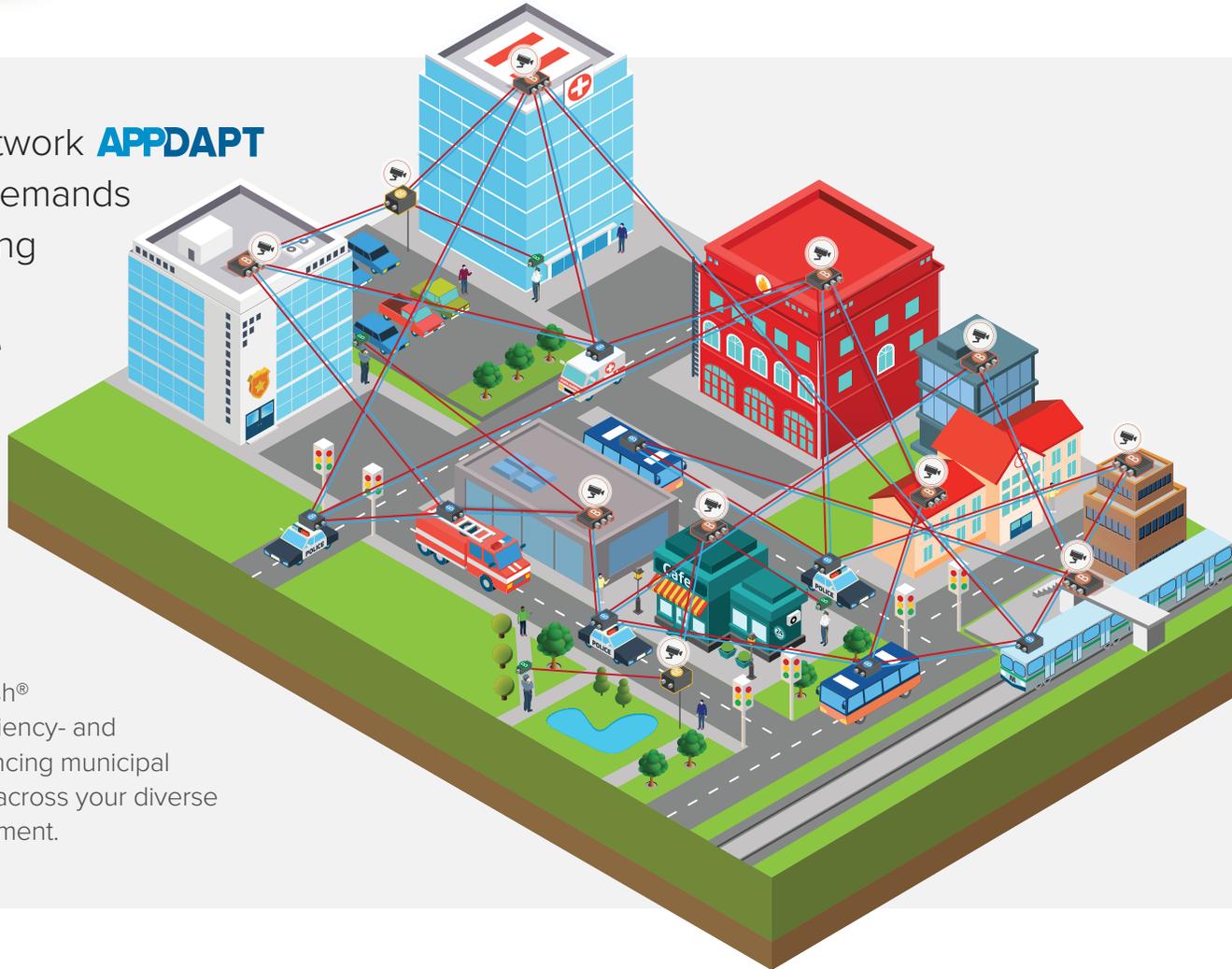


TAKE THE RAJANT  
**APPLICATION  
CHALLENGE**  
HOW APPDAPTABLE IS YOUR NETWORK?

RAJANT

Can your network **APPDAPT**  
to growing demands  
for unwavering  
application  
performance  
and total  
mobility?



Rajant Kinetic Mesh®  
networks run efficiency- and  
productivity-enhancing municipal  
applications 24/7 across your diverse  
operating environment.

