

Ultimo
an IFS company

Simplifying HSE Management in Asset-Intensive Environments

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Introduction

Health, Safety, and Environment management is a core responsibility for every asset-intensive organization.

Wherever people work with equipment, infrastructure, or production processes, risks must be understood and controlled. HSE is not a standalone activity. It is part of everyday work: maintenance, operations, planning, contractor coordination, compliance, and asset performance. That makes it important, but also complex.

Work may be planned in one system, permits managed in another, risk assessments stored in documents, and incident follow-up tracked through email or spreadsheets. When information is fragmented, teams spend too much time checking, searching, and coordinating. More importantly, critical steps can be missed.

Ultimo helps organizations simplify this challenge by embedding HSE processes into Enterprise Asset Management. Instead of treating safety as a separate administrative layer around maintenance and operations, Ultimo connects HSE to the way work is requested, planned, approved, executed, reviewed, and improved. This gives teams one platform for managing assets, work orders, permits, risk analyses, Lockout Tagout, incidents, Management of Change, and corrective actions.

Why HSE and EAM belong together

In industrial environments, many HSE risks are directly related to physical assets and the work performed on them. An installation may require maintenance. A line may need to be modified. A confined space may need to be entered. An energy source may need to be isolated. A near miss may reveal a recurring issue with a specific asset, work method, or handover process.

When HSE information is managed separately from asset data, organizations lose valuable context. A safety officer may not immediately see the maintenance history of an asset. A technician may not have access to the latest risk assessment. A supervisor may struggle to verify whether a permit is complete. A manager may not know whether corrective actions from previous incidents have been implemented.

By connecting HSE to EAM, Ultimo brings this context together. Assets, work orders, work permits, LOTO procedures, incidents, corrective actions, and change requests can be managed in one environment. This improves collaboration and supports better control of risk, downtime, compliance, and cost.



From procedures to practical control

Most organizations already have HSE procedures in place. The real challenge is ensuring that those procedures are followed consistently, by every team, in every relevant situation. Paper forms, disconnected systems, and informal handovers make this difficult because they rely heavily on memory, manual coordination, and individual interpretation.

Ultimo supports a more reliable way of working by guiding users through structured workflows. Required steps can be built into the process, responsibilities can be assigned, and approvals can be captured digitally. This helps ensure that work does not move forward until the necessary checks and safety measures have been completed.

This is especially valuable in maintenance, where risk can change depending on the asset, task, timing, location, and people involved. A routine job can become high risk when it involves hazardous energy, work at height, confined spaces, contractors, simultaneous operations, or unfamiliar conditions. By linking work orders to HSE processes, Ultimo helps teams assess and control those risks before work starts.





Work permits, TRA, and LOTO

Work permits are central to safe work execution. They define what work will be performed, where it will take place, which risks are involved, which safety measures are required, and who is responsible for approval and execution. In Ultimo, permits can be integrated with work orders, connecting technical activity to the HSE conditions required before work begins.

Task Risk Analysis adds another layer of control. It helps teams identify the specific risks of an activity in advance and define the measures required to perform the work safely. When high-risk activities recur, a structured TRA approach improves consistency and saves time. Teams do not have to start from scratch every time; they can build on proven assessments while still checking whether conditions have changed.

Lockout Tagout helps prevent unexpected startup or the release of hazardous energy during maintenance. By defining and executing isolation procedures digitally, organizations improve visibility and control. Workers can see active isolations, supervisors can verify completed steps, and teams can reduce dependence on informal communication. This is particularly important when multiple teams, shifts, or contractors are involved.

Management of Change

Change is necessary in every asset-intensive organization. Equipment is replaced, processes are improved, systems are upgraded, and working methods evolve. But every change can introduce new risks if it is not assessed and controlled properly.

Management of Change helps organizations evaluate proposed modifications before they are implemented. It supports a structured approach to assessing HSE and operational impacts, defining actions, assigning responsibilities, and validating completion. In Ultimo, change processes can be connected to work orders and project management flows, so modifications are not handled informally or outside operational control.

