

**OPTICOM™**  
SMART MOBILITY

# FEDERAL FUNDING GUIDE BOOK

USE FEDERAL FUNDS TO IMPROVE SAFETY AND EQUITY IN YOUR COMMUNITY

---



GLOBAL TRAFFIC TECHNOLOGIES

An aerial view of a city skyline with tall buildings and streets, overlaid with a blue tint. The image is split into four quadrants by a green and yellow background. The top-left and bottom-left quadrants are green, the top-right and bottom-right are blue, and a yellow horizontal band runs across the middle.

# IN THIS BOOK

- An Overview of OPTICOM
- An introduction to solutions
- Key federal funding Themes
- Links to resources



Since the start of the coronavirus pandemic, several major federal funding initiatives have made available money to make significant, lasting investments in infrastructure in the United States.

Federal legislation continues, expands, and adds new formula-based and competitive grant funding programs aimed at providing COVID-19 relief, investing in infrastructure, and replacing lost revenue.

Coronavirus Aid, Relief, and Economic Security Act (**CARES**)

The diagram features a horizontal yellow line with an arrowhead pointing to the right. Four vertical yellow lines connect this horizontal line to text labels. The labels are: 'Coronavirus Aid, Relief, and Economic Security Act (CARES)' (top-left), 'Coronavirus Response and Relief Supplemental Appropriations Act (CRRSA)' (bottom-left), 'American Rescue Plan Act (ARPA)' (top-right), and 'Infrastructure Investment and Jobs Act (IIJA)' (bottom-right). The background is a dark blue-tinted image of the U.S. Capitol building.

American Rescue Plan Act (**ARPA**)

Coronavirus Response and Relief Supplemental Appropriations Act (**CRRSA**)

Infrastructure Investment and Jobs Act (**IIJA**)

Certain programs authorized by these laws have a narrow focus while others give agencies **“broad latitude”** to use the funds for revenue replacement caused by the pandemic.

Many communities across the country have already deployed or are considering projects that enhance their transportation systems' **safety, reliability, and flexibility**. This includes investments in roads, traffic lights, municipal fleets, public transportation, and public safety services.



Traffic Infrastructure



Public Safety



Public Transportation

The graphic features a background image of the U.S. Capitol building, rendered in a dark blue, semi-transparent style. On the left side, there is a solid yellow horizontal bar. The title 'American Rescue Plan Act' is written in large, white, sans-serif font, stacked vertically. On the right side, there is a solid dark blue vertical bar. At the bottom of this bar, there is a solid green horizontal bar.

# American Rescue Plan Act

## WHAT IS AVAILABLE?

The U.S. Treasury has allocated more than \$350 billion in state and local aid.

## HOW CAN I USE THESE FUNDS?

Municipalities have broad latitude to use this money to offset Coronavirus impacts. This includes replacing lost revenue, modernizing critical infrastructure, and provisioning public safety services.



## WHAT IS AVAILABLE?

The law authorized more than \$550 billion in infrastructure spending, with more than \$108 billion specific to transit projects.

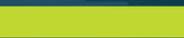
## HOW CAN I USE THESE FUNDS?

