"Getting to Smart" Connected Cities Tour

Connectivity and Bandwidth are the oil of the Gig Economy.

Network Technologies such as: 4G/5G, IoT, Fiber, Small Cell and Wi Fi are Transforming How Society Operates.

These sessions bring together thought leaders from Government, Enterprise, Academia and the Tech Community to look at the Business Models, Technology Architectures and action plans that City and Community ecosystems are using to build Dense Broadband Infrastructure.

Be part of the Solution

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2019 - 2020 Event Schedule

| September 10 | Seattle |
|--------------|--------------|
| September 19 | St. Louis |
| October 23 | Los Angeles |
| October 29 | San Diego |
| November 14 | New York |
| December 4 | Columbus |
| February 11 | Miami |
| March 12 | Jacksonville |
| March 26 | Atlanta |
| April 30 | Chicago |
| | |

Connected Cities Tour "GETTING TO SMART" Los Angeles

The Palm, 1100 S Flower St. October 23 10:30 am to 3 pm

PRESENTING SPONSOR: GraybaR.

"Getting to Smart" is a quick dose of knowledge to help you navigate in our increasingly mobile, always-on, information intensive, and SMART Society.

Smart Cities require connectivity to enable Smart.

Fiber Optics are essential to dense network capacity and coverage.
4G coverage and capacity is becoming widespread. 5G is emerging.
Small Cell Demand is exponential.

 \cdot Video is driving bandwidth demand. Learn how a Smart Spaces approach is enabling new capability.

 \cdot DAS Networks are critical to Commercial Real Estate both for Public Safety and Functionality.

Join government, tech and enterprise thought leaders as we explore the business models, technology architectures and action plans that are driving innovation and disruptive solutions.





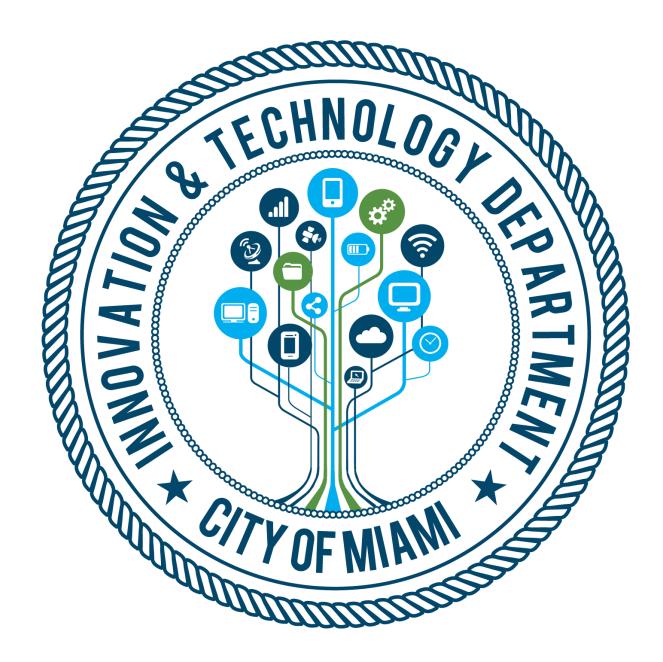
Connected City Smart City



What does "Smart" Mean for the City of Miami?

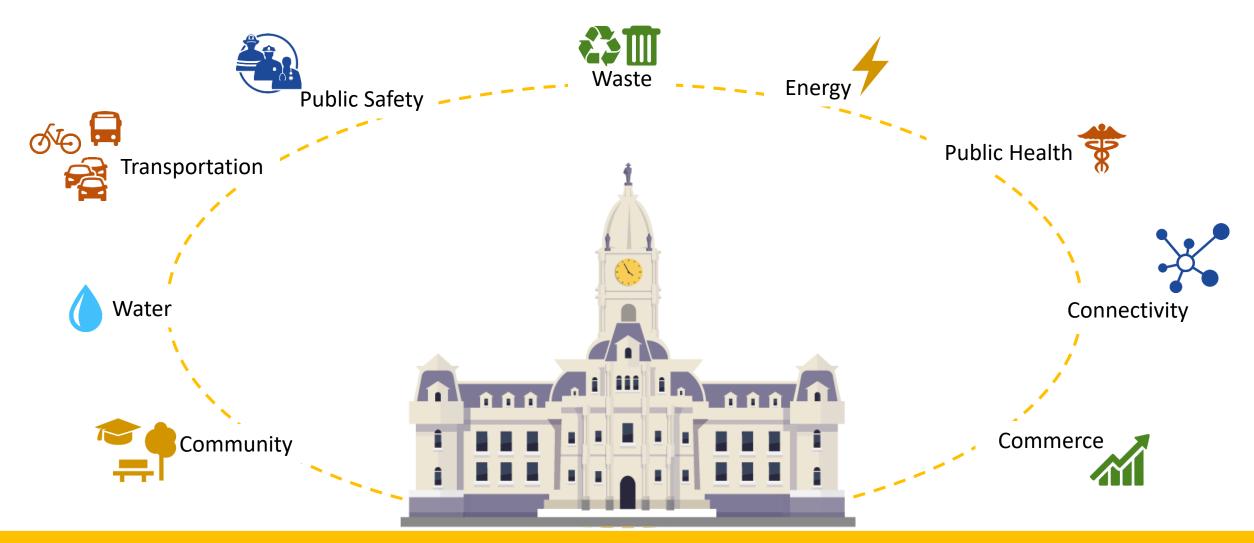
A Smart Miami is:

