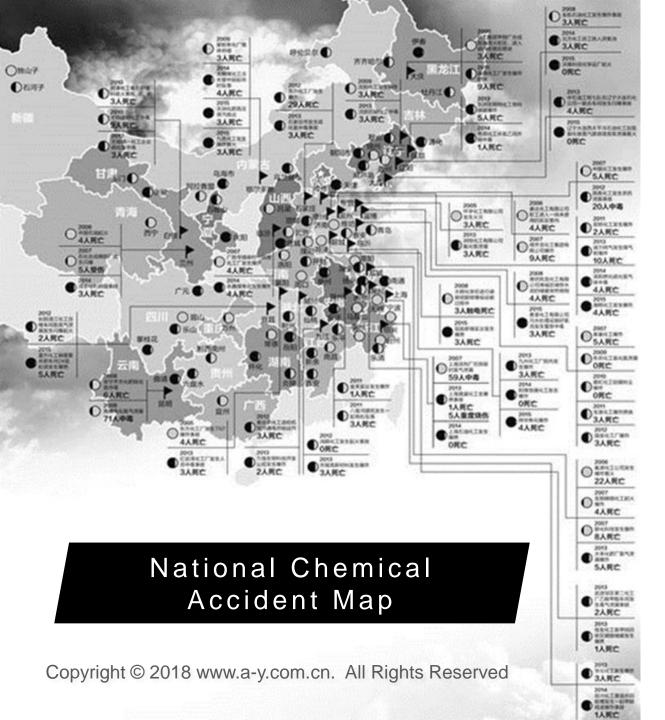


Safety Risk Management Cloud Platform for Chemical Enterprise



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RISK CONTROL

- Risk Planning Definition
- Risk Identify Judge
- Risk analysis Assessment
- Risk response Development
- Risk Control supervision

INDUSTRIAL DEVELOPMENT POLICY OF DOMESTIC CHEMICAL ENTERPRISES

《Guiding Opinions of the General Office of the State Council on Promoting the Relocation and Reform of Hazardous Chemicals Production Enterprises in Population-intensive Areas of Towns and Towns》

Before the end of 2018

Small and medium enterprises and major enterprises with major risks have been relocated.

Before the end of 2025

In densely populated areas of cities and towns, dangerous chemicals production enterprises that do not meet the requirements of safety and health protection distance are rebuilt locally to meet the standards, relocated to industrial parks or closed down and withdrawn.

Before the end of 2020

The first stage of relocation and transformation is completed, and other large enterprises and super large enterprises are being relocated.



