

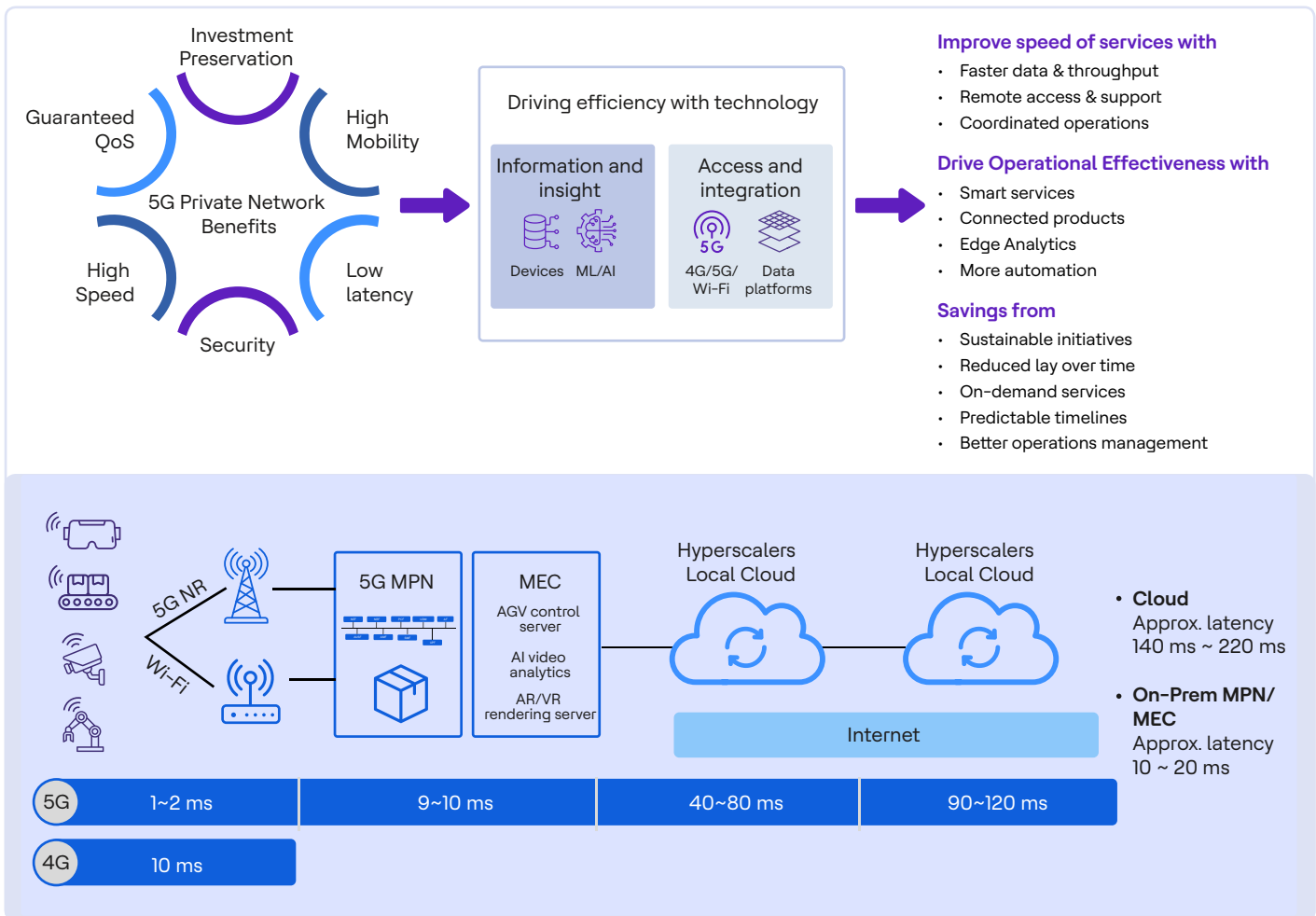
Private 5G network in a box



5G network in a box: The need of the hour

5G is a key game changer for enterprise digital transformation. From connected cars to smart cities and from smart manufacturing to smart ports, 5G is bound to impact every aspect of our daily lives. A private 5G network in a box is a solution that provides a secure, isolated network environment with higher performance capabilities such as faster speeds and lower latency. It addresses the need for improved security and performance, reducing the risk of hacking and data theft, while providing better network experience. The 5G network deployment can be done over the hybrid eco-system between cloud and smart edge compute together and turn those discrete service enablers into an integrated end-to-end solution.

Why do we need 5G private networks?