- Connected
- Equitable
- Resilient
- Sustainable
- Transparent
- Self-Aware



The Big Picture

Smart Collaboration > Improved Efficiency > Faster Response > Better Service



City of Philadelphia | Office of Innovation & Technology

Connect Smart. Grow Smart.



The Smart Cities Framework

TECHNOLOGY ENABLERS

| Instrumentation and Control | | | | | |
|--------------------------------|--|--|--|--|--|
| Connectivity | | | | | |
| Interoperability | | | | | |
| Security and Privacy | | | | | |
| Data Management | | | | | |
| Computing Resources | | | | | |
| Analytics | | | | | |

Health and Human Service

Water and Wastewater

Telecommunications

Transportation

Universal Aspects

Built

Environment

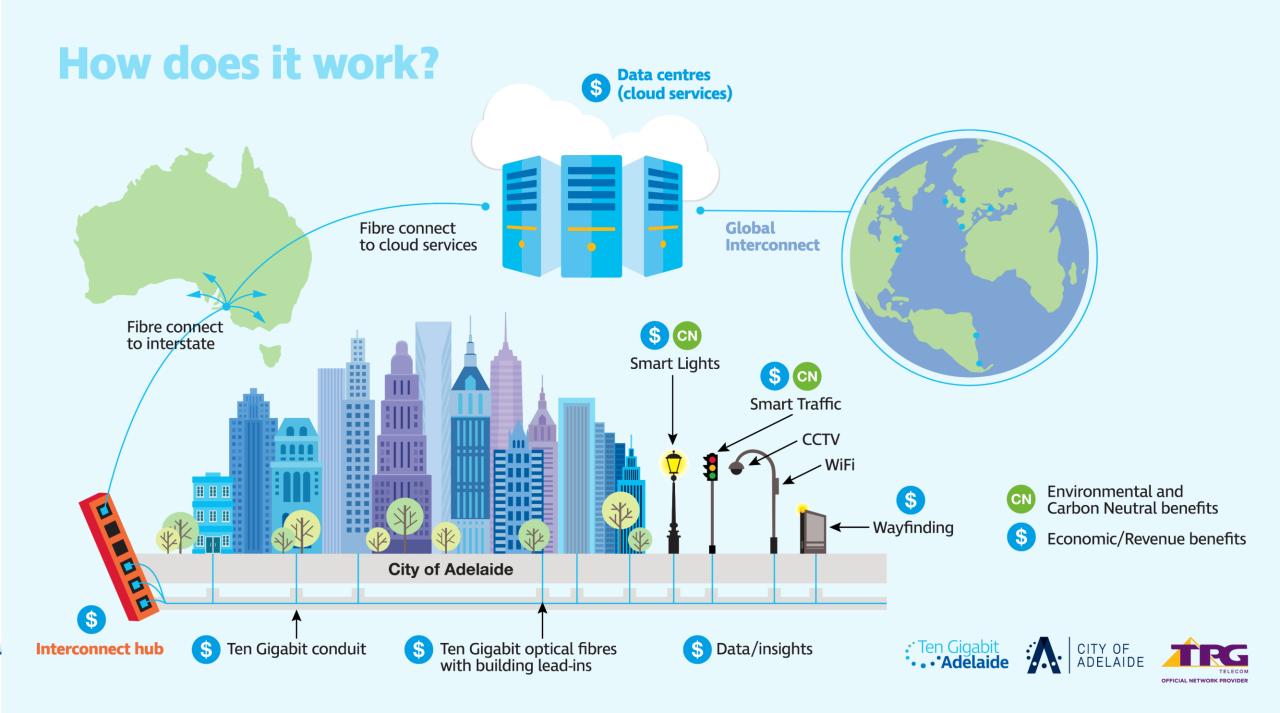
Energy

Payments and Finance

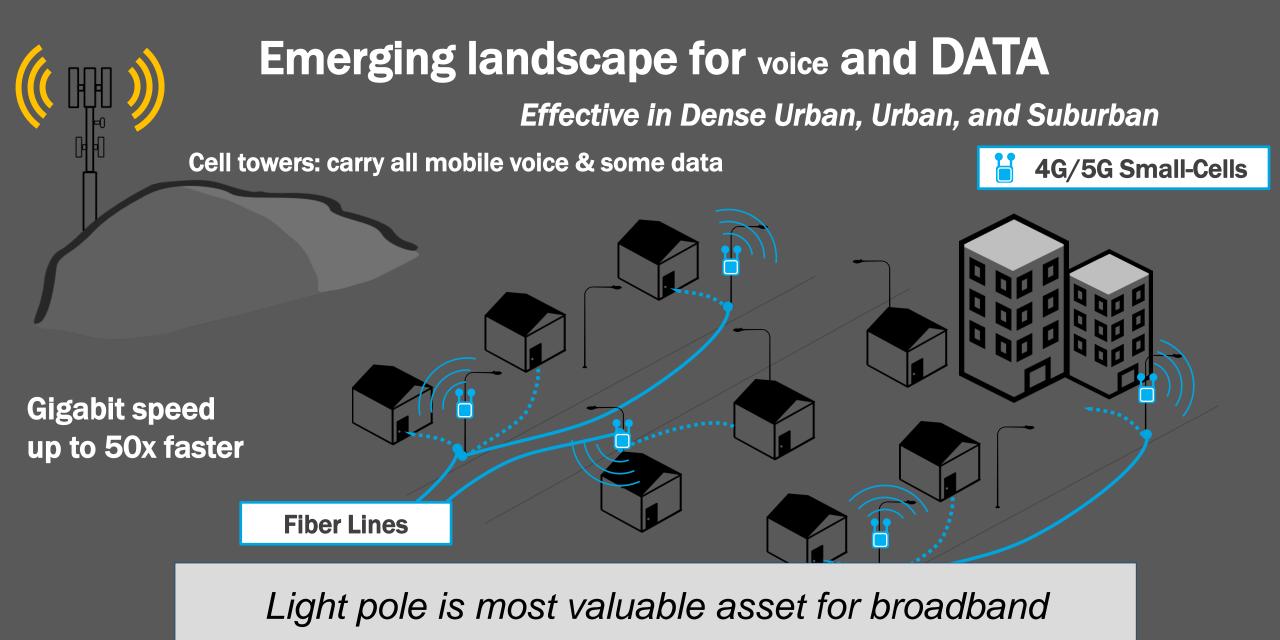
Public Safety

Waste Management

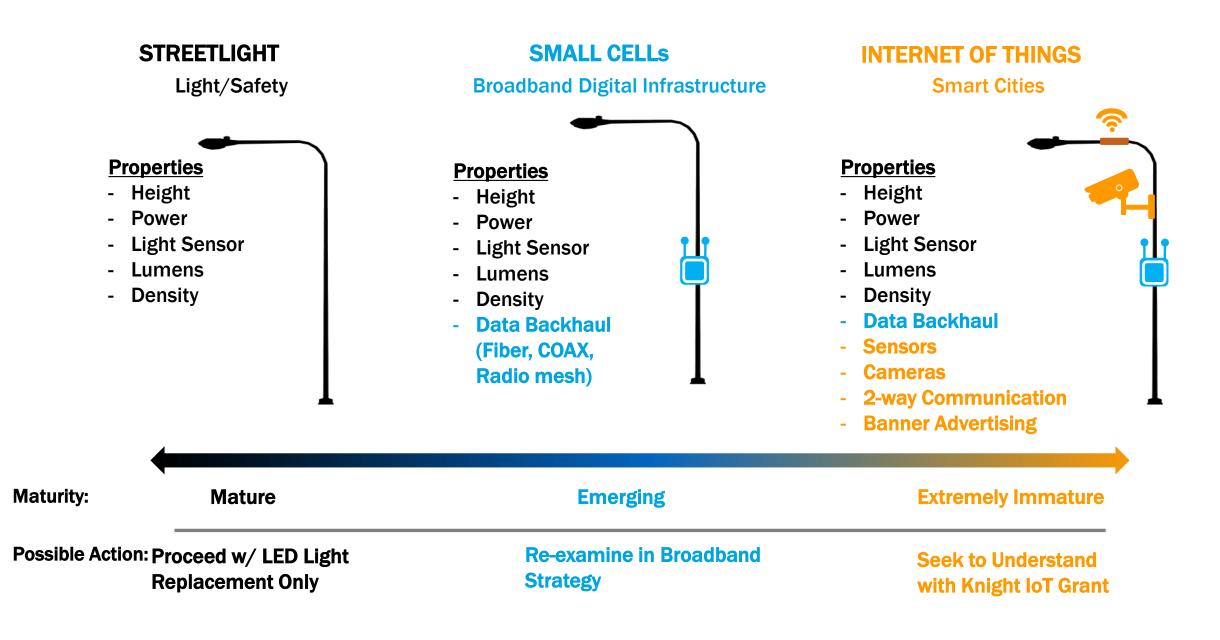




