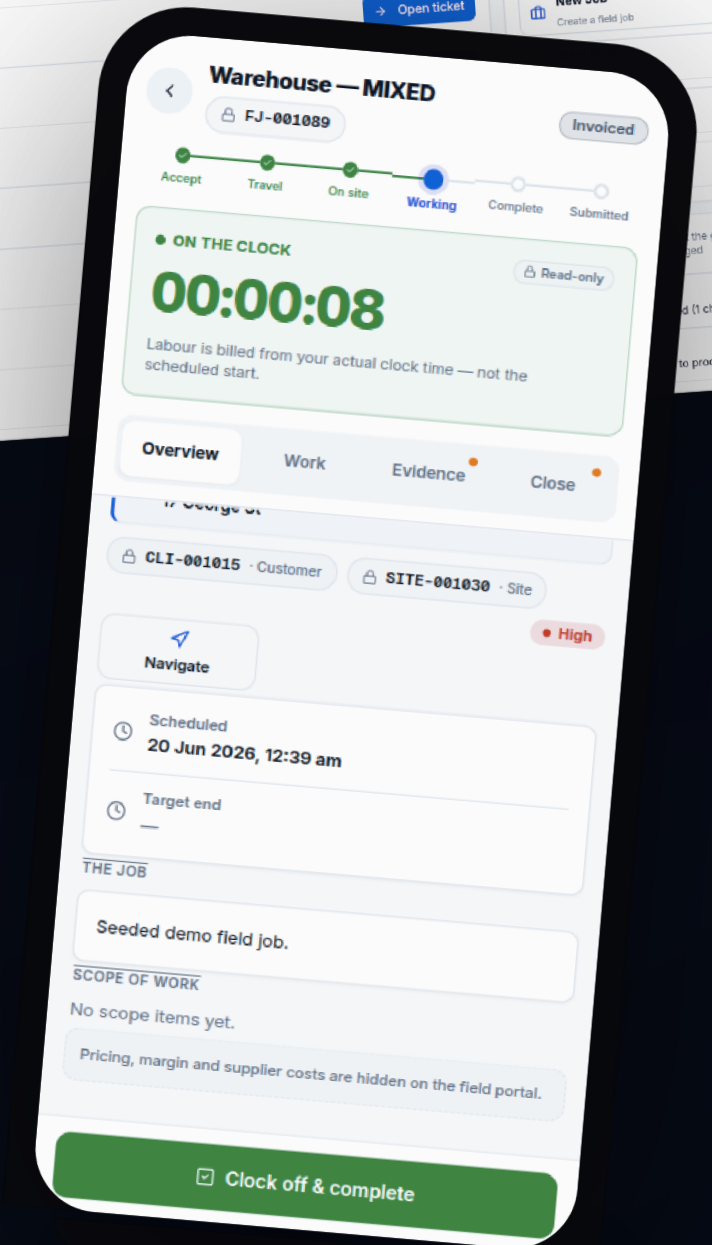