A strong MoC process helps teams think ahead



What could go wrong?



Who must be involved?



What documents must be updated?



How will the result be verified?





Incident management and learning

Even with strong preventive measures, incidents and near misses can still occur. What matters is how quickly and effectively an organization learns from them. Incident management should not stop at registration. It should help teams understand what happened, why it happened, what needs to change, and whether those actions were effective.

Ultimo supports structured reporting, processing, investigation, and evaluation of HSE incidents and near misses. Because incident data can be linked to assets, work orders, and operational remarks, teams gain better context for analysis. Immediate measures can be recorded, investigations can be assigned, corrective actions can be tracked, and residual risks can be evaluated.

This turns incident management into practical improvement. It helps organizations identify patterns, address root causes, and reduce recurrence. It also improves accountability, because actions are no longer hidden in emails or separate documents. They become part of a controlled workflow that can be followed through to completion.

HSE Incident Measure Assistant (embedded AI feature)

One of the most common challenges in incident management is translating findings into effective corrective actions. Actions may be too vague, too broad, difficult to measure, or unrealistic to implement. For example, actions such as “improve awareness” or “work more carefully” may sound useful, but they are hard to assign, track, and verify. When follow-up is weak, the likelihood of recurrence increases.

Ultimo’s HSE Incident Measure Assistant addresses this challenge with embedded AI. Based on the context of the incident, the assistant helps suggest clear, practical, and feasible measures. It supports teams in defining actions that are specific, measurable, and aligned with how work is actually performed.

This does not replace the judgment of safety, maintenance, or operations teams. Instead, it helps them move faster and improve the quality of their follow-up. By turning incident insights into better-defined actions, organizations can close the gap between investigation and improvement.

“

Ultimo’s AI suggests our HSE actions. Reliable, smart, and to date not a single measure has missed the mark. I’m very impressed.”

Piet Gabriël

Group Maintenance Engineer

Agristo
we love potatoes





A single platform for safer collaboration

HSE performance depends on collaboration. Safety professionals, technicians, operators, contractors, engineers, and managers all play a role. Each group needs information from the others, and each group creates data that can help improve safety and performance.

Ultimo brings these processes together on one platform. Work permits can be connected to work orders. Risk assessments can be linked to tasks. LOTO procedures can support maintenance activities. Incidents can trigger corrective work. Changes can be managed through structured workflows. This connects what happened, what must be done, who is responsible, and whether the action has been completed.

The benefit is not only better administration. It is better operational control. Teams spend less time reconciling tools and more time managing the work itself. Managers gain a clearer overview. Audits become easier to support. Compliance can be demonstrated more confidently. Most importantly, people are better equipped to work safely.

From compliance to continuous improvement

Compliance will always be an important driver for HSE management. Organizations must demonstrate that procedures exist, are followed, and are documented. But HSE management should go beyond compliance. It should help organizations improve.

An integrated HSE and EAM approach turns daily operational data into a source of learning. Incident trends can reveal recurring asset issues. Repeated permit conditions can highlight opportunities to reduce risk by design. LOTO procedures can show where isolation complexity should be simplified. Management of Change records can help evaluate whether modifications delivered the expected results.

For asset-intensive organizations, safe and reliable operations depend on clear processes, reliable information, and strong collaboration. Ultimo's HSE Suite helps create that foundation by integrating critical HSE processes with Enterprise Asset Management. With embedded AI capabilities such as the HSE Incident Measure Assistant, teams can also turn incident information into more practical, measurable actions. The result is a smarter, safer, and more sustainable way to manage work.

The impact is real

Vesta Terminals achieved



Kisuma Chemicals reduced downtime by

40%

Recticel reduced the number of systems

30 → 1



More information

For more information on the possibilities and advantages of integrating HSE in your Ultimo EAM system, please contact your account manager or visit: ultimo.com/hse

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