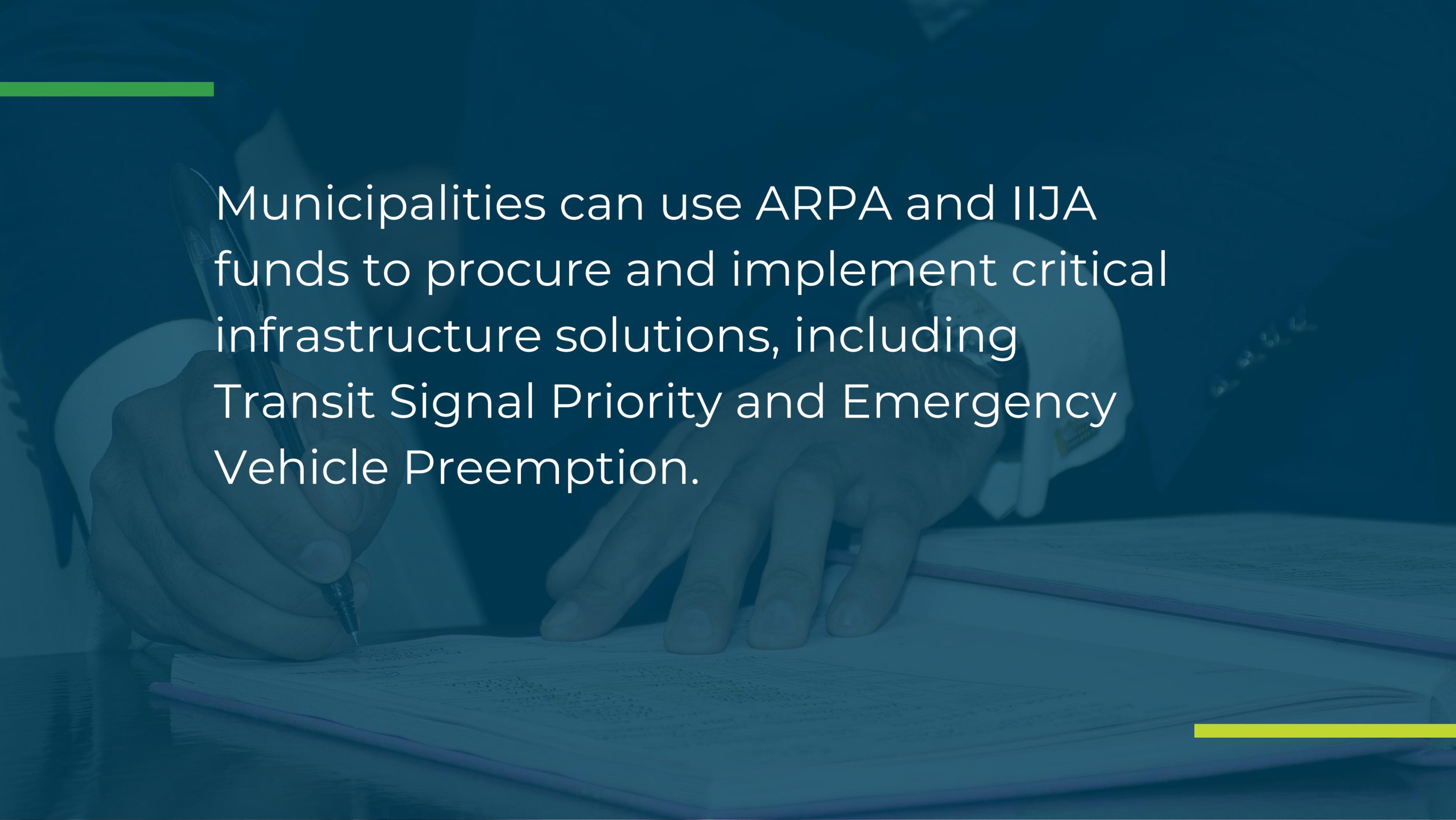
Part of the law expands traditional funding formula programs, while also funding additional competitive grant programs.

Money can be used for surface transportation projects, fleet repair/replacement and other capital and operating initiatives.



# Infrastructure Investment and Jobs Act





Municipalities can use ARPA and IIJA funds to procure and implement critical infrastructure solutions, including Transit Signal Priority and Emergency Vehicle Preemption.

An aerial photograph of a residential neighborhood, showing houses, streets, and green spaces. The image is overlaid with a semi-transparent blue filter. A bright yellow rectangular border frames the central text.

While these solutions are important standalone projects, taking a coordinated, collaborative approach to investments in infrastructure can have a multiplying effect for communities.

