



SAP EHS Solution Overview

EHS Solution Management
Q2 2021

PUBLIC

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SAP Strategy for Sustainability



A blueprint to integrate sustainability data into business processes across all value chains to drive performance, new products & new markets



Complete the transition to a high-performance Sustainable Intelligent Enterprise by combining operational data mapping with holistic sustainability reporting

Steering to Zero with a **Sustainability Performance Management**



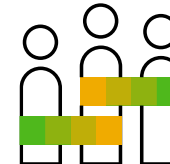
Zero Emissions with **Climate Action**

Generate cost savings by transitioning from “Low to No” carbon across your entire network.



Zero Waste with **Circular Economy**

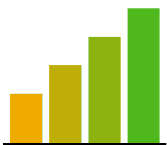
Contribute to a zero-waste world by incorporating resilience and circularity into your supply chains.



Zero Inequality with **Social Responsibility**

Ensure zero incidents, accidents and harm to communities, people and the environment.

Industry Innovation



Generate additional value by incorporating industry-specific solutions from across our Partner Ecosystem and Industry Cloud

SAP Sustainability Solutions

Solution Scope

HOLISTIC STEERING AND REPORTING

- SAP Sustainability Control Tower
- SAP Ariba - EcoVadis Supplier Sustainability Rating
- SAP Spend Analytics and Category Intelligence
- SAP Environment Management (EHS)
- SAP S/4HANA for Product Compliance
- SAP Health and Safety Management (EHS)
- Industry Innovation
 - SAP Profitability and Performance Management by msg

ZERO EMISSIONS with Climate Action

- SAP Environment Management (EHS)
- SAP Product Footprint Management
- SAP Business Ecology Management for Small and Midsize Businesses
- SAP E-Mobility
- SAP Product Carbon Footprint Analytics (SAC)
- SAP Transportation Management
- SAP Concur
- SAP Treasury and Risk Management
- SAP Logistics Business Network Material Traceability

ZERO WASTE with Circular Economy

- SAP Responsible Design and Production
- SAP S/4HANA for Product Compliance
- SAP Environment Management (EHS Waste Mgmt)
- GreenToken by SAP
- SAP Rural Sourcing Management
- SAP Logistics Business Network Material Traceability
- Product Lifecycle Management
- Integrated Business Planning

ZERO INEQUALITY Social Responsibility

- SAP Health and Safety Management (EHS)
- SAP Occupational Health (EHS)
- SAP Incident Management (EHS)
- SAP Business Integrity Screening
- SAP S/4HANA for Product Compliance
- SAP Concur (Duty of Care)
- SAP Ariba (Supplier Diversity)
- SAP Fieldglass (Contingent Workforce Diversity)
- SAP SuccessFactors
- Qualtrics Employee XM

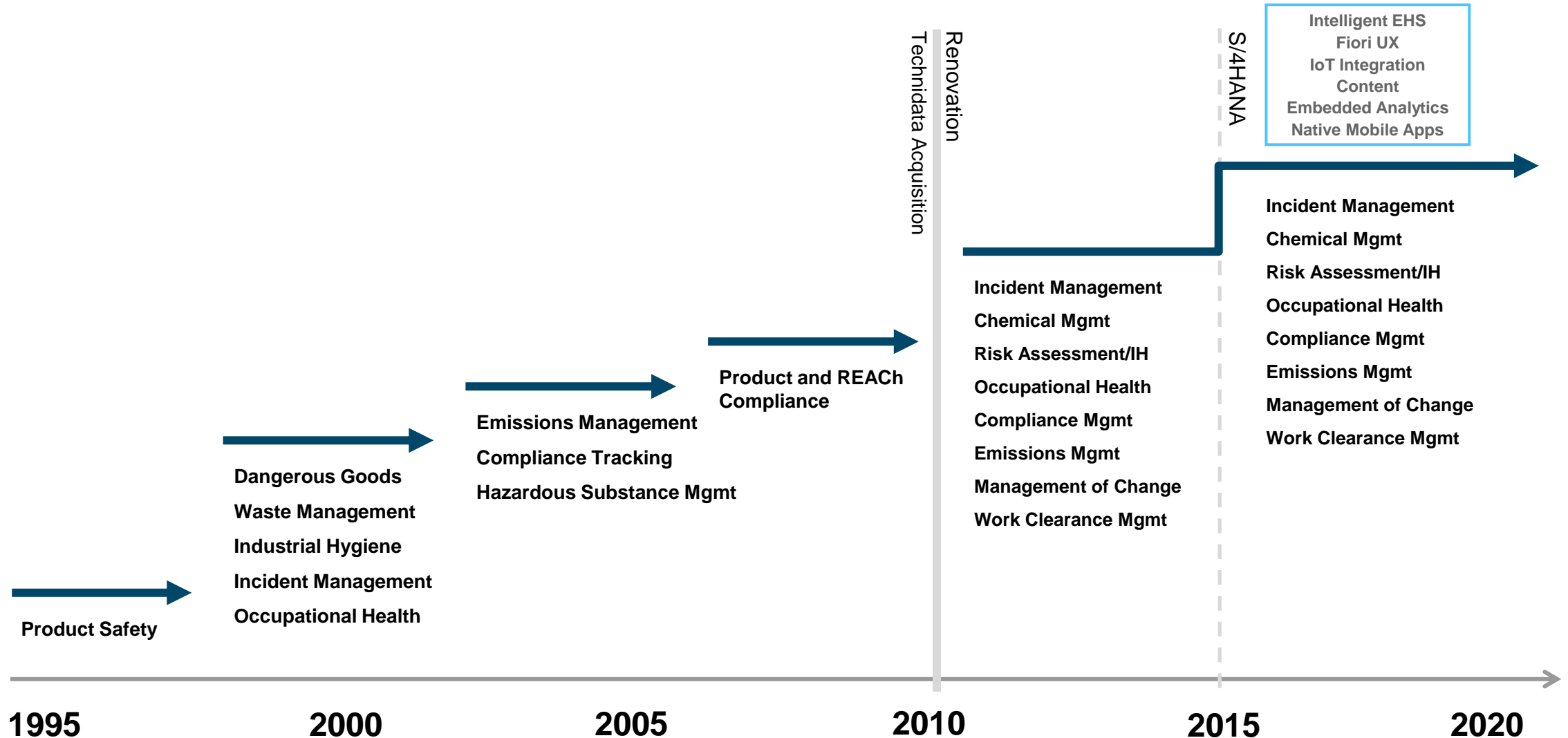
INDUSTRY INNOVATION

- Bearing Point LogEC (Logistics Emissions Calculator)
- SAP Traders & Schedulers Workbench
- SAP Cloud for Energy
- SAP Digital Vehicle Hub (SAP AIN)
- SAP Direct Distribution
- SAP Multichannel Order Management
- SAP S/4HANA for Waste & Recycling by Prologa
- SAP Returnable Packaging Management
- SAP Intelligent Returns Management
- SAP Outcome-based Business Insights
- SAP Replenishment Planning

- SAP Work Clearance Management (EHS)
- SAP Management of Change (EHS)

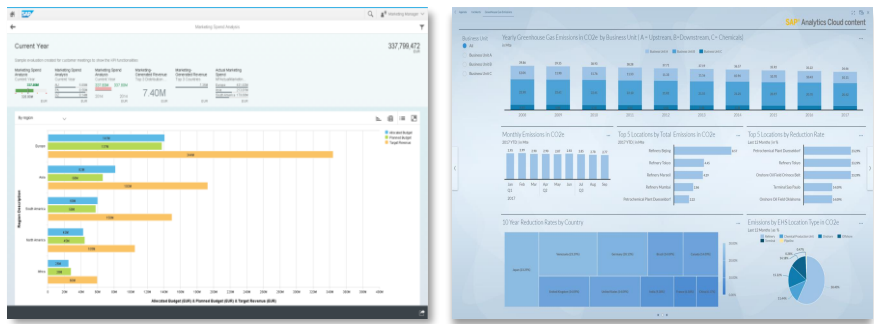
SAP Commitment to Environment Health and Safety

25 year record of investment, innovation and market leadership in delivering SAP Sustainability solutions

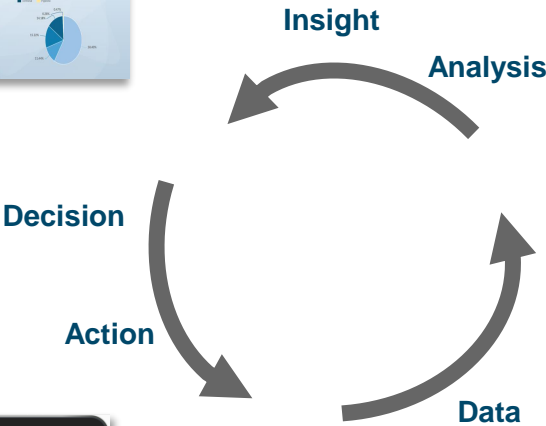
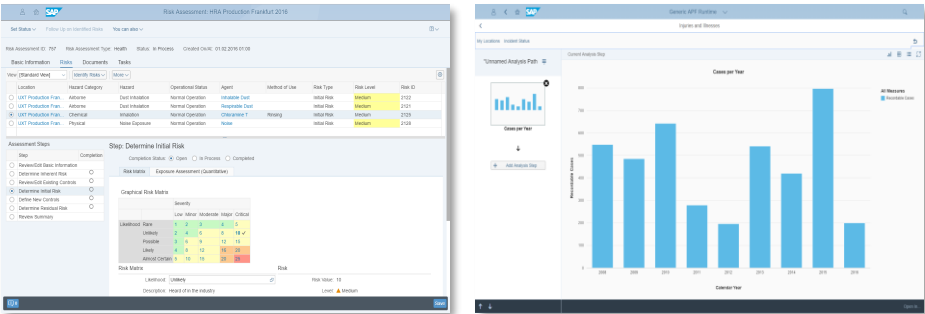