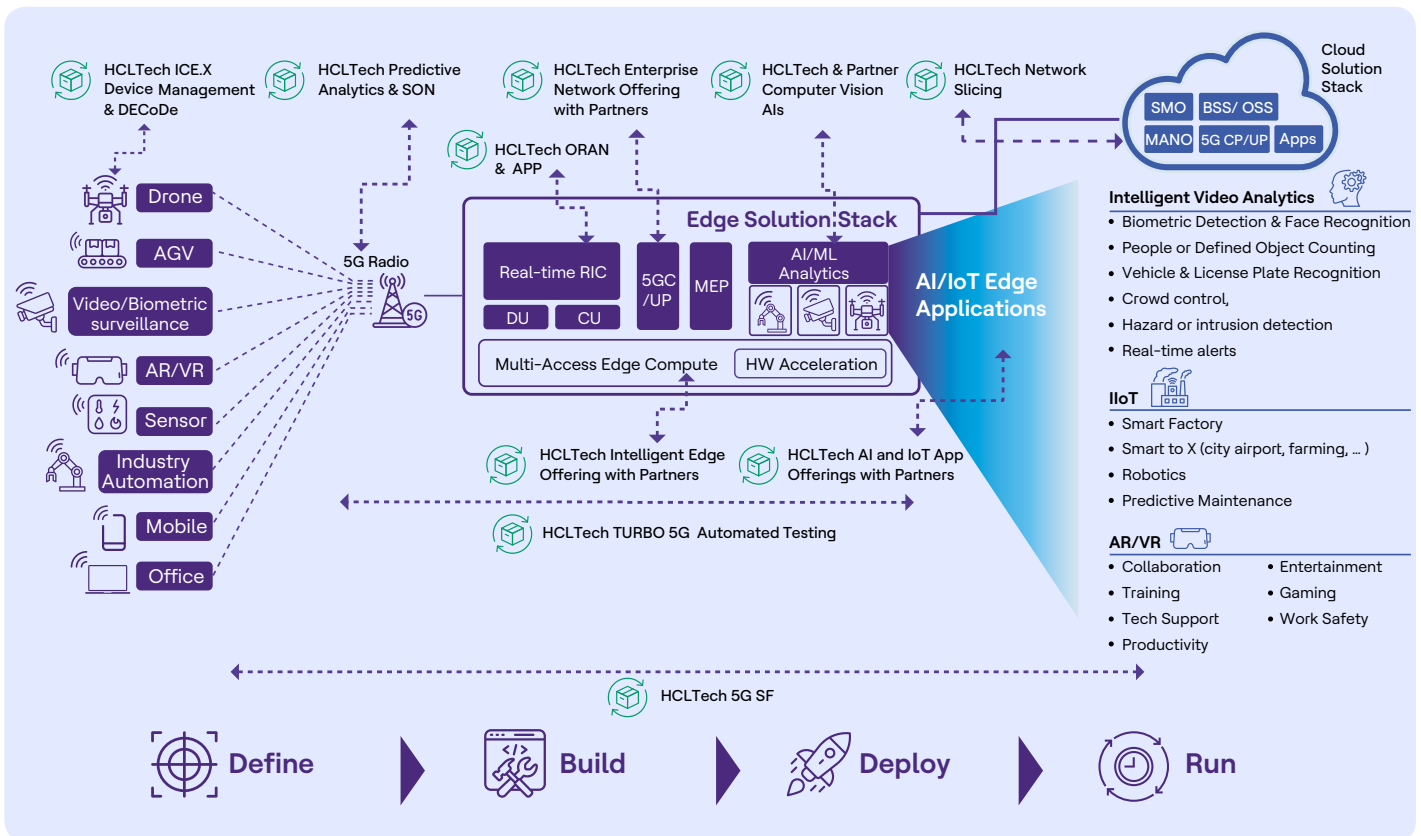


The HCLTech advantage

Private networks are opening up new possibilities and increasing new use cases. With 5G radio bands becoming available for private network usage only, the demand for dedicated private networks is on the rise. To meet the enterprise private network requirements, we have partnered with best industry players to ensure that our offerings are fully compliant and provide an optimized total-cost-of-ownership (TCO) solution. The below figure depicts the high-level architecture using proposed solution components involving our RAN and 5G core (5GC) and network management solution along with a cloud-managed, hardware-as-a-service solution. On the left side, we have all the possible smart devices which connect over the 5G network to our solution. The network components like distributed unit (DU), centralized unit (CU), radio hardware unit (RU), 5GC and mobile edge

platform enable this network connectivity over to edge applications shown on the right side of the image. Powerful applications and services including smart factory, robotics, biometric surveillance and AR/VR enable huge transformation for multiple industries.

HCLTech's 5G System Integration Framework (5G SF) can help enterprise through the entire transformation process, starting from 'Define' to 'Build' to 'Deploy' and finally 'Run' the end-to-end network in order to increase efficiency and optimize costs in their digital journey. HCLTech's 5G SF consists of solutions such as NOX (Network Function Onboarding Exchange), SON, and NAL (Network Abstraction Layer) that drive efficiencies across "Define", "Build", "Deploy" and "Run" phases.



Partner with us to create new opportunities with 5G

We work with enterprises, bringing in the whole deployment and management life cycle—from discovery, concept proofing, defining the solution, building the solution and managing the solution end to end. For any layer where there are places that are not 5G-enabled, we ensure our services and solutions make it 5G-enabled.

Our comprehensive capabilities and offerings in private 5G networks address the entire ecosystem from the client to the application, as well the initial deployment to the network management throughout the lifecycle. We believe in providing the building blocks and the best possible combination of the elements that can be used to construct a standalone private network for hosting wireless network infrastructure, smart services, IoT device connectivity and numerous applications. Our flexible and tailorable private networks solution aims at meeting the enterprises' demand of network connectivity, given their unique objectives and challenges.