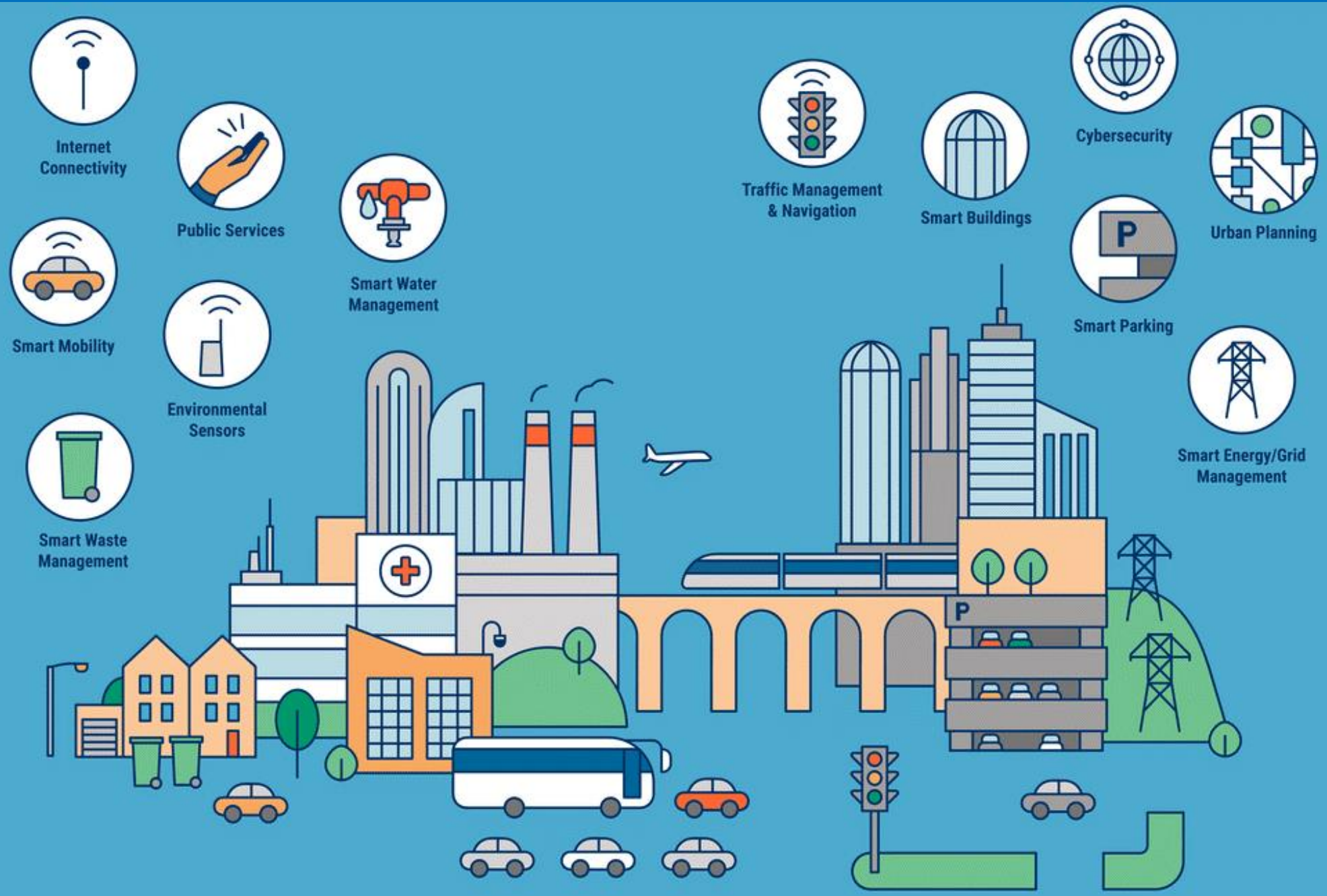
MARQUEE
WIRELESS SOLUTIONS

Smart City Applications & Solutions

5G and Gov Tech
Athens, Greece
October 25, 2023


Internet Connectivity
Public Services
Smart Water Management
Traffic Management & Navigation
Smart Buildings
Cybersecurity
Urban Planning
Smart Mobility
Environmental Sensors
Smart Parking
Smart Waste Management
Smart Energy/Grid Management
P
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Smart City demands

