



# ENVIRX® by XGRC® Software

Environmental Intelligence Engine for the ESG (Environmental, Social and Governance) Era

**SYNERGY IN ASSURANCE. STRENGTH IN COMPLIANCE®**



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# Summary

In an age where climate volatility, global regulations, and reputational risk intersect, ENVIRX® emerges as more than just an environmental monitoring tool, it is your intelligence engine for ESG and operational sustainability, it's your intelligence engine for ESG and operational sustainability.

**ENVIRX®**, fully integrated within the **XGRC® ecosystem**, consolidates real-time data from across the business to give you a single source of environmental truth. Whether you're managing Scope 1-3 emissions, responding to sensor-triggered alerts, or aligning with GRI, CDP, or TCFD, ENVIRX® empowers your teams to turn data into decisions.

Powered by **M.A.I.A. (Master Artificial Intelligence Archetype)**, ENVIRX® delivers proactive insight, predictive capability, and human-centric automation that transforms compliance obligations into strategic opportunity.



*Integrated*

# Data Intelligence

ENVIRX® is engineered to capture, harmonise, and act upon environmental data from all corners of your operation:

## Multi-Source Data Collection

- **IoT Devices** – Continuous feeds from emissions monitors, temperature sensors, noise meters, and surface scanners.
- **Third-Party APIs** – Integrate SCADA systems, utility providers, weather feeds, and environmental labs.
- **Mobile & Manual Entry** – Frontline capture via responsive forms and checklists.
- **Bulk Uploads** – Rapid ingestion of legacy or structured data via Excel or CSV with cleansing logic.

## Environmental Monitoring Capabilities

- Scope 1, 2 & 3 emissions accounting
- Energy, fuel, water and waste tracking
- Air, effluent and noise pollution analysis
- Cold-chain integrity with live alarms
- Surface changes through GIS overlays
- Biodiversity & chemical impact metrics
- ...and other key environmental indicators tailored to your operation

*AI-generated*

# CAPAs

M.A.I.A. brings AI-driven precision into every layer of ENVIRX®:

**AI Analytics** – Gain instant clarity from volumes of data using advanced AI models **ChatGPT-powered NLP** (ChatGPT NLP, computer vision via TensorFlow, and automation).

**Predictive Insights** – Identify emerging patterns and anticipate non-compliance before it materialises.

**Real-Time Monitoring** – Detect, alert, and respond to anomalies before they escalate into incidents.

**DAVE & LUCI Assistants** – Contextual AI personas embedded within ENVIRX®, assisting users with guided workflows, decision support, and contextual recommendations across governance, assurance, and environmental operations.

**NLP Features** – Summarise complex reports, suggest CAPAs, provide smart guidance, and tag key compliance terms.

## Fully Configurable, Natively XGRC®

Every component of ENVIRX® is designed to flex around your operations:

Component	Customisation Options
Aspects & Quantum's	Define environmental metrics (e.g. CO2e, dB, ppm)
Monitoring Rules	Apply formulas, baselines, and site-specific logic
Thresholds & KPIs	Set targets by unit, geography, or operational hierarchy
Categorisation	Segment by BU, asset type, region, process, or ESG pillar
Dashboards & Reports	Role-specific for operations, compliance, ESG, audit or executive leadership

## Strategic ESG & Governance

# Framework Alignment

ENVIRX® is engineered not only for environmental monitoring and sustainability management, but also for aligning with your organisation's broader governance, risk, and compliance objectives. It supports a wide array of international standards and frameworks, ensuring that your ESG and operational strategies are integrated, auditable, and future-ready.

Whether you're reporting to investors, responding to regulatory requirements, or aligning with corporate objectives, ENVIRX provides the tools and structure to ensure your environmental intelligence contributes meaningfully to enterprise-wide performance.



