

5G: How Does It Work and What Facilities Are Needed

NARUC Summer Policy Summit

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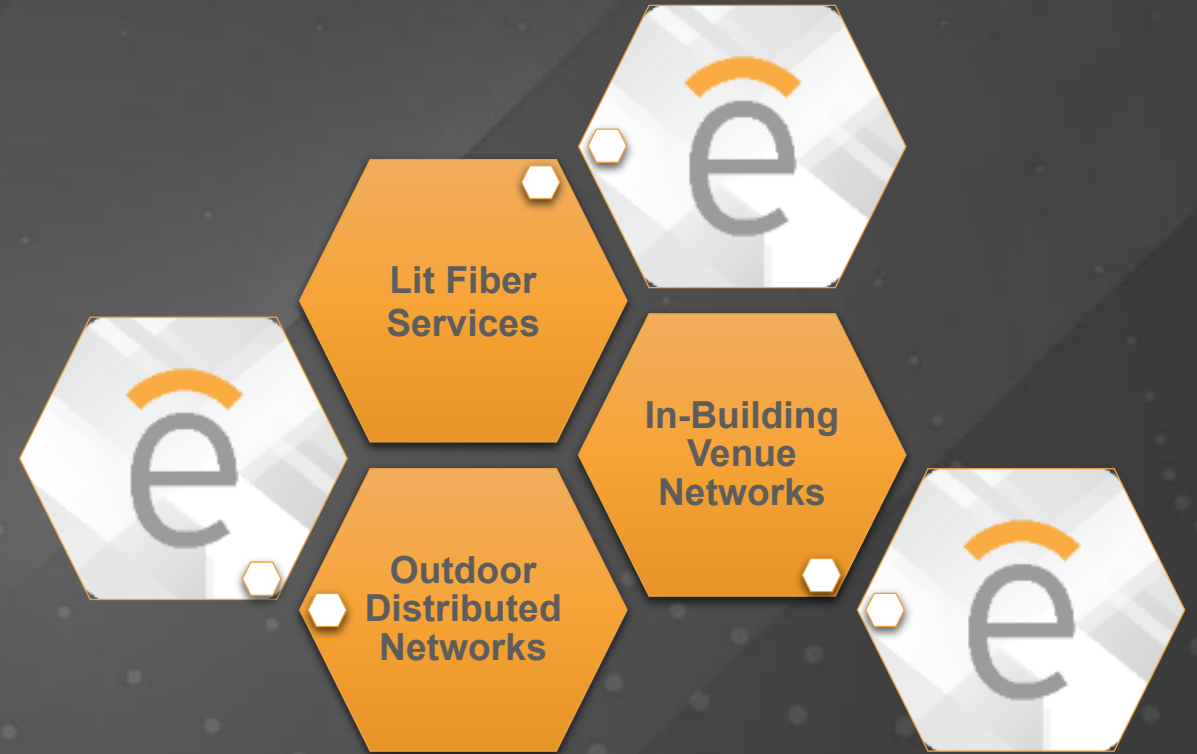
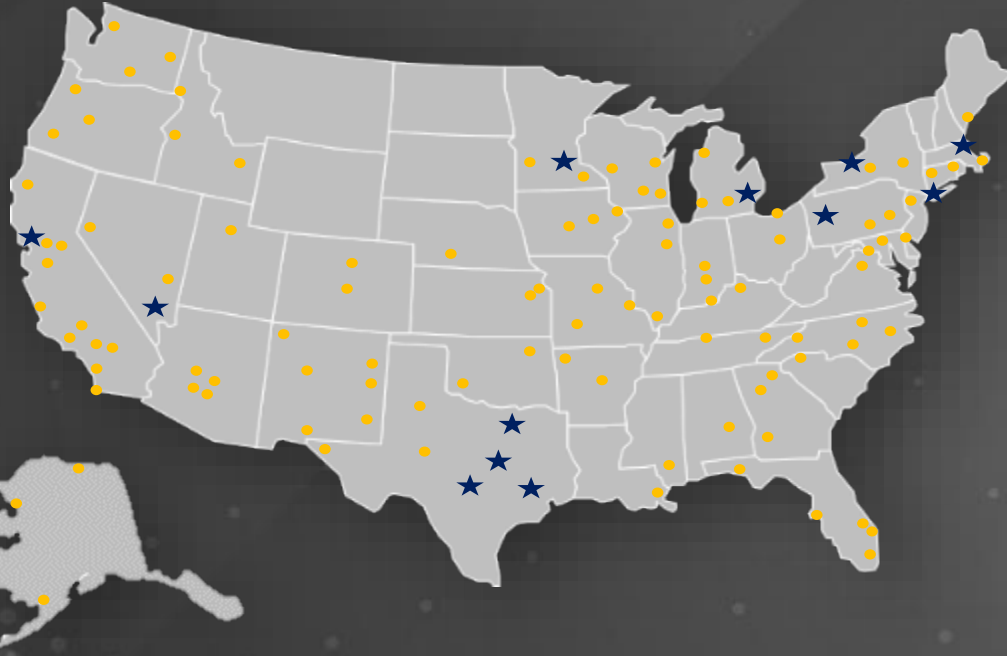
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July 17, 2022

