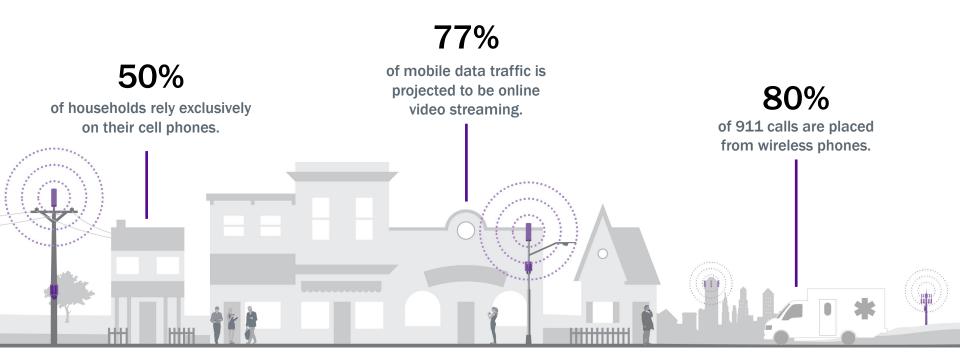


We enable the services that enhance quality of life, education, and public safety.





# Our reach: approximately 115,000 small cell nodes supported by approximately 90,000 route miles of fiber





# **Public demand** for mobile data is growing.

Mobile devices



Wearable devices



Machine-to-machine connections



MAPC Digital Equity Report: "Over 70% of respondents have had to cancel their internet subscription because it was too expensive." For many, "a home internet subscription may be one of the expenses that a household with limited income is forced to do without."

Leaders meet at Malden Public Library to discuss benefits of Wi-Fi hotspots



**MAPC's Digital Equity Report** identifies the key problem.

"Digital access doesn't just happen—it is enabled by infrastructure systems that provide connections to the internet."

Roughly one-third of people lacking a home internet subscription connect via cellular data or wireless hotspot. Yet, currently, these have "limited cell reception, and limited speeds."



# Components of small cell **solutions**

Antenna

Shroud

Disconnect

Meter



What's inside the shroud?

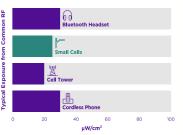




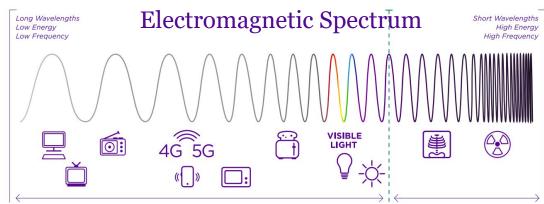
## **Committed** to FCC Regulatory Requirements

#### Low power minimizes exposure.

We're constantly surrounded by electromagnetic energy. Whether you're talking about 5G, 4G or your Bluetooth headset, the physics are the same, and the body's response is essentially identical. You can see in this chart how emission levels from small cells compare to other common radio frequencies (RF)—all many times below what the FCC considers safe.



Source: © 2018 Andrew H. Thatcher, Board Certified Health Physicist.





Installations are categorized far below the FCC-mandated levels



Equipment meets ANSI standards



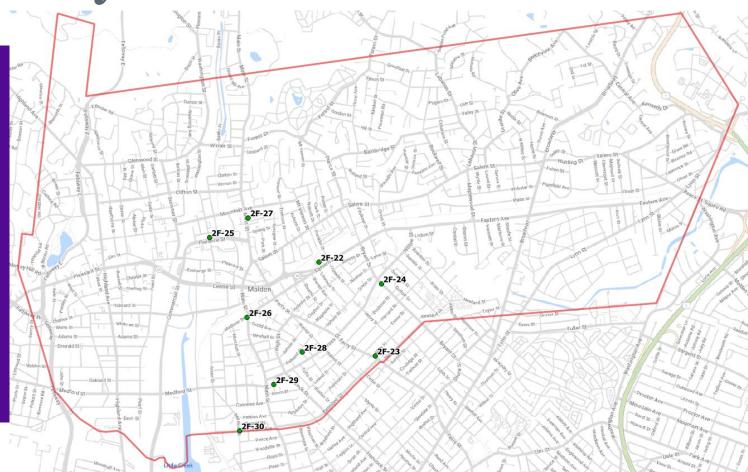
Installations will not interfere with other devices



# Long History in Malden

Current Status: Our small cells have been an integral part of the local wireless infrastructure for over 15 years, providing essential services to the residents of Malden—from first responders to students trying to do their homework.

Our nodes are *not* new but rather fully permitted, well-established parts of the community's digital infrastructure.

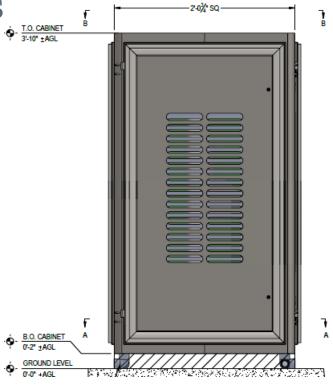




#### Amendments to Malden Ordinances

#### **Proposal: Add designs for metal streetlights**

- Beneficial for new installations
- Allows for more options when selecting site locations
- Set precedents that fit into the character of your neighborhoods
- Not compatible with current installations





## ODAS\_2F-22 – 290 Eastern Ave

- Currently set back from the road & concealed by trees
- Not in a residential area



No streetlight within 100' of coverage area





# ODAS\_2F-23 - 10 Mills St

- Current site is outside a parking lot
- Upgrade will bring no change to antenna and minimal change to shroud





#### Current



#### Proposed



### ODAS\_2F-23 - 10 Mills St - Nearby Streetlight Locations



1. Potential ADA issues with proximity to sidewalk ramp



2. Site would extend onto curb cut





# ODAS\_2F-25 – 48 Washington St

 Located in a long line of existing utility poles, with transformers and other equipment on poles









#### Proposed



#### ODAS\_2f-25 – 48 Washington St – Nearby Streetlight Locations



1. Not enough ADA clearance & potential issues with entrance to



2. Unable to collocate on traffic signal pole



3. Unable to collocate on traffic signal pole





# ODAS\_2F-26 - 244 Main St

Located in a business district

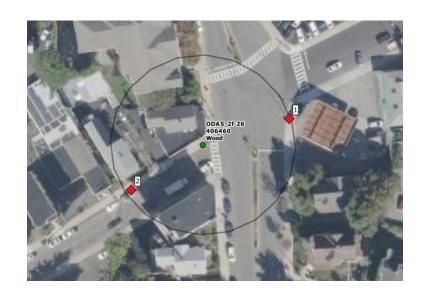








## ODAS\_2F-26 - 244 Main St - Nearby Streetlight Locations



1. Too many existing nearby ground structures to allow for safe deployment



2. Very close to residential window





## ODAS\_2F-27 - 621 Main St

 Exiting site on corner and not directly in line of site from residents' windows





Current



Proposed



#### ODAS\_2F-27 - 621 Main St - Nearby Streetlight Locations



 Directly outside entrance to building – potential pedestrian impedance



2. Not enough ADA clearance on sidewalk





# ODAS\_2F-29 - 14-16 Greenwood Ct

 Currently located in a parking lot (discreet location) away from the street.







No streetlight within 100' of coverage area





# ODAS\_2F-30 - 101 Bell Rock

Pole currently surrounding by large poles containing transformers, primary wires, etc.







No streetlight within 100' of coverage area



