



**Advancing  
Operational Excellence™**

# ABOUT SPHERA

Sphera is the largest global provider

of Operational Excellence software and information services with a focus on Environmental Health & Safety (EH&S), Operational Risk and Product Stewardship.



Operational Risk



Environmental Performance



Product Stewardship

## Our Mission

To create a **safer, more sustainable and productive world** by advancing operational excellence.

## We Do This Through



Software  
**Innovation**

Proprietary  
**Information**



Expert-driven  
**Insight**



## The Results Are



**Safer**  
Employees



**Healthier**  
Communities



**More Sustainable**  
Products



**Profitable**  
Growth



**Stronger**  
Brands

# RA SOLUTIONS

## Proof Points



**15,000**  
REGULATORY  
PHRASES



**100**  
TEMPLATES FOR  
50+ COUNTRIES



**44**  
LANGUAGES



**250,000+**  
CHEMICAL  
SUBSTANCES



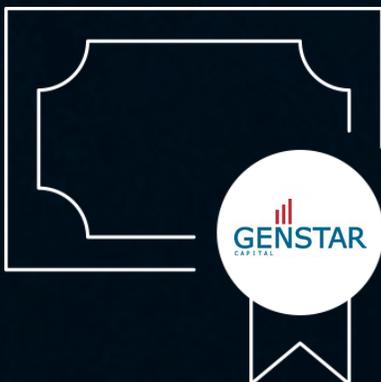
**7,500**  
PROPRIETARY  
RULES



**100+**  
U.S. MILITARY  
LOCATIONS

## Awards

Sphera has been **consistently recognized as an industry leader** by



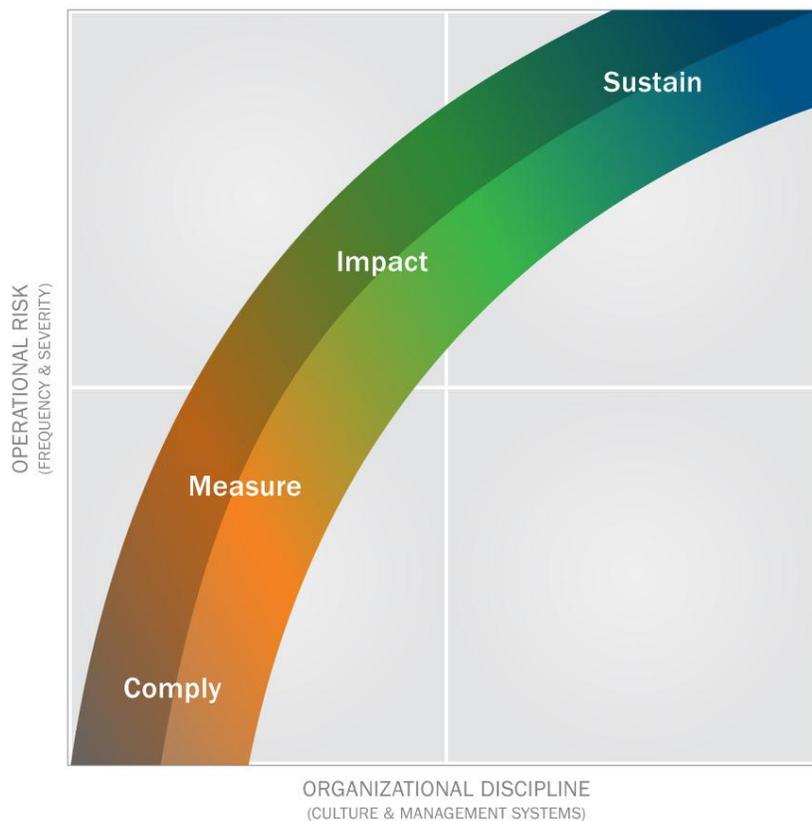
## Ownership

We are a portfolio company of Genstar Capital, a leading middle-market private equity firm focused on investments in targeted segments of the software, industrial technology, financial services and healthcare industries. We were formerly the Operational Excellence & Risk Management business (“OERM”) of business information provider IHS Markit (NASDAQ: INFO).

# OPERATIONAL

## Why Operational Excellence?

INSIGHT **ACCELERATES OPERATIONAL EXCELLENCE**  
ALONG THE MATURITY CURVE



Operational excellence requires management discipline and a culture that brings management systems to life. Organizations that lack the knowledge, systems and discipline have difficulty implementing enterprisewide processes. The result is inefficiency, unnecessary risks, and an inability to actively manage operational performance.