77%

Sustainability

Reduce Greenhouse emissions
Renewable Energy
Transportation

44%

Quality of Life

44%

Public Safety

35%

Public Health

* S&P Global Survey

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Smart City Solutions

Technology/Smart Infrastructure

Network

Devices

Analytics

Users/Beneficiaries

Economic Development

- Connected Communities
- Digital Government
- Open Data
- Civic Engagement
- Workforce Development

Infrastructure

- Smart Lighting
- Smart Waste
- Water Management
- Smart Buildings
- Remote Monitoring

Transportation

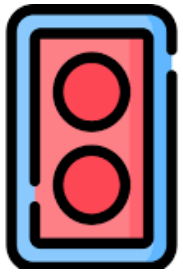
- Traffic Management
- Electrification
- Connected Vehicles
- Smart Parking
- Fleet Management
- Autonomous Vehicles

Public Safety

- Video/Data Analytics
- Critical Infra Monitoring
- Environmental Monitoring
- Smart Parks
- Drone Monitoring
- Emergency Management

Street Infrastructure

LED Lights

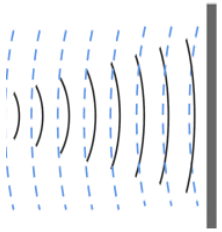


Photocells

Earthquake Detection

EV Charging

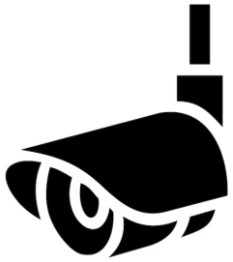
Digital Signage



Sound Detection

Water Detection

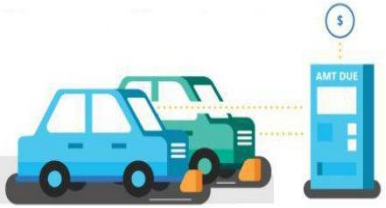
Smart Mobility



IP Cameras

Image Analytics

Emergency Button



Smart Parking

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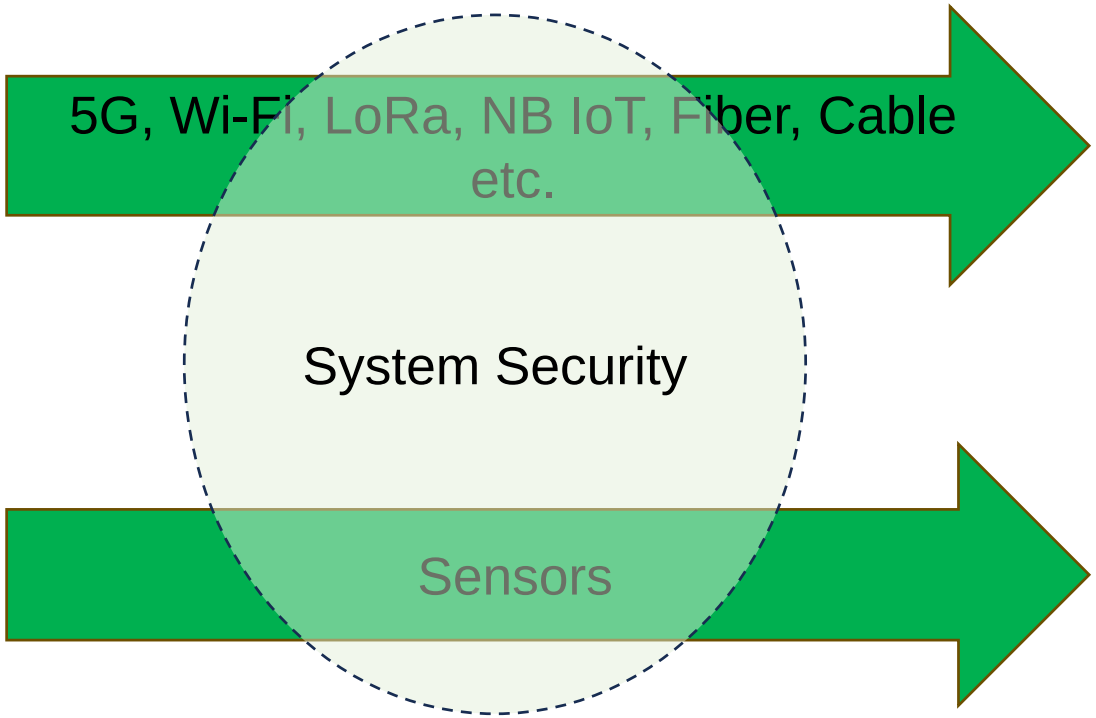
Technology & Data Analysis