About ExteNet Systems

ExteNet is a Leading Provider of **Converged Communications Infrastructure & Services** for Advanced Network Connectivity



OUTDOOR & INDOOR

SUBURBAN | URBAN |
RURAL | IN-BUILDING

SOLUTION BREADTH

SMALL CELLS & DAS | FIBER | EPC |
BUILDING & ENTERPRISE
COMMUNICATIONS

CUSTOMERS SERVED

MNOS | PROPERTY OWNERS &
MANAGERS |
ENTERPRISES | MUNICIPALITIES

BEST IN CLASS OWNERSHIP

EXPERIENCED NETWORK
INFRASTRUCTURE INVESTORS |
FOCUSED ON LONG-TERM VALUE CREATION




Founded in 2002 and
Deployed **1st Network** in 2005

Largest Private Owner & Operator of
Distributed Networks (DNS) in the United States

Operate **600+** DNS networks
& **30K+** DNS Nodes today

Coverage Layer




(Low-Band 5G, Gigabit-Class LTE, or 4G LTE)

-  Sub-2 GHz
-  Capacity: Low
-  Propagation: High



Capacity Layer

(Mid-Band 5G)




-  2 GHz – 7 GHz
-  Capacity: Medium
-  Propagation: Medium

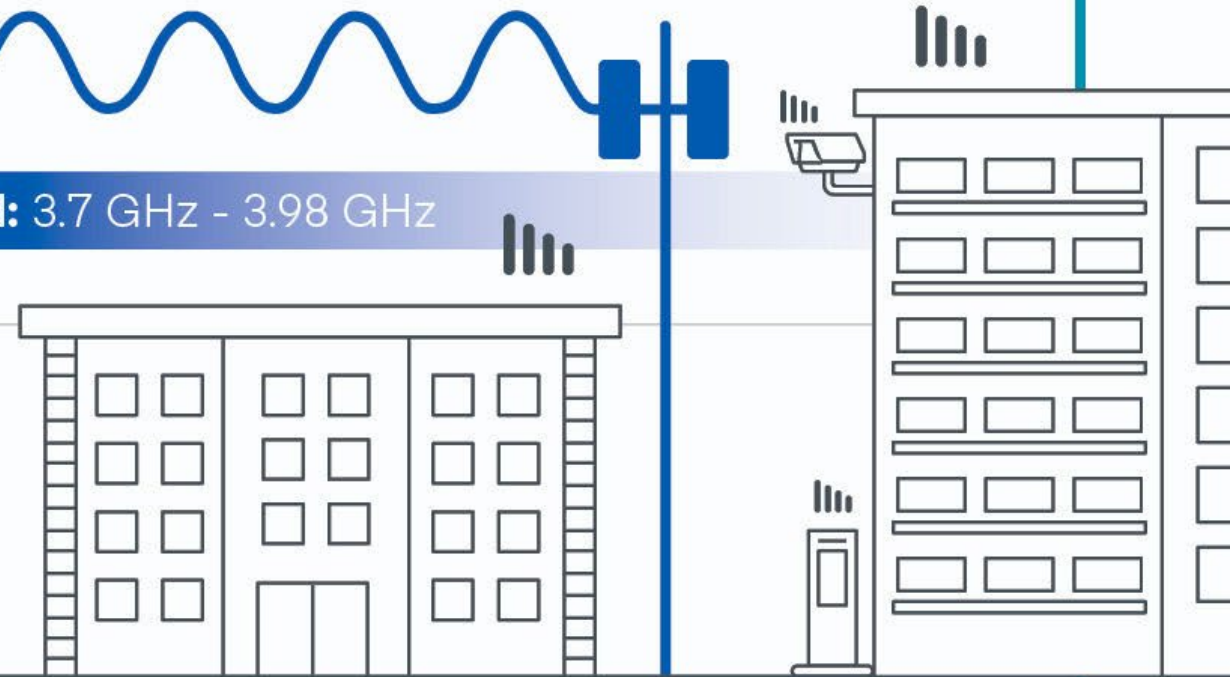
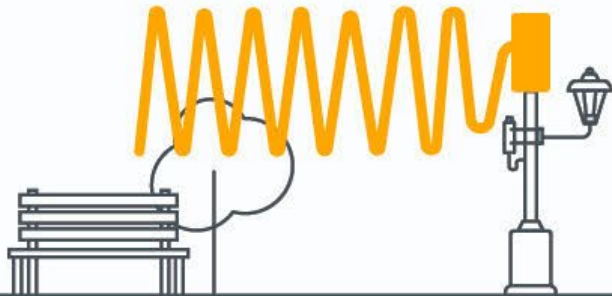