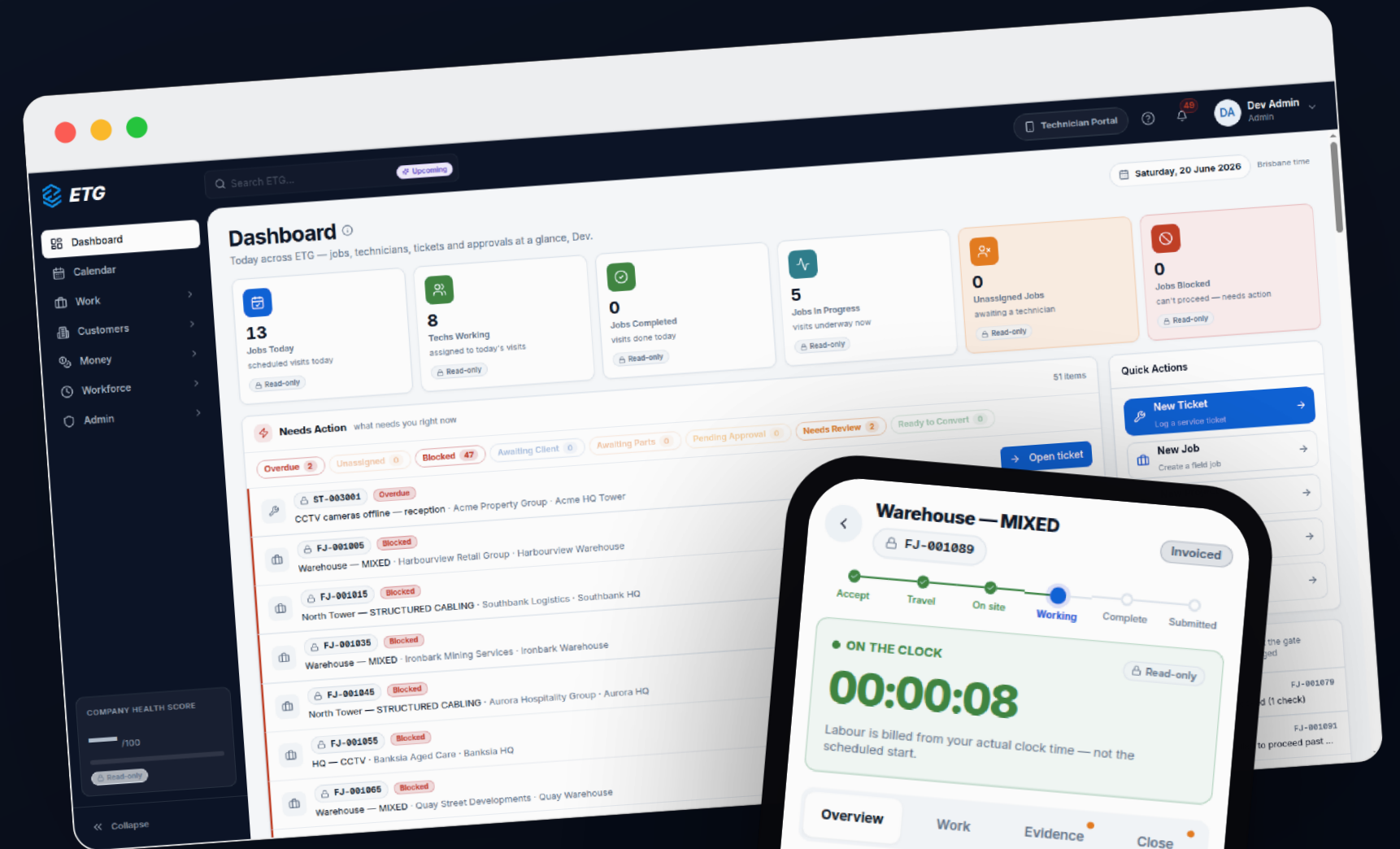