- Massive Data is generated through connected infrastructure and IoT devices
- AI and data analytics turn data to actionable decisions
- Citizen input and real time data are integrated
- Interoperability between systems are becoming adopted
- Involve Network Providers as partners/advisors in discussions/deployments
- Results are assessed and applied

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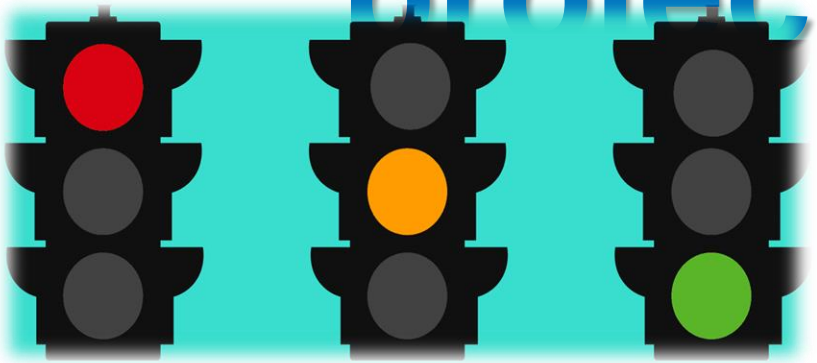
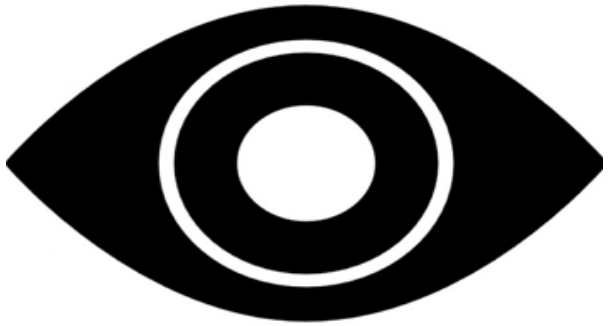
USA Smart City projects



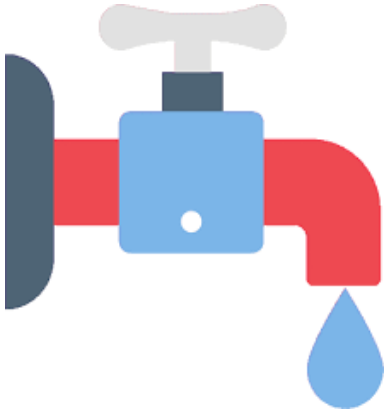
Austin TX, Palo Alto CA, Raleigh NC
Charlotte NC, Washington DC, NY NY,
Pittsburgh PA, Chicago IL

Denver CO, San Jose CA, Chicago IL
Minneapolis MN, Chattanooga TN,

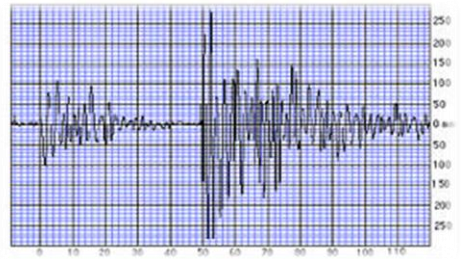
Austin TX, Boulder CO, Boston MA,
San Francisco CA, San Antonio TX,