Framework / Standard	Customisation Options
<b>GRI, SASB, CDP, TCFD</b>	ESG disclosures, climate risk reporting, investor-grade sustainability transparency
<b>ISO 14001 &amp; 45001</b>	Environmental and Occupational Health & Safety compliance and certification
<b>ISO 31000</b>	Enterprise risk integration; aligning environmental risks with corporate risk strategy
<b>ISO 9001</b>	Quality management system alignment; supporting environmental aspects of quality
<b>ISO 27001</b>	Information security compliance for environmental data governance
<b>ISO 22301</b>	Business continuity planning linked to environmental disruption scenarios
<b>COSO ERM Framework</b>	Embedding environmental performance into broader risk appetite and internal controls
<b>&lt;IR&gt; (Integrated Reporting)</b>	Multi-capital disclosure, linking natural, human, manufactured, intellectual, social, and financial capital for long-term value creation
<b>UN SDGs &amp; Circular Economy</b>	Sustainable development alignment and material flows management

ENVIRX®, as part of the XGRC® platform, ensures seamless mapping of operational data to these standards. Whether you're preparing a TCFD-aligned climate risk analysis, maintaining ISO 14001 certification, or embedding ESG risks into your enterprise risk register (ISO 31000 / COSO), ENVIRX enables a unified approach.

With **M.A.I.A.** supporting smart tagging, automated compliance crosswalks, and dashboard-ready KPIs, you can deliver assurance not only for today's standards but also for the evolving frameworks of tomorrow.





## Power BI-Driven Analytics & Decision Support

ENVIRX® provides powerful analytics and reporting flexibility by integrating directly with your organisation's own Power BI environment through the secure XGRC® Power BI Connector. This enables business units, compliance teams, and executives to align environmental insights with financial and operational intelligence. Rather than locking data into a proprietary system, XGRC® ensures customers maintain full ownership and control of how environmental insights are visualised, reported, and distributed across the business.

Once connected, your live ENVIRX® data feeds directly into your **existing Power BI landscape**, enabling seamless integration with your broader business intelligence strategy. ESG and environmental reporting becomes part of your enterprise's analytics ecosystem, centralised, secure, and fully customisable.

With ENVIRX® and the

## Power BI Connector, you can:

-  Create **Custom KPI Roll-ups** across business units, sites, projects, or regulatory categories.
-  Build **Risk Radar Overlays** that combine operational and environmental data for strategic risk insights.
-  Visualise trends through **Performance Heat Maps** that highlight outliers and anomalies in real time.
-  Design **Drill-Down Dashboards** for executives, ESG teams, auditors, or board committees tailored to your reporting cadence and audience.

“With ENVIRX® and Power BI, we moved from monthly reports to real-time risk-adjusted ESG performance across six countries.”

— **ESG Manager, Global Manufacturer**

This flexible architecture allows for automated report generation, real-time data refreshes, and alignment with your internal BI governance protocols. Whether you're reporting to regulators, benchmarking internal performance, or publishing ESG dashboards for stakeholders, **you stay in control of the narrative, ENVIRX® delivers the data and Power BI delivers the story.**



## Assurance Auditability, & Governance

In a world where accountability, traceability, and verification are non-negotiable, ENVIRX® ensures your organisation not only meets compliance obligations, but can prove it, demonstrate it, and continuously improve it.

Built for complex, regulated environments, ENVIRX® captures, documents, and links every data point, action, and outcome into a single, intelligent assurance layer powered by the **XGRC® Integrated Assurance** framework.

### ENVIRX® enables operational transparency and audit-readiness through:



#### Digitally Immutable Audit Trails

All environmental records are time-stamped, versioned, and attributable, ensuring historical accuracy, traceability, and legal defensibility.



#### CAPA Workflows (Corrective & Preventive Actions)

Events such as threshold breaches or incidents automatically trigger CAPA workflows that are assigned, tracked, and escalated ensuring accountability through to closure.



#### Regulatory and Permit Compliance Mapping

Configure site-specific permits and legal requirements directly into ENVIRX®. Real-time performance tracking ensures you're not only aware of deviations, you're ahead of them.



