

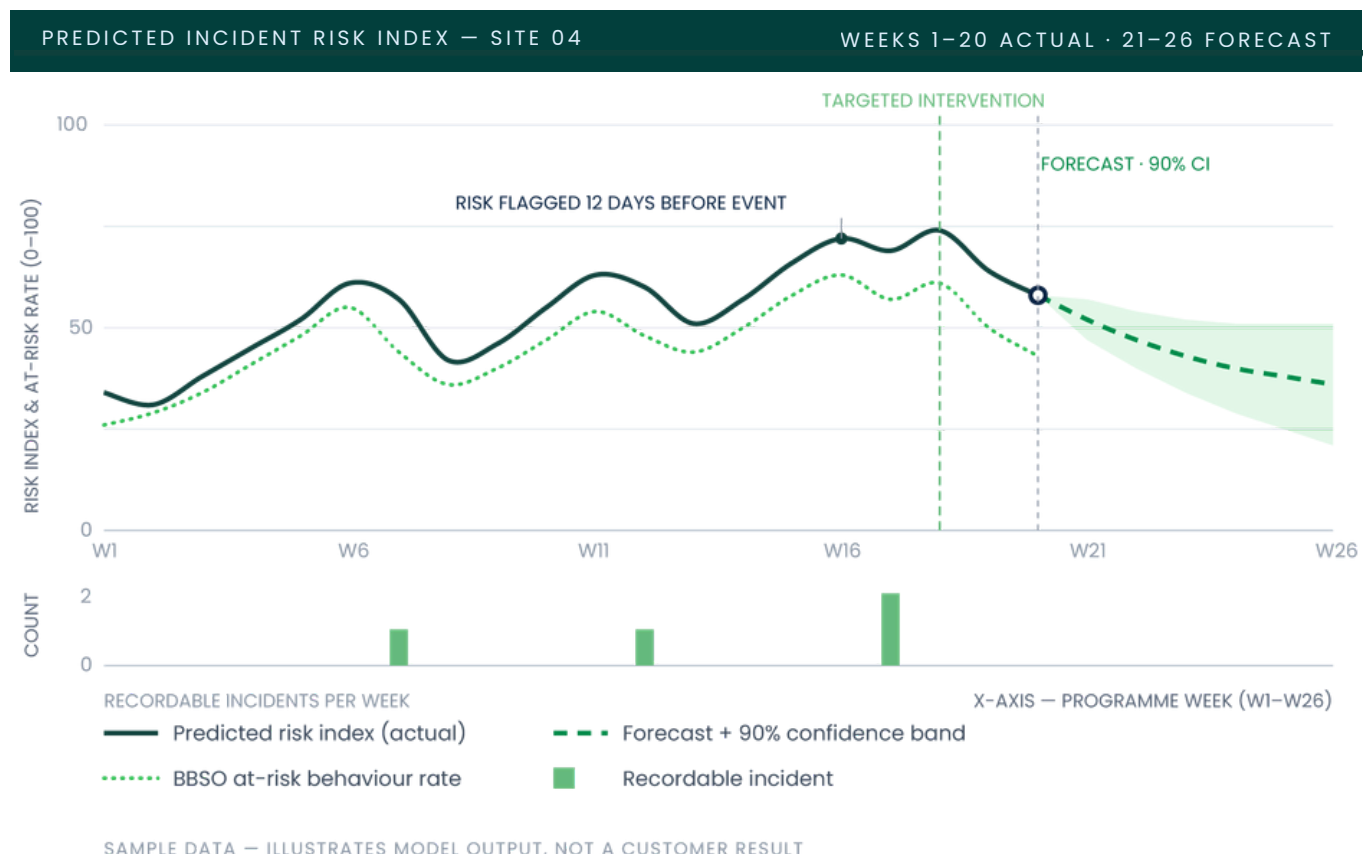
INCIDENT MANAGEMENT & SAFETY OBSERVATION

AI-based Predictive Incident Management & Safety Observation

The incident you prevent is the one you saw coming.