Little Rock AR, Minneapolis MN,
LA CA, Chicago IL, NY NY, Atlanta GA



Dallas TX, Seattle WA



Seattle WA

San Francisco CA

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Multi-platform SMARTCELL™

- **Platform is Customized to colors & graphics of choice to match the venue and is lit at night**
- **Smart City features**
  - Cellular Service
  - Surveillance (Safety)
  - Emergency Button (Safety)
  - Wi-Fi (Communications)
  - Emergency Station (Safety)
  - Smart Sensors (Environmental)
  - Beacons (Communications)
- **Interactive Kiosk**
  - LCD display
  - Venue & Community Information
  - Advertising
  - Smartphone interactivity

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ciena

CORNING

DELL

HK

LG

JUNIPER NETWORKS

AGI

Ruckus

celona

DOYLE

veea

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Modular, flexible design

at&t

SMARTCELL™ MACRO site

3 sectors, 700/1900/2100 MHz dual frequency Radios, Wi-Fi, Cameras, Sensors

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MasTec

ERICSSON

at&t

SMARTCELL™ integrated with EV Charging Stations

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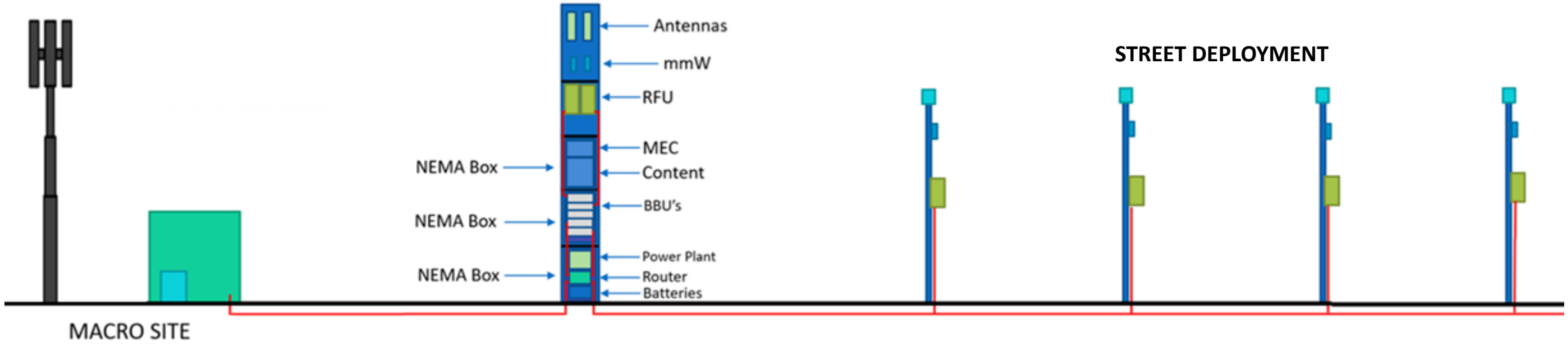
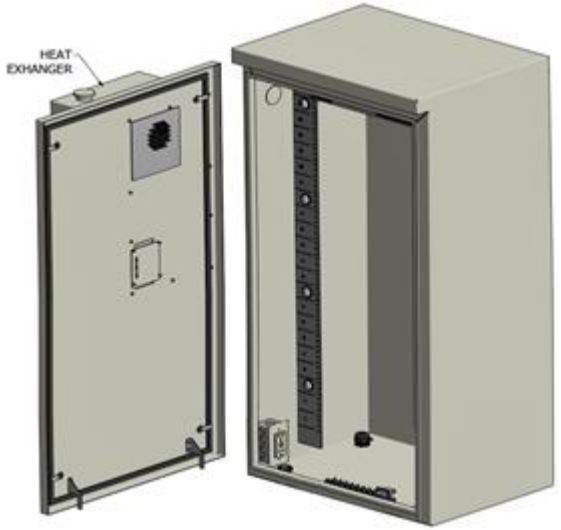
Street BBU Hotel/Mobile Edge





Expected Latency is less than 2 msec

MEC processing and data storage at the Street Level.