C-Band Band: 3.7 GHz - 3.98 GHz

High-Capacity Layer

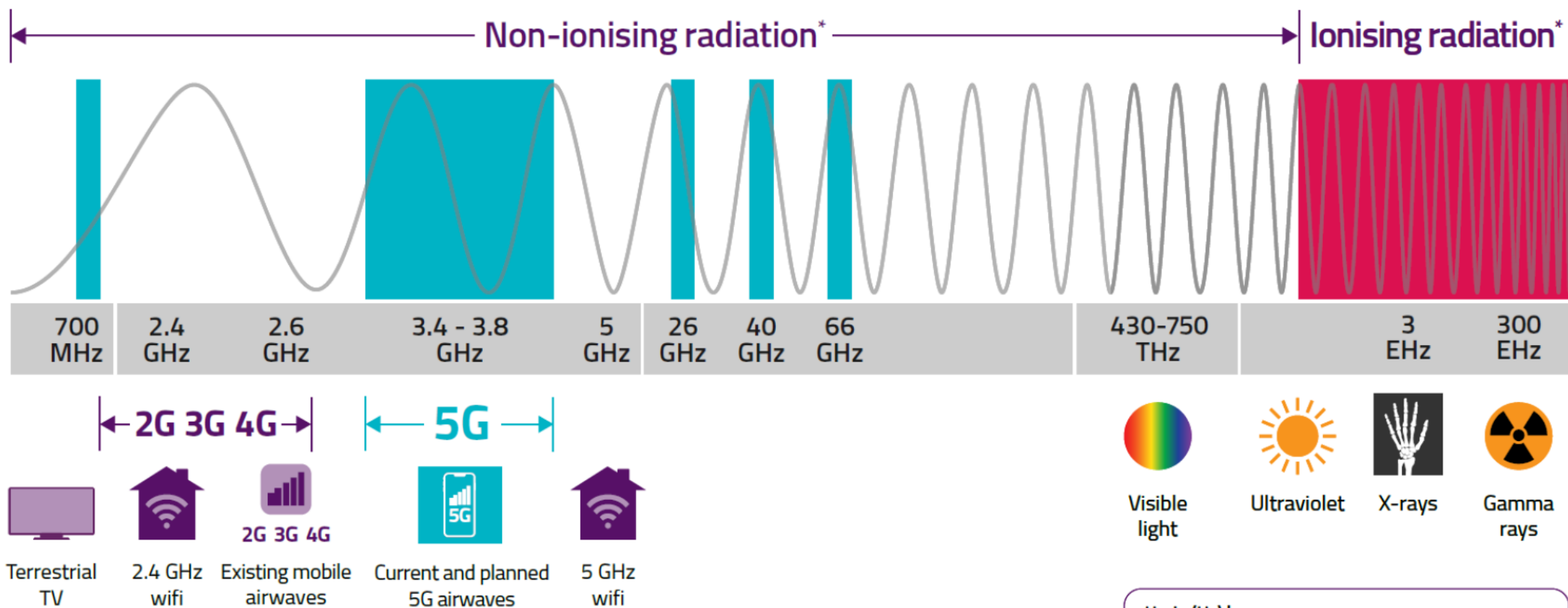
(High-Band 5G or mmWave)