We have the empirically based maturity map that defines, informs and empowers the discipline to deliver sustainable improvements to products and business performance.

We have found the challenge for most firms is understanding where they are in this process, and how to begin transforming their organization to best accelerate—and realize—results. We know our software, information and industry expertise are the reasons customers trust us to help them drive improvement. This journey, however, can be both simplified and accelerated—and only Sphera is positioned to best help our customers accomplish this.

# EXCELLENCE

## **Innovation**

Emerging trends like the Internet of Things (IoT) provide high velocity sources of data on top of the existing myriad operational data elements to assess and monitor your risk environment. At Sphera, we leverage the latest technologies such as Cloud and Mobile to deliver this capability with the most impact.

## **Information**

The material volume and ever-changing variability of regulatory compliance rules and information presents a challenge to organizations of all sizes to manage this complexity.

Sphera is constantly building, organizing and maintaining the best single source of data that we deliver through our industry-leading software to give your organization the control to remain in compliance and stay incident-free.

## **Insights**

For over 30 years, Sphera has served many of the most complex organizations in the world. We've seen a lot across organizations at all stages of complexity from focusing on core compliance and safety to achieving continuous improvement through sophisticated management systems. Drawing from this experience, we have developed sophisticated models to assess the current state of your organization's capabilities.

Together, this approach enables us to guide you to your optimal next step. That is, to advance operational excellence for your unique situation.

---

## The Path to Operational Excellence

Operational excellence enables industry leaders to keep employees safe, products sustainable and operations productive—ultimately, to create sustainable value.

### **Today's Sustainable Organization**

- The sustainable organization of the 21st century must balance process and product throughout the value chain.
- Keeping employees and communities safe by using sustainable materials.
- Protecting employees throughout operations.
- Monitoring the emissions that come from the production process.
- Ensuring the quality of products and monitoring the raw materials used in their production.
- Understanding and monitoring the product's impact on the environment throughout its lifecycle.



# OUR



## Oil & Gas

Sphera has years of experience in setting up some of the world's leading Operational Excellence Management Systems—developing the appropriate workflows and templates to underpin your Operational Excellence elements and fostering the overarching objective of continuous improvement.



## Chemicals

Sphera helps ensure product compliance, manage operational risk and enhance environmental performance. Our customer base includes 70 percent of the ICIS Top 100 Chemical Companies and nine of the top ten largest.

**10 of 10** largest, including

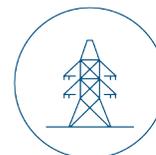


**9 of 10** largest, including



## Government

Our Hazardous Materials Management System (HMMS) provides a cohesive suite of modules that ensure compliance and improve productivity at every step of your organization's EHS Management process. Sphera's HMMS sustainable technology and EHS processes provide the most effective and complete solution to meet your organization's mission.



## Power & Utilities

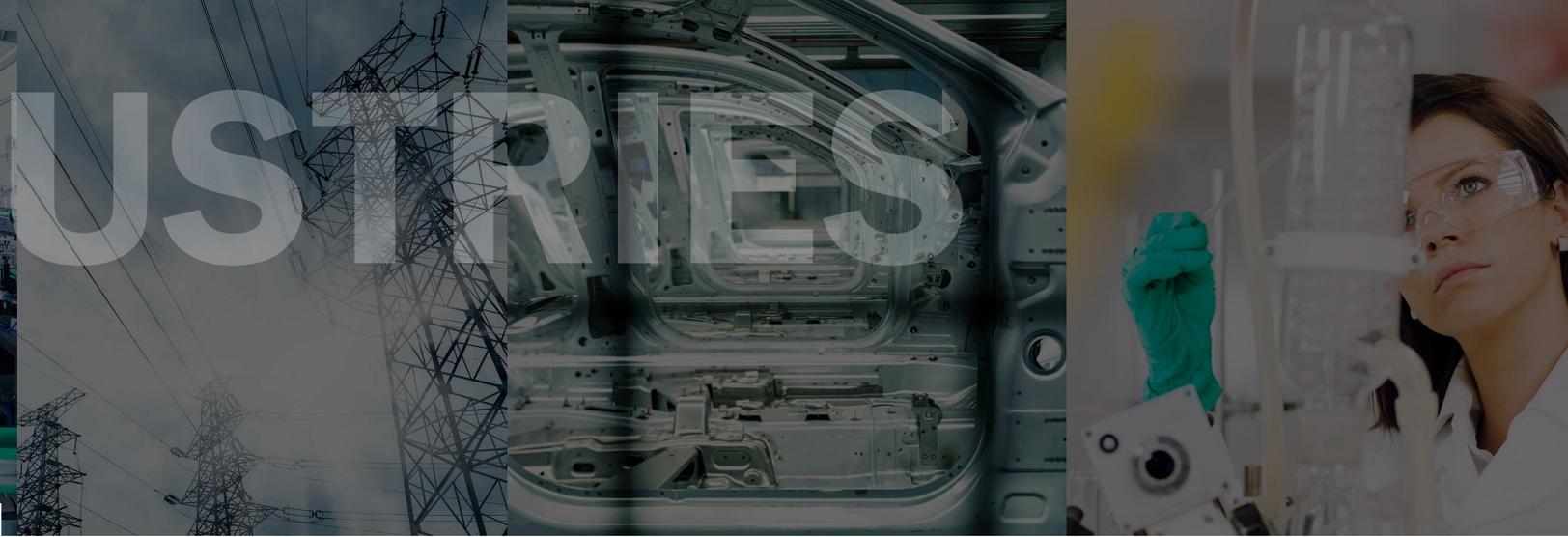
Sphera helps power and utilities industry leaders navigate government regulations and develop successful strategies for managing operational risk, safety events and environmental performance. Our solutions help organizations comply with regulatory mandates around the globe.