San Jose Broadband Strategy



San Jose Broadband Strategy

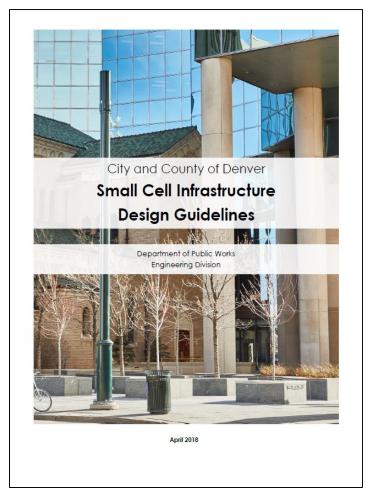




Public Works has created Design Guidelines and a custom Permit process to address:



Company



- Public-facing review process including Districts, City Departments, Neighborhood Orgs
- Policy for co-location first
- Notification of adjacent property owner
- □ Restricting new pole density through min 250' spacing
- **Q** Restricting placement (along parks, historic & residential frontages)
- □ Restricting placement in front of residential & valuable sight lines
- Requiring camouflage and concealment
- Limiting height and equipment size
- Opportunity to coordinate fiber conduit











DenseNetworks.com

DOWNTOWN INNOVATION DISTRICT

The city is working quickly to create a place where intelligent transportation systems and smart technology operate seamlessly to provide services efficiently to its 650,000 residents and 42 million visitors.

