

Case Study

Highway 9 Mobile Cloud Transforms Connectivity at MIT

Client Overview:

Customer: MIT

Sector: Higher Education

Location: United States

Project Type: Private Mobile Network (PMN) for athletics streaming, pop-up events, and campus operations

Background

MIT, one of the world's premier research universities, has embarked on a multi-year cloud migration journey - moving servers, applications and workloads to the cloud to improve agility and efficiency.

Challenge

MIT faced challenges common to many higher education institutions:

- Providing seamless wireless coverage across a large campus environment, both indoors and out.
- Supporting bandwidth-intensive, low-latency applications like virtual reality
- Managing a mix of congested enterprise Wi-Fi, carrier cellular networks, and wired infrastructure.
- Freeing up IT staff from network operations to focus on core research and education initiatives.



"The last remaining part has really been that networking infrastructure," says Mark Silis, MIT VP of Information Systems & Technology. "We've really been trying to look for a way to try to rethink how we deliver that service to our community."

Key Benefits

Campus Wide Mobile Coverage:

A Mobile Cloud delivers consistent indoor and outdoor coverage, removing dead zones across campus.

Carrier network coverage is extended using the Mobile Cloud. Providing guests, students and faculty with a seamless mobile experience.

Highway 9 Mobile Cloud delivers consistent connectivity across MIT's sprawling campus, with superior range that eliminates dead zones using 90% less equipment than Wi-Fi.

Delivering maximum impact with minimal operational overhead.



Enabling Immersive Experiences:

Highway 9's unique cellular architecture provides the high bandwidth and low latency needed for cutting-edge use cases.



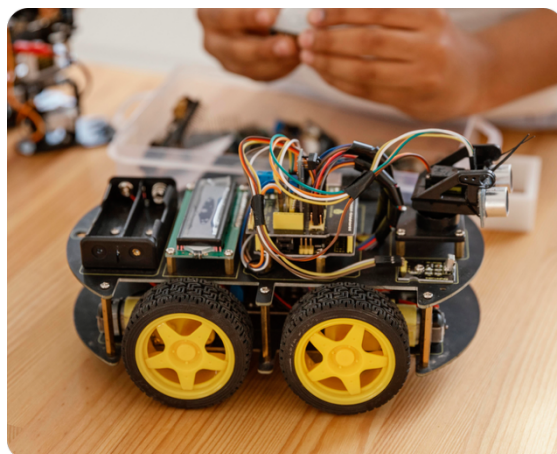
“We have unique use cases, whether that's augmented reality, virtual reality, or rethinking how we deliver the classroom,” explains Silis. “Those are the kinds of things that traditional networking technology really wasn't built for.”

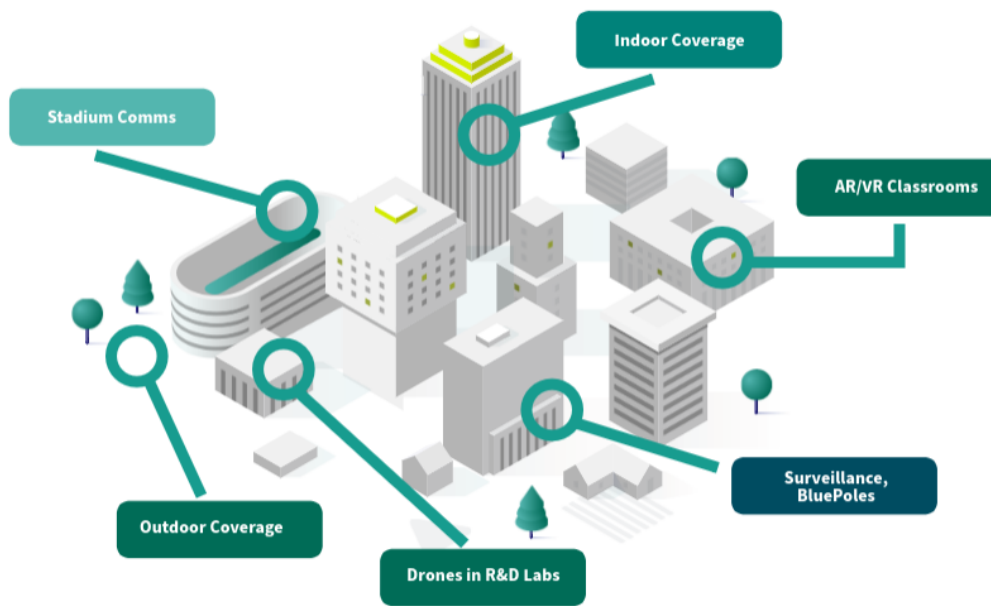
Benefits

AI and Robotics Research:

Mobile Cloud's predictable performance and seamless mobility make it an ideal connectivity platform for MIT's groundbreaking work in artificial intelligence, robotics, drones, automated vehicles, and more.

