# THE FUTURE OF MOBILE | CONSTRUCTION



Mobile tech already helps workers stay connected, safe and efficient on site. By 2030, tools like 5G, Al and wearables will take this further, transforming how jobs are planned, monitored and delivered.



#### SITE SAFETY MONITORING

**TODAY** Liam wears a smart helmet with motion sensors and GPS tracking. If a safety incident occurs, alerts are sent via mobile to site managers, supporting a prompt safety response.

IN THE FUTURE Liam's gear includes real time biometric monitoring / environmental sensors, connected to a 5G safety platform. Risks like gas exposure or heat trigger instant Al alerts, with drones able to respond immediately.





#### **EQUIPMENT MANAGEMENT**

**TODAY** Liam tracks tools and machinery via a mobile app, scanning QR codes, and checking availability as needed. This helps prevent losses and delays on site for the team

**IN THE FUTURE** with IoT <sup>1</sup> connected tools and localised 5G, Liam has live visibility of all tools via his tablet or AR glasses. Predictive alerts and smart scheduling optimise uptime and reduce maintenance disruptions.

## 1 million

Private 5G networks can support up to 1 million devices per square kilometre, enabling real-time data from tools, sensors, vehicles, and wearables on construction sites.





### REMOTE COLLABORATION

**TODAY** Liam uses video calls and messaging apps to share site photos and updates with engineers, helping resolve issues without waiting for in person visits from the team.

**IN THE FUTURE** Wearing AR glasses, supported by 5G, Liam streams his live view to remote engineers who overlay guidance in real time. Digital twins<sup>2</sup> support instant design checks and faster decision making on site.





IN THE FUTURE Drones and wearables cameras continuously map the site, feeding data to a real time digital twin² of the site. Liam receives instant updates on site progress and any deviations