lasvegasnevada.gov

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Smart Street lighting

- **GOAL:** 100% LED streetlight by 2020
- OUC working to retrofit 25,000+ streetlights to LED
 - 18,000 currently retrofitted
- Exploring test of new "Smart Streetlights" in Downtown
 - LED technology
 - Video surveillance
 - Environmental monitoring
 - Traffic analytics
 - Wi-fi / DAS systems

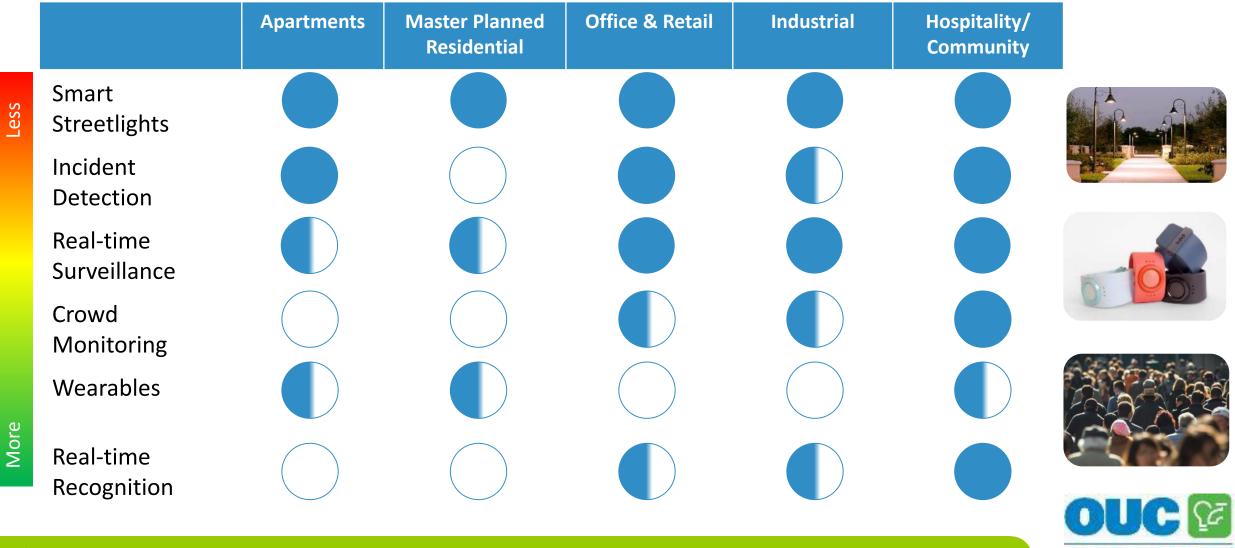


• Gun shot detection





Smart Community Ideas: Secure



The Reliable One







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Autonomous (1)

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Connected

Easter morning 1900: 5th Ave, New York City. Spot the automobile.



Source: US National Archives.

Easter morning 1913: 5th Ave, New York City. Spot the horse.



Source: George Grantham Bain Collection.