SafeNod

About SafeNod

SafeNod is an intelligent EHS management platform that brings every stage of workplace safety - incident reporting, risk assessment, compliance, audits, and emergency response - into one connected system.

Core EHS Modules

Each of the 19 modules below is purpose-built for a specific EHS requirement, with its own dedicated set of capabilities.

Module 1 - Incident Management System

Records, tracks, and resolves workplace incidents from report to closure, minimizing disruption and preventing repeat occurrences.

Initial Incident Reporting

- 5-Why Analysis - a structured, step-by-step questioning chain to trace the incident back to its underlying cause
- Narration (5W+1H) - captures who, what, when, where, why, and how in a single structured field
- 6M Analysis - the same investigation repeated across all 6 causal categories (Man, Machine, Material, Method, Measurement, Mother Nature), so no angle is missed
- AI-Consolidated Root Cause - once all 6M categories are filled in, the AI synthesizes them into a single, coherent root cause statement
- Approval on the AI-consolidated root cause is restricted to Admin only, controlled through Role-Based Access Control - once approved, it is locked and won't be overwritten by future AI runs
- Auto-fetches employee details automatically during incident creation, removing manual data entry

Department Review & Approval

- Reviewed and approved by the Department Head before moving forward
- Plant Applicability can only be set by the Safety Officer or Admin, which is what triggers the linked Horizontal Deployment record

Safety Officer Closure

- Editable only by the Safety Officer (and Admin) - every other role is locked out of this section
- Cost Impact - a structured cost breakdown capturing each cost item and the total financial impact of the incident
- Activity Log - a running record of every action taken on the incident, in order
- Comments - team members can add remarks or attach supporting files directly to the incident record
- Full History - every change made to the incident, from first report through closure, remains visible and traceable

Connected Across the Platform

- Directly linked to CAPA, Horizontal Deployment, and HIRA - a single incident drives corrective action, plant-wide rollout, and risk reassessment, all from one record

Module 2 - Corrective and Preventive Action (CAPA)

Tracks corrective and preventive actions from assignment through to verified closure, built to work hand-in-hand with the incident that triggered it.

CAPA Mapped Incident Details

- Incident ID, date, location, category, and photo evidence are pulled in automatically when a CAPA is created from an incident, removing duplicate data entry
- Assignee, plant, and shop/line details carried over automatically where available

Corrective Action Tracking

- Corrective Actions and Preventive Action description, with CAPA Type (for example, Engineering or Administrative) and a due date
- Due dates are automatically flagged (for example, marked 'Due Today') so nothing slips
- Status of CAPA tracked through its full lifecycle, from Open to Closed

SOP & Horizontal Deployment Linkage

- Linked directly to the relevant SOP, with a flag showing whether the SOP was modified as a result of the corrective action
- Selecting Plant Applicability automatically creates a Horizontal Deployment record, rolling the corrective action out for verification across every applicable plant
- Linked Horizontal Deployment items are visible inside the CAPA itself, with priority, assignee, and status tracked, alongside a live completion percentage

One Point Lesson (OPL)

- Built directly into the CAPA record, turning every corrective action into a reusable training aid
- Right Way and Wrong Way captured side by side, with the hazard or risk identified from the incident
- Simulation Correct and Simulation Incorrect photo evidence, defaulting to the incident's own photo when not separately provided

Activity & Collaboration

- Comments tab with @mention notifications, so the right people are looped in as the CAPA progresses
- Full History tab showing every change made to the record, from creation to closure

Module 3 - Horizontal Deployment Management

Ensures a corrective action verified at one plant is rolled out and checked at every other plant it applies to, not left isolated at the site where the incident happened.

Auto-Created From CAPA

- A Horizontal Deployment record is created automatically the moment Plant Applicability is selected on a CAPA - no manual re-entry needed
- If more than one plant is selected under Plant Applicability, HD is rolled out to every one of those plants, so the fix is verified everywhere it applies, not just at the originating site
- Carries forward the linked CAPA ID and Incident ID, so the full trail back to the original incident and corrective action is always visible from the HD record itself
- Corrective Actions, Area/Location, and Existing Control Measure are pulled through automatically from the source CAPA

Rollout Tracking at Each Plant

- Similar Activity Done - records whether the same or a similar risk exists at this plant, so the deployment isn't just a checkbox exercise
- Responsibility and Responsible Person assigned per plant, so accountability is local, not just centralized
- Target Date of Completion of HD, with automatic overdue flagging so nothing quietly slips past its deadline
- Status of HD tracked through to Close, independently at each plant

Activity & Full Traceability

- Comments tab for plant-level discussion on the rollout
- History tab with a complete, filterable audit trail - filterable by field, by user, and by date range - showing exactly who changed what and when, down to the second

Module 4 - Permit to Work Management

Breaks a high-risk job down into its risk points, timing, and required safeguards, ensuring every control is verified and signed off before work is allowed to begin.

Job & Risk Classification

- Date, In Time, Location of Work, Nature of Work, and Contract Name captured up front
- Type of Risk scored at the point of request, so higher-risk jobs get the right level of scrutiny before approval

Configurable Safety Measure Checklist

- One toggle-based checklist covering every category of high-risk work - Height Work, Hot Works, Excavation Work, Electrical Work, Confined Space Work, Erection, and Ladder Access - so only the categories relevant to the job apply
- Each category expands into its own dedicated checklist (for example, Height Work confirms Safety Nets, Fall Arrestors, Roof Ladders, and Crawler Boards are available before approval)
- Working Platform Checklist and Common/General Work Guidelines applied consistently across every permit

Workforce & Equipment Validity Tracking

- Employee name captured against the permit for full accountability
- Electrical Equipment Valid Upto date tracked directly on the permit, so expired equipment can't quietly slip through

Safety Equipment Verification

- Safety Belt Number, Ladder Number, and LOTO Lock Number logged and matched to the job
- Electrical Gloves Valid Upto date checked as part of permit issue, not left to memory

Automated Multi-Gas Threshold Detection

- Live Gas Level Monitoring for O_2, CO, H_2S, and Flammable Gas, entered at the point of work
- Each reading is automatically evaluated against configurable safe, alert, and critical thresholds, and instantly returns a color-coded status (for example, Safe, Alert, or Deficient/Enriched for oxygen)
- A consolidated alert banner summarizes every gas reading and its status in one place the moment any value crosses a safe threshold, so a risk is never buried inside a form

Activity & Collaboration

- Comments tab with @mention notifications for issuer, receiver, and safety officer coordination
- Full History tab tracking every change to the permit from request to closure

Module 5 - Hazard Identification and Risk Assessment (HIRA)

A structured, end-to-end process to identify workplace hazards, quantify their risk, and track control measures from initial assessment through to verified residual risk - calculating risk scores automatically as data is entered.

Assessment Setup & Activity Details

- Plant, Shop/Area, Activity (Routine or Non-Routine), and Sub Activity captured together, giving every hazard a precise operational context
- Assessment Carried Out By and Employee Name recorded against each assessment for full accountability

- Date of Assessment and Date of Previous Assessment tracked side by side, so periodic review cycles are never missed
- Status maintained from Open through to Closed, with linked action count visible at a glance

Hazard Identification (Potential/Cause Identified)

- Hazard and its underlying Cause captured together, so every risk is documented with its trigger, not in isolation
- Risk / Probable Consequences field records the realistic outcome of the hazard (for example, crush injury, fracture)
- Scenario Raised classified as Normal, Abnormal, or Emergency, changing how urgently the hazard is prioritized
- Legal Concern flag identifies hazards tied to statutory or regulatory exposure

List of Existing Control Measures & Automated Risk Scoring

- Engineering Controls, Administrative Controls, and PPEs logged individually, so every existing safeguard is on record before a fresh risk score is taken
- Severity, Probability, and Exposure entered as the three underlying risk inputs
- Risk Priority Number (RPN) calculated automatically the instant Severity, Probability, and Exposure are entered - no manual multiplication required
- Risk Level (Low, Medium, or High Risk) automatically classified and colour-coded directly from the calculated RPN
- Recalculates instantly if any of the three inputs is changed, before the record is even saved

