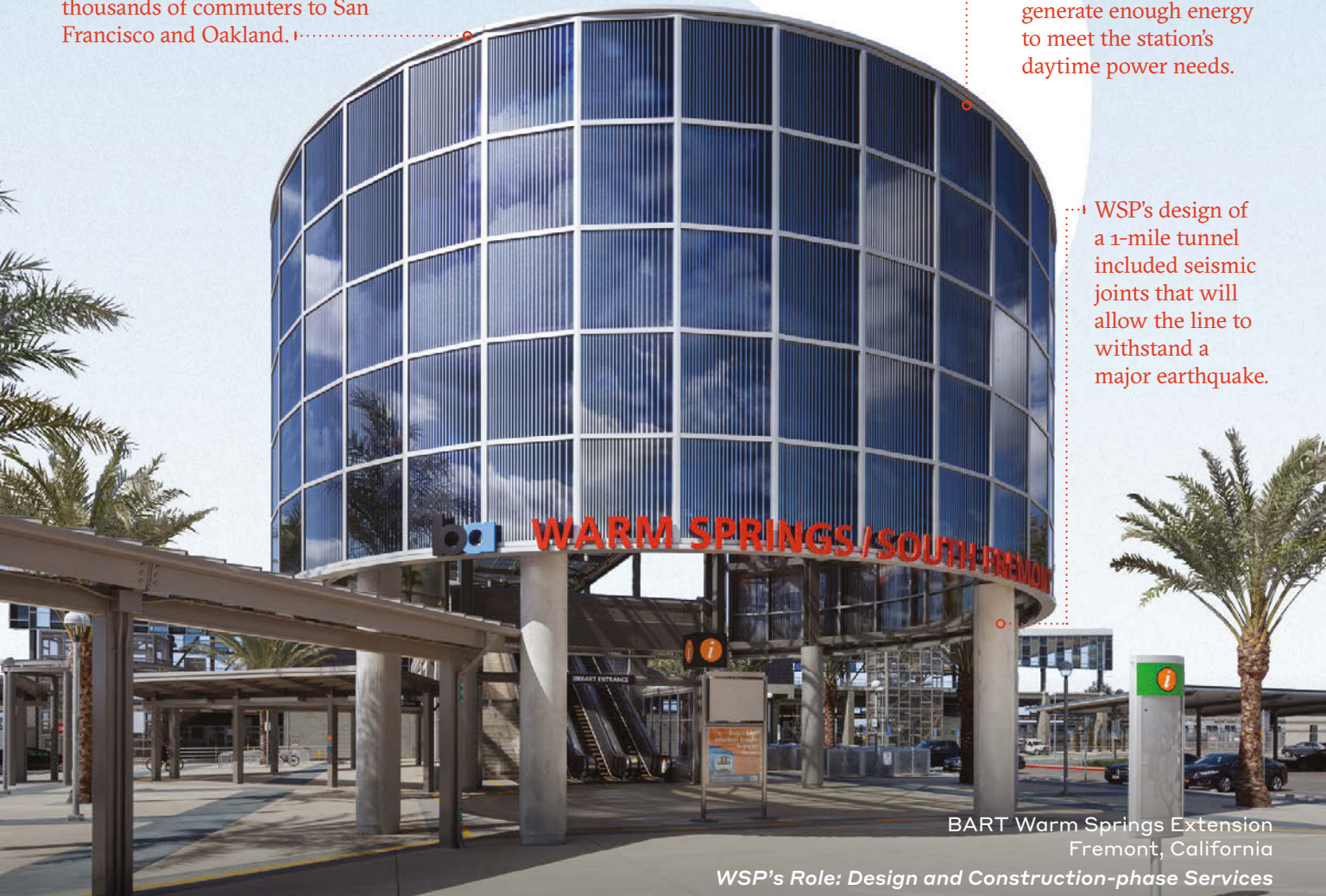


# Question today *Imagine tomorrow* Create for the future

5.4-mile BART extension serves thousands of commuters to San Francisco and Oakland.

Photovoltaic panels generate enough energy to meet the station's daytime power needs.

WSP's design of a 1-mile tunnel included seismic joints that will allow the line to withstand a major earthquake.



BART Warm Springs Extension  
Fremont, California

WSP's Role: Design and Construction-phase Services

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