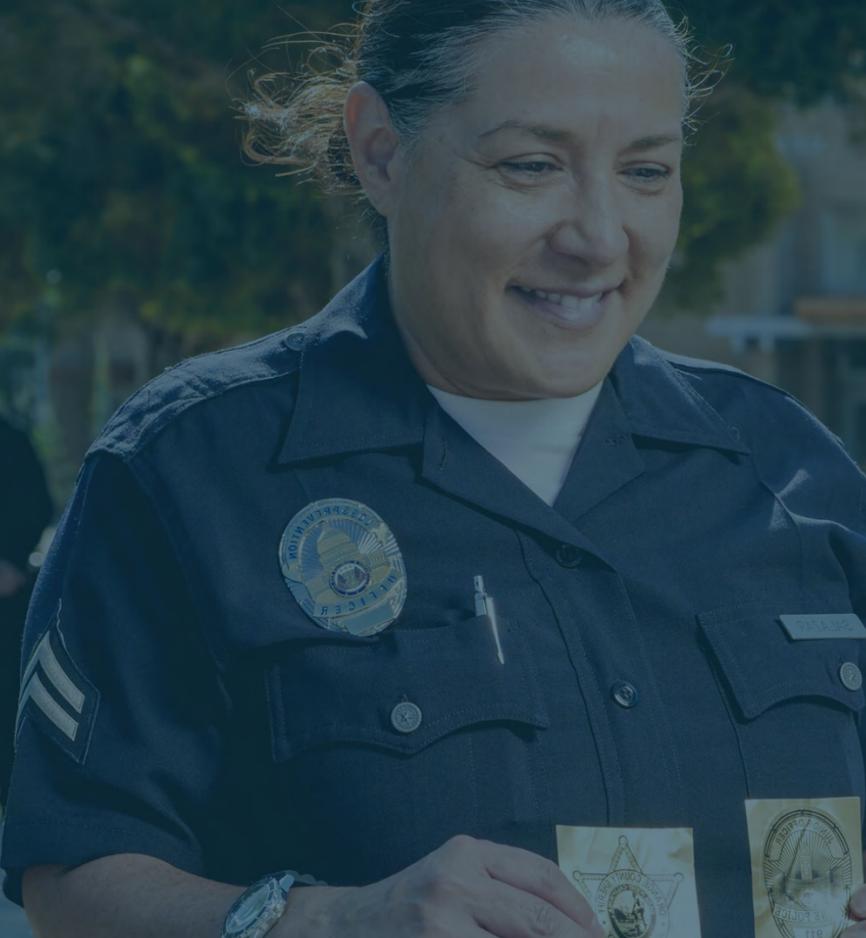
A project to improve transit reliability can also benefit public safety vehicles if they're able to leverage the signal priority infrastructure for preemption at those intersections.



Likewise, traffic professionals can tap into data generated by the vehicle and wayside systems to provide more insights into traffic performance.



Ultimately, a cooperative approach to infrastructure investment will benefit all roadway users.





Infrastructure projects with a unifying technology like priority control can bring improved safety, reliability and flexibility.

This gives your community a visible, long-lasting improvement with a powerful return on your investment.

# OPTICOM Mobility Solutions

---

GTT's Opticom solutions -- Transit Signal Priority and Emergency Vehicle Preemption -- meet federal criteria for certain applications authorized by these new federal funding laws.



# Emergency Vehicle Preemption

Preempt normal traffic light cycles to enable vehicles to respond quickly and safely

- Decrease response times by up to 25%\*
- Reduce intersection crash rates by up to 70%\*
- Increase first responder safety
- Improve patient and incident outcomes

Request priority to extend a green light, allowing vehicles to make up lost time.

