

Indoor Connectivity: Can You Hear Me Now?

● **Behind The Build** | Show and Share · 1st floor | 12:15–12:35 | 

Part of REDI: The Digital Manifesto



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Indoor mobile coverage must be required early, like water and electricity

Christoffer Lundgreen (Proptivity) and Peter Eriksson (Ericsson) argued that the better we build, the harder it gets for mobile signals. Insulating materials and metal-coated windows block radio signals, and higher 5G frequencies are more easily blocked. Their slides cited the Ericsson Mobility Report, which expects mobile data traffic to increase 4x from 2026 to 2030. They urged owners to set coverage requirements early, assign responsibility across real estate, telecom, electrical and IT teams, and verify performance. Four levers set indoor performance: spectrum, MIMO layers, sectorization and signal quality (SINR), so the architecture sets the capacity potential. At Haakon VII's gate 2 in Oslo, a world-first deployment of a new Ericsson feature let Telia become the first operator to connect digitally through a neutral host to a shared Radio Dot System.

KEY TAKEAWAYS

- Energy-saving materials such as insulation and metal-coated windows can block mobile signals indoors.
- Set requirements early, align real estate, telecom, electrical and IT teams, and specify testing.
- Spectrum, MIMO layers, sectorization and signal quality together set what an indoor network can deliver.
- With a neutral host, several operators connect digitally to one shared indoor Radio Dot System.
- Each new wave, from smart buildings to AI and XR, adds data, devices and uplink demand.

4x

expected growth in mobile data traffic from 2026 to 2030 (Ericsson Mobility Report)