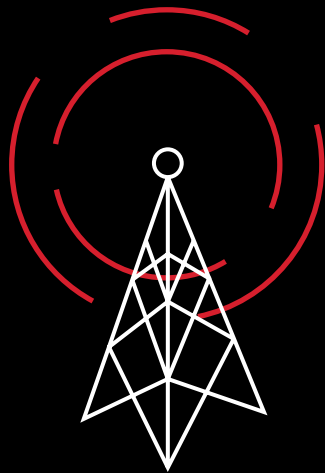


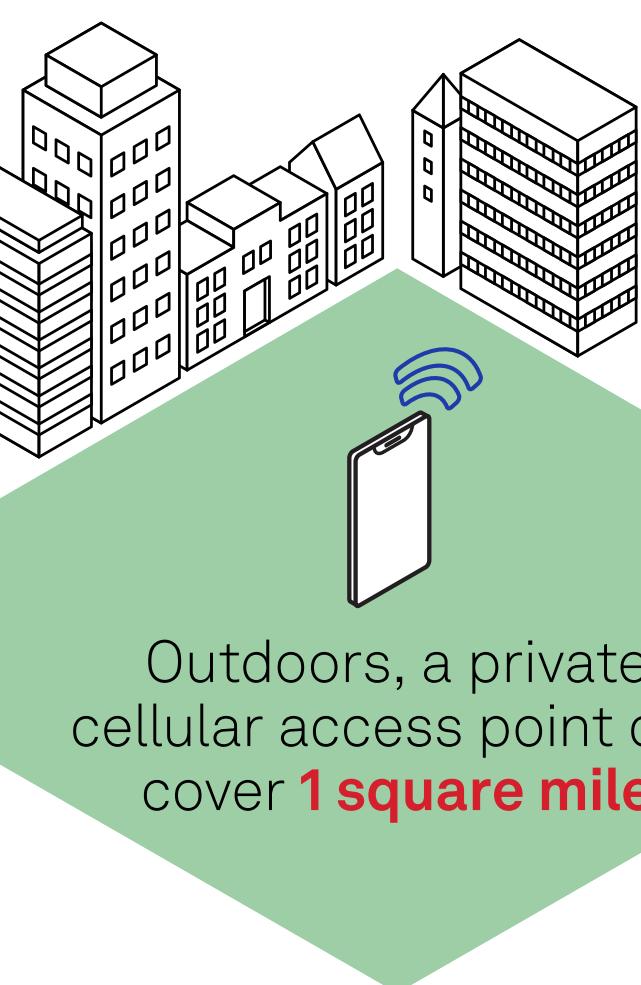
Edge computing and private cellular networks: The road ahead



IoT smart device growth combined with AI, big data and 5G is fueling the demand for **private wireless networks**



Wi-Fi is not always the most **economical solution**

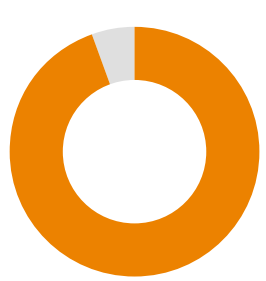


In fact:
Over 50% of businesses see cost control as a key driver for private 5G

Wi-Fi only covers **10,000 square feet**

Outdoors, a private cellular access point can cover **1 square mile**

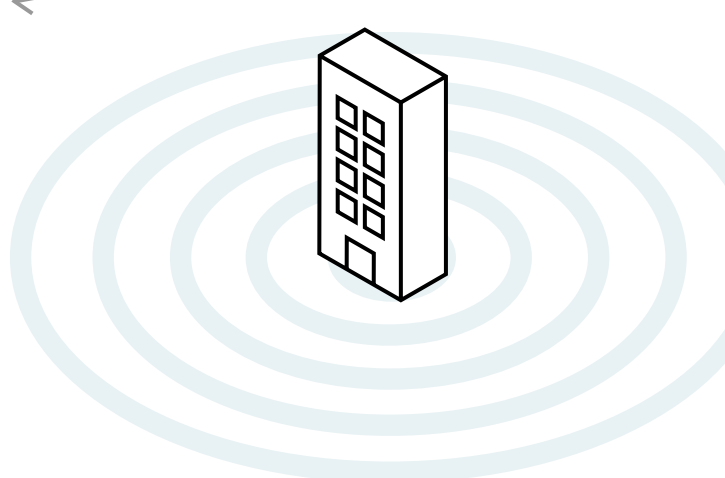
5G can make prohibitively expensive use cases more **affordable and implementable**



95% of enterprises plan to deploy an **on-site private network** to support their IoT initiatives
(n = 293)

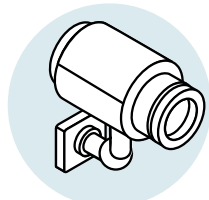


And
42% prefer a private **cellular wireless network** (LTE/5G) provided by a telecom operator

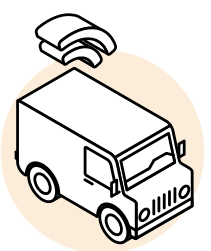


Demand is driven by three **top use cases**

(n = 235)



53% Vision analytics, movement tracking with cameras



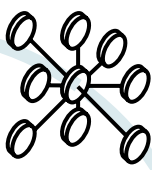
52% Robotics and autonomous vehicles



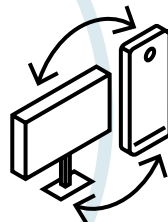
41% Future unanticipated workloads

But **challenges remain** in deploying private networking

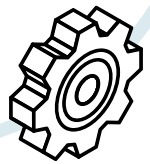
(n = 235)



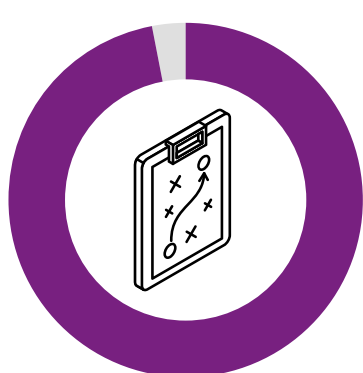
45% Complexity concerns



43% Interoperability issues



41% Unreliability unknowns



To overcome these, **97%** of enterprises turn to a strategic partner for help

Of these:

34% choose a managed service provider partner

24% opt to outsource to a systems integrator partner

Sources: 451 Research Voice of the Enterprise: Internet of Things, IoT Connectivity - Private Network July 2022; Intelligent Edge Study 2021



Read the **451 Research Vanguard Report** (June 2022) on The Intelligent Edge Stack and What it Means for Industrial Enterprises

Or visit the [Kyndryl Private Wireless Services website](#)