-  24 GHz +
-  Capacity: High
-  Propagation: Low

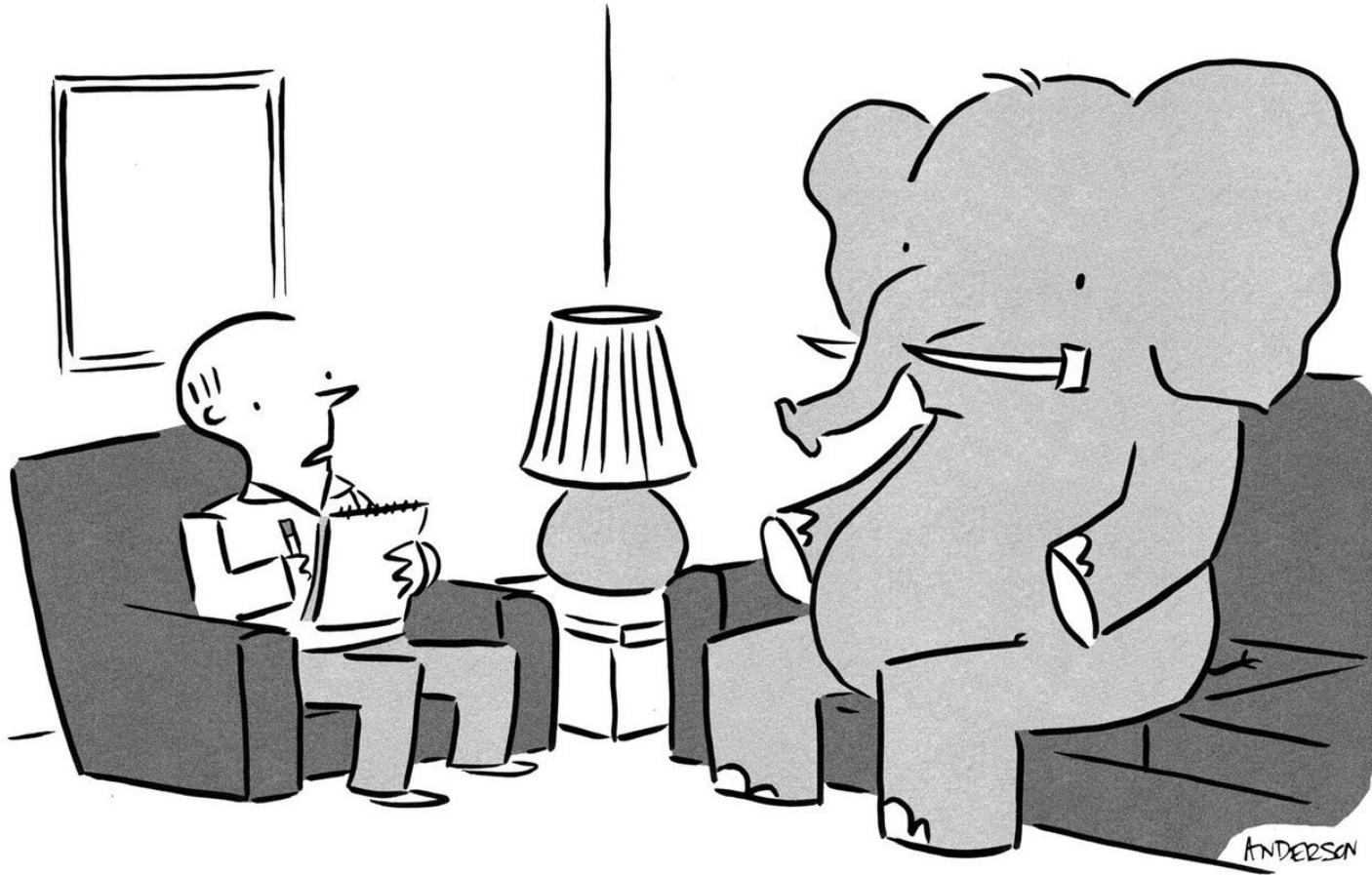


Typical 5G Deployments





**Radio frequencies needed for common household items to work, from televisions to microwave ovens (usually between 3KHz and 300GHz), produce radiation which is classed as 'non-ionising'. This means that it does not have sufficient energy to break chemical bonds or remove electrons, as opposed to 'ionising radiation', which occurs at much higher frequencies and is generally considered to be hazardous to humans. (Source: International Commission for Non-Ionizing Radiation Protection (ICNIRP))*



"Let's try some role playing. I'll be the elephant in the room and you address me."

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Thank You

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