SAP EHS – Design Philosophy

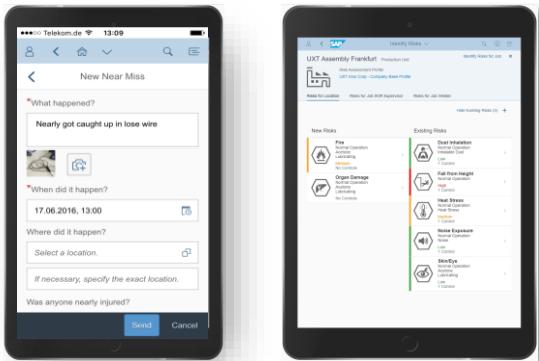
Corporate



EHS Practitioner



Field Operations



SAP EHS Solution Portfolio



EHS Incident Management

Incident
Management

Near Misses

Safety
Observations



EHS Health and Safety

Chemical
Approval

Chemical
Management

Operational Risk
Assessment

Industrial Hygiene
and Sampling

Occupational
Health*

EHS Audit
Management**



EHS Environment Management

Regulatory and
Permit Compliance

Emissions
Management



Management of Change

Management of
Change



Maintenance Safety

Permit to Work

Work
Clearance/LOTO

Real Time EHS Reporting and Analytics

Action Tracking and Task Management

Intelligent EHS Technologies for Awareness, Automation, Ubiquity

Asset
Management

Human
Resources

Contractor
Management

Implementation
Add-ons

Supporting applications

*OH licensed separately

**Audit is complimentary with S/4HANA Enterprise

SAP EHS Solution Portfolio – Value Drivers



EHS Incident Management

Reduce Incident Rates

Proactive Safety Culture

Proactive Safety Culture



EHS Health and Safety

Control of Chemicals Onsite

Real Time Chemical Inventory

Reduced Operational Risk

Minimize Workplace Exposures

Protocol-driven Medical Services

Integrated CAPA Tracking



EHS Environment Management

Ensure Compliance

Minimize Emissions



Management of Change

Reduced risk from changes



Maintenance Safety

Better Control of work

Prevent Safety Violations

The Fiori Launchpad – Role-based entry screen for all users

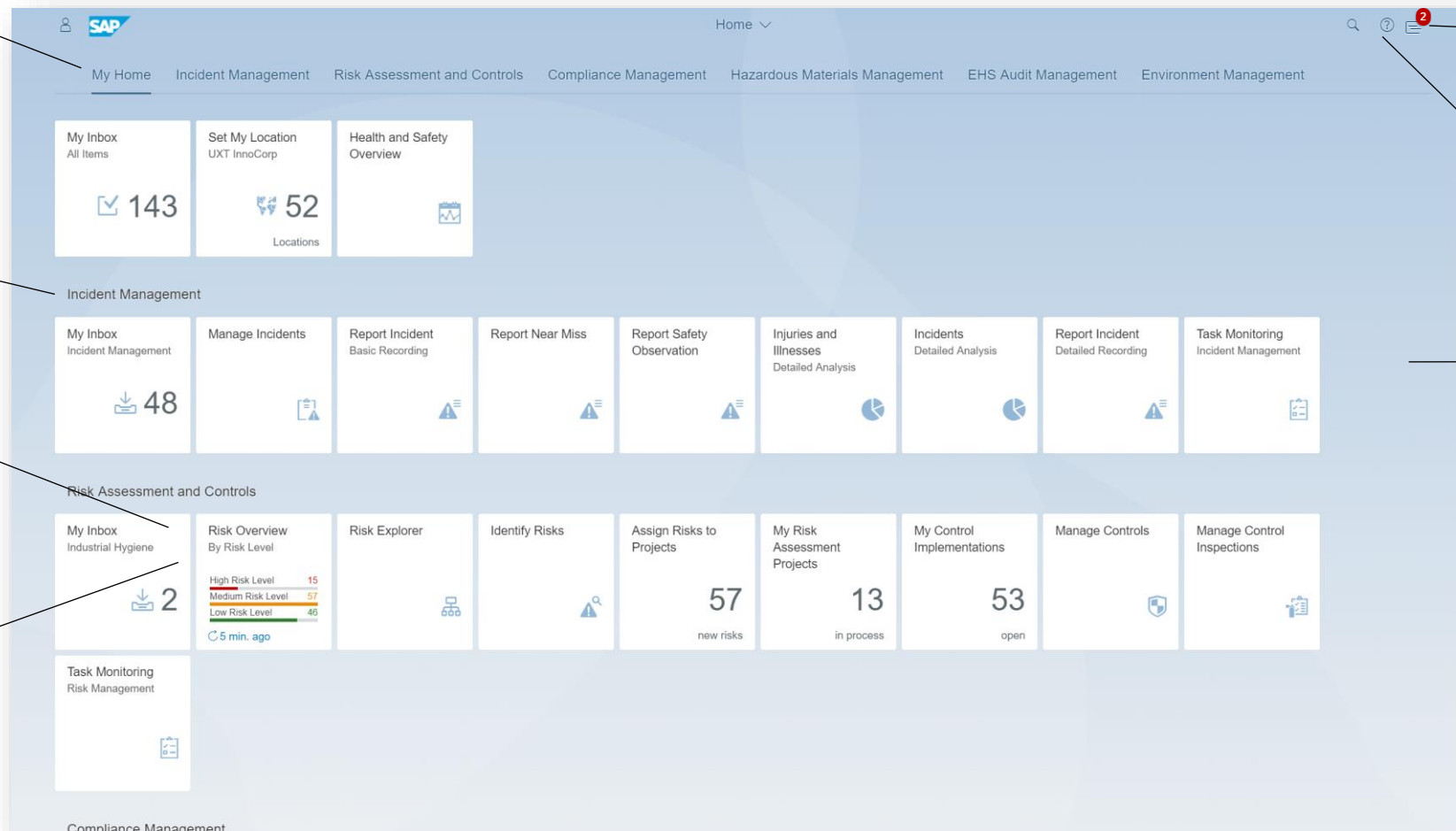
Anchor navigation allows direct access to groups

Group tiles for personalized content organization

Dynamic charts to provide high level, real-time overview

Color coding alerts user for any overdue, new or immediate actions

[Fiori Launchpad User Guide](#)



News and feeds to enhance collaboration

Search across and within apps to get immediate answers

Edit mode for instant personalization of groups and tiles

EHS Incident Management / Safety Observations

The image displays two versions of the EHS Incident Management interface. The background is a desktop web form, and the foreground is a mobile app overlay.

Desktop Web Form:

- What happened and which immediate actions have been carried out?**
 - * Title: [Text Field]
 - Description of Events: [Text Area]
 - Immediate Actions: [Text Area]
- Where did it happen?**
 - Plant ID: [Text Field]
 - Location: [Text Field] [Details](#)
 - Location Description: [Text Area]
- When did it happen?**
 - * Date / Time: 26.01.2017 00:00 CET [Details](#)
 - ☐ Time Unknown
- Who was injured?**
 - Buttons: Choose Me, Choose from Address Book, Enter Manually, Delete
 - Name: [Text Field]
 - Organizational Unit: [Text Field]
 - Address: [Text Field]
 - E-Mail: [Text Field]
 - Injury/Illness Desc.: [Text Field]
- Who witnessed the incident?**
 - Buttons: Choose Me, Choose from Address Book, Enter Manually, Delete

Mobile App Overlay:

- Header: Report Incident [v](#)
- Section: New Incident
- *What happened?:
 - Describe what has happened. [Text Area]
 - [Add Photo](#)
- *When did it happen?:
 - Dec 18, 2016, 10:40 PM [Calendar](#)
- Where did it happen?:
 - Select a location. [Details](#)
 - If necessary, specify the exact location. [Text Area]
- Was anyone injured?: [Text Field]
- Buttons: Send, Cancel

Objective

Provide a centralized solution to track all types of incidents, drive a consistent process for incident entry, investigation, and corrective actions.

Capabilities

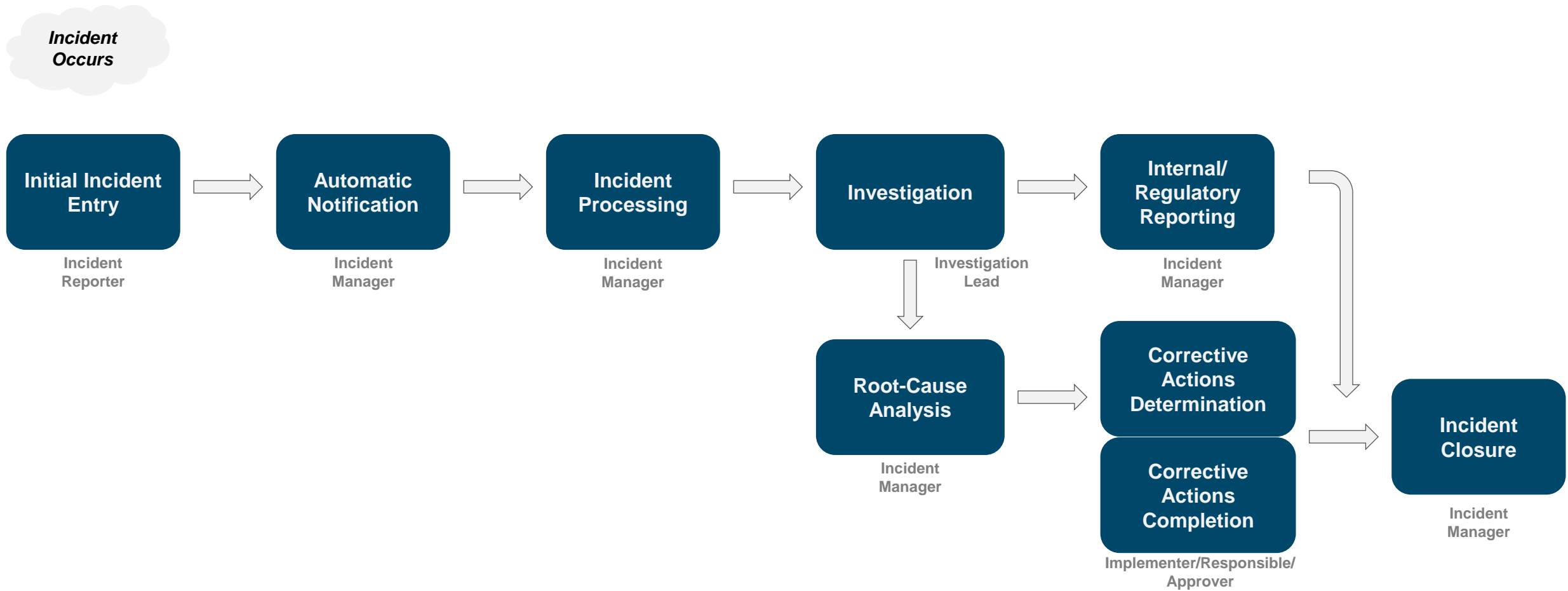
- Multiple options for incident data entry, including mobile and offline entry
- Data structure, user interface, and security model specific to incident type, near miss, safety observations
- Direct integration to ERP and HR processes
- Workflow-driven initial notifications, investigation steps, and corrective actions
- Real-time analytical reports and dashboard views
- Real-time incident rate calculations

Benefit

- Learn from analyzing a central database of all types of events to reduce incident rates and severity
- Increased visibility and automation of tasks and corrective actions
- Reduced time for processing incidents and regulatory reporting
- Valuable process integration within EHS and other SAP applications