**100+** U.S. military locations



**9 of 10** largest, including





# US INDUSTRIES



## Life Sciences

Sphera solutions help companies strengthen and improve their quality risk processes. By enabling proactive risk assessment methodologies such as Failure Modes and Effects Analysis (FMEA), we can help you identify and then design out potential failures and avoid costly recalls.



## Natural Resources

Sphera helps decision-makers ensure compliance, mitigate operational risk and drive operational excellence. We provide technology and consulting that empowers organizations to identify, analyze, mitigate and monitor risks and hazards throughout their enterprise with the goal of zero harm.

**8 of 10** largest, including



**10 of 15** largest, including



## Manufacturing

Sphera provides technology and consulting that empowers manufacturing companies to identify, analyze, mitigate and monitor risks and hazards. For more than a decade, Sphera has provided software solutions that enable manufacturers to reduce operational complexities to lower costs and risks, and achieve operational excellence for EHS performance.



## CPG

Our solutions enable you to seamlessly manage your product compliance data and maintenance, repair and operations (MRO) materials data. We provide dynamic managed regulatory content that is monitored, consistently analyzed and updated by our team of experienced domain and industry experts.

**13 of 15** largest, including



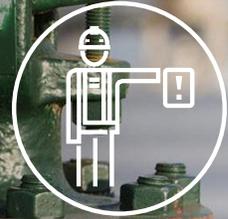
**4 of 5** largest, including



# OUR SOLUTION

## OPERATIONAL RISK

Assessing, mitigating and managing risk to optimize processes.



### Overview

Complying with safety, quality and environmental regulations and standards is increasingly important and has become more difficult as operations grow. Individual facilities are frequently using different methods and descriptions to define and assess risks, different models to score the severity and likelihood of risk, and a multitude of systems and methods to control operational risk. This creates isolated pockets of risk knowledge, and impedes the ability to accurately share best practices and lessons learned while effectively managing risk across the business.

Sphera enables you to standardize your process for identifying, analyzing, mitigating and monitoring operational risk. We help you to quickly and accurately understand your risk profile, ensuring better decisions and sustainable improvements.

### Comply & unify with Sphera

Our Operational Risk Solution provides a framework for managing risk that ensures you have an appropriate response to the inherent risks of your operations. We help you establish a unified operational risk strategy for your Risk Assessment, Incident Management and Management of Change business processes.

Your reputation is important, and creating a unified approach to operational risk secures your good standing with shareholders, clients and regulators. This solution makes certain that you comply with various industry regulations and standards, and provides the real-time reporting you need throughout your organization to ultimately improve your business performance.