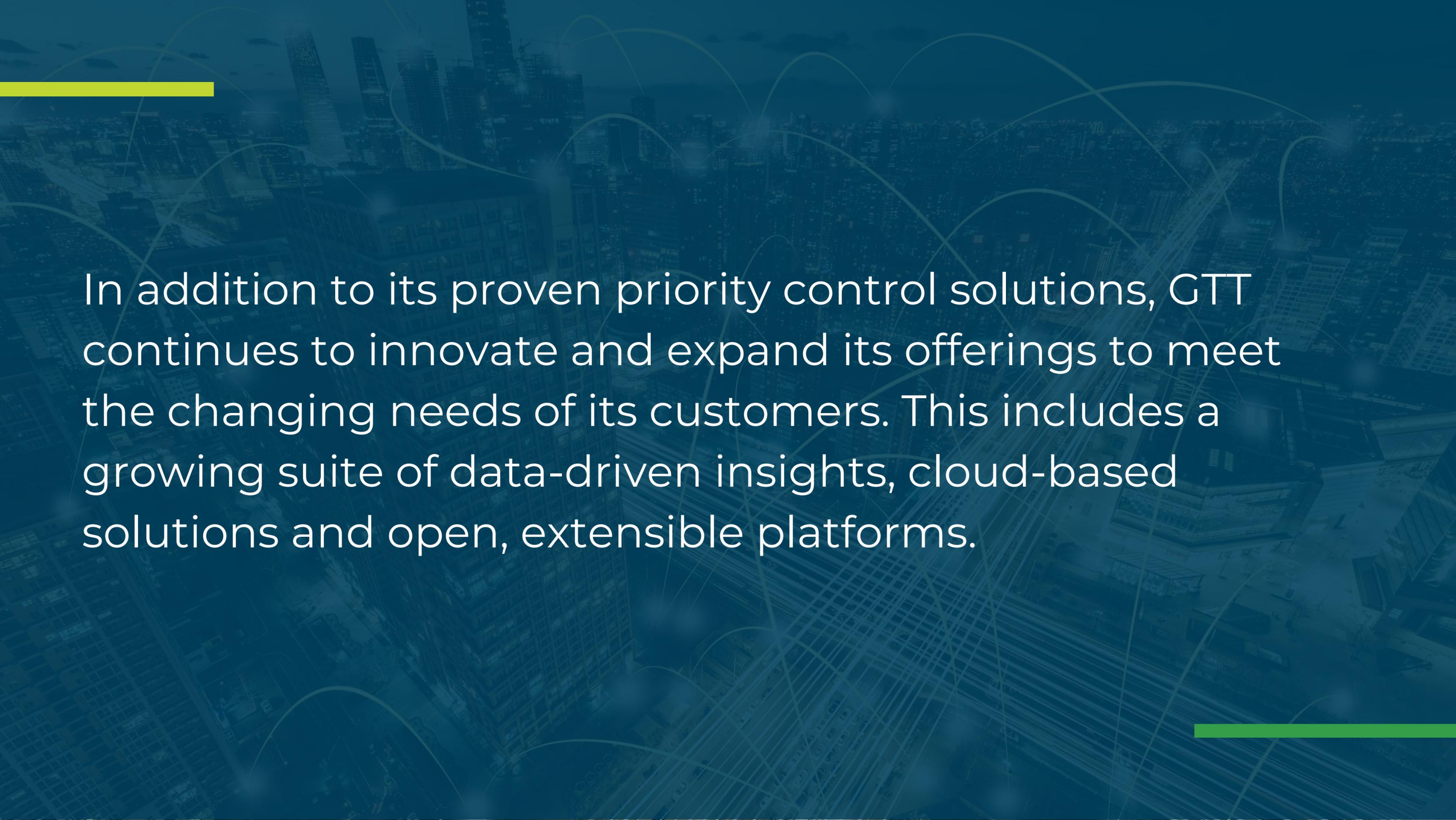
- Reduce delays at traffic signals by up to 29%\*
- Reduce stops at red lights by up to 11%\*
- Ensure more predictability for riders
- Create less variability for electric vehicle recharging time

# Transit Signal Priority



With Opticom, cities get smart mobility management for all types of vehicles, powered by traffic signal priority control.



An aerial view of a city grid with a blue overlay and white network lines connecting various points. A yellow horizontal bar is in the top left, and a green horizontal bar is in the bottom right.

In addition to its proven priority control solutions, GTT continues to innovate and expand its offerings to meet the changing needs of its customers. This includes a growing suite of data-driven insights, cloud-based solutions and open, extensible platforms.

# NEXT-GEN OPTICOM SOLUTIONS



## PRIORITY CONTROL ANALYTICS

Presentations are communication tools that can be demonstrations.