Further Control Measures - Action to Be Taken

- Elimination and Substitution captured first, following the internationally recognized hierarchy of controls
- Engineering Control, Administrative Control, and PPE captured as the next layers of defense, applied where elimination or substitution isn't feasible
- Each layer of control documented independently, creating a clear record of what was considered versus what was ultimately implemented

Feasibility Studies

- Technical Feasibility, Operational Feasibility, and Economical Feasibility assessed individually for every proposed control
- A single, consolidated Feasibility conclusion captured once all three dimensions are reviewed
- Ensures proposed controls are evaluated for real-world viability, not just theoretical risk reduction

Residual Risk Assessment & Verification

- Severity (Residual), Probability (Residual), and Exposure (Residual) re-entered once controls are applied
- RPN (Residual) and Risk Level automatically recalculated using the same scoring engine, so the improvement from the original risk is always visible
- Operating, Testing & Preventive Maintenance schedule captured to keep the implemented control effective over time
- Operational Control Procedure links the assessment directly to the governing SOP
- Remarks field tracks ongoing notes, such as near-misses or a control still on trial

Activity & Collaboration

- Comments tab with @mention notifications, keeping reviewers and safety officers looped in as the assessment progresses
- Full History tab tracking every change to the assessment, from initial hazard entry through residual risk closure

- Directly linked to Incident Management, so an incident can trigger a fresh or updated HIRA for the same activity

Module 6 - Job Safety Analysis (JSA)

Breaks a job into steps, identifies the risk in each step, and defines the safety measure needed before that step is carried out - with a full assessment, sign-off, and governance trail built around it.

Job Setup & Details

- Plant, Job Title, Job Location, and Job Designation captured up front, so every JSA is tied to a specific job, not a generic template
- Job Performed By and Order No recorded for full traceability back to the work order that triggered the analysis
- Date of assessment logged automatically, keeping every JSA time-stamped from creation

JSA Team / Assessment Team

- Name and Role captured for every team member involved in building the analysis
- Originator / Team Member and Approver Dept Incharge recorded separately, keeping authorship and approval distinct
- Safety representative logged against the record, so safety sign-off is never assumed, only recorded

Generated By & Validated By (Governance Trail)

- Generated By captures Name, Company/Contractor, Plant, and Date - identifying exactly who first raised the JSA and from where
- Validated By captures Name, Plant Safety Incharge, Plant, and Date separately, keeping origination and validation as two distinct, auditable steps
- Both trails are timestamped independently, so the gap between drafting and validation is always visible

Job Steps, Hazards & Controls (Repeatable Step Builder)

- Job Step, Hazard/Risk, Control Measures, and Responsibility captured as a repeatable, numbered set of rows - add as many steps as the job actually needs with a single click
- Each hazard is paired directly with its own control measure and the person responsible for it, so nothing is left as a general statement
- Responsibility assigned per step from a configurable list (for example, Production, Maintenance, Contractor), keeping accountability at the step level, not just the job level
- Status field tracks the JSA through its lifecycle, from Open to Closed

Sign-Off

- Signature of Site Incharge and Verification of Site Incharge captured as two separate approval points before the job is cleared to start
- Signature AL Site Incharge adds an additional line-level sign-off for higher-risk or multi-area jobs
- Status visible directly alongside the sign-off block, so approval progress and job status are read together, not separately

Activity & Collaboration

- Comments tab with @mention notifications, so team members and approvers can be looped in as the JSA is built out
- Full History tab tracking every change to the record, from initial draft through validation and sign-off

Module 7 - Environmental Aspect and Impact Management

Tracks activities that affect the environment and the impact they have, scoring each aspect automatically and flagging the ones that need active management.

Aspect & Activity Setup

- Activity/Process and Aspect captured together, so every environmental impact is tied to the exact operation that causes it
- Impact recorded alongside the aspect, describing the real-world environmental effect (for example, air, water, waste, or noise)
- Lifecycle Stage classifies where in the process lifecycle the aspect occurs (for example, Maintenance, Operation, or Disposal)
- Scenario Type distinguishes Normal, Abnormal, and Accident conditions, since the same aspect can carry very different risk depending on the scenario

Legal Context & Automated Risk Scoring

- Legal Requirement field links the aspect to the specific regulation or norm it falls under (for example, a pollution control board norm)
- Severity, Frequency, and Detectability entered as the three underlying scoring inputs
- Risk Score calculated automatically the instant Severity, Frequency, and Detectability are entered - no manual multiplication required
- Significant Aspect flag (Yes/No) is automatically derived from the calculated Risk Score, instantly surfacing which aspects require formal management versus routine monitoring

Controls & Action Planning

- Existing Controls captured against every significant aspect, documenting what's already in place before new action is planned
- Objective / Target field sets a measurable improvement goal directly against the aspect
- Action Plan captured alongside the objective, turning a scored risk into an assigned, trackable initiative
- Responsible Person assigned to own the action plan through to completion

Review & Monitoring

- Review Frequency (for example, Monthly) set per aspect, so higher-risk aspects can be reviewed more often than low-risk ones
- Last Review Date tracked automatically, making overdue reviews easy to spot at a glance
- Status maintained through Open to Closed, independent of the review cycle itself
- Remarks field keeps a running note of context that doesn't fit a structured field

Activity & Collaboration

- Comments tab with @mention notifications, so environmental and compliance teams can coordinate directly on the record
- Full History tab tracking every change to the aspect, from initial identification through to the current review cycle

Module 8 - Risk and Opportunity Management

Maintains a central, scored record of identified risks and opportunities, tracking each one from initial identification through to a verified residual position.

Risk / Opportunity Classification

- Category and Process/Activity captured together, so every entry is grounded in a specific operational context (for example, Admin, Contractor Management)
- Risk / Opportunity field distinguishes whether the record represents a threat to manage or a benefit to pursue

- Risk Description and Aspect/Hazard document what the risk or opportunity actually is and what triggers it
- Impact / Consequence records the realistic outcome if the risk materializes, or the effect if the opportunity is realized

Legal & Stakeholder Context

- Legal Requirement flag identifies records tied to statutory or regulatory obligations
- Interested Parties Impact captures who else - internally or externally - is affected by this risk or opportunity

Automated Risk Scoring

- Likelihood and Severity entered as the two underlying scoring inputs
- Risk Score calculated automatically the instant Likelihood and Severity are entered - no manual multiplication required
- Risk Level automatically classified and colour-coded directly from the calculated Risk Score (for example, High)
- Recalculates instantly if either input is changed, before the record is even saved

Controls, Actions & Opportunity Benefit

- Existing Controls documents what's already in place to manage the risk today
- Additional Controls / Actions captures what further action is planned, separate from what already exists
- Opportunity Benefit field quantifies the upside when the record is classified as an opportunity rather than a risk
- Objective Link ties the record back to a broader organizational objective or target where relevant

Ownership, Review & Residual Position

- Responsible Person and Target Date assigned so every risk or opportunity has a clear owner and deadline
- Review Frequency (for example, Annual) set per record, keeping review cadence proportionate to its significance
- Residual Likelihood and Residual Severity re-entered once additional controls are applied
- Residual Risk Score automatically recalculated from the residual inputs, so the improvement from the original score is always visible
- Approval Status and Status tracked independently, so sign-off and lifecycle stage are never conflated
- Last Review Date and Remarks keep the record current and give space for any context that doesn't fit a structured field

Activity & Collaboration

- Comments tab with @mention notifications, so risk owners and reviewers can coordinate directly on the record
- Full History tab tracking every change, from initial identification through to the current residual position
- Cross-linked with HIRA and Incident data, keeping enterprise-wide risk visibility grounded in real operational events

Module 9 - Management of Change (MOC)

Ensures changes to a process, system, or piece of equipment are properly recorded, reviewed, and approved before implementation - carrying the request through justification, audit, and a full Pre-Startup Safety Review.