### Core Capabilities



RISK ASSESSMENT



QUALITY RISK



INCIDENT  
MANAGEMENT



MANAGEMENT  
OF CHANGE



MAINTENANCE,  
REPAIR & OPERATIONS

### Sphera enables you to:

- Standardize risk assessments and ensure proper controls are in place and effective.
- Analyze work practice behaviors across the enterprise to extract actionable leading indicators that drive performance outcomes.
- Standardize risk management processes to enable performance benchmarking across business units, facilities and regions.
- Encourage behavioral change through enterprisewide tracking and measurement to minimize unplanned events.
- Control the impacts of change on staff & productivity.
- Share data and insights enterprisewide to increase risk visibility and encourage continuous improvement.

# SOLUTIONS

## CLoud SOLUTIONS

Complete Visibility & Control in EH&S Management

### Manage risk & be resilient

#### IDENTIFICATION & VISIBILITY

- Incidents, Near-Misses, Hazards
- Risk Assessments
- Audit, Inspection, Nonconformances
- KPI Monitoring
- Mobile offline & online

#### FOLLOW-UP, CONTROL & CLOSEOUT

- Corrective/Preventive Actions
- Closed-Loop Risk Management
- Permit to Work
- Contractor Management
- Automated Workflows and tasking

|  |   |
|--|---|
|  | <b>TOTAL VISIBILITY &amp; CONTROL</b><br>10 applications for complete risk visibility and control |
|  | <b>DESIGNED FOR THE USER</b><br>Easy access, easy navigation, high user adoption                  |
|  | <b>FAST DELIVERY &amp; VALUE</b><br>Lean configuration and out-of-the-box solutions               |
|  | <b>HIGH PERFORMANCE TECHNOLOGY</b><br>Scalable for fast big-data processing                       |
|  | <b>ONE CLOUD</b><br>Single code-line SaaS for high innovation                                     |

#### EDUCATION, MONITORING & IMPROVEMENT

- Training & Competency
- Policy & Documentation
- Chemical Inventory
- Management of Change

#### MEASUREMENT, UNDERSTANDING & LEARNING

- Analytics/Business Intelligence & Reporting
- Obligations Compliance
- Lessons Learned

### Enterprise EH&S Solutions in the Palm of your Hand



Offline capability for smartphones and tablets provides ease-of-use, drives socialization, enables better data capture and encourages end-user adoption...

...leading to consolidated analytics and powerful enterprisewide insights.



UNDERPINNED BY PERVASIVE MOBILE & ADVANCED ANALYTIC CAPABILITIES



Microsoft



## ENVIRONMENTAL PERFORMANCE

Managing emission, water and waste discharge data for compliance, risk mitigation and operational excellence.



### Overview

Sphera's award-winning Environmental Performance solution combines advanced software and world-class content along with deep domain and industry expertise to help organizations efficiently collect and aggregate emissions data and communicate results consistent with ISO 14001 standards.

### Benefits

Unlike most of today's environmental management products, Sphera's Environmental Performance solution manages the full spectrum of emissions, waste and water discharges within a single integrated solution. This unified approach streamlines data management, reduces the likelihood of errors, eliminates redundant data entry and transforms environmental management into an opportunity for competitive advantage.

### Core Capabilities



EMISSIONS MANAGEMENT



CHEMICAL INVENTORY MANAGEMENT



COMPLIANCE ASSURANCE



REFRIGERANT COMPLIANCE



CYBERREGS

#### Environmental Accounting and Regulatory Reporting

- Establishes an auditable system of record for air, water, and waste and chemical inventory with a centralized platform that makes critical environmental data accessible to anyone across an organization.

#### Streamline data, information and change management

- Streamlines data processes, provides access to all regulatory information, and tracks key sustainability indicators.

#### Open and scalable architecture

- Sphera's highly scalable, open-data infrastructure empowers enterprises in real time, transforming environmental data into actionable knowledge and business transformation.

Sphera's flexible software framework advances proactive executive decisions by aligning environmental performance with operational objectives to provide real-time visibility into progress against sustainability goals.

Sphera provides the **robust environmental information and insight** executives need to manage environmental performance information with the same rigor as financial performance information.

# SOLUTIONS

## PRODUCT STEWARDSHIP

Create safer, more sustainable products



### Overview

Regulations and standards such as GHS and REACH are complex and changing frequently. The escalating demands on legacy product compliance systems and processes can jeopardize your ability to ensure that your products can be sold, shipped and consumed in their intended markets. Ultimately, your ability to grow and innovate is compromised.