Enforcement-First Field-Service OS

An enforcement-first operations platform for an electrical, security, AV & telecom group — dispatch, workforce, assets and dual-sided billing behind one decision engine.



Enforcement-First Field-Service OS

An enforcement-first operations platform for an electrical, security, AV & telecom group – one decision engine behind dispatch, workforce, assets and dual-sided billing.

ROLE Sole architect / full-stack

106+

PRISMA MODELS

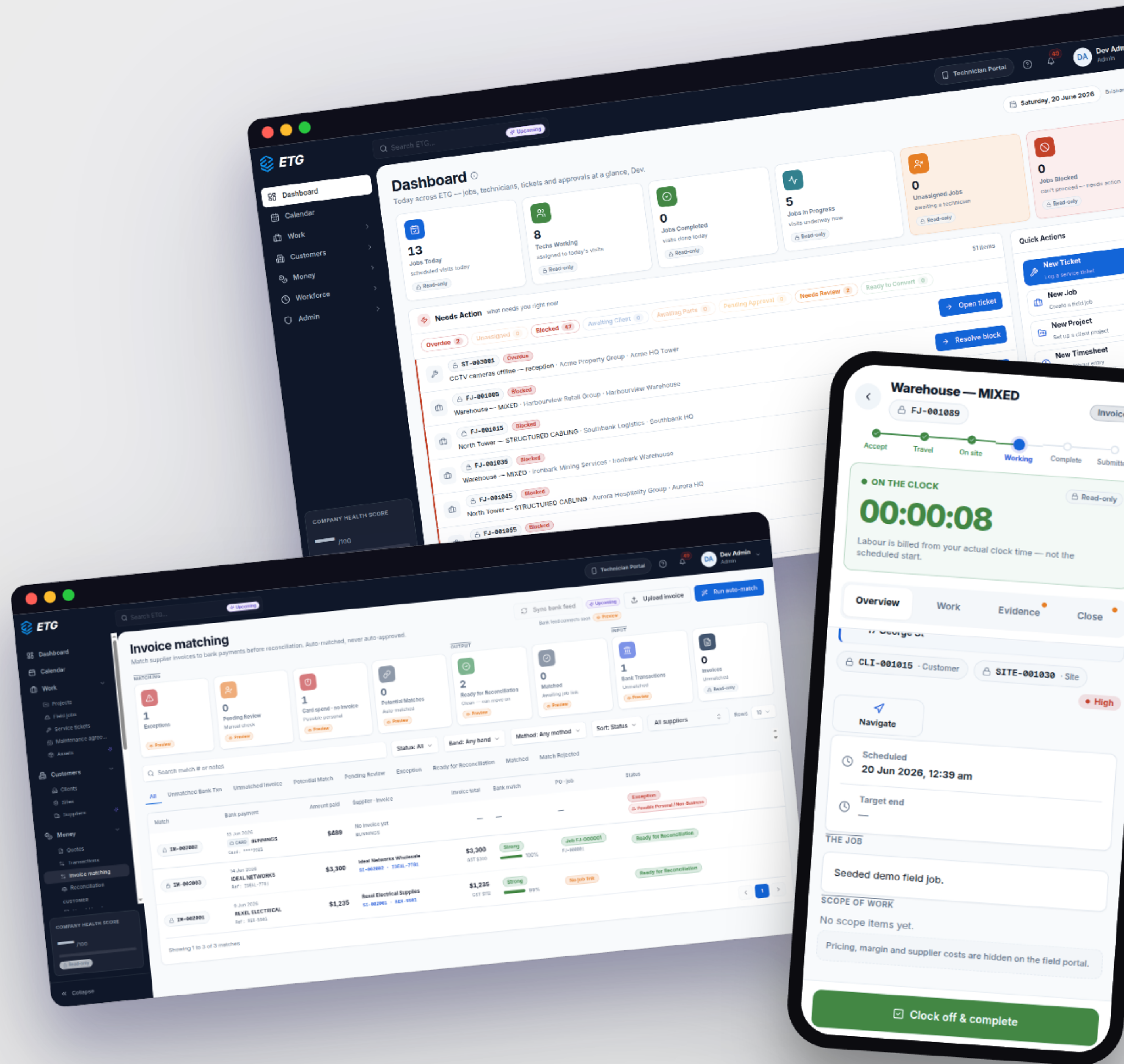
400+

TRPC PROCEDURES

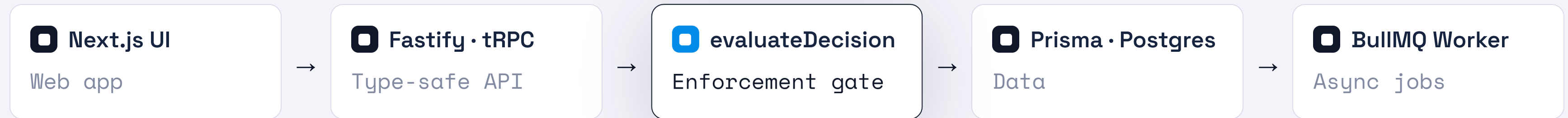
1200+

UNIT TESTS

- ◆ Dispatch board – 8-check enforcement gate + manager overrides
- ◆ Workforce – timesheets, closeouts, licences, AU award engine
- ◆ Supplier billing + scored two-hop bank reconciliation