Change Request Setup

- Plant, Shop, and Proposing Department captured up front, so every change request is grounded in a specific location and function

- Department, Proposer Name, Line, and Equipment/Process identify exactly what is being proposed and by whom
- Request Date logged automatically at the point of submission

Part I - Change Justification & Departmental Review

- Reason for New Facility/Modification and Brief Description of New Facility/Modification capture the what and why of the proposed change together
- Impact of the Modification/Environment Description documents the operational or environmental effect before approval is considered
- Expected Period of Implementation sets the timeline the change is being requested against
- Employee of Proposer and Proposer Dept Head recorded to keep departmental accountability clear from the outset
- Remarks by User and User Decision capture the requesting department's own sign-off position
- Remarks by EHS Team and EHS Decision recorded independently, keeping departmental approval and EHS approval as two distinct, auditable decisions

Part II - Audit Recommendation & Sign-Off

- Remarks by User & EHS consolidates both perspectives once Part I is complete
- Final Recommendation by Audit Team captured as the deciding review before implementation is cleared
- User Section Head and Safety Officer/Environment Team recorded as the final named approvers on the change

Pre-Startup Safety Review (PSSR) Audit Checklist

- Asset Number and Date tie the checklist to the specific piece of equipment or facility being reviewed
- Machineries, Electrical Power System, Floors, Lifting Gear Equipment, Conveyors, and Pressure Vessels checked individually as part of the physical safety review
- Ventilation, Lighting - Lux, and Noise Exposure captured as measured environmental conditions (for example, Mechanical Ventilation, 100-200 Lux)
- Tool Change and Statutory - Competent Person Check confirm equipment and regulatory sign-off before startup
- Any Other Observation field captures anything outside the standard checklist categories
- Multiple reviewer roles (User 1, User 2, Safety Officer) each linked to a named Employee, so the review carries more than one accountable reviewer

Linked HIRA Reports

- HIRA ID field links the MOC directly to one or more existing Hazard Identification and Risk Assessment records
- Keeps the risk basis for the change visible from inside the MOC itself, instead of requiring a separate lookup
- Supports linking multiple HIRA records where a single change affects more than one previously assessed hazard

Activity & Collaboration

- Comments tab with @mention notifications, keeping proposers, department heads, and the EHS/audit team coordinated as the change moves through review
- Full History tab tracking every change to the record, from initial request through PSSR completion

Module 10 - Compliance Management

Tracks every applicable regulatory and statutory requirement, and monitors the organization's live status against each one, right through to closure.

Compliance Register Setup

- Compliance Title, Law/Act Name, Section/Clause, and Regulatory Authority captured together, so every requirement is tied to its exact legal basis
- Compliance Category, Department, and Location/Site recorded per entry, giving a precise view of who owns what, and where
- Compliance Owner assigned per requirement, so accountability is never ambiguous

Frequency, Reminders & Evidence

- Frequency and Reminder Days configured per requirement, so recurring obligations (monthly, quarterly, annual) are never missed
- Document Required flag and Evidence Upload keep the supporting proof attached directly to the compliance record
- Due Date and Completion Date both carry automatic overdue flagging, so a lapsed requirement is impossible to overlook

Status, Approval & Risk Classification

- Status tracked through its lifecycle (for example, In Progress to Closed), separate from Approval Status and Approval Date, so operational progress and formal sign-off are never conflated
- Approved By recorded once sign-off is complete
- Risk Level (for example, Low, Medium, High) classified per requirement, so the compliance register also doubles as a risk register

Non-Compliance & Escalation

- Non-Compliance and Penalty Details captured directly against the requirement when a gap is found
- CAPA Required flag and CAPA ID (Linked) connect a non-compliance straight into the CAPA module for corrective action
- Escalation Level tracks how far a lapsed or non-compliant item has been raised
- Compliance Type field distinguishes the nature of the requirement (for example, statutory vs. internal policy)

Activity & Collaboration

- Comments tab with @mention notifications for coordinating compliance follow-up
- Full History tab tracking every change to the record, from creation to closure
- Remarks field for ongoing notes that don't fit a structured field

Module 11 - Audit Management System

A configurable, section-and-clause-mapped audit engine that plans, executes, and scores audits directly against structured questions, not a generic checklist.

Structured Section Library

- Audit sections mirror a recognized safety-management clause structure out of the box - for example, Understanding the Organization and its Context, Leadership and Commitment, Policy, Organizational Roles, Responsibilities and Authorities, Consultation and Participation of Workers, Actions to Address Risks and Opportunities, and on through Competence, Awareness, and Communication
- Every section shows its clause reference and total question count at a glance, so auditors know exactly how much ground is left to cover

No-Code Question & Sub-Question Builder

- Questions and sub-questions for every section are fully configurable from Admin Settings - no developer needed to add, edit, or reorder them

- Each question can carry multiple sub-questions, letting one clause be broken down into several specific, auditable points instead of one broad question

Multi-Answer Question & Answer Workflow

- Every sub-question has its own dedicated answer thread, so evidence and responses aren't confined to a single fixed field
- Multiple answers can be logged against the same sub-question over time - each one date-stamped, individually editable, and deletable - building a running record rather than overwriting the last entry
- Character-count guardrails on every answer field keep responses within a controlled, consistent length across the audit
- Answers save independently per sub-question, so an auditor's progress is never lost even if the rest of the section is incomplete

Auditor Access & Findings Routing

- Auditor-specific access controlled through role-based permissions, so only assigned auditors can answer or amend a given audit
- Findings identified during the audit are routed directly into the Audit Findings Management module, keeping non-conformance tracking separate from the raw question-and-answer record

Supporting Evidence Review

- AI Document Compliance Auditor available for reviewing supporting evidence uploaded against a question
- Real-time audit status view showing progress across every section, not just the one currently open

Module 12 - Audit Findings Management

Captures every non-conformance raised during an audit and tracks it through to verified, evidence-backed closure.

Finding Classification

- Finding Type (for example, Minor NC or Major NC) captured against every non-conformance, so severity is visible at a glance
- Clause Reference ties the finding directly back to the specific audit clause it was raised against
- Risk Level assigned per finding, keeping non-conformances prioritized the same way risks are elsewhere on the platform
- Root Cause captured directly on the finding, not left for a separate investigation

Corrective Action & Ownership

- Corrective Action description and Responsible Person assigned together, so every finding has a clear owner from the moment it's logged
- Target Date carries automatic due-today and overdue flagging, so a finding can't quietly age past its deadline
- Status tracked independently of the corrective action itself, keeping lifecycle stage and remediation progress visible side by side

Closure Evidence

- Closure Evidence can be uploaded directly from the device or captured on the spot using the camera - no separate photo app needed
- Clear and Cancel controls let the evidence be redone before it's submitted, so a wrong file never gets locked in
- Closure Date recorded the moment the finding is verified shut

Activity & Collaboration

- Comments tab with @mention notifications for coordinating remediation with the responsible person

- Full History tab tracking every change to the finding, from raised to closed

Module 13 - Mock Drill Management

Schedules, executes, and scores mock drills end-to-end, then feeds every gap straight into corrective action - not just a record of who showed up.

Drill Setup & Scenario Link

- Drill Title, Plant, Department, and Location/Site captured up front, so every drill is tied to a specific place and function
- Scenario ID (Linked) ties the drill directly to a record in the Scenario Management System, keeping the drill grounded in a defined emergency scenario rather than a generic exercise
- Planned Date and Drill Frequency (for example, Weekly) set the recurring cadence for that scenario at that location

Execution & Participation

- Actual Date and Employee Name capture exactly when the drill ran and who conducted it
- Participants Count and External Agencies logged together, so internal turnout and outside responder involvement are both on record
- Response Time and Evacuation Time captured as hard numbers, not general impressions

Performance Scoring

- Mock Drill Score and Performance Rating give the drill a quantified outcome, not just a pass/fail note
- Gaps Identified captured as its own field, so shortcomings are never buried inside a general remarks box
- Drill Outcome (for example, Satisfactory) recorded as the final, at-a-glance verdict on the drill

CAPA Linkage & Evidence

- CAPA Required flag and CAPA ID (Linked) let a drill with identified gaps roll straight into a corrective action, without a separate follow-up step
- Evidence Upload supports both uploading from the device and capturing directly with the camera, right from the same screen

Approval & Next Cycle

- Approved By captured through a single one-click Approve action, with the Approval Date set automatically the moment it's actioned
- Next Drill Date scheduled directly on the same record, so the recurring drill cycle is self-perpetuating rather than manually re-created each time
- Remarks field keeps any additional context that doesn't fit a structured field

Activity & Collaboration

- Comments tab with @mention notifications for coordinating with drill participants and reviewers
- Full History tab tracking every change to the record, from scheduling through approval

Module 14 - Standard Operating Procedure (SOP) Management

Centralizes every SOP with full version control, review governance, and direct linkage to the hazards and training it covers.

