

What is wireless spectrum and why is it so important?

Spectrum refers to the invisible airwaves that carry wireless signals to make communication and the transfer of information possible.

Spectrum is responsible for helping make these technologies, and many more, viable:



Phone Calls



Emails



Smart Phones

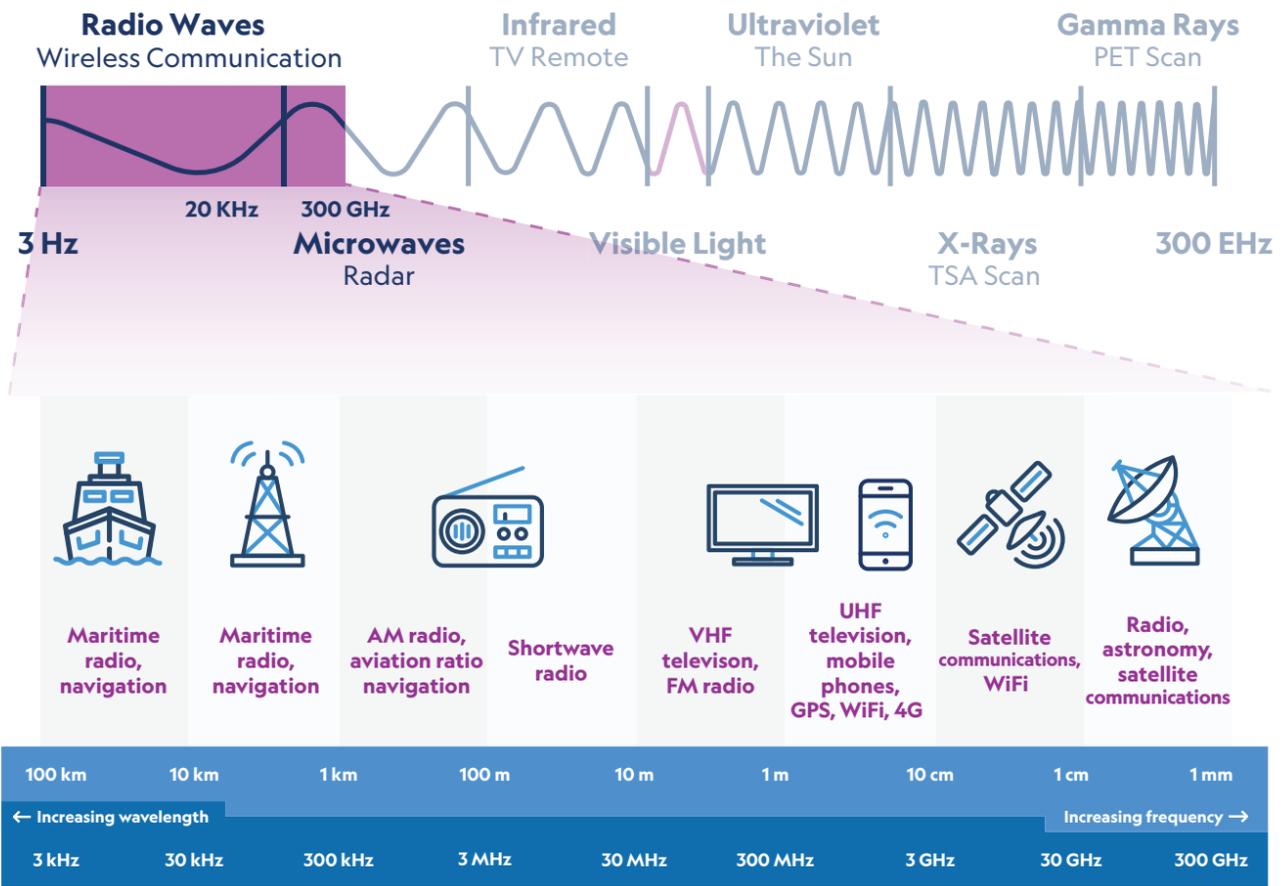


Smart Cities

The **current demand for spectrum outweighs the supply.**

Wireless communication uses radio frequency bands, which make up just a small section of the entire electromagnetic spectrum. Radio frequency bands range from 3 kilohertz (kHz) to 300 gigahertz (GHz), but there are only a limited number available based on the intended use. To ensure efficient usage and availability of spectrum, the FCC and NTIA are responsible for licensing and managing these bands for private, commercial and federal use.

The Electromagnetic Spectrum



\$81.17 billion

The amount spent by companies to license C-band spectrum in 2020



In 2020, the United States saw a **19.6%** increase in data traffic



There are over **400 million** wireless connections in America, equal to **1.2** wireless devices for every person in the country



Sources: CTIA.org

In order to meet the increasing demand for wireless connectivity, it has never been more important to efficiently manage the supply of spectrum for the next generation of applications.

At Aurora Insight, we're on a mission to enable greater connectivity by creating accurate and actionable information that is valuable across the wireless ecosystem.