PRACTICAL RESULTS OF INDUSTRIAL ENTERPRISES



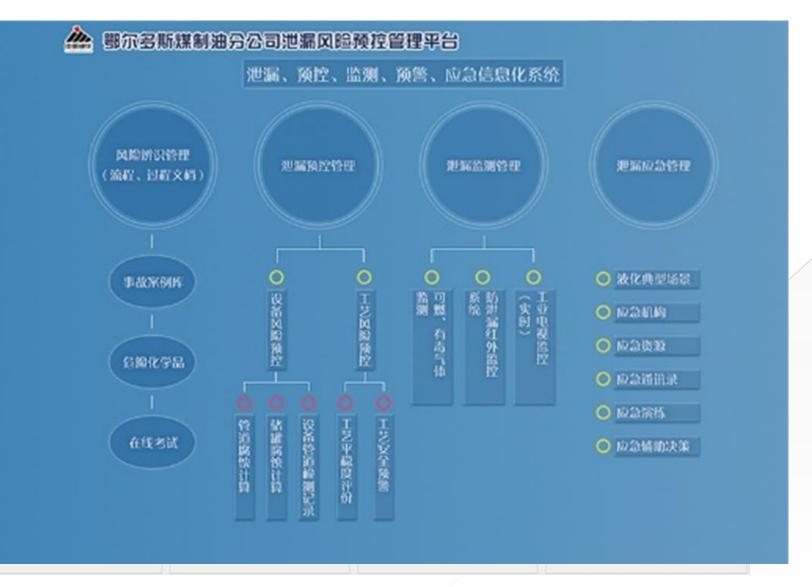
Extensive & convenient



Closed loop



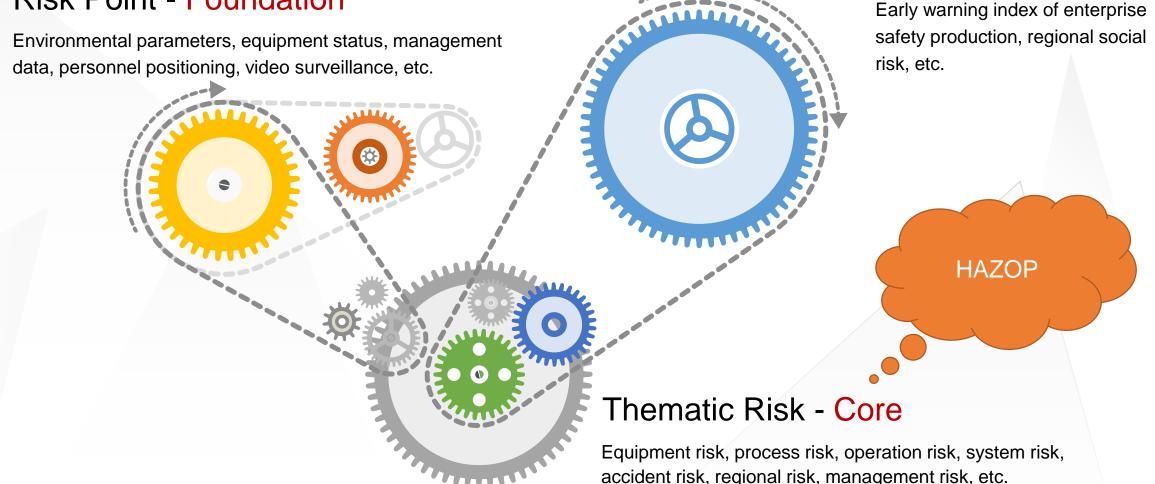
Internet plus



RISK MANAGEMENT AND CONTROL SYSTEM PLANNING FOR DOMESTIC CHEMICAL ENTERPRISES

Overall Risk - Overall Situation

Risk Point - Foundation

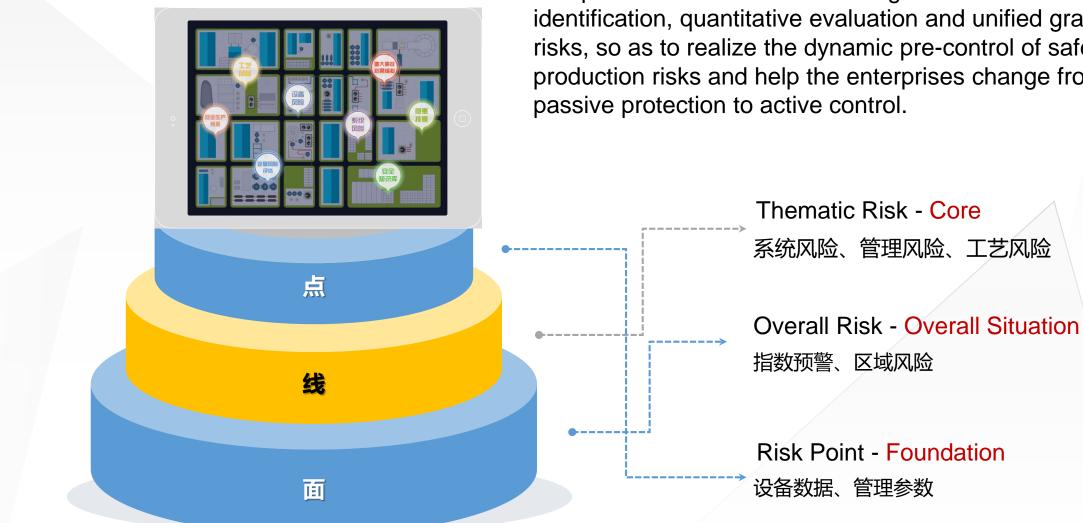


FOCUS ON RISK PREVENTION AND CONTROL OF DOMESTIC CHEMICAL ENTERPRISES

The main factors of chemical risk identification and prevention are fire, explosion and poisoning accidents.

A EO EÖ Equipment risk RBI Process deviation analysis Process stability analysis • Pre-warning of process parameters Corrosion failure of equipment Corrosion life of equipment ٠

SAFETY RISK MANAGEMENT CLOUD PLATFORM FOR CHEMICAL ENTERPRISE



The platform is based on the design idea of scientific identification, quantitative evaluation and unified grading of risks, so as to realize the dynamic pre-control of safety production risks and help the enterprises change from

OVERALL FRAMEWORK OF RISK MANAGEMENT AND CONTROL SYSTEM FOR CHEMICAL ENTERPRISES



Risk Perception - Acquisition & Screening

Obtain environmental parameters, equipment working conditions through platform.

15%

15%

Risk Identification - Definition & Allocation

Risk categories, indicators, visibility and the process of management activities

45% Risk Assessment - Indicators & Methods

Risk assessment model selection, risk calculation.



Risk Control - Grading & Closed Loop

Risk classification, hierarchical management and risk control closed loop management.

Risk Perception

In view of the major hazards, key sites and key parts of enterprises, the intelligent terminal equipment of the Internet of Things is used to realize on-line safety monitoring and early warning of enterprises, and the platform is connected to realize joint defense and control mode.





Unit Partition, Hazard Identification & Level Setting.