One enforcement gate behind every workflow



STACK

FRONTEND

Next.js 16 · React 19

BACKEND

Fastify 5 · tRPC 11 · Prisma 7

DATA

PostgreSQL · BullMQ · Redis

INFRA

Better Auth · Airwallex · Docker ·
Railway

KEY DECISIONS

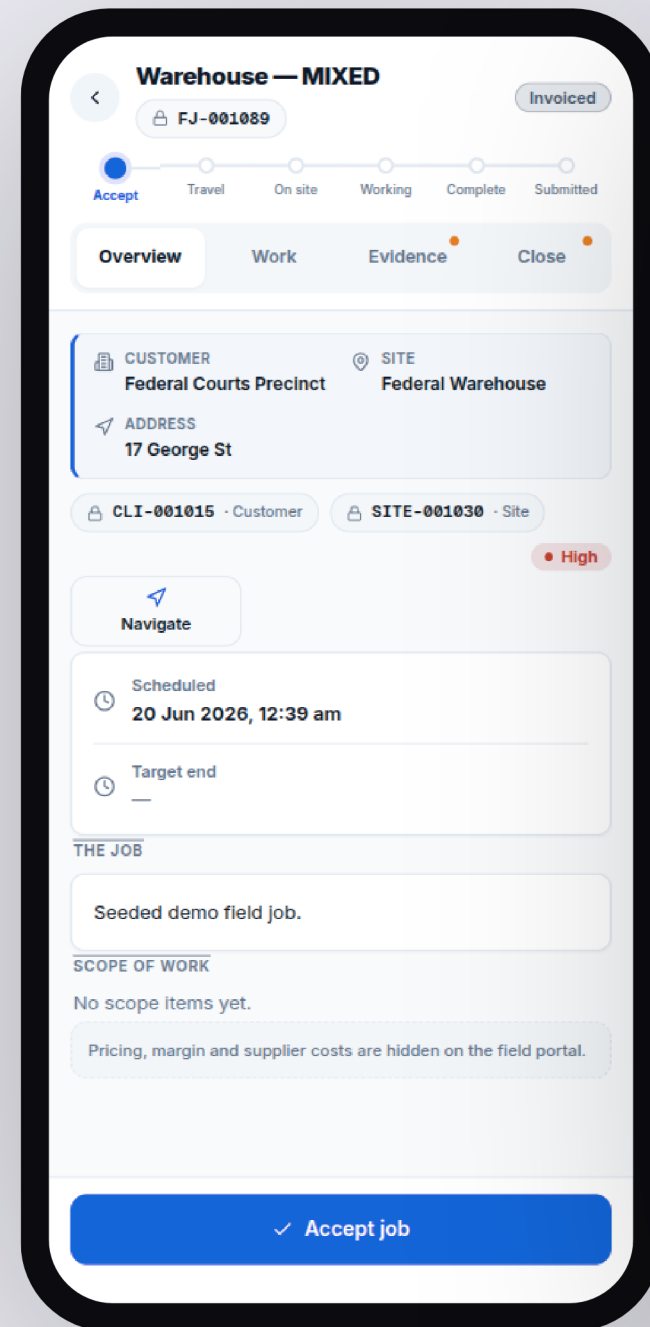
- 01 One shared enforcement gate (evaluateDecision) across dispatch, closeout & billing
- 02 Money modelled as BigInt integer cents (ex-GST)
- 03 Event-driven workers with dead-letter queues