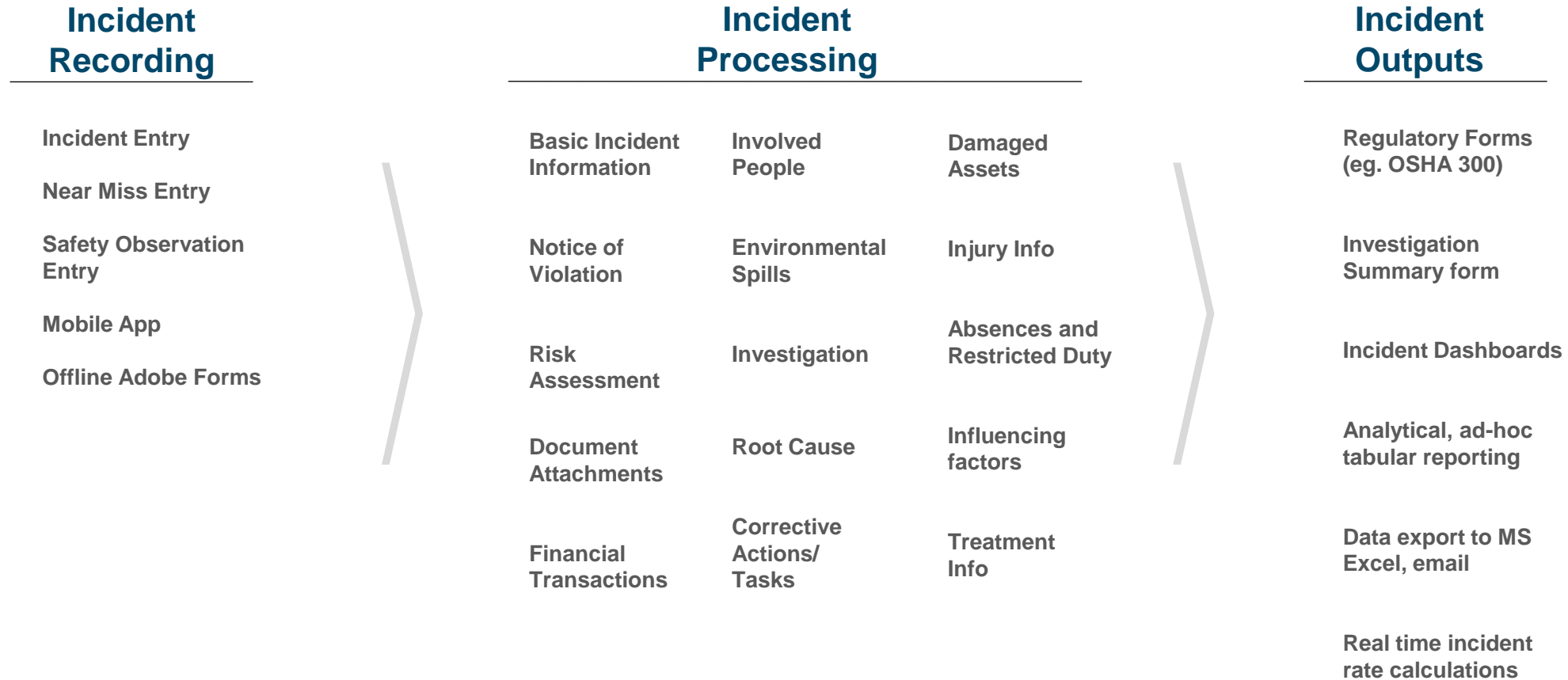
EHS Incident Management

Business Process



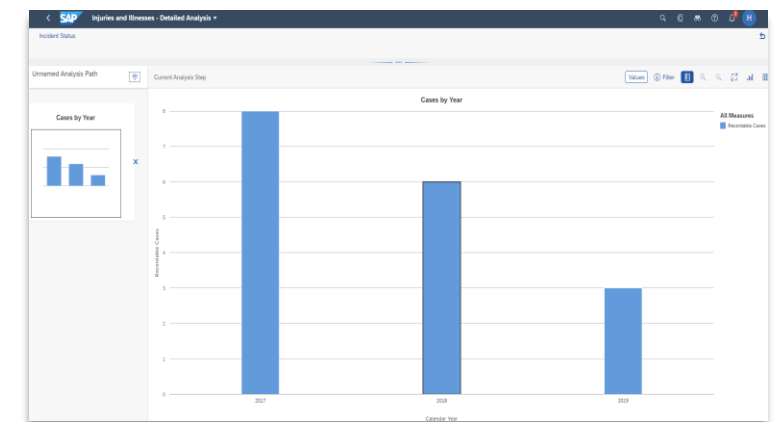
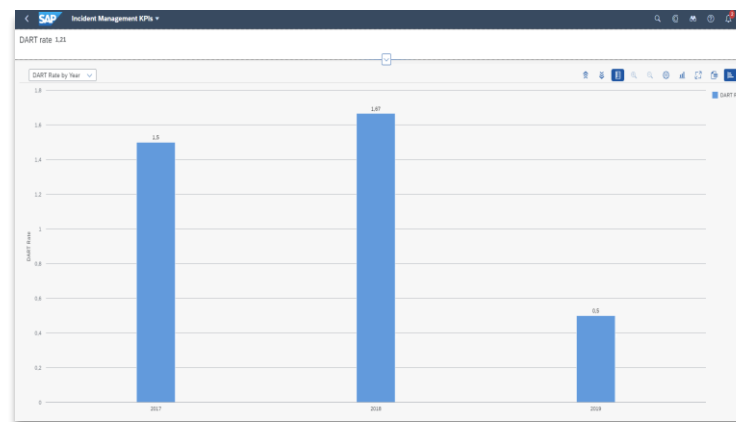
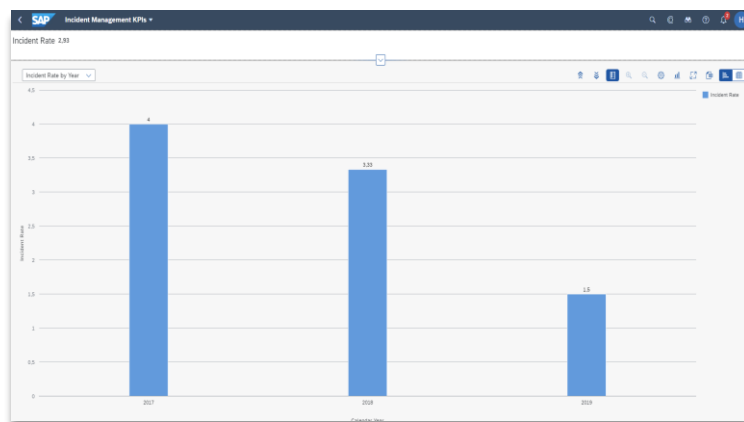
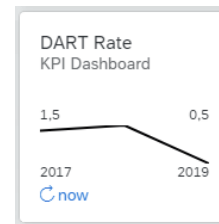
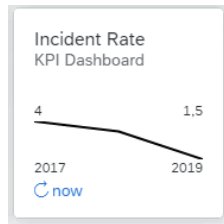
EHS Incident Management

Functional Components



Key Feature – Real time incident rate calculation

Pre-built analytical views that continuously calculate incident rate and other metrics as relevant data is being entered, such as incident records and hours worked. Live tiles provide an updated trendline right on the user Launchpad without having to click open the report



EHS Incident Management Outputs

Forms

OSHA's Form 300A (Rev.01/2004)

Summary of Work-Related Injuries and Illnesses

All establishments covered by Part 1904 must complete this Summary page, even if no injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

Employees, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR 1904.35, in OSHA's recordkeeping rule, for further details on the access provisions for these forms.

Year 2011

U.S. Department of Labor
Occupational Safety and Health Administration

Form approved OMB no. 1210-0175

Establishment information

Your establishment name Michael Jordan

Street 123 street

City New York State New York ZIP 10288

Industry description (e.g., Manufacture of motor truck trailers)

Standard Industrial Classification (SIC), if known (e.g., 336215)

OR

North American Classification (NAICS), if known (e.g., 336212)

Employment information

Annual number of employees 00000002197

Total hours worked by all employees last year 000003657005

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.

Michael Jordan Integration: default poli

Company executive Title

May 4, 2012

Phone Date

Number of Cases

Total number of deaths 0

Total number of cases with days away from work 1

Total number of cases with job transfer or restriction 0

Total number of other recordable cases 0

(G) (H) (I) (J)

Number of Days

Total number of days away from work 2

Total number of days of job transfer or restriction 0

(K) (L)

Injury and Illness Types

Total number of... (M)

(1) Injuries 1

(2) Skin disorders 0

(3) Respiratory conditions 0

(4) Poisonings 0

(5) Hearing losses 0

(6) All other illnesses 0

Post this Summary page from February 1 to April 30 of the year following the year covered by the form. Public reporting burden for this collection of information is estimated to average 58 minutes per response, including time to review the instruction, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistics, Room N-3644, 200 Constitution Ave, NW, Washington, DC 20210.

Dashboards

Current Analysis Step

Filter

Records by Category and Major Root Cause

Major Root Cause

Not assigned

Improper Use

Trainee Prerequisites Not Fulfilled

Training Material Incorrect

No Training

Unrealistic Deadlines

Working Environment

Controls / Displays Inconsistent

Material Defect

Insufficient Resources Assigned

Type of Maintenance Unsuitable

Documentation Incomplete / Obsolete

Documentation Not Found

Design Faults

Incident

Near Miss

Safety Observation

Incident Category

Records

20

16

12

8

4

0

No value

Drill Down Reporting

Current Analysis Step

Values

Filter

Incident-Related Cases by Type and Date

Case Type

Injury/Illness Case

Asset-Related Case

Release-Related Case

Notice of Violation Case

Cases

6

5

4

3

2

1

0

17.02.2017

13.03.2017

24.04.2017

16.05.2018

22.08.2018

10.09.2018

04.01.2019

19.05.2019

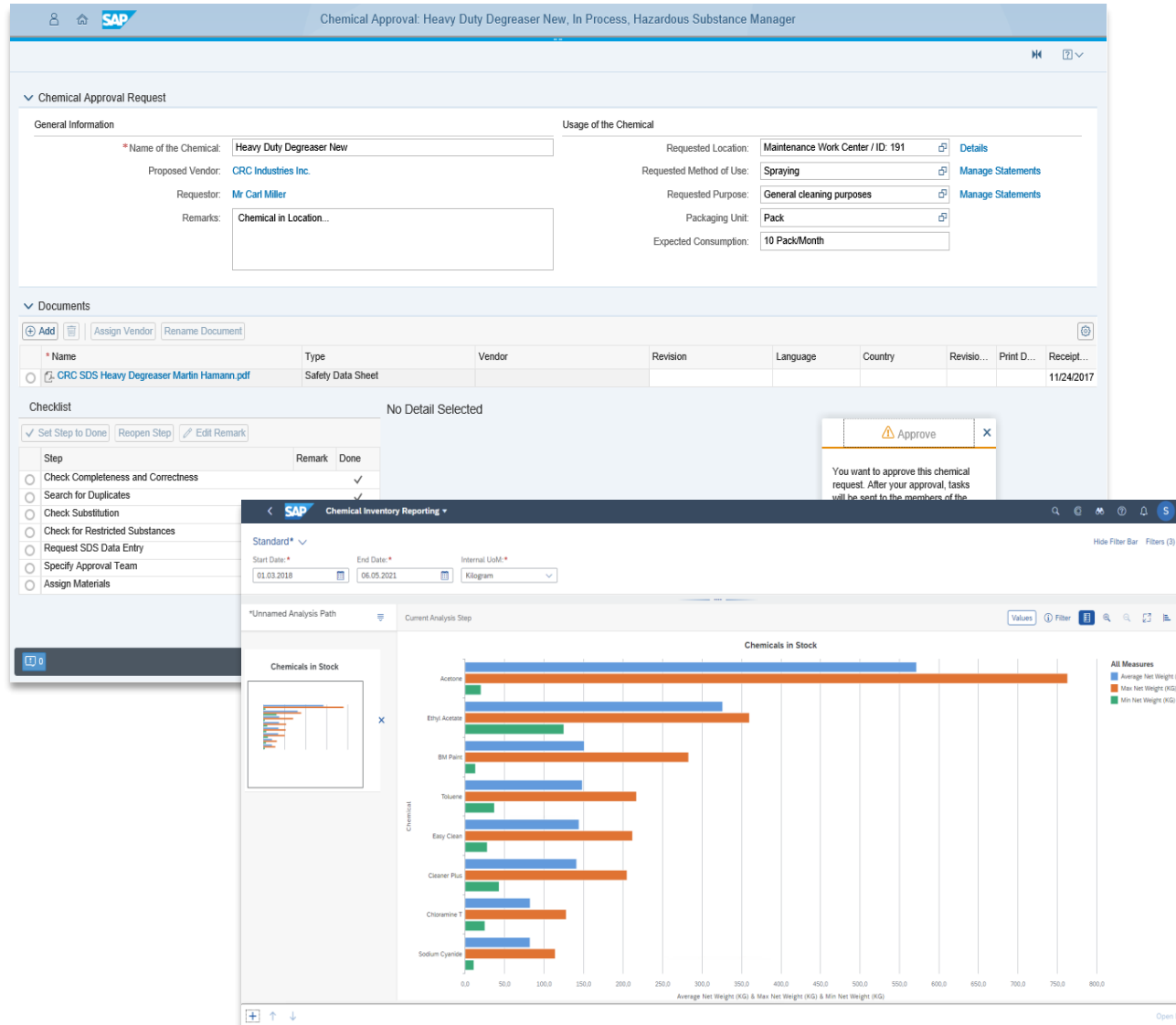
03.05.2021

Date

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Chemical Management



Objective

Establishing an integrated health and safety process for managing chemicals to ensure safety and compliance in regards to chemicals in the workplace.