SOP Identity & Ownership

- SOP Title, SOP Category, Department, and Location/Site captured together, so every procedure is tied to a specific area and function
- SOP Owner assigned per document, keeping accountability clear for the life of the procedure

Version Control & Governance

- Version Number and Revision Number tracked independently, so both the document version and the number of revisions it's been through are visible at a glance
- Prepared By, Reviewed By, and Approved By recorded as three distinct steps, so drafting, review, and sign-off are never conflated into one name
- Approval Date and Effective Date captured separately, since a procedure can be approved before it actually goes live
- Obsolete Flag and Change Summary retire outdated versions cleanly while keeping a record of exactly what changed

Review Cycle

- Review Frequency (for example, Annual) set per SOP, so higher-risk procedures can be reviewed on a different cadence than routine ones
- Next Review Date tracked automatically, making an overdue review easy to spot before it lapses

Procedure Content & Risk Context

- Procedure Steps, Hazards Identified, and Control Measures captured directly within the SOP, so the hazard basis for each step is never separated from the instruction itself
- PPE Required and Equipments/Tools listed against the procedure, so readiness requirements are explicit, not assumed
- Legal Reference field ties the SOP to the specific regulation or standard it's written to satisfy

Training & Document Linkage

- Document Upload attaches the authoritative SOP file directly to the record
- Training Required flag and Training ID connect the SOP straight to the training record employees need to complete before working to it

Activity & Collaboration

- Status tracked through the SOP's lifecycle (for example, Open to Closed)
- Comments tab with @mention notifications for coordinating review and approval
- Full History tab tracking every change to the document, from drafting through every subsequent revision

Module 15 - Behavioral Based Safety Management

Captures safety behaviors and observations directly from the floor, scores their risk, and routes anything unsafe straight into corrective action.

Observation Setup

- Date, Time, Location/Site, and Department captured together, so every observation is grounded in exactly when and where it happened
- Observer Name and Observer Role recorded, keeping the observation attributable without requiring the observer to be a safety specialist

Subject & Activity Details

- Employee Name and Employee ID captured against the observation for full traceability
- Activity/Task and Work Category document exactly what work was being performed at the time

Behavior Classification

- Behavior Category classifies the type of behavior being observed (for example, Hazard Awareness)
- Safe / Unsafe field gives every observation a clear, binary classification before any further detail is added
- Risk Level scores the observation's severity, keeping unsafe behaviors prioritized the same way risks are elsewhere on the platform

Root Cause & Response

- Root Cause captured directly on the observation (for example, Communication Gap), not left for a separate investigation
- Immediate Action Taken and Recommendation recorded side by side, separating what was done on the spot from what should change going forward

CAPA Linkage & Evidence

- CAPA Required flag and CAPA ID (Linked) connect an unsafe observation straight into the CAPA module for formal corrective action
- Photo Evidence attaches visual proof directly to the observation

Review & Closure

- Reviewed By and Review Date capture a second set of eyes on every observation before it's closed
- Status tracked independently through to Close, so review and resolution are never assumed to happen at the same moment

Activity & Collaboration

- Comments tab with @mention notifications for coordinating with the observer and reviewer
- Full History tab tracking every change to the observation, from logged to closed

Module 16 - Occupational Health

A configurable tracker for monitoring employee occupational health end-to-end - from exposure profile, through medical examination, to fitness determination and follow-up.

Employee & Exposure Profile

- Basic Details - Gender, Age, Employee Name, Employee ID, Department, and Plant - captured together as the record's foundation
- Job & Exposure Details - Job Role, Work Area, Exposure Type, Exposure Level, and Duration of Exposure - document the specific occupational risk the employee is being monitored for

Medical Examination Scheduling

- Exam Type, Exam Date, and Next Exam Date captured together, so the screening cadence for each employee is always visible
- Doctor Name and Medical Center recorded per examination, keeping the record tied to a named, accountable provider

Structured Health Parameter Capture

- Blood Pressure, Vision Test, Hearing Test, and Lung Function captured as standardized fields rather than free text, keeping results comparable across exams and employees
- Other Tests field captures anything outside the standard parameter set

Medical Findings & Fitness Determination

- Health Status (for example, Fit) gives every examination a clear, at-a-glance outcome
- Abnormalities and Occupational Disease fields flag anything that deviates from a routine result
- Remarks field keeps the examiner's own notes alongside the structured findings

CAPA Linkage, Restrictions & Follow-Up

- CAPA Required flag and CAPA ID (Linked) connect a concerning finding straight into the CAPA module for corrective action
- Fitness Certificate status (for example, Issued), Restrictions, and Treatment Required capture the practical outcome of the examination for the employee's day-to-day role
- Follow-up Date schedules the next check automatically, so a flagged case is never left to be remembered manually

Document Vault

- Medical Report and Lab Report each support uploading directly from the device or capturing on the spot with the camera
- Keeps every supporting document attached to the exact examination it belongs to

Activity & Collaboration

- Status, Created Date, and Last Updated tracked as system fields for full lifecycle visibility
- Comments tab with @mention notifications, and a full History tab, protected throughout by role-based access control to keep sensitive health data restricted to authorized personnel only

Module 17 - Employee Hazard Reporting Management

Gives every employee a simple way to report a hazard, near-miss, or unsafe condition directly - and automatically groups related reports from the same plant into a single incident, instead of creating duplicate records.

Quick Reporting for Every Employee

- Potential Impact description, Frequency, and Suggested Action captured in a short, simple form anyone on the floor can fill out
- Photo and Video evidence can be uploaded from the device or captured on the spot with the camera

Automatic Incident Linking

- The moment a hazard report is submitted, it's automatically checked against existing open incidents at the same plant, within a matching time window
- If the issue type is related (for example, chemical exposure, fire, or a slip/trip/fall - matched using grouped hazard categories, not just an exact text match) and the description overlaps, the new report is attached directly to that existing incident instead of creating a duplicate
- If no matching incident exists, a new one is created automatically and linked back to the hazard report

AI-Weighted Consolidation

- A deeper AI consolidation pass scores every new report against nearby incidents using three factors together: how close in time the reports are, how close in location they are (calculated from GPS coordinates), and how visually similar the submitted photos are
- This means two employees reporting the same hazard from different angles or slightly different wording still get grouped into one incident, rather than opening the safety team up to duplicate investigations

Full Traceability

- Every underlying field - Issue Type, Category, Area, Risk Level, Location, Immediate Action Taken - remains visible on the individual hazard report even after it's linked to an incident
- Status tracked through to corrective closure, independent of the linked incident's own status

Activity & Collaboration

- Comments tab with @mention notifications for coordinating follow-up on the report
- Full History tab tracking every change to the record, from submission through closure

Module 18 - Scenario Management System

Defines and tracks emergency or operational scenarios end-to-end, so every drill, plan, and response has a pre-built reference to run against.

Scenario Definition

- Scenario Name and Emergency Type captured together, defining exactly what situation the scenario prepares the organization for
- Risk Level scores the scenario's severity, keeping high-risk emergency types visibly prioritized over routine ones

Response Readiness

- Standard Response Time sets the benchmark every actual drill or real event is measured against
- Required Equipment lists what must be available and accessible for this scenario to be handled correctly
- Responsible Team assigned directly to the scenario, so ownership is clear before any drill or real event happens

Linked Emergency Plan

- Linked Plan ties the scenario directly to its governing emergency response plan, instead of leaving the plan as a separate, disconnected document
- Provides the reference scenario that Mock Drill Management runs against, so every drill is tested against a defined standard rather than an improvised one

Activity & Collaboration

- Comments tab with @mention notifications for coordinating with the responsible team
- Full History tab tracking every change to the scenario definition over time

Module 19 - Emergency Preparedness and Response Management

Documents emergency scenarios and preparedness activities, and tracks how effectively the organization responds.