#### Evidence Repositories

Attach permits, lab reports, inspection records, audit documents, and photographic evidence to any record making internal or third-party audits seamless.



#### Auto-generated

ENVIRX® compiles environmental performance data into audit-ready, stakeholder-facing reports aligned with international standards and your reporting cadence.

## *Integrated Assurance with*

# Enterprise Alignment

ENVIRX® does not operate in isolation. It's backed by **XGRC®'s Integrated Assurance module**, which brings together:

- **Lines of Defence** – Enabling alignment between operational teams, compliance, internal audit, and **external assurance providers**.
- **Combined Assurance Control Registers** – Centralising and visualising control ownership, performance, and audit status.
- **Tailored Control Assessments** – Evaluating the effectiveness and coverage of environmental controls across all sites and systems.
- **Internal Audit Assurance** – Providing full lifecycle visibility for audits related to environmental management and sustainability compliance.

This integrated approach strengthens governance by embedding environmental performance directly into the broader GRC framework. Whether it's validating ESG disclosures, defending a sustainability claim, or responding to regulatory change, you'll have **every detail, every control, and every audit trail at your fingertips**.

**ENVIRX® ensures compliance is not just a checkbox it's a demonstrable strength.**

## *Real-World Applications*

# Across Industries

**ENVIRX® is not constrained by industry.** It's an environmental intelligence platform that adapts to your specific operational context, whether that's tracking carbon offsets in mining, monitoring irrigation runoff in agriculture, or benchmarking packaging sustainability in retail. Every metric is configurable. Every insight is actionable.

Built on a flexible architecture, ENVIRX® can model, manage, and visualise any environmental, ESG, or operational parameter. Whether the data comes from a satellite, a sensor, a spreadsheet, or a stakeholder ENVIRX® captures it, contextualises it, and puts it to work.

Industry	Environmental Intelligence in Action
Logistics & FMCG	Cold chain integrity, fuel efficiency, packaging lifecycle & emissions
Mining & Resources	Water licensing, air quality compliance, biodiversity offset tracking
Agriculture	Irrigation use, soil health metrics, chemical usage visibility
Retail	Scope 3 supply chain data, store energy benchmarking, refrigeration alerts
Energy & Utilities	Grid emissions tracking, environmental permitting, plant water reuse
Manufacturing	Material flow intelligence, waste reduction, ambient noise & emissions
Healthcare	Medical waste monitoring, air filtration analysis, water quality assurance
Construction	Dust and noise compliance, runoff containment, sustainability scoring
Financial Services	ESG asset exposure, carbon intensity per employee, green procurement insights
Tech & Data Centres	Energy usage (PUE), cooling efficiency, electronic waste tracking

### ENVIRX® doesn't just scale—it evolves.

It can be configured to measure any parameter your organisation values from CO2e per unit produced, to litres of water saved per innovation project. If your team can define it, ENVIRX® can model it.

At its core, ENVIRX® is a data engine powered by insight, intelligence, and integrity. It empowers your teams to answer the question:

**What do we want to know and what will we do about it?**



# Seamless Integration Across the XGRC® Platform

**ENVIRX® is not a standalone product, it's a connected engine within the full XGRC® Software stack.** From governance planning to internal audit and stakeholder assurance, every module in the platform is designed to share intelligence, standardise compliance, and drive performance across the enterprise.

By integrating environmental intelligence directly into your existing GRC processes, ENVIRX® ensures that sustainability isn't a silo, it's embedded in your strategy, your controls, and your reporting architecture.

## Leverage the power of connected assurance across the XGRC® suite:

### Governance & Strategic Objectives

Link environmental KPIs to enterprise strategy through modules like Strategy & Initiatives, Objectives & Targets, and Meeting Manager. ENVIRX® ensures sustainability metrics inform high-level planning, not just operational reporting.

### Policy, Document & Legal Compliance Management

ENVIRX® integrates seamlessly with Permit Registers, Legal Obligations, and Document Control modules ensuring regulatory thresholds are not just tracked, but embedded into controlled, versioned policy frameworks.