## CLOUD-BASED SIGNAL PRIORITY

Presentations are communication tools that can be demonstrations.



## OPTICOM SIGNAL CORE

Presentations are communication tools that can be demonstrations.



The benefits of priority control relate directly to several key themes highlighted in recent federal funding laws.

Focusing on these themes and the collaborative nature of their projects, communities can apply for federal funds that help solve major mobility challenges.

# KEY THEMES

## **SAFETY**

Ensuring safe transportation for all modes of travel; Enable Vision Zero

## **EQUITY**

Improve connectivity to opportunities and reduce disparity in transit access

## **MODERNIZATION**

Replace and repair infrastructure and modernize vehicle fleets

## **CLIMATE**

Reduce traffic congestion and enable zero-emission fleet transformation

# SAFETY

## HOW GTT CAN HELP

- Prioritize roadway users by modality to reduce intersection conflict and congestion
- Reduce intersection crash rates by up to 70%

## FEDERAL FUNDING OPTIONS

- Strengthening Mobility and Revolutionizing Transportation (SMART) Grant Program
- Advanced Transportation Technologies and Innovative Mobility Deployment Program
- Rebuilding American Infrastructure with Sustainability and Equity
- Safety Data Initiative

# CLIMATE

## HOW GTT CAN HELP

- Promote efficient driver behaviors – less speed variation, reduced hard braking and less aggressive acceleration
- Fewer unnecessary stops and faster average travel times

## FEDERAL FUNDING OPTIONS

- Grants for Charging and Fueling Infrastructure
- Carbon Reduction Program
- Congestion Relief Program
- Promoting, Resilient Operations for Transformative, Efficient, and Cost-saving Transportation (PROTECT)

# EQUITY

## HOW GTT CAN HELP

- Deliver more flexible routing with conditional and relative priority to meet changing ridership demands
- Achieve operational efficiencies to allocate assets and routes to underserved communities

## FEDERAL FUNDING OPTIONS

- Rebuilding American Infrastructure with Sustainability and Equity
- Reconnecting Communities Pilot Program
- Vulnerable Road User Research Program

# MODERNIZATION

## HOW GTT CAN HELP

- Bridge the gap between legacy systems and future technologies with an integrated solutions provider
- Deploy long-lasting solutions with ongoing support services

## FEDERAL FUNDING OPTIONS

- State of Good Repair Grants
- Grants for Buses and Bus Facilities
- Research on Connected Vehicle Technology
- Emerging Technology Research Pilot Program

