

PARSONS

Innovate. Connect. Secure.

Smart City Solutions

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Innovate.

Parsons' alternative project delivery methods, life-cycle approach to design and implementation, and advanced systems experience lead to innovative solutions that are practical, fundable, buildable, and sustainable.

Connect.

Parsons understands that smart cities are ecosystems built in collaboration with citizens, government, business, and academia. We take a tech-agnostic approach to integrate new solutions into the infrastructure already in place.

Secure.

Parsons' approach to cyber security keeps smart cities running, even as it connects more people, parts, and systems. We combine our experience securing government systems with our understanding of city operations to provide safe, secure, and resilient solutions.

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Welcome to the future. We've been expecting you.

Driverless cars. Hyperloops. Cargo drones. In a world where big ideas are taking off, it's important to have a partner who is grounded in the realities of your city. Who will be running these new technologies? Are these technologies safe? How will they fit in with what you already have?

Parsons has made it our business to think about these questions with every system we plan, design, and put into operation. We are implementers: people who know how to translate big ideas into realistic solutions.

Parsons PLUS creating a smarter world 

Advanced Rail Systems

Making rail systems smarter, safer, and more cost-effective requires the integration of existing systems and new technology.

Parsons works with freight and passenger rail networks around the world to adapt to the demands of the 21st century. We are the industry-recognized leader in positive train control and have been at the forefront of next-generation train control and technology. Parsons has the proven experience necessary to accomplish the following:

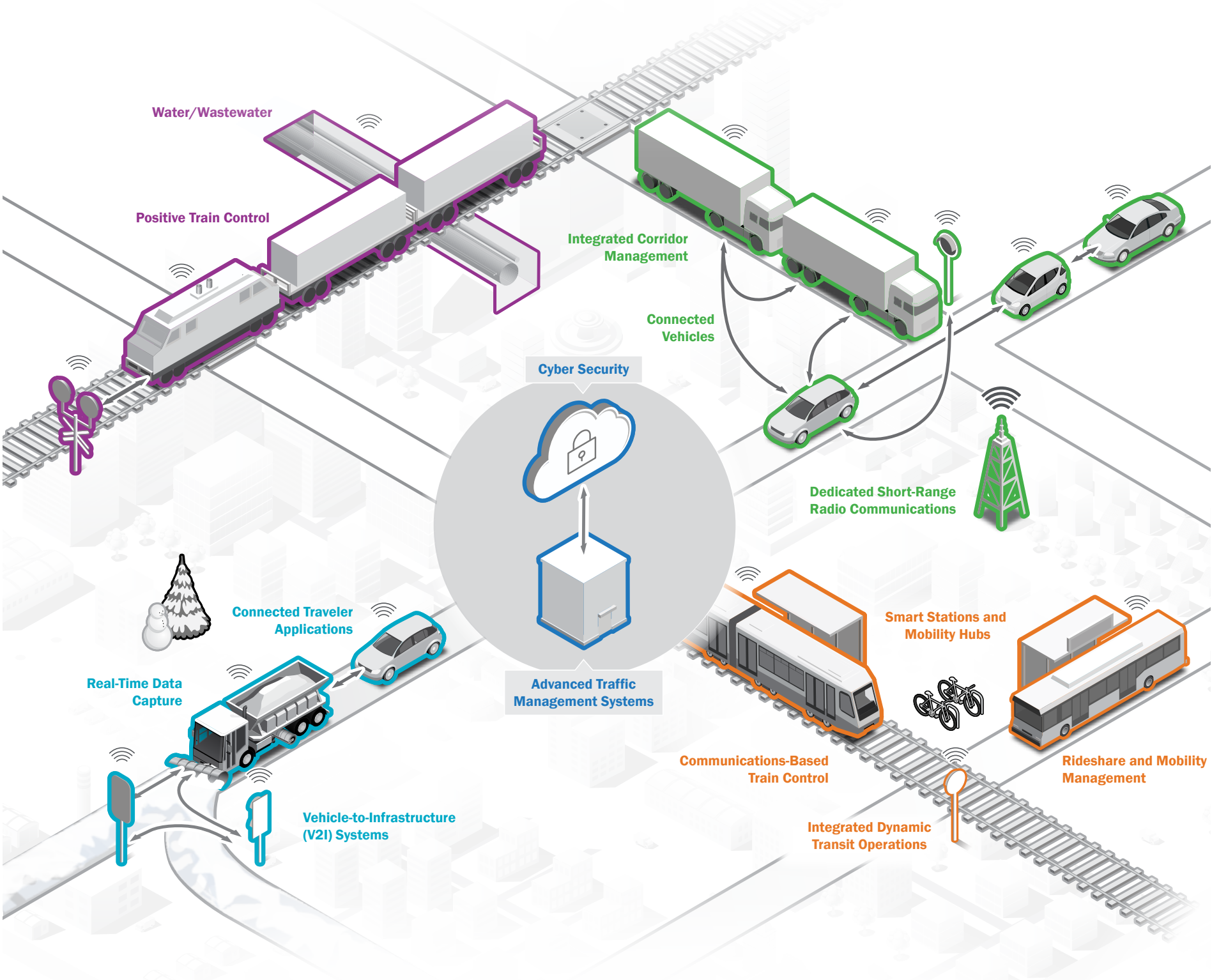
- ✚ Integrate asset and configuration management technology to reduce life-cycle costs and make existing funding streams go further
- ✚ Provide training and the tools needed to operate and maintain new systems, giving our customers the resources required to keep the trains running
- ✚ Manage designers, operators, and construction teams to implement cutting-edge, sustainable rail solutions
- ✚ Advance rail initiatives through public-private partnerships and innovative financing strategies