### Our solution helps you:

- Streamline Safety Data Sheet authoring and material management by automating the creation and production of SDSs, labels, workplace safety cards, transportation documents and more.
- Aggregate enterprisewide product and material information centrally to promote consistency and efficiency.
- Simplify and accelerate product rollout to new and existing markets by managing country-specific compliance requirement complexities.
- Manage your SDS and chemical information in a unified, searchable database.
- Enable collaborative decision-making between procurement, product design and regulatory teams by implementing compliance-based material review and approval workflows.
- Meet complex and ever-changing regulatory compliance obligations such as REACH and GHS.

### Comply, simplify, reduce risks

Our Product Stewardship solution helps you comply with today's regulations and standards as well as plan for and reduce risks due to pending regulatory changes. By centrally managing material and regulatory data, you can simplify workflows and lower costs while ensuring that you maintain and accelerate market access and lower risks associated with the handling and storage of chemicals on-site.

Sphera has an extensive history of leadership in serving the needs of the chemical market. Our customers have achieved impressive results leveraging our solutions such as automating the creation, translation and distribution of SDSs globally and moving ahead of schedule for full compliance with GHS deadlines.

### Core Capabilities



PRODUCT COMPLIANCE



CHEMICAL MANAGEMENT



REGULATORY CONTENT



SDS AUTHORING & CONSULTING



HAZARDOUS MATERIAL MANAGEMENT

# SERVICES &

## OUR SERVICES

Learn how our services can help you achieve operational excellence



### CONSULTING SERVICES



### CONTENT SERVICES



### IMPLEMENTATION



### TRAINING

New challenges demand expert insights

Only Sphera can deliver comprehensive business, domain and technology know-how as well as leading-edge enterprise software and rich information content—all from a single world-class provider.

Sphera's experts average 20-plus years of experience helping asset-intensive organizations optimize their management systems. Our consultants help organizations achieve operational excellence through innovation, information and insights.

Access to regulatory content has never been more critical

Regulatory obligations impact each area of your operations, and these regulations are becoming more sophisticated and changing more frequently. Not having access to critical regulatory content can lead to issues such as an inability to quickly support new market entries with your products, as well as fines and penalties or in the most extreme case losing your license to operate.

Sphera supports and maintains content in various forms, from all 50 CFRs to Chemical Inventory lists to GHS classification lists, in order to help you avoid compliance-related risks and maintain ongoing access to key markets.

Take advantage of our deep implementation experience

Software projects can be disruptive—oftentimes people are taken away from their day-to-day activities to become part of a project team and do not have the time and/or the expertise to ensure that the software is successfully deployed and institutionalized within their organization.

By using our team of experts, you can more quickly realize the value of your projects with lower overall risk and disruption to your business.

Let us help you with the skills and training you need

Companies that invest in training their employees succeed at higher rates. As you battle to hire top talent, you need high-quality, focused and thorough training courses to ensure that your employees are engaged, motivated and feel supported in their careers.

Our training offerings provide you with the skills and training you need, featuring scheduled and customized courses in the format that works best for you. Specialized content helps you develop deeper skills in Sphera technology and our experienced risk management professionals guide your employees to a higher level of expertise within their job roles.

# PARTNERS

## OUR PARTNERS

Sphera is investing to build the most successful alliance program in the software industry.

### EHS CONSULTANTS



### SYSTEM INTEGRATORS



### VALUE ADDED RESELLERS



# OUR

1 million  
**Individual Users**

2500+  
**Customers**



# REACH

70+  
**Countries**

550+  
**Colleagues**



## About Sphera

For more than 30 years, Sphera has been committed to creating a safer, more sustainable and productive world by advancing operational excellence. Sphera is the largest global provider of Operational Excellence software and information services with a focus on Environmental Health & Safety (EH&S), Operational Risk and Product Stewardship. The Chicago-based company serves more than 2,500 customers and over 1 million individual users across 70 countries. Sphera is a portfolio company of Genstar Capital, a leading middle-market private equity firm focused on the software, industrial technology, financial services and healthcare industries.

# CREATING A **SAFER,** MORE **SUSTAINABLE** AND **PRODUCTIVE** WORLD.



[www.sphasolutions.com](http://www.sphasolutions.com)

Follow Sphera on



©2017 Sphera. All Rights Reserved.



Prepared for:

**Vanguard**  
Risk & Safety Asia

p: +65 65140277; m: +65 9173 6052  
10 Anson Road, #16-10 International Plaza  
Singapore 079903  
e: [info@vanguardasia.com.sg](mailto:info@vanguardasia.com.sg)  
w: [vanguardasia.com.sg](http://vanguardasia.com.sg)