One platform where incident records, safety observations and behaviour-based safety observations (BBSO) interconnect — turning frontline behaviour data into forward-looking incident predictions, not month-end reports.

BBSO behaviour data moves first. The incident follows. The AI model reads the gap.



Most safety systems record the past. Interconnection is what makes them predictive.

Incidents, near-misses, hazard reports, permits and BBSO cards typically live in separate registers, so unsafe behaviour is only ever explained after harm occurs. Sparrow writes all of them to one event model with a shared taxonomy of location, activity, crew, shift and behaviour category – the minimum condition for a statistically honest prediction.

PREDICTION DATA FLOW - AI THOUGHT PROCESS

SOURCE 01

BBSO cards

Safe / at-risk behaviour, coaching outcome, observer & crew

SOURCE 02

Safety observations

Unsafe conditions, housekeeping, PPE, hazard reports

SOURCE 03

Incidents & near-misses

Injury, property, environment, first-aid, root cause

SOURCE 04

Work context

Permits, shift rosters, contractor mix, training records

NORMALISED TO ONE EVENT MODEL

STEP 01

Correlate

Behaviour patterns matched against incident history by area, activity, crew and shift.

STEP 02

Score

A rolling risk index per location and team, weighted by severity potential and recency.

STEP 03

Intervene

Targeted actions, toolbox topics and inspections issued to the owner with due dates.

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WHAT THE AI MODEL LEARNS

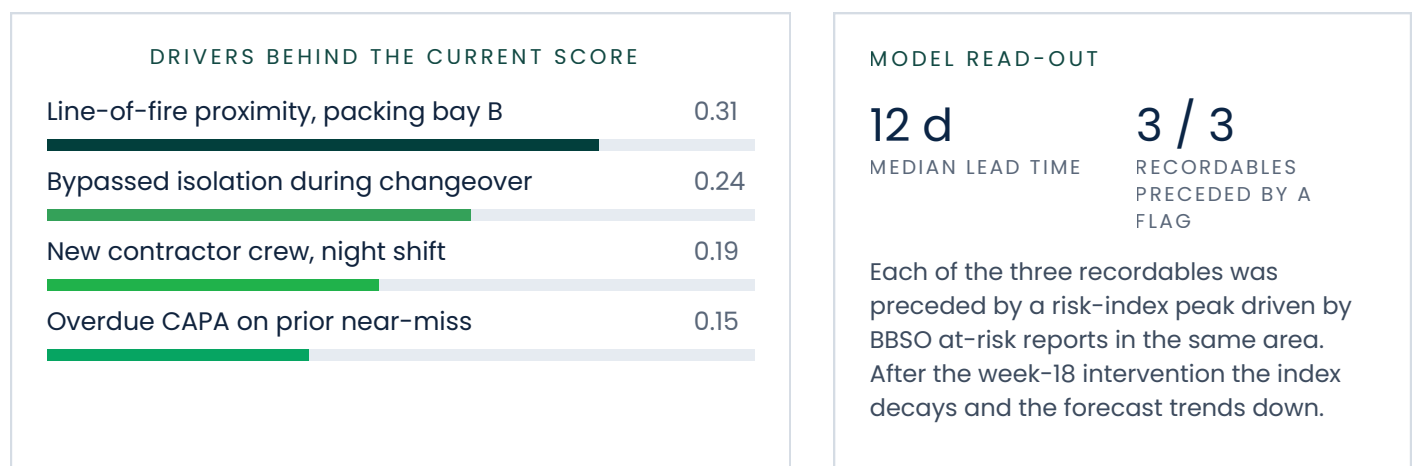
Which at-risk behaviours precede which incident types, in which conditions, and how quickly that risk decays after an intervention.

WHY IT STAYS CREDIBLE

Every prediction is traceable to the observations behind it. Observers are never scored punitively – reporting volume is protected as a leading indicator.

BBSO behaviour data moves first. The incident follows. The model reads the gap.