Capabilities

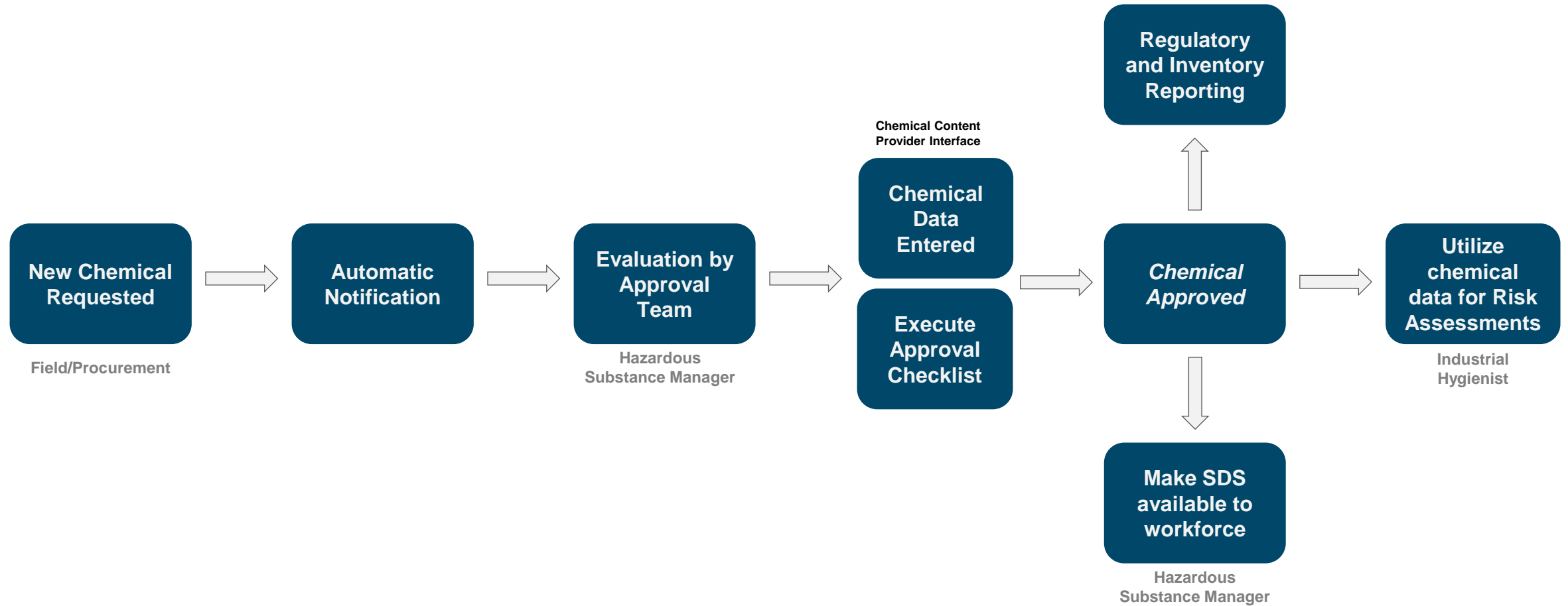
- Configurable approval process for chemicals to build a company wide inventory
- Centralized and configurable repository for onsite chemical data
- Ability to leverage chemical data in exposure and health risk assessments, Industrial Hygiene sampling projects, and air pollutant emissions calculations.
- Integration to SAP Materials Management and Inventory to allow for real-time inventory reporting. In addition, there is support for the SARA 312 regulatory report.

Benefit

- Proactively minimize potential chemicals hazards
- Holistically leverage chemical data within health and safety management
- Embedding chemical workplace compliance into the standard risk assessment process

Chemical Management

Business Process – New Chemical



Chemical Management

Functional Components

Chemical Approval Request

Request Chemical Approval Screen

SDS Attachment

Material Assignment

Relevant Locations

Chemical Data Management

Chemical Identifiers

Hazard Classifications

Hazard Symbols

First Aid Measures

GHS Classification

Hazardous Ingredients

Phys/Chem. Properties

Personal Protective Equipment

SDS attachments

Firefighting Measures

Workplace OELs

Location and Material Master Assignments

Outputs

Safety Instruction for Chemicals

Chemical Search Hitlists

Real time Inventory Reporting (including SARA 312)

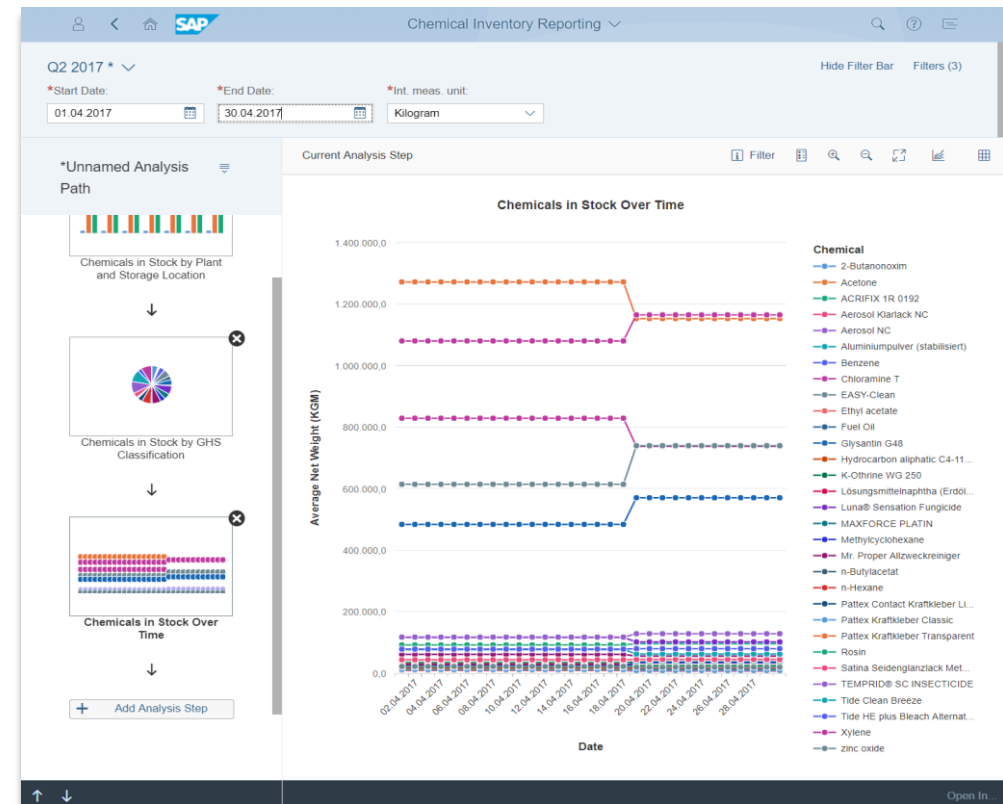
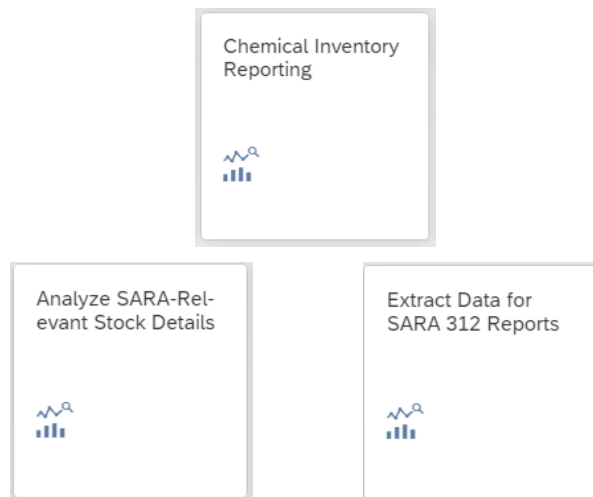
Analytical, ad-hoc reporting

Data export to MS Excel, email

Key Feature – Real time chemical inventory tracking

Leveraging direct integration to SAP Materials Management and Inventory storage location data, SAP EHS provides a flexible, real-time view of onsite chemical storage. This also supports generation of the SARA 312 report for US customers.

- Integration to SAP MM and IM
- Drill-down reporting view of chemicals and amounts
- SARA 312 reporting




Managing Chemicals for Health and Safety

Outputs

Forms

Company:



Example Safety Instruction

Created: 2014-01-22

1. Applicability

Org. Unit:

Plant:

Location:

Job:

Method of Use:

Lab, Unit 3

New York

Glueing

2. Chemical Identification

Epoxy Primer Part A (Mixture)

Synonyms:
not available

Internal Names:
Epoxy Glue Component

Hazardous Ingredients:
Bisphenol A/ epichlorohydrin resin (25085-99-8) • toluene (108-88-3) • xylene (1330-20-7)

Odor:


Color:

Off-White

Form:

Liquid

3. Hazards for Humans and Environment



Danger

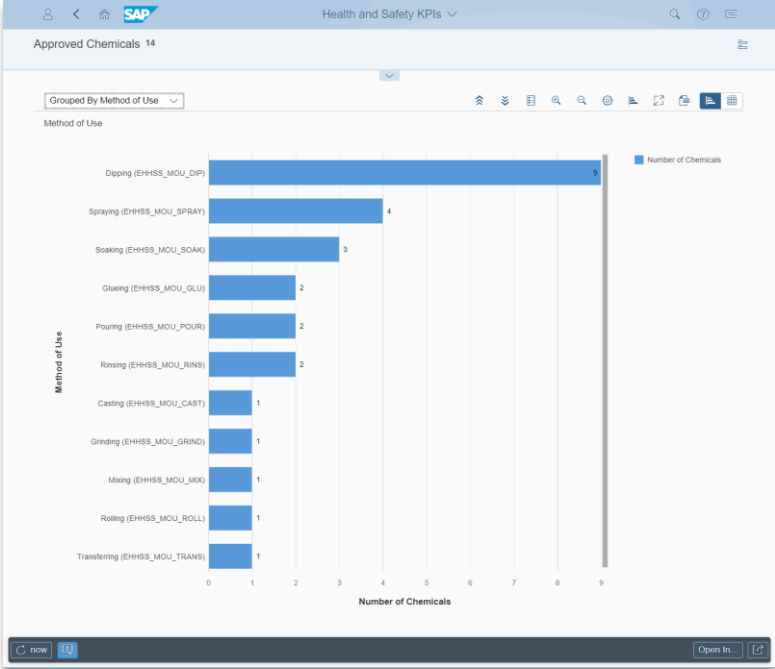
Class /Category:
Acute toxicity: Inhalation, Category 4
Carcinogenicity , Category 2
Aspiration hazard, Category 1
Aquatic Hazard (acute), Category 1

Hazard Statements:
H304: May be fatal if swallowed and enters airways.
H332: Harmful if inhaled.
H351: Suspected of causing cancer.
H400: Very toxic to aquatic life.