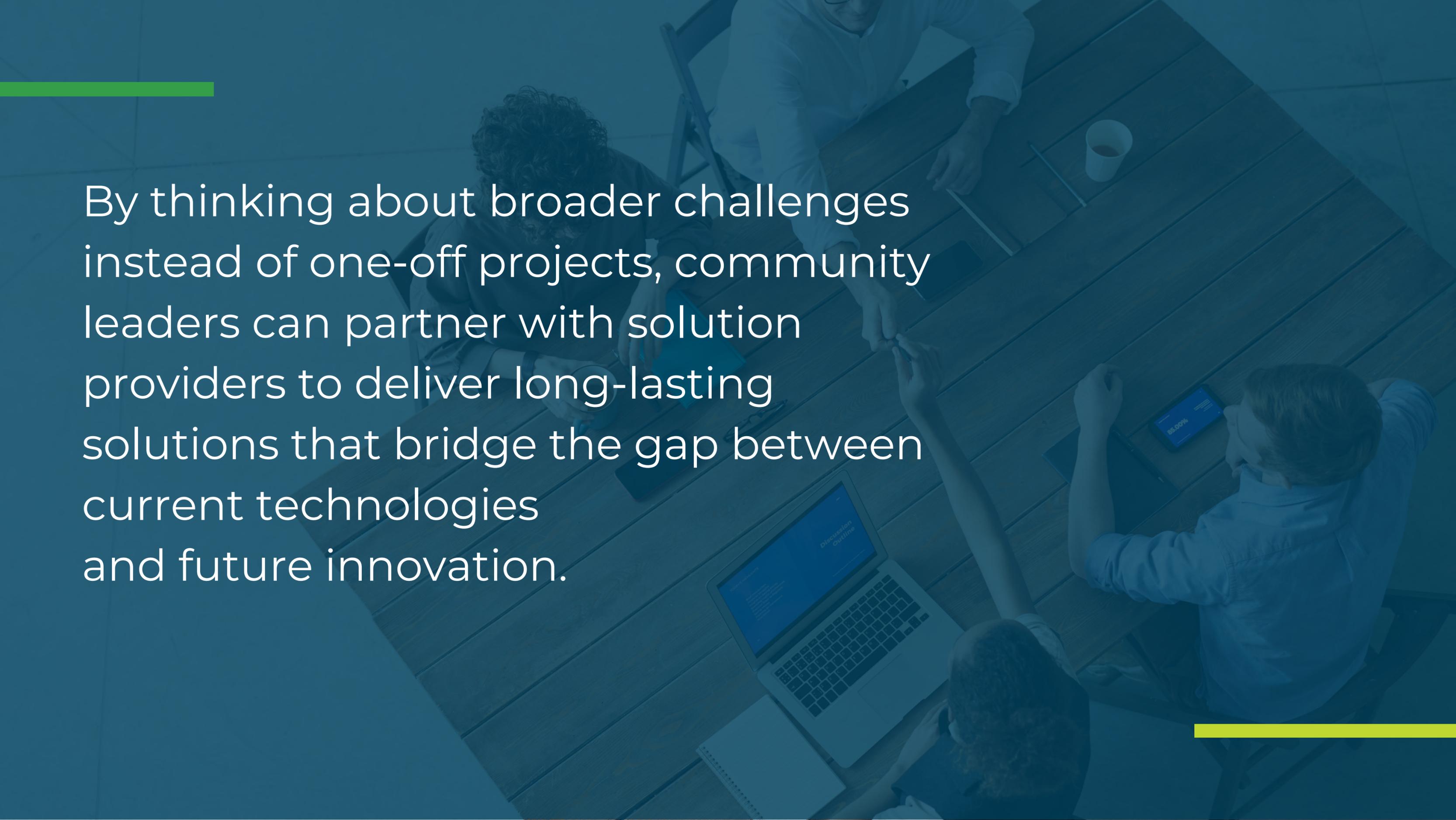
# LINKS TO FEDERAL RESOURCES

## IIJA

- [U.S. Department of Transportation overview](#)
- [Federal Transit Administration overview](#)

## ARPA

- [U.S. Treasury state and local funds](#)
- [Federal Transit Administration funds](#)



By thinking about broader challenges instead of one-off projects, community leaders can partner with solution providers to deliver long-lasting solutions that bridge the gap between current technologies and future innovation.