A single site's 26-week series with BBSO and incident management integrated: at-risk behaviour rate, the resulting predicted incident risk index, recordables as they occurred, and a six-week forecast with its confidence interval.



Where the warning sits between behaviour and harm



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CAPTURE

**Mobile, offline-first,
multilingual reporting from
every worker**

CORRELATE

Behaviour, hazard and incident data on one causal model

PREDICT

Risk scored by area, crew and shift — before the event

Built for the frontline first — because prediction is only as good as what gets reported.

MODULE 01

Incident Management

Report to closure in one workflow: notification, severity triage, investigation (5-Why, ICAM-style causal trees), CAPA with owners and due dates, and statutory reporting formats.

MODULE 02

Safety Observation & BBSO

Configurable observation cards with a behaviour taxonomy, safe/at-risk ratios, coaching conversations logged at the point of observation, and observer participation tracking.

MODULE 03

Frontline capture

Mobile app that works offline in plant interiors and syncs on reconnect. Multilingual interface, photo and voice capture, QR-tagged locations, and a report in under 60 seconds.

MODULE 04

Analytics & dashboards

Leading-indicator dashboards by site, contractor and shift; heat maps of predicted risk; drill-through from any score to its source records; scheduled board packs.

MODULE 05 — INTERCONNECTS WITH THE SYSTEMS YOU ALREADY RUN

REST API · SSO · WEBHOOKS

SAP /ERP work Orders

HRMS & contractor gate

Permit to work

LMS / training records

SCADA / Process alarms

Maintenance (CMMS)

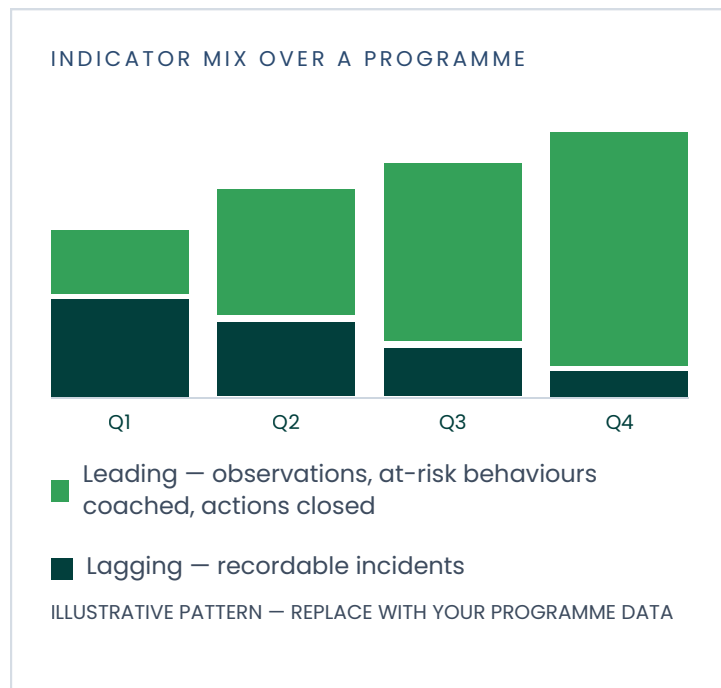
BI / Data warehouse

Teams / Email alerts

DEPLOYMENT

Cloud or in-country private hosting, role-based access down to site and contractor level, full audit trail, and configuration — forms, taxonomies, workflows, escalation matrices — without code.

From lagging counts to leading signals you can act on this shift.



Reporting stops being a chore

Sub-minute capture, offline and in the worker's language, lifts observation volume — the raw material of prediction.

Supervisors get a shift-level target

Risk scores name the area, crew and behaviour to address, not a generic safety reminder.

Leadership sees exposure, not history

One comparable index across sites and contractors, with drill-through to source records for audit.

10,700+

SITES LIVE

1,10,000+

WORKERS COVERED

0.7M+

OBSERVATIONS LOGGED

60+

INDUSTRIES SERVED

NEXT STEP

See your own incident and BBSO data run through the model.

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Reach out to schedule a demo.