## Applications Important to Streamlining Our Customers' Municipal Operations:

Public Safety | Municipal Government | State / Federal Government

- Video Surveillance
- Situational Awareness
- Evidence Gathering and Dissemination
- Traffic Control
- Traffic Enforcement
- Automated Red-Light Violations
- Automated Parking Violations
- Event Monitoring
- First-Responder Communications
- Emergency Response
- Communications
- Emergency Preparedness
- Real-Time Data Access
- Disaster Recovery
- Vehicle-to-Vehicle
- Communications
- Remote Application Access
- 9-1-1 Communications
- Crowd Control
- Live Video Feeds
- Alert Broadcasts
- Neighborhood Watch
- Voice-over-IP
- Border Control
- Border Surveillance
- Inter-Agency Communications
- Intra-Agency Communications
- Vehicle Health Monitoring
- Fuel Management
- Machine-to-Machine Communications

Many of the business-critical applications listed are supported in Rajant customer networks.

## Maximize Network Adaptability with Easy-to-Deploy BreadCrumb® Wireless Nodes

Using Rajant's industrial-strength BreadCrumb wireless nodes powered by our patented InstaMesh® networking software, you can create a self-healing network able to dynamically adapt as people and assets move across your environment—all while keeping the network available, intact, and secure.

Each BreadCrumb can connect with multiple neighboring nodes via multiple links, providing fully redundant communications throughout the network. InstaMesh orchestrates this traffic and automatically optimizes communications based on physical surroundings and frequency availability.



**BreadCrumb LX5**



**BreadCrumb ME4**

Any BreadCrumb can be fixed or mobile, infrastructure or edge. The small-footprint, lightweight nodes are readily deployed on vehicles, towers, lampposts, buildings, and personnel.

Consider the following ways a Rajant Kinetic Mesh® network can help your city to both reduce expenses and enhance profitability.

### REDUCE COSTS with Improved Operational Efficiency.

#### Minimize public transportation delays and downtime.

A single train delay can cost up to **\$213 per hour** of the delay.<sup>1</sup>

Rajant's network supports sensors, cameras, and devices on smart buses and trains to remotely monitor and proactively manage vehicle health, speeds and locations, traffic optimization, and more.

#### Optimize energy consumption using real-time data.

Cities have cut energy costs by as **much as 25%** using sensors installed city-wide.<sup>2</sup>

Run IoT applications that provide real-time views of water supply systems, electrical grids, and other utility systems to identify consumption patterns and opportunities to reduce wastage.

#### Enhance public safety to deter crime.

Information sharing between police departments allows for as much as a **25% reduction** in crime rate.<sup>3</sup>

Connect mobile first responders and law enforcement teams with command centers to give them real-time information in route to incidents, allowing them to plan and coordinate on-scene actions.

### INCREASE REVENUES with Greater Productivity.

#### Unlock the efficiencies—and value—of a 'Smart City'.

A fully integrated smart city layout can contribute to an additional **15% of GDP growth**.<sup>4</sup>

Utilize Rajant's network to implement a plethora of technologies that support a full ecosystem of services and solutions, from utilities to transportation, security, automation, and more.

#### Attract more ridership to public transit.

Implementing bus tracking has been shown to **increase ridership anywhere from 2% to 5%**.<sup>5</sup>

Run tracking applications that give you real-time status of city bus and train routes—keeping service running efficiently and effectively to increase rider satisfaction and loyalty.

#### Bring in new revenue.

**56% of American drivers** admit to running a red light.<sup>6</sup>

With Rajant's network, you can implement automated red light cameras on traffic lights and use bus cameras to issue parking tickets—keeping your streets safer while bringing in new revenue.

### See the ROI for Yourself

Submit your application requirements—both current and desired—to Rajant's team at [www.rajant.com/applicationchallenge](http://www.rajant.com/applicationchallenge) to get started today!

1. [https://www.researchgate.net/publication/236589043\\_Rail\\_Passenger\\_Service\\_Delays\\_An\\_Overview](https://www.researchgate.net/publication/236589043_Rail_Passenger_Service_Delays_An_Overview)

2. <http://insidebigdata.com/2015/10/25/the-benefits-of-becoming-a-smart-city/>

3. <https://hbr.org/2012/10/tech-savvy-cities-are-saving-m/>

4. <http://www.consultancy.uk/news/2502/smart-city-market-revenues-to-grow-to-2-trillion-by-2020>

5. <http://www.thirteen.org/metrofocus/2012/03/does-knowing-count-comparing-urban-bus-tracking-systems-and-ridership/>

6. <http://brgov.com/redlight/redlightrunningfacts.htm>

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