Key Features:

- Scenario documentation and preparedness planning
- Checklist-based readiness verification
- Direct linkage to Mock Drill Management for effectiveness testing
- Document attachment for emergency response plans
- Preparedness status view across sites

Platform Features

Beyond the 19 core modules, SafeNod includes a set of platform-wide capabilities that make the system faster to adopt, easier to manage, and more intelligent over time.

Real-Time Dashboards

A live command center for safety performance - not a static report, but a filterable, drill-down view of every incident, trend, and rate metric across the organization, with every panel pairing an AI-written Inference alongside AI-Suggested Actions.

Command Center & Filters

- A live incident counter and last-updated timestamp shown right at the top, so leadership knows exactly how current the data in front of them is
- Filters for Plant, Dashboard Name, Financial Year, and Month, letting the same dashboard serve a single-site review or a full enterprise rollup
- Admin Settings available directly from the dashboard, for configuring what the dashboard itself surfaces

Executive KPIs

- Total Incidents, Near Misses, Reportable Cases, Open CAPA, First Aid/Non-Reportable, and Incident Frequency Rate shown as headline numbers, each with a period-over-period change indicator
- Gives leadership the full-scope number - '562 incidents in scope' - before they drill into any single chart

EHS Safety Observation Analysis

- Unsafe Act / Unsafe Condition mix shown as a donut breakdown, splitting the total observation count between the two categories
- Unsafe Act further broken down by who reported it - Employee, Contractor, Visitor, Trainee, Apprentice, or Others
- Unsafe Condition further broken down by outcome severity - Reportable, Non-Reportable, or First Aid

Leading Indicators

- Near Miss Cases and Unsafe Acts & Conditions tracked as trend charts, with an Injury-to-Near-Miss ratio calculated year over year
- Every panel carries a status flag (for example, Worse or Better) against the prior period, so a declining trend is visible at a glance, not buried in a table
- An Inference block underneath each panel is an AI-written, plain-language summary of what the numbers actually mean - for example, explaining that a high near-miss count signals a workforce actively catching hazards before they become injuries
- An Actions block sits alongside it, explicitly labeled Suggested by AI - concrete next steps such as auditing a specific plant, scheduling a review meeting, or launching a targeted observation campaign

Lagging Indicators - Safety Performance by Plant

- First Aid Cases, Non-Reportable Cases, and Reportable Cases tracked as trend charts, each paired with a plant-comparison view
- Surfaces which plant carries the largest share of injury cases, so investigation effort is targeted rather than spread evenly by default
- Inference and AI-Suggested Actions follow the same pattern as the leading indicators - explaining what the case mix means and recommending specific audits or reviews at the plants driving it

Plant-Wise CAPA Horizontal Deployment

- Total Incidents, Applicable for HD, HD Implemented (with a live completion percentage), and Work in Progress shown together as one status strip
- A plant-wise bar chart breaks deployment progress into five tracked stages (from initial incident capture through to HD effectiveness), so a stalled rollout is visible by plant, not just in aggregate
- Inference explains what the current HD backlog means operationally, and AI-Suggested Actions recommend concrete follow-up - assigning ownership, scheduling review meetings, or auditing completed CAPAs for real-world effectiveness

Safety Index - Year to Date

- LTIFR (Lost Time Injury Frequency Rate), Reportable Severity Rate, and First Aid Frequency Rate tracked as normalized, rate-based metrics rather than raw counts, so performance is comparable across periods regardless of headcount changes
- Inference explains which rate is driving overall index movement, and AI-Suggested Actions recommend targeted intervention - such as a safety management review at the plant contributing the largest share

Incident Analysis & Injury Cases Analysis

- Incidents broken down by accident type - Near Miss, First Aid, Reportable, Fire, and Other - as a single donut, with supporting trend charts for injury cases and near-miss/fire incidents over time
- Injury cases further broken down plant-wise and by employee category (Employee, Visitor, Contractor, Trainee, Production)

- A body-part-wise injury view renders results on a human body map, showing exactly which body parts are affected most often and how severely - so a pattern like repeated hand and arm injuries is visible immediately, not buried inside a spreadsheet

Incident Table

- A live, filterable table of the latest incidents matching the dashboard's current filters - Incident ID, Date, Plant, Department, Location, Shift, Accident Type, and Status
- Every incident is one click away from its full record, so the dashboard is a starting point for action, not just a reporting surface

Presentation

Turns the incident record itself into a ready-to-share, on-demand presentation - replacing the manual work of pulling data out of the system and rebuilding it as a slide deck. Instead of exporting data and formatting a PPT by hand, the Presentation view renders a single incident, end to end, exactly as it stands in the system - CAPA, hazard controls, and the trained lesson that came out of it - as one shareable, print-ready screen that a safety officer can walk leadership through directly, or send by email on a schedule.

Incident Playback View

- Every incident opens as a single, self-contained presentation record - Incident ID, Status, Date, Time, Employee Name, Age, Experience, and Category (for example, Reportable) shown together in the header, so the full context of the incident is visible before a single detail is read
- A date-range filter at the top lets the same view be scoped to any reporting period, while forward/back arrows and a running counter (for example, '58 / 589') let a reviewer step through every incident in the system one at a time, in order, without leaving the presentation
- A direct 'Go to ID' jump box lets a reviewer open any specific incident immediately by its ID, instead of paging through the full list to find it
- Incident Photo evidence is displayed as a photo strip directly inside the presentation, so visual proof of the incident is seen in the same view as the written detail, not attached as a separate file
- Because the view is generated directly from the live incident record, it always reflects the latest status, CAPA progress, and closure detail the moment it's opened - there is no separate export step to keep in sync

Multiple CAPA per Incident, Presented Together

- A single incident can carry more than one corrective action, and the presentation lists every linked CAPA as its own numbered row against that incident, rather than assuming a strict one-to-one relationship

- Each row carries its own CAPA ID, Details of First Aid/Corrective Detail, Reason of Abnormality, Responsibility, Status, and Horizontal Deployment reference, so several corrective actions arising from the same incident - for example, one engineering fix and one procedural change - stay visible side by side instead of being buried inside separate records
- Status is tracked per CAPA row (for example, Open), so a reviewer can see at a glance which of several corrective actions from the same incident are still pending and which are already closed
- Safety Learning is captured per CAPA row as well, so the takeaway from each corrective action is recorded against that specific action, not only against the incident as a whole

Hierarchy of Hazard Controls Reference

- Every incident presentation carries the standard Hierarchy of Hazard Controls pyramid - Elimination, Substitution, Engineering, Administrative, and PPE - alongside the incident detail
- The control level actually used for that incident's corrective action is visually highlighted directly on the pyramid, so a reviewer can immediately see whether the response relied on the most effective controls (Elimination, Substitution, Engineering) or fell back on the least effective ones (Administrative, PPE)
- Keeps the accepted safety-management principle - that engineering and elimination-level fixes are inherently more reliable than relying on a procedure or protective equipment - visible on every single incident, not just referenced in a separate training document

One Point Lesson - Correct vs Incorrect

- Every CAPA's One Point Lesson is rendered inside the presentation as a structured training card, tied to the Shop/Line, Equipment/Location, and Date of Preparation for that specific corrective action
- Classification checkboxes - Basic Knowledge, Safety Awareness, or Trouble Shooting - tag the lesson by the kind of learning it delivers, and the Hazard/Risk identified from the incident is restated directly on the card so the lesson is never separated from the risk that prompted it
- Incorrect and Correct practice are laid out side by side, each with its own simulation photo - Simulation Incorrect and Simulation Correct - so the wrong way and the right way are seen in direct visual contrast rather than described only in text
- When a separate simulation photo hasn't been captured, the card automatically falls back to the incident's own photo, so the lesson is never left blank while awaiting new evidence
- Wrong Way and Right Way text fields sit beneath each image, spelling out in plain language exactly what made the practice unsafe and what makes the corrected version safe
- Prepared By and Verified By are both recorded directly on the lesson, so every One Point Lesson carries a named author and a named reviewer before it's treated as ready to train from