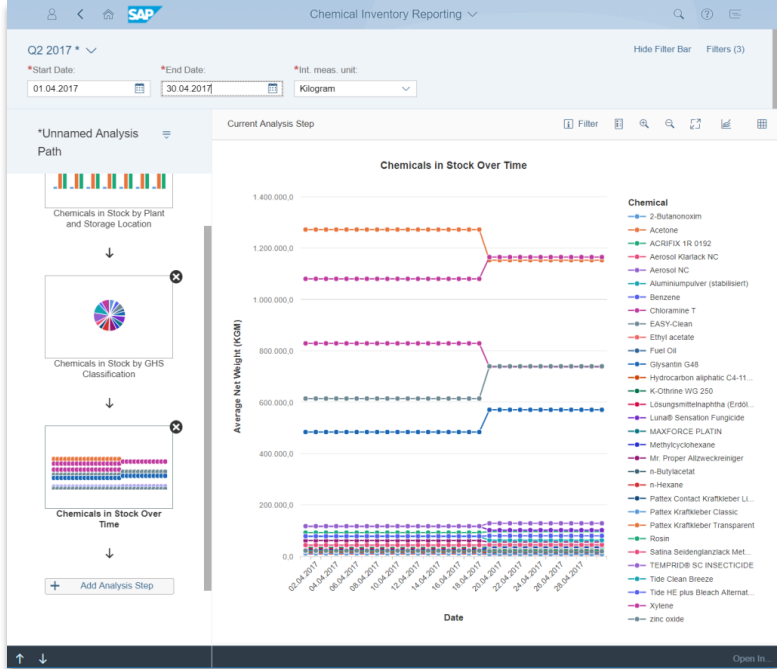
4. Safety and Protective Measures

Protective Measures:
not available

Dashboards



Drill Down Reporting



Operational Risk Assessment

Risk Assessment: HRA Production Frankfurt 2016

Risk Assessment ID: 757 Risk Assessment Type: Health Status: In Process Created On/At: 01.02.2016 01:00

Basic Information Risks Documents Tasks

View [Standard View] Identify Risks More

Location	Hazard Category	Hazard	Operational Status	Agent	Method of Use	Risk Type	Risk Level	Risk ID
UXT Production Fran...	Airborne	Dust Inhalation	Normal Operation	Inhalable Dust		Initial Risk	Medium	2122
UXT Production Fran...	Airborne	Dust Inhalation	Normal Operation	Respirable Dust		Initial Risk	Medium	2121
UXT Production Fran...	Chemical	Inhalation	Normal Operation	Chloramine T	Rinsing	Initial Risk	Medium	2125
UXT Production Fran...	Physical	Noise Exposure	Normal Operation	Noise		Initial Risk	Medium	2128

Assessment Steps

Step	Completion
Review/Edit Basic Information	<input type="radio"/>
Determine Inherent Risk	<input type="radio"/>
Review/Edit Existing Controls	<input type="radio"/>
Determine Initial Risk	<input checked="" type="radio"/>
Define New Controls	<input type="radio"/>
Determine Residual Risk	<input type="radio"/>
Review Summary	<input type="radio"/>

Step: Determine Initial Risk

Completion Status: ☒ Open ☐ In Process ☐ Completed

Risk Matrix Exposure Assessment (Quantitative)

Graphical Risk Matrix

		Severity				
		Low	Minor	Moderate	Major	Critical
Likelihood	Rare	1	2	3	4	5
	Unlikely	2	4	6	8	10 ✓

UXT Assembly Frankfurt - Production Unit

Fire Normal Operation Actions: Lubricating Operational Status: Normal Operation

Quick Assessment

Risk Level: ☐ Low ☒ Medium ☐ High

Comment: ask Peter about his experiences in Munich

Controls

Ad Hoc Controls: +

Weekly safety briefing

Perform a weekly safety briefing with the complete department (Team Organization)

Controls from Control Catalog

EMERGENCY EXIT Control Catalog: Hazard Signs/Warning Labels Status: Existing

Foam Based Fire Extinguisher Control Catalog: Fire Extinguishers Status: Existing

Impacts

☐ Fire ☐ Injuries ☐ Loss of Life (*) ☐ Loss of Production

Objective

Enable an end-to-end process for identifying and dealing with all manner of hazards and risks in the workplace

Capabilities

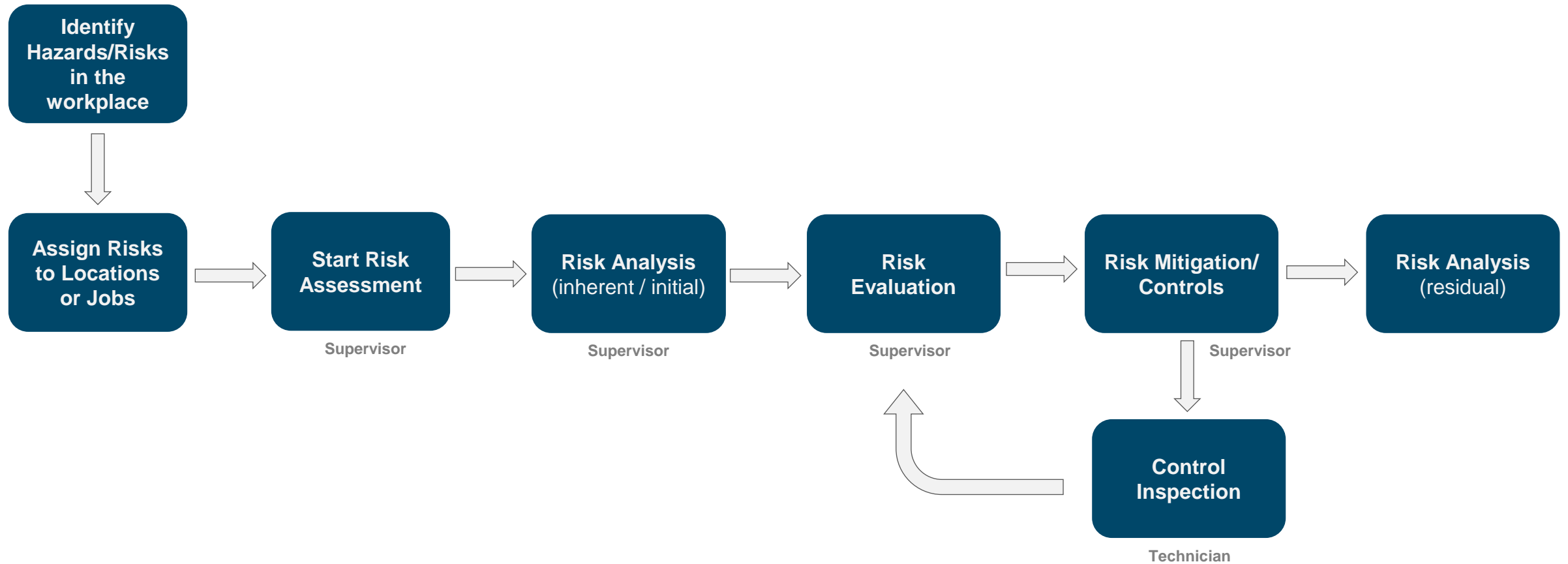
- Comprehensive environment, health, and safety risk assessments (including JHA)
- Trigger follow-up actions and tracking them to completion
- Multiple risk analysis methods (e.g. risk matrix, job hazard analysis, OEL comparison)
- Real-time analytical reports and dashboard views
- Mobile apps for hazard identification in the field and communication of all safety-related information in one view
- Validation between hazards, impact, and controls

Benefit

- Standardized, cost-effective approach to managing operational risks
- Minimize workplace exposures and related health impacts
- Increased visibility and automation of tasks and corrective actions
- Valuable process integration within EHS and other SAP applications

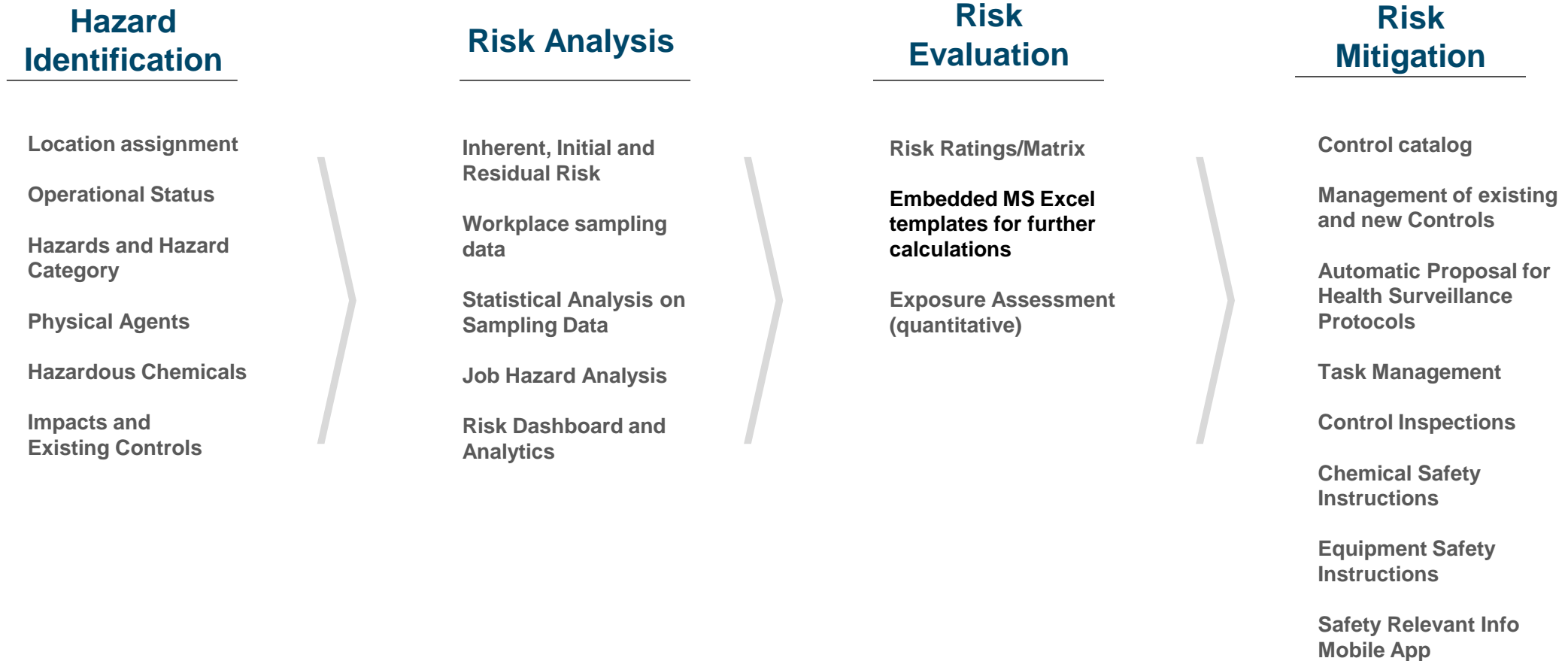
Operational Risk Assessment

Business Process



Operational Risk Assessment

Functional Components



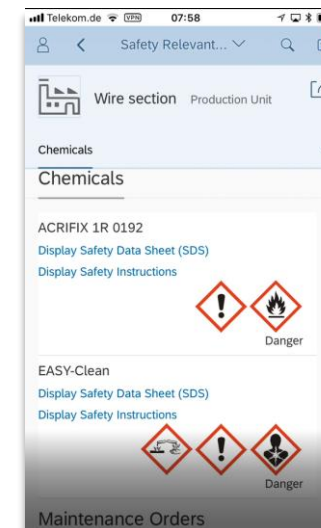
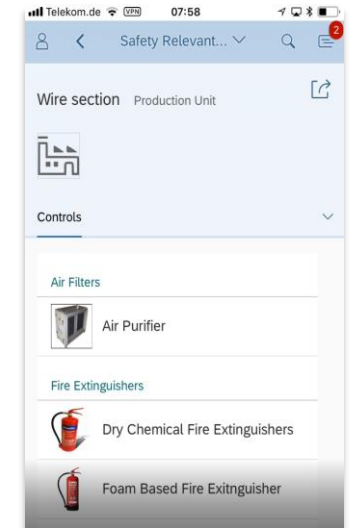
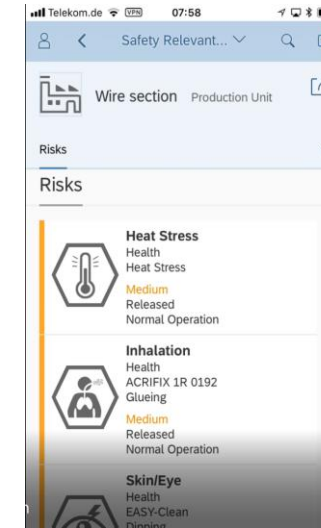
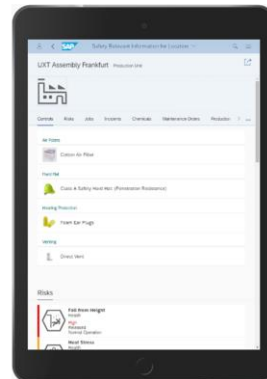
Key Feature - Display Safety Relevant Info App

Provides the worker with relevant safety and risk information by merging EHS information with real-time operational context at a specific location or workplace.