Smart Connections

A smart city needs to be able to leverage sensor networks and communications strategies that serve multiple needs.

Parsons understands how to develop integrated solutions that leverage streetlights, security cameras, and other devices to meet community and regional needs. Our experience includes:

- ✚ Smart lighting design and deployments capable of serving multiple use cases
- Data integration strategies to aggregate, normalize, and analyze information from multiple public and private sources:
 - ✚ Vehicle-to-vehicle and vehicle-to-infrastructure connections for freight and passenger systems
 - ✚ Communications networks to connect control centers and drivers to real-time traffic data
 - ✚ Intermodal projects that allow convenient connections for pedestrians, bicycles, cars, and transit
 - ✚ Mobile data collector (MDC) connections between service vehicles and regional control centers, giving decision-makers real-time information



Secure Systems, Secure Operations

Every connection to a system can create risks that may impact a city's operations and its customers' data.

Parsons looks at security challenges from an operator's perspective. We understand how to identify, assess, and respond to threats without disrupting the 24/7 operations of your smart city. Our customers depend on our proven expertise accomplish the following:

- ✚ Assess and analyze operational networks, SCADA systems, and control systems for critical infrastructure
- ✚ Prepare and address threats to the intelligent transportation systems we develop
- ✚ Design, test, and implement tailored solutions to protect the security of networks and infrastructure
- ✚ Train staff on the systems and techniques needed to keep infrastructure safe using physical and network security best practices

Mobility on Demand

A smart city needs to adapt to meet the changing needs of transit agencies, ridesharing partners, and the communities they serve.

Parsons is applying its expertise in intelligent transportation systems, advanced communications networks, and transit operations and facilities to develop the next generation of mobility solutions, including the following:

- ✚ Curb management strategies to handle the demands of parking, deliveries, rideshares, and transit
- ✚ Integrated corridor management solutions that seamlessly balance the needs of passenger and freight networks
- ✚ Mobility management strategies to leverage the flexibility of ridesharing for first-mile/last-mile transit station connections
- ✚ Customized and unified systems to accommodate operational traffic and transportation decision-making in real time

Bringing it all together.

Data Analytics

Parsons is developing a new Smart City platform capable of generating operational intelligence from multiple sources of data across a city.

This platform will make it possible for a city and its innovators to collaborate on new applications that are tailored to the needs of each community.

Systems Integration

The greatest challenge of implementing a smart city is making each of the pieces fit with one another.

In an urban environment, making a system built in the 1930s work with an enterprise data management solution developed months ago can be a challenge. Parsons has worked with every major manufacturer and technology provider in the world, and we know how to make everything fit together to meet the needs of your smart city.

Solutions-Based Innovation

You have millions of data points, thousands of citizens, and dozens of technologies. Now what?

Parsons' approach is focused on how new technologies can fit within your smart city—not the other way around. As planners, designers, and construction experts, we work with your staff and your citizens to identify best practices—new and old—to meet existing and future needs. Our focus on the solution rather than the technology is what lets us develop practical, fundable, buildable innovations.