Email Report - Send Now & Scheduling

- Any presentation or dashboard view can be emailed directly from where it's being viewed, without exporting a file first, through a single Email Report action
- Send Now and Schedule are offered as two distinct modes on the same screen, so the same report can go out immediately for an ad-hoc request or be set up once to recur automatically
- Recipients are added by typing an email address or searching existing users, with support for adding multiple recipients to the same report
- Subject line is fully editable per report (for example, 'Weekly Safety Report - Jul 2026'), so the same underlying data can be framed differently depending on who it's going to
- Attach Dashboard keeps a live 'Open dashboard' link included directly in the email body, so the recipient can click through to the current, interactive view rather than only reading a static snapshot
- Active Schedules are listed on the same screen once a recurring report is set up, giving a single place to see every report currently scheduled to go out, with a clear empty state ('No active schedules yet') when none exist yet
- Scheduled reports carry a fixed delivery time (for example, reports delivered at 8:00 AM), so recipients receive their safety reporting at a consistent, predictable point in the day

- Removes the need for a safety officer to manually rebuild the same report by hand every week or month - the schedule keeps recipients current without repeated manual effort

AI-Powered Chatbot Assistant

A built-in assistant available right inside the platform, for everyone - not just technical users.

Key Features:

- No prior computer knowledge needed - anyone can simply speak or type naturally and get things done
- A worker with little formal education can create a report just by talking to it, in plain, everyday language
- Ask questions about your own data in plain English and get instant answers - no dashboard navigation required
- Voice input and voice replies, so typing isn't required at all
- Removes the need for a support ticket or formal training session to use the platform

Two Modes in One Widget - Agent Mode & Chat Mode

- The assistant opens as a single floating widget with an Online status indicator, and a mute/unmute control, minimize, and close button, so it can be muted or tucked out of the way without losing the conversation underneath
- Agent Mode and Chat Mode sit as two tabs at the top of the same widget, so switching between getting something done and asking a question is a single tap, not a different tool
- A persistent 'Need help?' prompt, carrying the assistant's own avatar, stays available across the platform - inviting a worker to open the assistant the moment they need it, rather than having to know where to look for it

Agent Mode - Create and Modify a Record by Conversation

- On opening Agent Mode, the assistant immediately offers two quick-action choices - Modify a Record and Create a New Record - so the very first step is a tap, not a blank screen
- Choosing Create a New Record starts a guided, conversational data-entry flow - the assistant asks for each required field in turn (for example, plant, location, category, description) instead of presenting an empty form to fill in unaided
- Choosing Modify a Record lets the user identify the record either by its ID or by describing it in plain language (for example, 'the near-miss reported yesterday at Shop 2'), and the assistant locates the

- Once every required field has been gathered, the assistant writes the values directly into the underlying record and confirms back what was created or changed, so the record is live in the system at the end of the conversation, not left as a draft to be re-entered later

Chat Mode - Ask Anything About Incidents and Platform Data

- Chat Mode is built for open-ended questions rather than data entry - asking about an incident, a CAPA's status, or any other information already logged in the platform, in plain everyday language
- Answers are grounded in the platform's own live data - incidents, CAPA, HIRA, compliance, and every other connected module - so a question gets today's actual status back, not a generic response
- Removes the need to open a dashboard, apply filters, and search a table just to get one answer - the same question can simply be typed or spoken directly into the chat

Voice Assistant End to End

- A microphone control sits directly in the message bar in both Agent Mode and Chat Mode, so speaking is available as a first-class alternative to typing at every step, not just as a one-off dictation feature

- Voice replies read the assistant's answer back out loud, so a hands-busy worker on the floor can get an answer without looking at or touching a screen
- A record can be created entirely by speaking - the assistant listens to natural, spoken sentences, extracts the individual field values from what was said, and confirms them back before saving, so a worker with little formal education or limited typing comfort can still log a complete report just by talking to it

AI-Powered PPE Compliance Detection (Real-Time Equipment Safety Tracker)

Camera-based monitoring that catches PPE violations automatically, without manual patrols.

Key Features:

- Works with a webcam or a connected hardware camera
- Automatically detects missing PPE in real time
- Captures photographic evidence of every violation
- Logs each violation through a submit-for-verification workflow
- Reduces dependency on someone physically walking the floor to check compliance

Live Camera Feed & Person Detection

- A Device Camera and Site Camera toggle switches the feed between the local device's own camera and a connected on-site camera, so the same tracker covers both an ad-hoc spot check and a fixed installation at a work zone
- Every person in frame is automatically boxed out with a live detection confidence score shown directly on the video (for example, 'Person 0.71'), so it's visible exactly who the system is evaluating and how confident it is in that detection
- Each detected person is tagged directly on the feed as Compliant or Non-Compliant the moment they're evaluated, with the specific missing item named on the tag itself (for example, 'Missing Helmet', 'Missing Vest') rather than a single pass/fail flag for the whole frame
- Live Surveillance and Compliance Check sit as two distinct actions above the feed - Live Surveillance keeps the camera monitoring continuously, while Compliance Check runs an on-demand scan of the current frame
- On-screen framing guidance (for example, 'Position within frame - Ensure full-body visibility') helps a worker stand correctly for a scan before it's captured, so a scan isn't rejected for an incomplete view

Safety Gear Checklist

- Five PPE categories are tracked individually, each tied to its own protective standard - Safety Helmet (head protection, IS 2925), Safety Glasses (eye protection, impact rated), Reflective Vest (Hi-vis, Class 2), Safety Gloves (cut-resistant, Level 3), and Safety Shoes (steel toe, IS 15298)
- Each item on the checklist carries its own live state - Awaiting Scan before a frame has been captured and evaluated, or Not Monitored where a category isn't currently covered by the connected camera - so it's always clear which PPE items are actually being verified versus simply listed
- A 'Ready to Scan' prompt confirms that detection runs on the SafeNod AI engine only once a frame is captured, keeping the checklist tied to the current live feed rather than showing a stale result

Audit Trail & Breach Logging

- Every scan is written to a running Audit Trail, timestamped down to the second, with the originating Device ID recorded per entry (for example, RaspberryPi_Demo_Unit_01), so a violation is always traceable back to the exact hardware unit that caught it
- Missing Gear is logged per person rather than per frame - for example, 'Person A missing Helmet', 'Person B missing Vest', 'Person C missing Helmet' - so a single frame with several non-compliant workers records each person's specific gap individually instead of one generic violation

- Status is marked BREACH the instant any required item is found missing, with a one-click View action opening the exact snapshot that triggered that entry as photographic evidence
- A live record counter (for example, '2,467 records') keeps the running total of logged scans visible at the top of the trail, with the feed itself marked Live so new breaches appear as they happen

Hardware & Deployment

- Runs on connected hardware camera units (for example, Raspberry Pi-based devices) mounted at site entry points or active work zones, in addition to a standard device camera for spot checks
- Coverage scales from an on-demand Compliance Check at a single point in time up to round-the-clock Live Surveillance, without changing tools or re-configuring the checklist in between

Heat Sensor Command Center

A real-time battery and equipment temperature tracking network - a physical heat sensor is connected at any location or asset, and its readings stream continuously into a live command center that raises an alert the moment a reading strays outside a safe range.