- Risks and hazards identified
- Controls in place
- Safety instructions and safety data sheets
- Appropriate PPE
- Past incidents
- Work-related information such as open maintenance orders and production orders



App can scan barcodes to determine location and pull up info



Operational Risk Assessment Outputs

Forms

Risk Assessment New HRA Prod Frankfurt

Page 5 of 6

16 to 25

High

High Risk

Assessment Summary

Location: UXT Assembly Frankfurt

Operational Status: Normal Operation

Risk ID	Hazard	Initial Risk	Residual Risk
8237	Organ Damage	High	Medium

Location: UXT Production Frankfurt

Operational Status: Normal Operation

Risk ID	Hazard	Initial Risk	Residual Risk
5871	Noise Exposure	Medium	Low

Exposure Assessments

Risk Id	Location	Operational Status	Risk Type	Exposure	Revision Date	Rating	Confidence Level

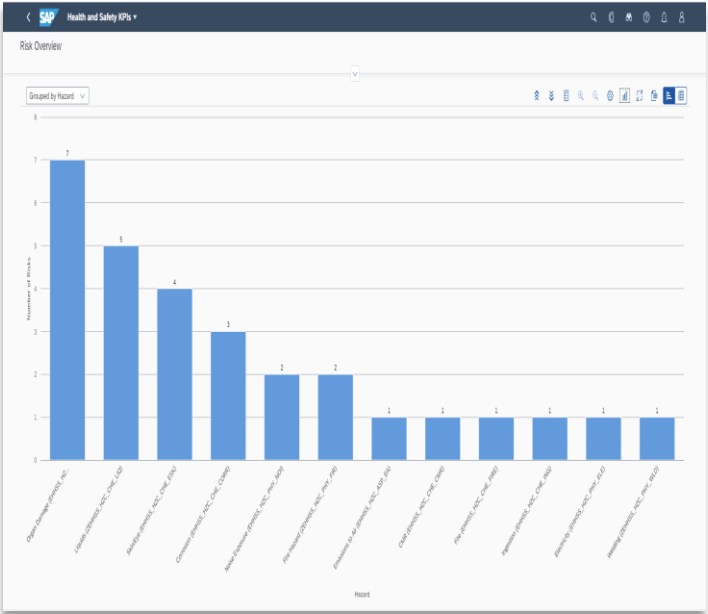
Controls

Risk ID	Location	Hazard	Control Name	Control Type / Subtype	Remarks	Effectiveness	Status
5871	UXT Production Frankfurt	Noise Exposure	Plugged Ear Plugs	Person-Related / Personal Protective			Existing
8237	UXT Assembly Frankfurt	Organ Damage	Indirect Continuous Area Monitoring	Person-Related / Monitoring			In Process

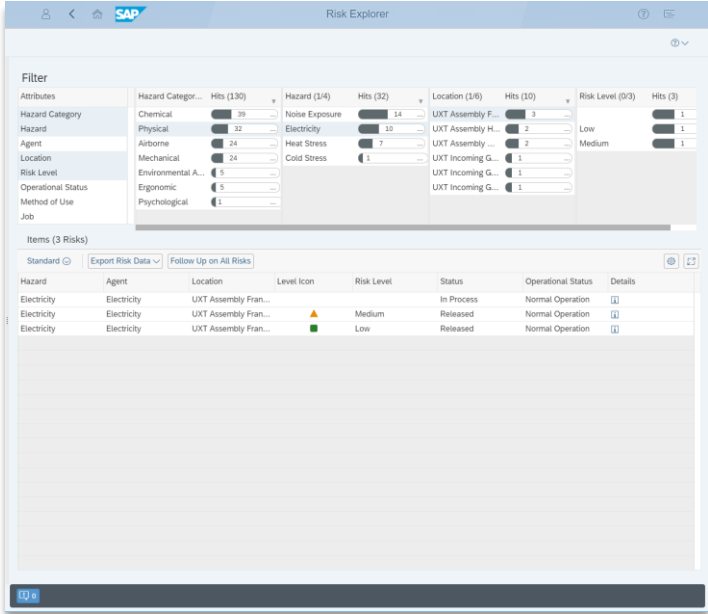
Health Surveillance Protocols

Risk ID	Location	Agent	Protocol Name	Protocol Type and Description	Remarks	Recommended Protocol
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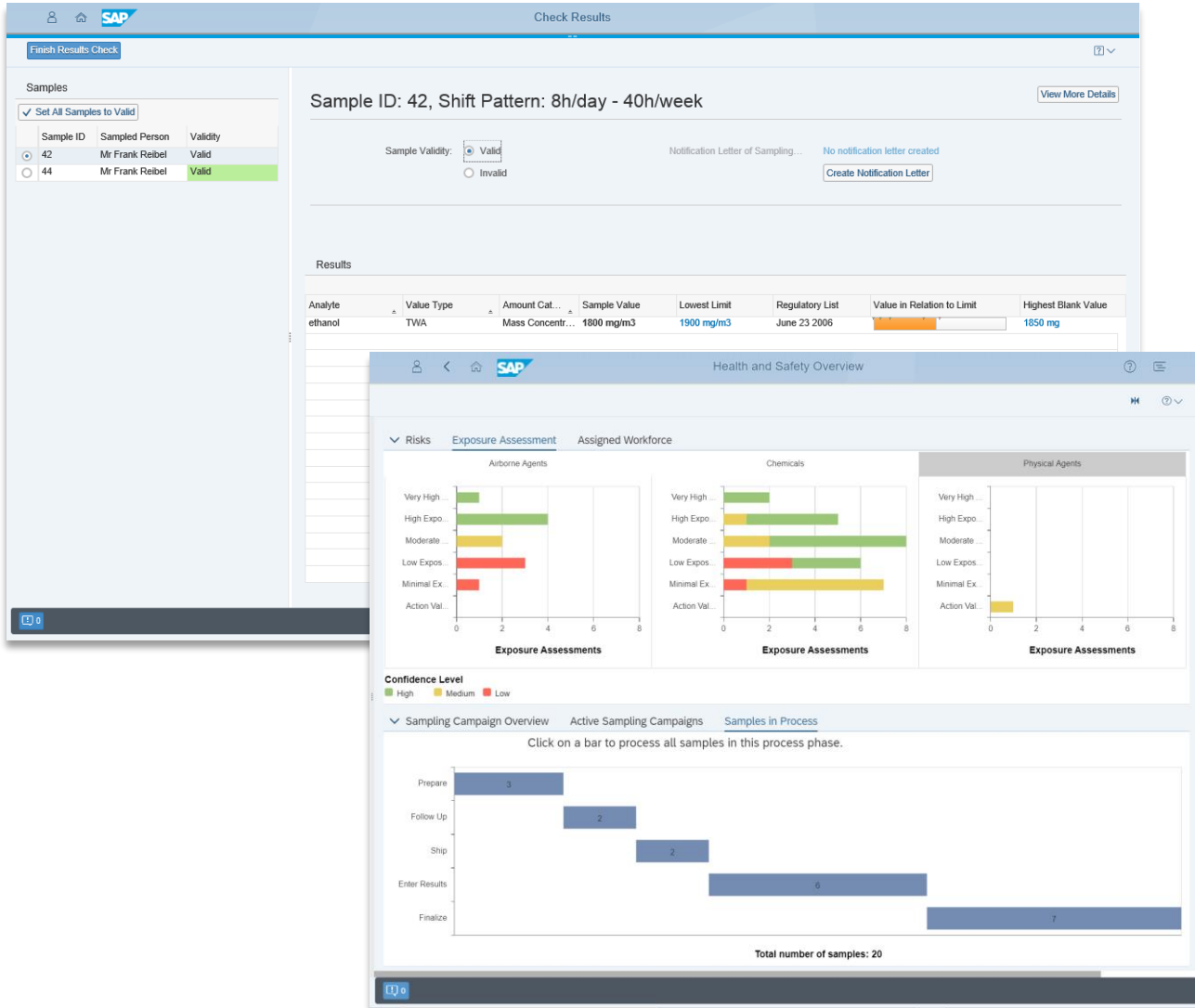
Dashboards



Drill Down Reporting



Workplace Sampling & Industrial Hygiene



Objective

Optimize Industrial Hygiene programs and the efficiency of workplace sampling and exposure assessment.

Capabilities

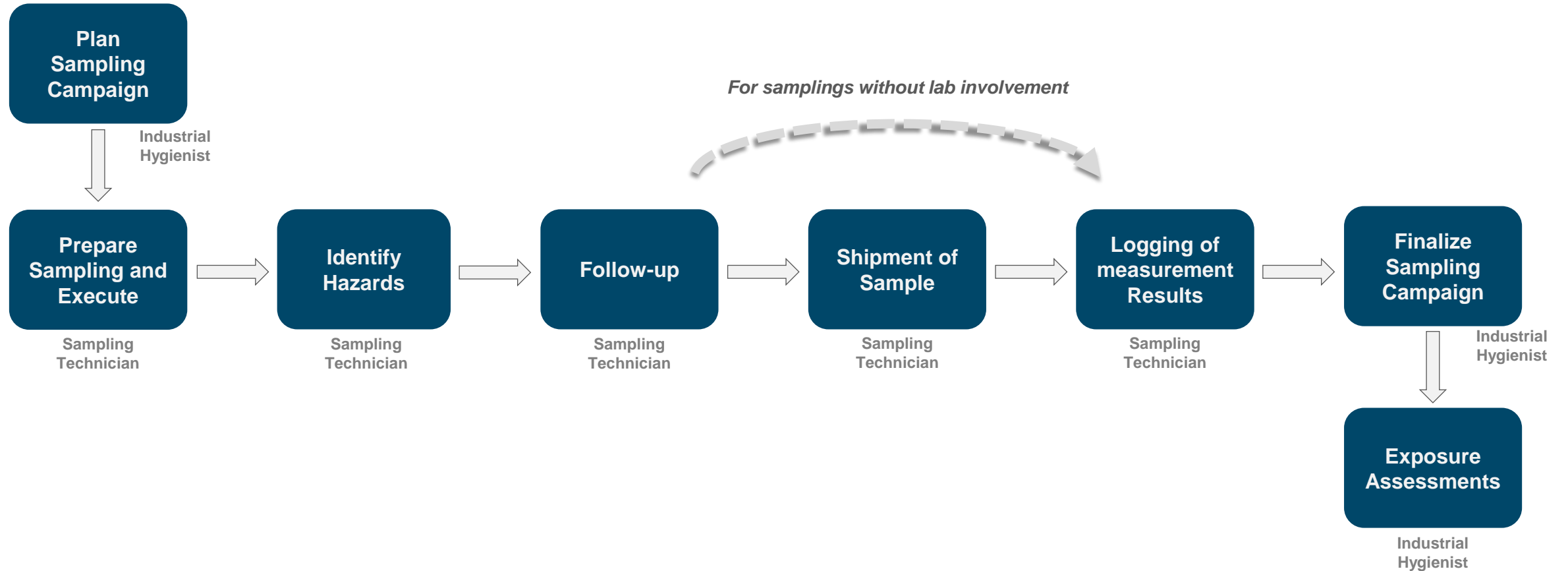
- Planning and tracking of sampling campaigns
- Documentation of industrial hygiene equipment calibration
- Collaboration with internal or external laboratories
- Managing industrial hygiene data and exposure analysis through qualitative and quantitative analysis embedded in the EHS risk assessment
- Automated comparison of sampling results versus occupational exposure limits (OEL)
- Managing similar exposure groups (SEG) and compiling personal exposure profiles

Benefit

- Visibility into all steps and chain of custody transfers in the sampling campaign
- Minimize industrial hazards to employees in order to keep them safe and healthy while ensuring regulatory compliance.

