

Title: SiteSafe Tracker — IoT Safety Compliance Rollout

Product: SiteSafe Tracker

Summary: An IoT-enabled platform to monitor safety compliance in real time across construction sites, backed by dashboards and alerts.

Problem Statement

Incident rates remain high because compliance checks are manual and delayed, with little real-time visibility.

Objective

Deploy sensors and dashboards that reduce lost-time injuries and improve regulator confidence.

Key Outcomes

- Automated compliance logs for 100% of active zones
- 30% reduction in recorded incidents year over year
- Regulator audit score  $\geq 90\%$

Timeline

Start Date: 2025-03-01 | End Date: 2026-09-30

Milestones

- Sensor prototype validated (2025-09-15, Owner: Engineering)
- Pilot rollout (2026-03-01, Owner: Deployment)
- Enterprise rollout complete (2026-09-30, Owner: Program Office)

Budget

Currency: AUD

Total: 600,000

Capex: 360,000

Opex: 240,000

Contingency: 12%

Funding: Operating budget; Safety improvement grant

People

Sponsor: James Walker (Head of Operations)

Project Lead: Sophia Chen (Project Manager)

Team: David Brown (Systems Engineer); Emma Davis (Safety Officer); Alice Johnson (Tech Specialist)

Stakeholders

Site managers; Construction workers; Investors; State safety regulators

Partners

SafeSense IoT Pty Ltd; City Council Works Dept

KPIs

- Recordable incident rate — Target:  $-30\%$  — Measure: Rolling 12-month incident metric
- Compliance coverage — Target: 100% zones — Measure: Zones with automated logs
- Alert response time — Target:  $\leq 5$  min — Measure: Average time to acknowledge critical alert

Risks

- R1: Sensor installation delays (Likelihood: Medium, Impact: Medium, Owner: Engineering) — Mitigation: Parallel installers; pre-site readiness checklist
- R2: Union resistance to wearable sensors (Likelihood: Low, Impact: High, Owner: PM) — Mitigation: Consultative briefings; opt-out alternatives
- R3: Data connectivity outages (Likelihood: Medium, Impact: Medium, Owner: Network Ops) — Mitigation: Edge buffering; dual-SIM gateways

#### Reporting

- Pilot evaluation report — due 2026-03-15
- Final outcomes & safety audit — due 2026-09-30

#### TRL

Start: 5; End: 7