INSTALLED IN  
**48 OF THE 50**  
LARGEST U.S.  
CITIES



**5,000+**  
CUSTOMERS  
WORLDWIDE



**180,000+**  
CONNECTED VEHICLES  
AND INTERSECTIONS



**WORLD-CLASS  
CUSTOMER  
SERVICE**

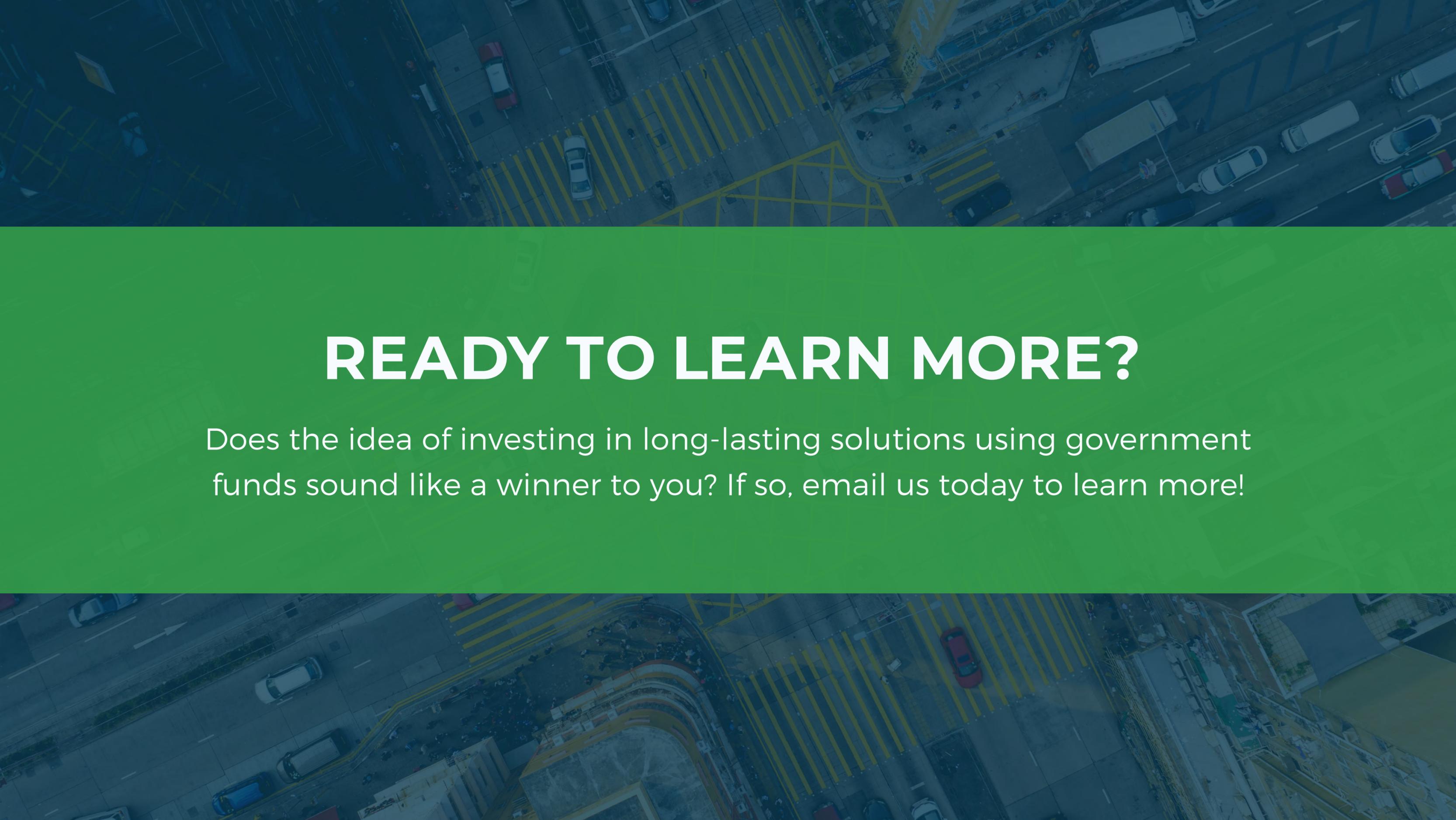


CONSISTENT TOP QUARTILE  
NET PROMOTER SCORE®

# About GTT

As the market leader in priority control, GTT has a depth and breadth of experience collaborating with government agencies to provide fiscally-responsible solutions.

More than 5,000 municipal, regional, and state agencies – including 48 of the 50 largest U.S. cities – trust GTT's Opticom™ priority control solutions to help increase safety, minimize traffic congestion and reduce greenhouse gas emissions while maximizing resource efficiency and performance.



# READY TO LEARN MORE?

Does the idea of investing in long-lasting solutions using government funds sound like a winner to you? If so, email us today to learn more!

---

# CONNECT



## ASK A QUESTION

Al Kuchera, Market Manager  
Al.Kuchera@gtt.com

## TAKE A DEEPER DIVE

Watch webinars, read whitepapers  
and case studies at [gtt.com](http://gtt.com)

## FIND YOUR REP

Connect with your regional manager  
at [gtt.com](http://gtt.com)