Individual sort-hop Fiber links from the SMARTCELL™ to the Local Small

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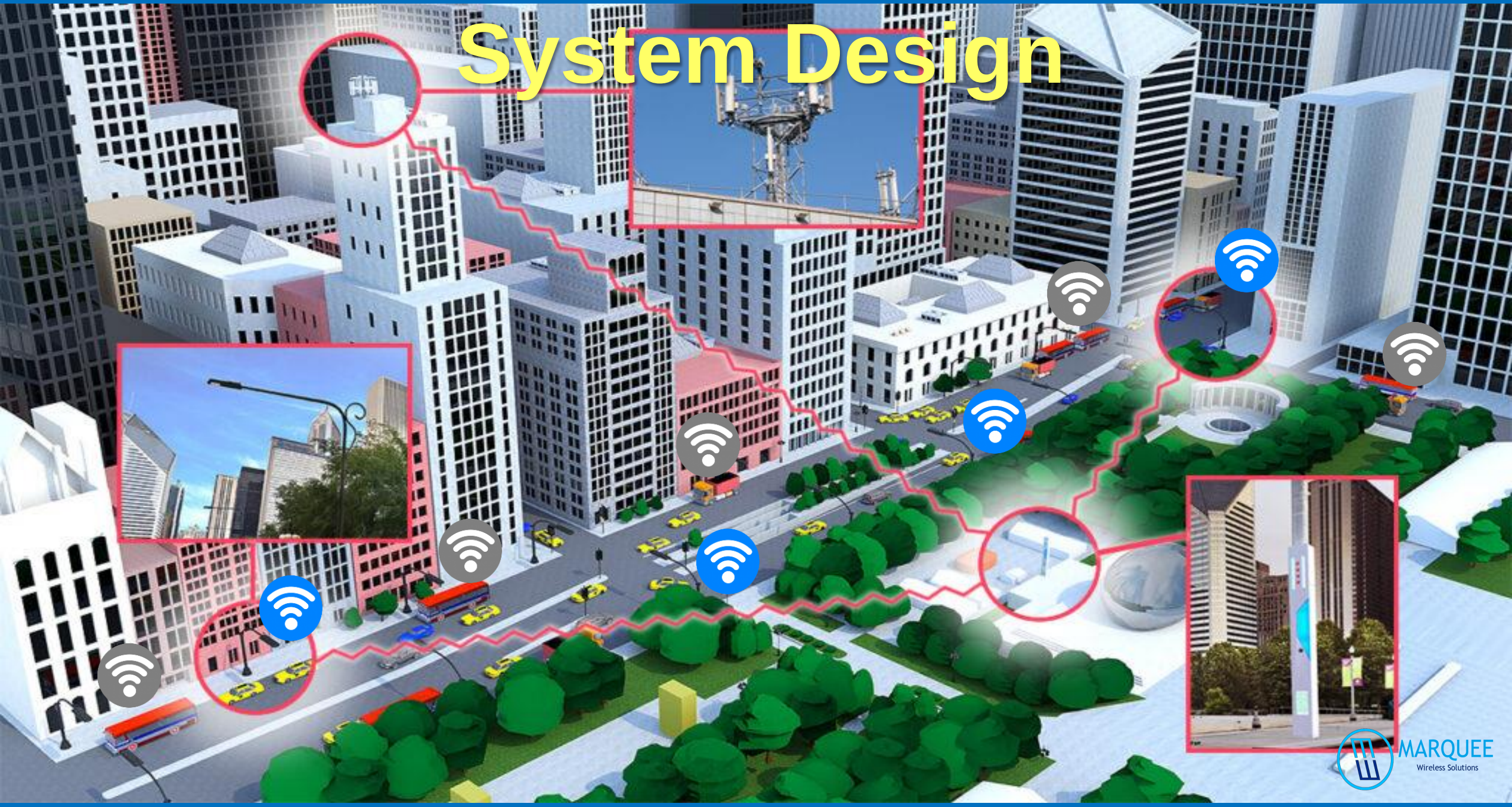
System Design



PARTNERSHIP is KEY

- Find a partner that is RESOURCEFUL has deep expertise in technology and offers the right connectivity solutions
- Find a RELIABLE partner that can work with other team members to provide essential network infrastructure
- Find a partner that can SCALE quickly to ADAPT to the demand
- Find a partner that is capable in delivering NEXT-GEN SOLUTIONS
- Find a partner that can move data REGARDLESS of technical incompatibilities (software and hardware)

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Thank you!

For more information

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