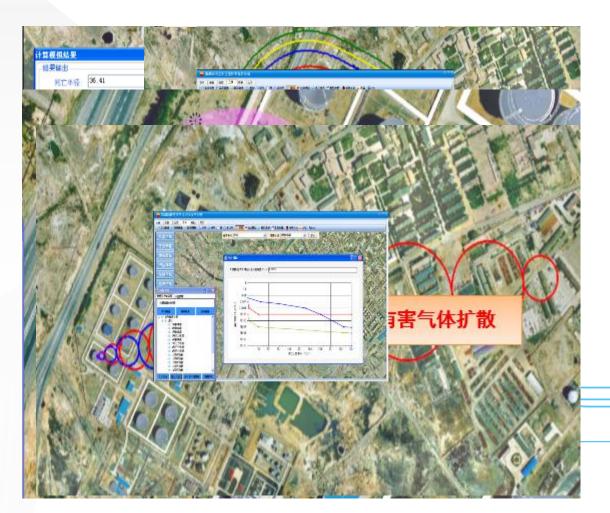
From the operation activities/equipment facilities as the most basic unit, clear the unit risk and harmful factors, and set the classification.

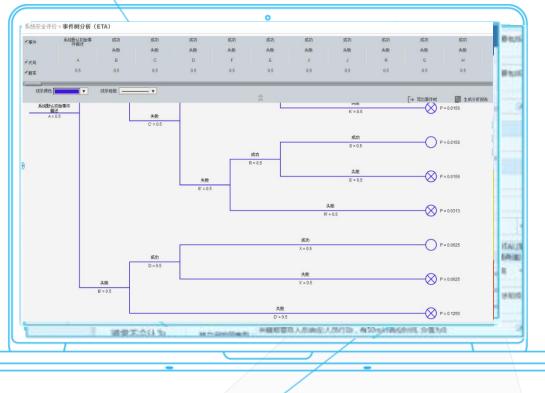
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Risk Assessment







Risk assessment model selection, risk calculation.



The influence level of ISD on the intrinsic safety of major hazard sources is determined mainly by the ability of application and elimination or mitigation.



CONTROL MEASURES

Develop Risk Control Measures Library

> 固有风险控制指标 作业人员风险控制指标 周边脆弱风险控制指标 设备风险控制指标 环境风险分析指标

MEASURE EXTRACTION

Risk Control Measures Extraction & Quantification

> 设定风险可接受程度标准; 对危险源提出ISD控制措施

REGRESSION DETERMINATION

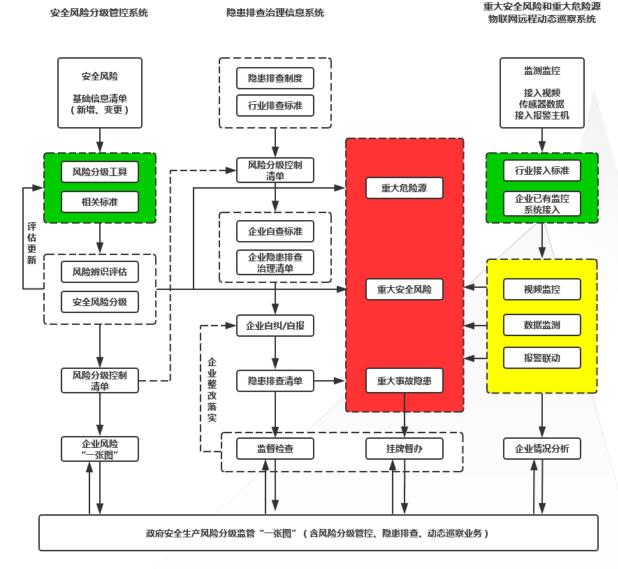
Regression To Determine Risk After Management & Control

以风险值最小化为目标的风险管控组合策略

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RISK & HIDDEN

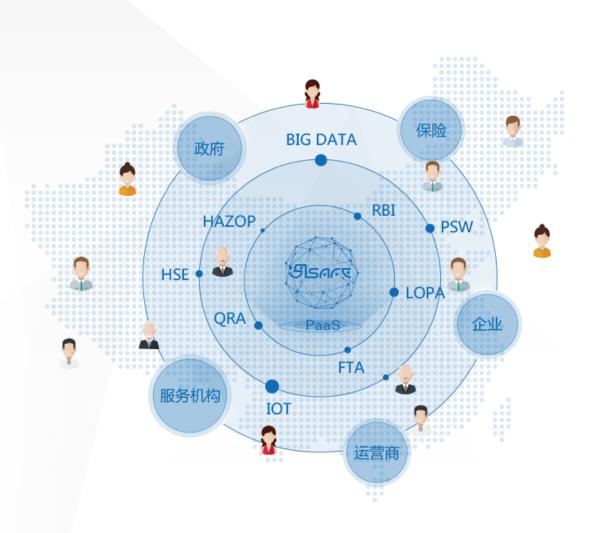
RISK CLASSIFICATION CONTROL & HIDDEN TROUBLE INVESTIGATION & MANAGEMENT







SAFETY PRODUCTION & RISK SERVICE ECOSYSTEM





Through the integration of enterprise risk management and accident prevention service system on-line and off-line, the service requirements and standards are formulated, covering the functions of various products on-line, and a high-standard, high-quality, realtime traceability expert service system is established under-line to realize the integration of enterprise risk management and control services on-line and off-line.



THANK YOU



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