Cellular technology can provide the predictable bandwidth and latency demanded by AI, edge-computing applications.





“One thing every IT organization is struggling with is there is more demand than you have supply,” shares Silis. “There's a real gap between what people want and what we can deliver and how fast. That's really where we love to spend our time - working with our faculty, helping them really solve new problems, not just necessarily keeping the lights on.”

Cloud Based Orchestration:

With zero-touch provisioning, self-optimizing radios, and a cloud-based control portal, the Mobile Cloud dramatically simplifies network deployment and ongoing management compared to legacy infrastructure.



Built on private mobile network – superior range, security, performance, mobility.



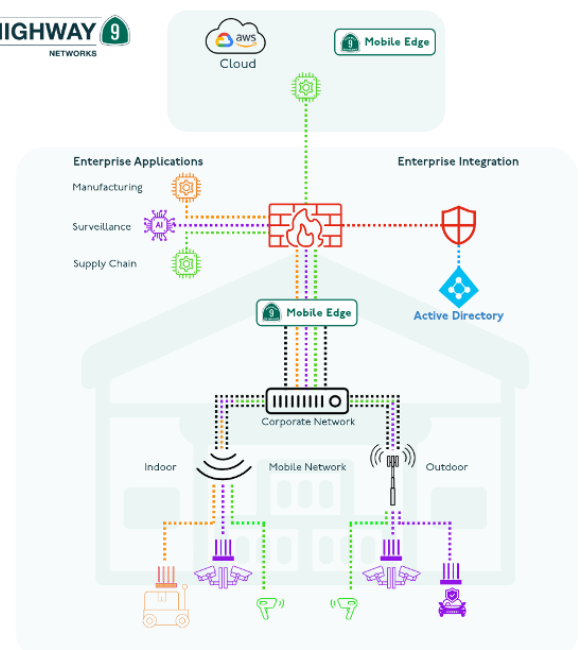
Easy deployment integrated stack - SIM, Radios, policy & control.



Seamless IT integration with infrastructure and policy and major carriers.



Reliable, high performance data and control network for automation and AI.

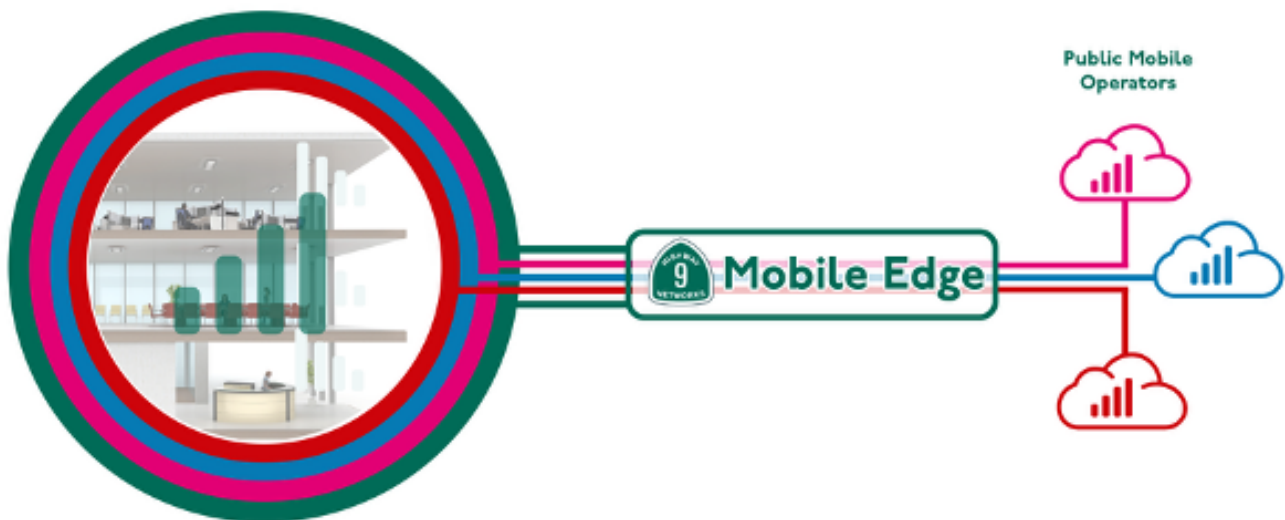




“The ability to take these traditional things that IT organizations have been doing operationally, keeping the lights on...transition it hopefully to people who are better suited, much more effective and efficient at it, and free up our resources to really have them focus on differentiated problems, things that are really going to move the needle for us,” says Silis.

Highway 9 Mobile Cloud frees up MIT's IT staff to drive strategic research and education initiatives.

It's a platform built to power the next generation of education.



 Book your demo today