Workplace Sampling and Industrial Hygiene

Business Process



Workplace Sampling and Industrial Hygiene

Functional Components

Workplace Sampling

Sampling Campaign	Sampling Methods and Sampling Targets
Date / appointment planning (e.g. Outlook)	Equipment calibration
Field Sheet	Spreadsheet import of measurement data
Sampling of: <ul style="list-style-type: none">- Physical Agent- Airborne Agent- Chemicals	Monitoring Dashboards on sampling campaign




Exposure assessment

Qualitative and quantitative Exposure assessment	Sampling Methods and Sampling Targets
Chemicals with OELs	Chemicals with OELs
OELs adjustable for shift patterns	Adjust OEL for Shift Patterns
Automatic comparison of sample data with OELs	Dashboard on campaign monitoring
Option to include statistical analysis	
Exposure rating including confidence level	


Workplace Sampling and Industrial Hygiene Outputs

Forms



Workplace Sampling Field Sheet

Sample ID: 567



Sampling Method: Inhalable Dust Sampling

Location: UXT Packaging and Shipment Munich

Date: 29.10.2014

Start Time:

End Time:

Sampling Equipment Information

Sampling Equipment Type: Sampling Pump XYZ

Sample Equipment ID: PUMP45

Sampling Head Type: PM20 Cyclone SKC 334

Sampling Media Type: Paper Filter SKC 223412

Sample Media ID: X14567

Flow Rate Before Sampling: 4 l/min

Flow Rate After Sampling:

Sampled Person

Job: Shift Coordinator

Shift Pattern:

Employee Name:

Employee ID:

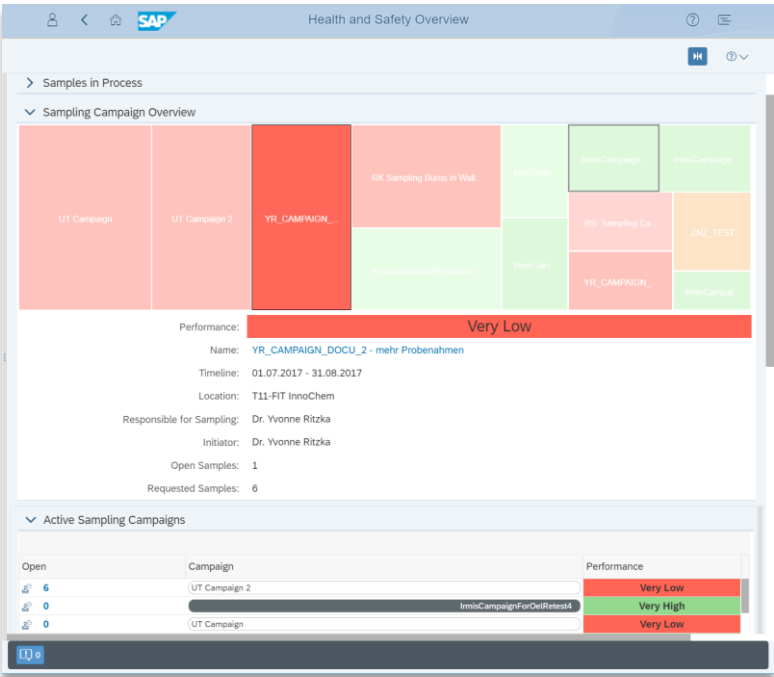
Protective Equipment

Respirator used (yes/no):

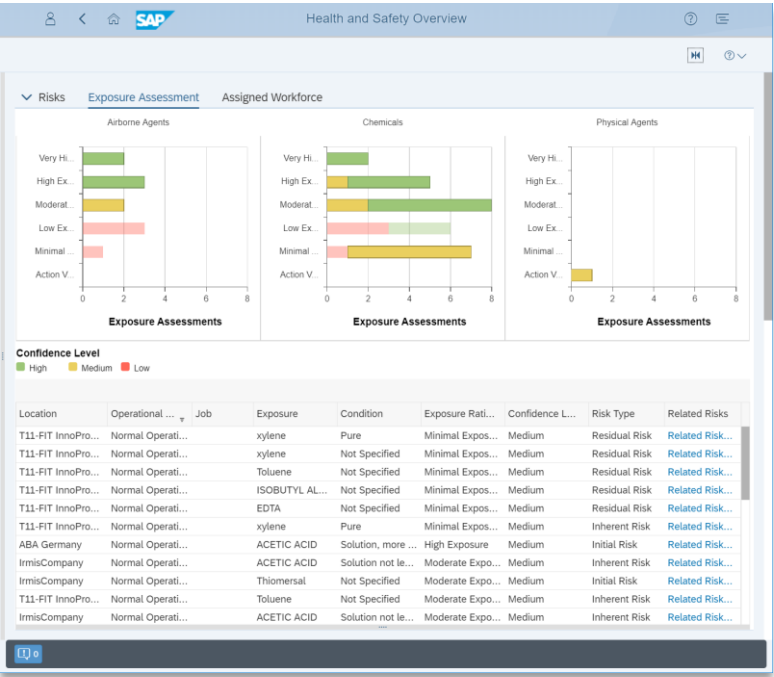
Type of PPE used:

Tasks during Sampling:

Dashboards



Drill Down Reporting



Occupational Health

The image displays two overlapping SAP web interface windows. The background window is titled 'Edit Medical Service' and shows a form for a patient named John Doe (Person ID: 0000000053, Birth date: 21.09.1999). It includes tabs for 'Questionnaire', 'Scheduling', 'Check Service', 'Close Medical Service', 'Additional Information', 'Service Overview', and 'More'. The 'Service Overview' tab is active, showing a table of 'Critical Diagnoses' with columns: Exam. date, Diagnosis, Category, and UsrDfndTxt. A table below shows a list of services with columns: Status, Created on, Health Surveillance Protocol..., Diagnosis, Serv. No., Q..., and Health center. The foreground window is titled 'Edit Examination Results' and shows a form for the same patient. It includes tabs for 'Additional Information', 'Historical Test Results', 'Import Medical Data', 'Previous Entry', 'Next Entry', and 'More'. The 'Historical Test Results' tab is active, showing a table of 'Laboratory Tests' with columns: Test descriptn, Phys. val., Unit, Normal range, Value ass., Status, and Final result. The 'Value ass.' column for 'Alcohol Breath Test' is highlighted with a red box and contains the word 'Significant'.

Exam. date	Diagnosis	Category	UsrDfndTxt
07.09.2018	Salmonella enteritis		

Status	Created on	Health Surveillance Protocol...	Diagnosis	Serv. No.	Q...	Health center
▲	07.09.20...	Fracture of nasal bones		43		Emergency Service Palo Alto
▲	07.09.20...	Noise		42		
▲	07.09.20...	Job Protocol Welder w...		41		
▲	07.09.20...	Pre-employment Welder	Salmonella enteritis	40		
●	05.09.20...	Job Protocol Welder w...		39		

Test descriptn	Phys. val.	Unit	Normal range	Value ass.	Status	Final result
Alcohol Breath Test	0.02	%	0 - 0.03	Significant		
Amphetamine Urine Test		ng/mL	negativ			
Marijuana Urine Test		ng/mL	negativ			

Objective

Provide a repository to track the occupational health history of employees, and drive a risk-based Occupational Health process with integration back to central HR data.

Capabilities

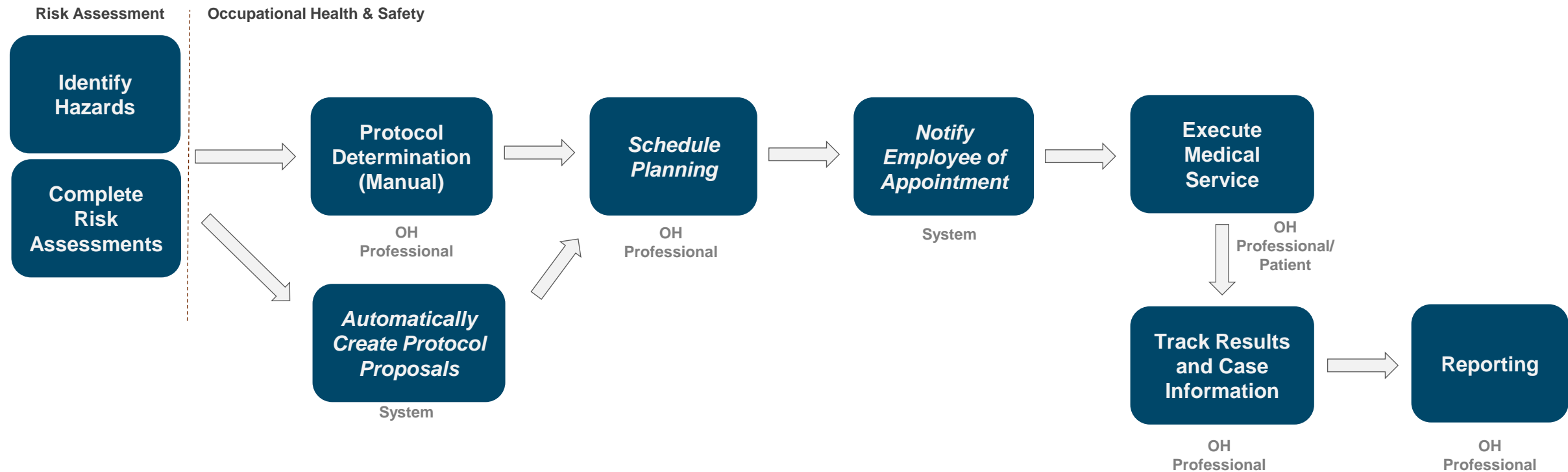
- Define Health surveillance protocols including laboratory and physical tests and questionnaires.
- Assign protocols to individuals manually or automatically based on the work area and hazards to which they will be exposed.
- Schedule appointments and send documentation/questionnaires to the patient. Enable ad-hoc consultations.
- Capture examination results, diagnoses, follow up events, work restrictions in the central patient record

Benefit

- Central list of health surveillance protocols to drive the scheduling of medical services and testing for the appropriate personnel
- Visibility to the identified risks that require medical monitoring

Occupational Health & Safety

Business Process



Occupational Health & Safety

Functional Components

Medical Service Initiation

Medical Service Protocol

Brief Consultation

Proposal list of surveillance protocols from EHS Risk Assessment



Medical Service Processing

Laboratory Tests	Physicians	Diagnoses
Physical Tests	Health Surveillance Protocols	Documents
Questionnaire	Case History	Medical Measures
Examinations		
Health Centers	Vaccinations	Restrictions



Medical Service Outputs

Schedule

Protocol log

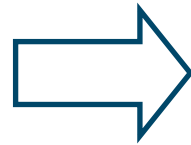
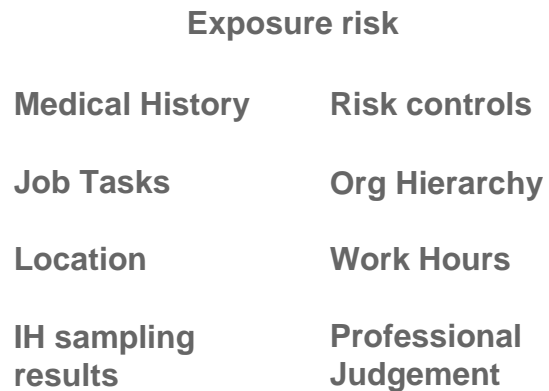
Medical certificate