Live Device Monitoring

- Every connected sensor appears as its own device card the moment it comes online, showing the device name (for example, Sensor_Rack_01), its current temperature reading, and a Disconnect control
- A live 0 to 100 degree gradient scale with a position marker shows at a glance where the current reading sits on the safe-to-critical range, backed by a rolling mini trend line of the sensor's most recent readings
- Sensors Online, Normal, Warning, and Critical counts are shown together as a single status strip at the top of the command center, so the health of the entire sensor network is visible before opening a single device
- A live 'Updated' timestamp on both the command center header and on each individual device card confirms exactly how current the readings on screen are

Live Reading Feed

- Every reading is logged with its Time, Device, Location, Temperature, and Status, streaming continuously as a live feed rather than a periodic snapshot
- Location ties each reading to exactly where that sensor is physically installed, so a temperature spike can be traced straight back to the plant, rack, or piece of equipment it came from
- The feed is fully paginated (for example, '240 recent readings' across multiple pages), so the complete reading history stays available for review, not just the most recent entries

Threshold-Based Status & Alerting

- Every incoming reading is automatically evaluated against configurable Normal, Warning, and Critical thresholds the instant it's received, and colour-coded accordingly on both the device card and the live feed
- A reading that crosses into Warning or Critical raises an alert immediately, so a rising temperature trend is flagged while it's still developing, not discovered only after equipment has already failed or a safety incident has occurred
- Keeps battery packs, equipment racks, and any other heat-sensitive asset under continuous watch without requiring someone to manually check a gauge on site

One Console, Every Sensor

- A direct Back to Dashboard link keeps the heat sensor view connected to the broader safety dashboard, rather than functioning as an isolated tool
- Built to track multiple devices at once - each connected sensor gets its own card and its own place in the shared Live Reading Feed, so a growing sensor network scales within the same console instead of needing a separate view per device

Predictive Analytics

Forecasts risk before it becomes an incident, instead of only reporting after the fact.

Key Features:

- Forecasts trends over the next 3, 6, or 12 months
- Compares historical vs. predicted patterns side by side
- Breaks down forecasts by plant, category, or any custom field
- Helps safety teams prioritize where to act next
- Turns historical incident data into a forward-looking view, not just a record

Works Across Every Tracker

- Any module on the platform can be selected as the Tracker to forecast - for example CAPA, Incident Management, or HIRA - so the same forecasting engine runs on whichever tracker's data needs to be projected forward, not just one fixed report
- Metric / Field lets the specific field being forecast be chosen directly from that tracker (for example, Corrective Actions and Preventive Action), with Aggregation set alongside it (for example, Record Count), so the same tracker can be forecast a number of different ways
- Runs entirely on the tracker's own logged history, so a forecast is only ever as good as - and only ever available for - a tracker that already has past data recorded in the selected timeline

Forecast Configuration

- Historical Data (From) and Historical Data (To) set the exact window of past records the forecast is trained on, so the same tracker can be projected from its full history or from a narrower, more recent slice of it
- Prediction Methodology (for example, Time Series) selects the forecasting approach applied to the selected metric
- Prediction Range sets how far ahead the model projects - Next 3 Months by default, extendable up to the next 12 months - and Group By optionally splits the same forecast out by plant, category, or any other configured field instead of one combined total
- A single Re-generate action reruns the forecast immediately whenever the configuration is changed, so a new date range, metric, or grouping is reflected right away without leaving the screen

Forecast Results

- Results open with four headline numbers together - Total Historical, Avg / Month, Forecast Trend (shown as a percentage change, for example +374.7%), and Predicted Avg / Mo - giving the overall shape of the forecast before a single point on the chart is read
- Historical Values and Predicted Values are plotted on the same trend line - historical as a solid line, predicted as a dotted continuation - so past pattern and projected pattern are read as one continuous view rather than two separate charts
- Save to Summary pins a specific forecast result directly onto the Summary tab, so a forecast worth tracking over time doesn't have to be re-generated from scratch on every visit

Summary, Forecast & Logs Tabs

- Summary, Forecast, and Logs sit as three tabs on the same screen - Summary holds saved forecast results for quick reference, Forecast is the live configuration-and-chart workspace, and Logs keeps a running History of forecasts previously generated
- A History control alongside the tabs opens that log directly, so a previous forecast configuration or result can be revisited without rebuilding it from the Forecast Configuration panel again

ROI Calculator

Helps safety teams make the business case for a safety investment, backed by numbers.

ROI Calculator

Helps safety teams make the business case for a safety investment, backed by numbers. Calculates profit or loss from EHS initiatives by quantifying incident savings, productivity gains, fine avoidance and program cost - all in one place, with no separate spreadsheet required.

Input Sections - Four Configurable Blocks

- Incident Data - Incidents per year, Average incident cost (currency), and Expected reduction % so the model knows how many incidents and how much cost the program is expected to avoid
- Productivity Impact - Workers affected per incident, Lost workdays per incident, and Daily wage per worker, converting lost time directly into a monetary productivity gain
- Compliance & Fines - Regulatory fines per year and Average fine amount, so avoided penalties are included in the benefit side of the equation
- Safety Program Investment - Annual program cost entered as a single figure representing the total outlay being evaluated

Calculation Engine & Controls

- Calculate ROI button runs the full model the moment inputs are ready; Reset clears every field back to blank for a fresh scenario
- Calculation complete status appears with a green confirmation once the run finishes
- Option to pull values From your tracker data so real platform numbers can seed the model instead of manual estimates
- Add Entry lets additional custom cost or benefit lines be introduced when the standard four blocks are not sufficient

Headline Result Banner

- Large colour-coded result shows Return on Investment as a percentage (for example +12,194,124.2%) so the scale of the return is immediately visible
- Net Benefit displayed in currency (for example Rs.67.7 Cr) together with the arithmetic Total Benefit - Program Cost
- Green positive banner for a profitable scenario; the same layout supports loss scenarios when the program cost exceeds benefits

Benefit Breakdown Cards

- Incident Savings - monetary value of incidents avoided, shown with its share of total benefit (for example 2%)
- Productivity - value of lost workdays recovered, with percentage of total
- Fine Avoidance - regulatory penalties no longer incurred, often the largest single component
- Total Benefit - sum of the three benefit streams, always 100% of the benefit side

Cost-Benefit Breakdown Bars

- Horizontal bar visualisation for Incident Savings, Productivity Gain, Fine Avoidance and Program Cost
- Each bar scaled relative to the largest value so relative magnitude is readable at a glance
- Currency amounts shown at the end of every bar (for example Rs.1.3 L, Rs.1.1 Cr, Rs.66.6 Cr, Rs.5.6 K)

Monthly Breakdown Table

- Month-by-month rows with columns for Incidents, Direct Cost, Lost Days and Benefit
- Supports both historical months (where real costs and benefits were realised) and future projection months
- Allows leadership to see not only the annual total but how the cash-flow profile unfolds over time
- Saves calculation history for future reference so past scenarios and the reasoning behind them remain available when justifying budget requests

Role-Based Access Control (RBAC)

Ensures the right people see and act on the right data, nothing more. A centralized Roles & Access console manages every user, role assignment, plant scope and invitation from a single screen.

Roles & Access Dashboard

• Summary cards at the top show Total Users, Active users, Pending Invites, and number of Roles defined in the system
• Search by name or email filters the member list instantly
• All Roles and All Status dropdown filters let administrators narrow the view to a specific role or to Active / Inactive accounts only
• Bulk Import button supports uploading multiple users at once; Invite User opens the invitation flow

User Directory Table

• Each row shows avatar initials, full name, email address, current Role (editable dropdown), Plant assignment, Status (Active / Inactive), and action icons for edit and delete
• Role dropdown allows an administrator to change a user's role (Administrator, Employee, Safety Officer, Department Head, etc.) without leaving the list
• Plant column scopes the user to a specific site or leaves it as N/A for organisation-wide roles
• Status indicator is colour-coded (green Active, grey Inactive) so suspended accounts are visible at a glance

Invite User Flow

• Invite User opens a form that accepts an email address and a role selection
• The invitation is sent by email; the recipient receives a secure link to join the platform with the assigned role already applied
• Pending Invites counter on the dashboard increments until the invite is accepted or expires
• Once accepted, the new user appears in the directory as Active with the chosen role and any plant scope that was set

Permission-Level Control & Audit

• Permission-level control over who can view, edit, approve or delete data in every module
• Sensitive actions such as approving an AI-consolidated root cause or setting Plant Applicability are restricted to specific roles (Admin, Safety Officer)
• Every access change - role assignment, status change, invitation - is logged automatically
• Full audit trail of who did what and when, reducing the risk of accidental or unauthorized changes to sensitive records
• Role definitions themselves are configurable so organisations can map platform permissions onto their own job titles

Plant Map

A geographic view of safety performance, instead of a table of numbers. Interactive map shows every industrial plant as a live pin so leadership can see open incidents, CAPAs and deployments across the entire footprint at a glance.

