

Smarter infrastructure with IIJA



The Infrastructure Investment and Jobs Act (IIJA) is a historic opportunity to revitalize our nation's very foundation. But the funding isn't just for physical infrastructure, IIJA provides hundreds of billions of dollars for state and local governments to modernize technology – upgrade to cloud-based systems, incorporate intelligent, sensor-based automations, bridge the digital divide and build future-ready communities. It's an opportunity to create smarter, safer, more efficient and more cost-effective infrastructures for our cities and states.

This virtual infrastructure has a variety of names – intelligent solutions, the Internet of Things (IoT), smart city technology – but regardless of what you call it, these IIJA investments combine physical objects with connectivity to optimize performance, reduce waste and improve quality of life. Smart city solutions include:

- Transportation management systems
- Fleet management systems
- Electric vehicle (EV) charging infrastructure
- Intelligent lighting
- Intelligent video
- Power grid solutions
- Smart meters
- Private networking
- Asset tracking

For example, utilities can use IoT to create smart grids and meters for electricity, water and gas. Sensors collect and share customer usage data, then the information is used to optimize the deliv-

ery of services, cut down energy waste and improve service reliability.

IIJA also includes smart solutions for transportation. By equipping vehicles with IoT sensors, transportation systems can collect and analyze data about traffic flow and road conditions in near-real-time, enabling more efficient routing and reducing congestion. Similarly, IoT sensors can be used to monitor the structural health of bridges and other critical infrastructure, alerting engineers to potential problems before they become dangerous.

Overall, IIJA recognizes the potential benefits of IoT technology in improving infrastructure systems and includes provisions to support its use in a variety of areas. By investing in smart IoT technology, infrastructure projects can optimize operations, cut costs, improve sustainability and help create a more resilient and prosperous future. Because good technology is good infrastructure

Helpful Links:

- [White House IIJA Guidebook](#)
- [White House IIJA State Funding Fact Sheets](#)
- [DOT IIJA grant programs](#)
- [DOE IIJA funding opportunities](#)