### Enterprise, Operational & Bowtie Risk Modules (MSX)

Feed ENVIRX® data directly into ERM, Operational Risk, Bowtie Analysis, HACCP, and others to quantify environmental risk as part of your broader risk universe.

### Incident, Improvement & Change Management

Environmental exceedances or anomalies can automatically trigger Corrective Actions, Opportunities for Improvement (OFIs), Change Requests, or Incident Reports ensuring nothing falls through the cracks.

### Integrated Assurance & Audit (IA Module)

Support your lines of defence with traceable, auditable evidence. ENVIRX® data feeds directly into Control Registers, Audit Findings, Combined Assurance Reviews, and Internal Audit templates closing the loop between compliance, assurance, and execution.

### SHEQ, Cyber & Asset Management Synergy

ENVIRX® complements other key domains, like SHEQX® (Safety, Health, Environment & Quality), MSXCyber, and Asset & Equipment Management providing the environmental layer for incident reporting, cyber protection, and maintenance analysis.

### Stakeholder Management & Performance Tracking

Align ESG initiatives with Supplier Management, Community Engagement, Customer & Union Relations, and Shareholder Reporting. Then track outcomes using the Performance Management module linked directly to your environmental KPIs.

### ENVIRX® is more than a system—it's a synchronised part of a bigger compliance and assurance ecosystem.

By embedding environmental intelligence across the entire XGRC® platform, your organisation gains not just visibility, but control, accountability, and synergy ensuring every action aligns with enterprise risk, compliance, and sustainability goals

## Why Organisations

# Choose ENVIRX®

- Built for **enterprise scale and ESG complexity**
- Embedded in the **XGRC® GRC suite** for seamless governance
- Enhanced by **M.A.I.A.** for predictive, AI-powered insight
- Configurable to **any metric, format, or framework**
- Supports **real-time decision-making** via Power BI
- Proven to cut **ESG reporting cycles by 60%**
- Strengthens **audit, compliance, and performance transparency**

## Ready to Transform

# Environmental Intelligence?

Stop managing environmental data in silos. Start connecting it with strategy, operations, and compliance.

ENVIRX® by XGRC Software® is how world-class organisations **turn complexity into clarity**, and **risk into opportunity**.

Book a demo. Explore a case study. Begin your journey toward ESG leadership today.

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**ENVIRX® by XGRC® Software**

**Driving Compliance®, Sustainability, and Performance.**



Stage	Organisational Focus	Key Challenges	ENVIRX® Support Features
1. Reactive	Compliance-driven, manual reporting	Disconnected data, audit fatigue, non-compliance risk	<ul style="list-style-type: none"> <li>Manual data capture</li> <li>Permit tracking</li> <li>CAPA workflows</li> <li>Basic dashboards</li> </ul>
2. Managed	Basic environmental controls & ad hoc reporting	Inconsistent metrics, no real-time view, siloed systems	<ul style="list-style-type: none"> <li>IoT &amp; API integration</li> <li>Role-based dashboards</li> <li>Custom KPIs</li> <li>Real-time alerts</li> </ul>
3. Proactive	Integrated EHS processes & structured ESG tracking	Difficulty benchmarking, fragmented ESG strategy	<ul style="list-style-type: none"> <li>Scope 1–3 emissions tracking</li> <li>ESG framework mapping (GRI, CDP, etc.)</li> <li>Predictive insights</li> </ul>
4. Strategic	ESG integrated with enterprise risk & performance	Linking sustainability to business outcomes	<ul style="list-style-type: none"> <li>Power BI integration</li> <li>Risk radar overlays</li> <li>Cross-module linkage with GRC, Audit, Risk</li> </ul>
5. Transformational	ESG embedded in strategy, innovation, and culture	Continuous improvement, leadership in ESG reporting	<ul style="list-style-type: none"> <li>M.A.I.A. AI support</li> <li>ESG storytelling dashboards</li> <li>Smart compliance mapping</li> <li>Integrated assurance</li> </ul>