Across admin & field

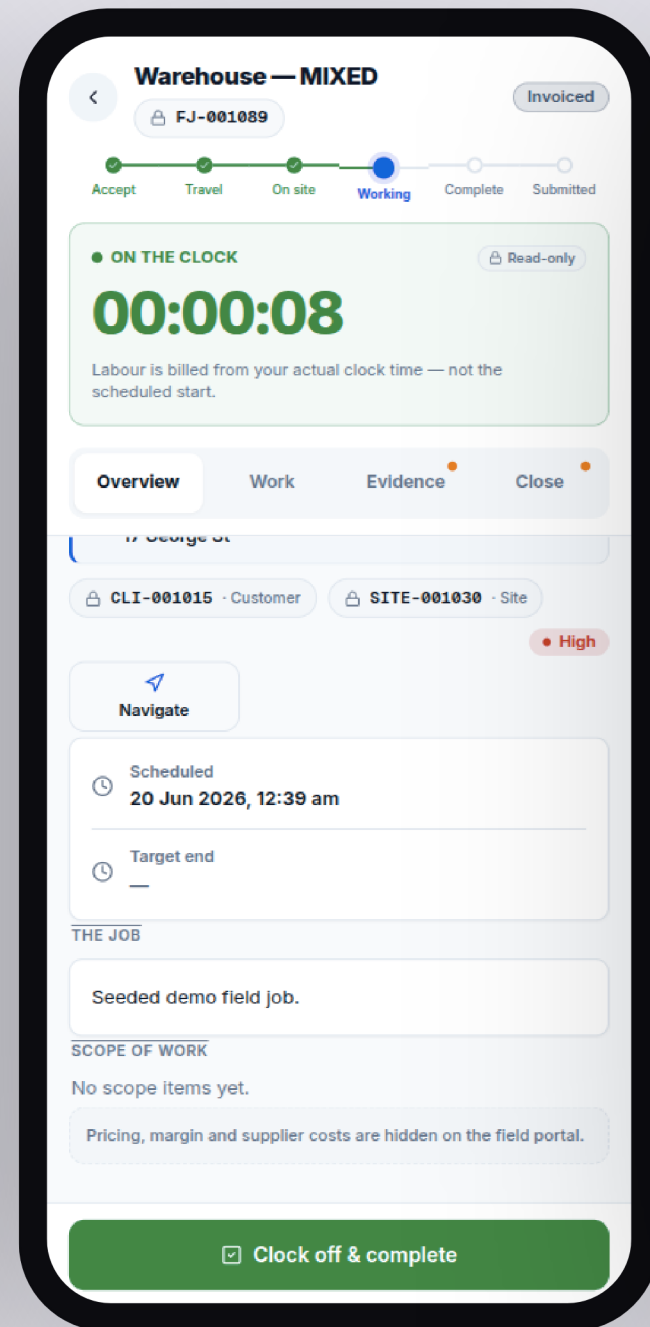


TECHNICIAN APP · MOBILE

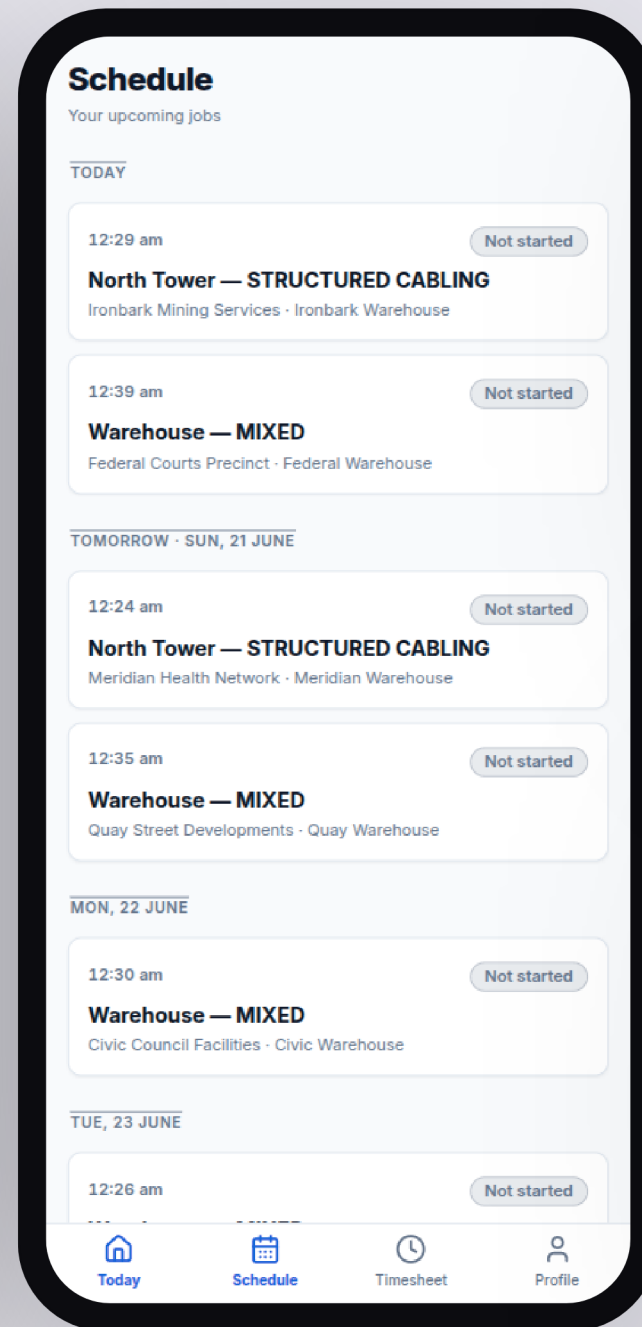
ADMIN & FIELD · WEB



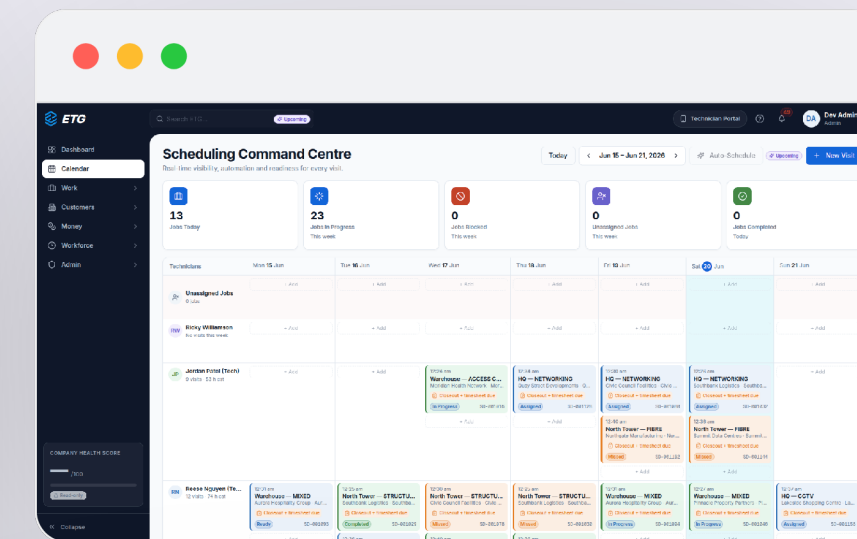
Accept job & site brief



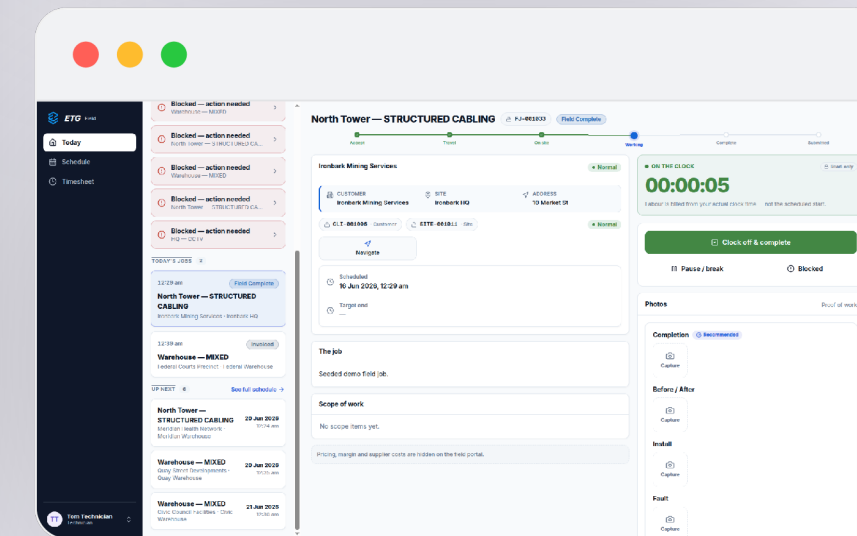
On the clock & evidence



Upcoming schedule



Admin - scheduling command centre



Technician web portal - job

Margin control, enforced

\$300K+

YEARLY LEAKAGE STOPPED

400+

TRPC PROCEDURES

1.5K+

AUTOMATED TESTS

Stops an estimated \$300K+ of annual margin leakage by blocking unbillable or non-compliant work before it ships — backed by 1,200+ unit and 300+ Playwright tests across one audited decision gate.