Interactive World Map

- Full geographic map with pan and zoom controls; drag to pan, scroll to zoom
- LIVE indicator and total plant count displayed in the top-left corner (for example LIVE - 7 PLANTS)
- Each plant is marked with a red pin at its exact geographic location
- Legend identifies the pin type as Industrial plant
- Map covers all regions where the organisation operates - Europe, Africa, Middle East, South Asia, East Asia and beyond

Plant Popup - Open Incidents at a Glance

- Clicking any pin opens a popup card titled with the plant name (for example Plant 2)
- OPEN INCIDENTS section lists live counts broken down by module
- Incident Management System - number of open incidents (shown in red)
- Corrective and Preventive Action - number of open CAPAs (shown in red)
- Horizontal Deployment - number of open deployment items (shown in red)
- Counts are colour-coded so elevated open volumes stand out immediately
- Popup can be closed with a single click; map remains interactive underneath

Leadership & Multi-Site Use

- Gives leadership an at-a-glance view across every site without opening individual module dashboards
- Useful for organisations managing multiple plants or regions - one map replaces dozens of plant-filter combinations
- Complements the dashboard's plant-wise filtering; the map is the geographic entry point, the dashboards are the detailed drill-down
- Live status means the numbers on the map reflect the same real-time data the rest of the platform is using - no separate sync or export required
- Supports rapid prioritisation: sites with the highest open-incident counts become the natural focus for the next review or visit

ESG Reporting Module - ESG Data Tracker

Extends SafeNod beyond safety into sustainability reporting in the same platform. Track, submit and approve Environmental, Social & Governance data points across every site - with category KPIs, approval workflows, bulk upload and automatic GHG calculations.

Category KPI Cards

- Headline cards for Renewable Energy, Water, Energy, Safety Governance (and other categories)
- Each card shows the current period total with unit (for example 56,700 kWh, 804 KL, 131 kWh, 5 person)
- Period-over-period change indicator (for example up 100% vs last month, down 1.5% vs last month)
- Colour-coded change so rising or falling metrics are visible without opening a single record

Category Sidebar & Filters

- Category list with live record counts (Energy, Water, Social, Waste, Renewable Energy, Energy - Stationary Combustion, etc.)
- Search category to jump to a specific sustainability domain
- Period filter - Month and Year selectors (for example July 2026)
- Location filter with search and + Add; multi-site list (Central Office, Mumbai Factory, Hosur Manufacturing Plant, etc.)

Data Grid - Tasks View

- Columns: Status, Category, Location, Period, Data Point, Value, Unit, GHG (tCO2e), Submitted By, Date, Actions
- Status colour-coded (Approved in green) so pending vs closed entries are obvious
- Tabs: TASKS (grid), TREND (charts), BULK UPLOAD, LOGS
- Download Template and + Add Entry actions on the toolbar
- Footer shows record count and pending-approval summary (for example 3 record(s) - 0 pending approval)

Add Energy Record - Data Entry Form

- Category and Location dropdowns (for example Energy, Central Office)
- Month and Year selectors for the reporting period
- Data Point / Metric dropdown and Value field
- Unit (for example kWh, KL, Tonnes) and GHG Emissions (tCO2e) - auto-calculated or entered manually
- Document Reference / ID, Data Source Type, and optional Notes / Remarks
- Save as Draft or Save & Submit - draft stays editable; submit enters the approval workflow

Approval, Bulk Upload & Governance

- Approval workflow for data governance - records move from draft to pending to approved
- Bulk Excel upload for large datasets via Download Template + Bulk Upload tab
- LOGS tab retains a full history of submissions, edits and approvals
- KPI view by category and location keeps EHS and ESG reporting in one place

Safety Committee

Builds safety culture, not just compliance. Manage your plant's safety committee members and assign committee roles so ownership of meetings, drills and escalations is always clear.

Committee Members Directory

- Header: Safety Committee - Members - manage your plant's safety committee
- Live member count (for example Committee Members 6)
- Search members filters the list by name or email instantly
- Table columns: Name / Email, Designation, Department, Committee Role, Phone

Member Profile Fields

- Avatar initials with colour coding for quick visual identification
- Full name and email address as primary identity
- Designation (for example Administrator) and Department (for example EHS)
- Committee Role badge - MEMBER, MANAGER, EHS MANAGER - clearly distinguished
- Phone number for direct contact during drills or incidents

Role Assignment & Management

- Assign and change committee roles (Member, Manager, EHS Manager) per plant
- Roles determine who can chair meetings, approve findings, or escalate issues
- Supports multi-plant committees - each plant maintains its own member list
- Add or remove members without leaving the committee view

Daily Safety Banner & Safety Pledge

Keeps safety visible every day. A rotating daily safety banner shows the current theme poster, while the Safety Pledge lets every employee formally commit to safe behaviour - both configurable from Admin Settings.

Daily Safety Banner

- Displays today's safety poster / banner on the home or dashboard view
- Supports multiple themed posters (for example Fire Safety, Environment Health & Safety, Zero Harm, Health & Safety)
- Posters rotate or can be scheduled by date so the message stays current
- View today's poster link opens the full-size banner for sharing or printing
- Visual, shop-floor friendly format so the message reaches workers who may not open a module

Safety Pledge

- Employees take a formal safety pledge digitally from the platform
- Pledge text is shown clearly (for example: I will follow all safety rules, regulations and procedures; I will ensure my workplace is safe for me and my team; I will keep safety as my highest priority and prevent accidents and injuries)
- Taken today indicator confirms the employee has completed the pledge for the current day
- Available in English, Hindi and Tamil for wider shop-floor accessibility
- Pledge acknowledgements are recorded against the employee profile for audit and culture tracking

Admin Settings - Editable Pledge & Banner

- Pledge text is fully editable from Admin Settings - administrators can customise the wording to match company policy or local regulations
- Multiple pledge versions can be maintained (for example by plant, language or role)
- Banner / poster images are uploadable and schedulable from Admin Settings
- Admin can set which banner is active for a given date range and which pledge text is shown to each user group
- Changes take effect immediately so the shop-floor message stays under central control without a code release

Multi-View Explorer (Summary, List, Board & Timeline)

Every one of the 19 EHS modules is readable and workable through the same four interchangeable views - Summary, List, Board, and Timeline - so the same underlying records can be analyzed, scanned as a data grid, tracked as a workflow, or scheduled as a calendar, without switching to a different tool or re-entering data in another format.

Shared Toolbar Across Every View

- Ask AI, Search, More Filters, Import, and Dashboard sit on the same toolbar no matter which view is open
- More Filters and search apply across the whole module's dataset, so a filter set in one view stays in effect when switching to another
- A direct Dashboard shortcut opens the module's own analytics from any view

Summary View - At a Glance Analytics

- Status Trend plots Open, In Progress, Close, and Closed counts over time
- Severity Distribution and Location/Site Breakdown by risk level and plant
- Work by Assignee and Top Contributors rank open and closed workload
- Recent Activity lists latest records with ID, plant and live status

List View - The Full Data Grid

- Every configured field as its own sortable, filterable column
- Column-header filters without leaving the List view
- Pagination with total record count and page-number navigation
- Every row's ID is a live link into the full record detail

Board View - Kanban by Status

- Swimlane columns by status with live counts
- Cards surface key fields, due-date chip and one-click Open
- Workflow-style view of where every record stands

Timeline View - Schedule & Gantt

- Records plotted as bars against a calendar with Week/Month/Quarter/Today controls
- Bar colour reflects live status; percentage-complete on the bar
- Spot overdue items, upcoming due dates, and workload distribution