Flexible Reporting

Restrictions

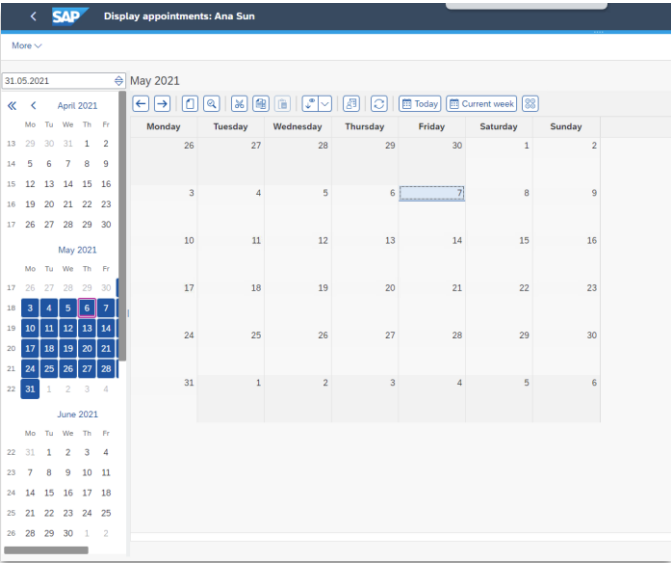
Key Feature – Automated Proposal of Surveillance Protocols

Based on data from exposure risk assessments, job safety analysis, and organizational hierarchies, the system can propose a list of specific individuals who may need to be placed in a health surveillance protocol to monitor health risks.

[illegible]

Occupational Health & Safety Outputs

Appointment Calendar



Medical Service History

The screenshot shows the SAP 'Edit Medical Service' interface for a patient named William Grandy. The interface is divided into several sections: Personal Data, Medical Service Data, and Critical Diagnoses. The Personal Data section includes fields for Person ID, Birth date, Job Title, and OrgUnit. The Medical Service Data section includes a table of services with columns for Service Number, Examination, Category, Exam. date, Result values, and Date of result. The Critical Diagnoses section is currently empty.

Service	Case History	Protocol/General Examination	Vaccination	Examinations	Diagnoses	Consultation	Med. Measures	Person	Restrictions	Documents	Close
11	Urin status / Multiple strip test										
11	Complete Blood Count										
11	Blood Pressure										
11	BMI										
11	Physical Examination										
11	Lung function										

Medical Certificate

The screenshot shows the SAP 'Medical Certificate' form, titled 'Arbeitsmedizinische Vorsorgeuntersuchungen - Ärztliche Bescheinigung'. The form is divided into several sections: Angaben zur Person (des/deres Versicherten), Anschrift des Arbeitgebers, Angaben zur Beschäftigung, and Angaben zur Untersuchung. The form includes fields for personal data, employer information, employment details, and examination results. The form is currently in a 'Print Preview' state, showing document 1 of 1.

Arbeitsmedizinische Vorsorgeuntersuchungen - Ärztliche Bescheinigung

Angaben zur Person (des/deres Versicherten)

Rentenversicherungs-Nr.:
Familienname: Doe
Geburtsname: John
Geburtsdatum: 12.02.1987
Straße/Hausnummer:
Vorname: John
Staatsangeh.:
Anschrift des Arbeitgebers:
Name:
Straße:
Postleitzahl/Ort:
Angaben zur Beschäftigung:
Krankenkasse:
Einstellung am: 03.09.2018
Grund der Untersuchung: Change Management
Organisationsinheit: Change Team
Planstelle:
Tätigkeit:
Beginn/Ende der Tätigkeit:
Angaben zur Untersuchung:
Die Untersuchung: Initial examination
am: 07.09.2018
ergab:
Befinden: None under certain conditions
bis:
Nächste Untersuchung:
Bemerkung:

Audit Management

The screenshot displays the SAP Audit Management application interface. The main window is titled 'Change Audit Plan' and features a sidebar with a tree view of audit components. The main area has tabs for 'Basic Data', 'Texts', 'Contact Person', 'Status', and 'Admin. Data'. The 'Basic Data' tab is active, showing fields for 'Audit Plan', 'Description', 'Valid From', 'Valid To', 'Search Criteria', and 'Status'. An 'Audit_Preview.pdf' window is overlaid on the main area, displaying a form titled 'EH&S Audit' with fields for 'Audit Type', 'Date', and 'Location'. Below these fields is a table for 'Audit Questions' with columns for 'Q.No', 'Question', 'Finding (Compliant/Non-Compliant)', and 'Observations'. The table contains three rows of questions related to EH&S Leadership and Corporate Policy.

Q.No	Question	Finding (Compliant/Non-Compliant)	Observations
1	General Requirements		
1.1	EH&S Leadership		
1.1.1	Current copies of the EH&S Corporate Policy and Workplace Poster are posted on site and accessible on the portal.	<input checked="" type="radio"/> No Finding <input type="radio"/> Observation <input type="radio"/> Finding <input type="checkbox"/> Needs Attention	Current hard copies of the EH&S Corporate Policy must be posted on site and OSHA Workplace Poster for US sites must be posted on Safety Bulletin Board. Employees must demonstrate where they can access information on or at posted location

Objective

Comprehensive auditing activities across multiple business domains and processes

Capabilities

- Complete planning of audit programs and individual audits
- Audit Scheduling and Execution
- Supporting different Audit Types (OSHA, ISO, API RP75 GMP, etc)
- Offline processing of Audits
- Audit Valuation
- Corrective and Preventive Actions (CAPA)
- Reporting and analysis

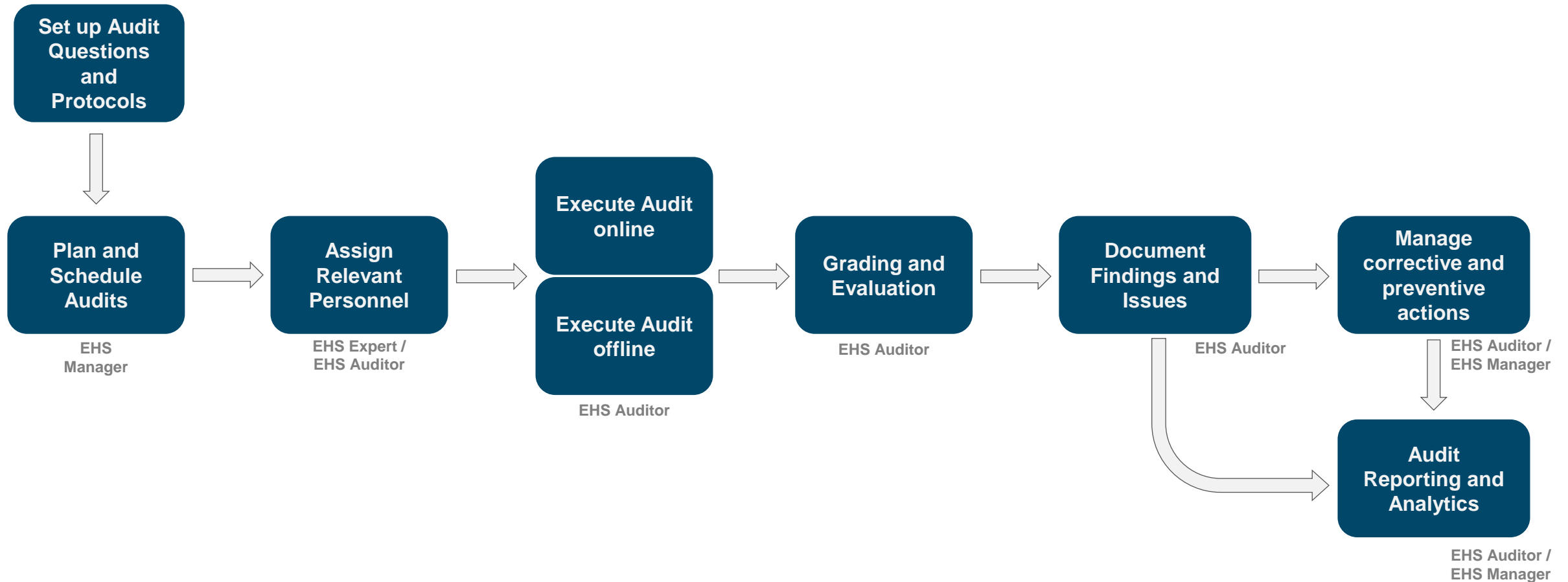
Benefit

- Simplify communication with audit partners in all phases of the process by leveraging different technology within the application
- Integrate auditing activities across multiple applications for different business requirements
- Reduce the cost and complexity of auditing

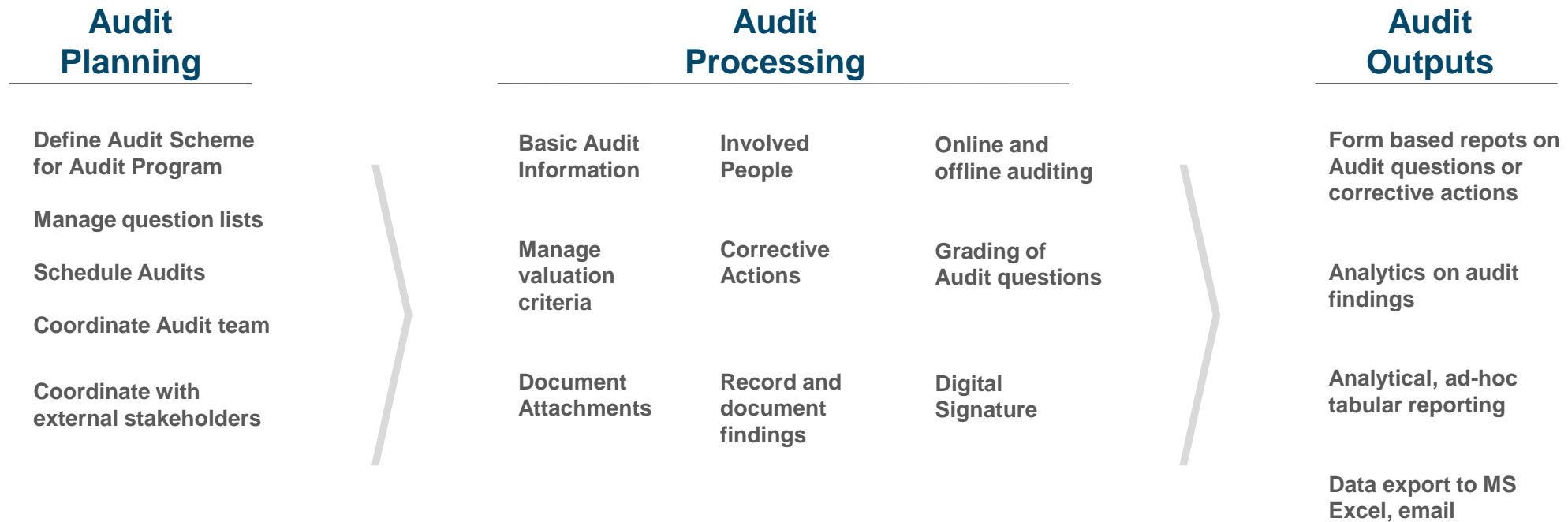
**Note: The Audit Management application is a component of the core S/4HANA Enterprise license and is not included within SAP EHS*

Audit Management

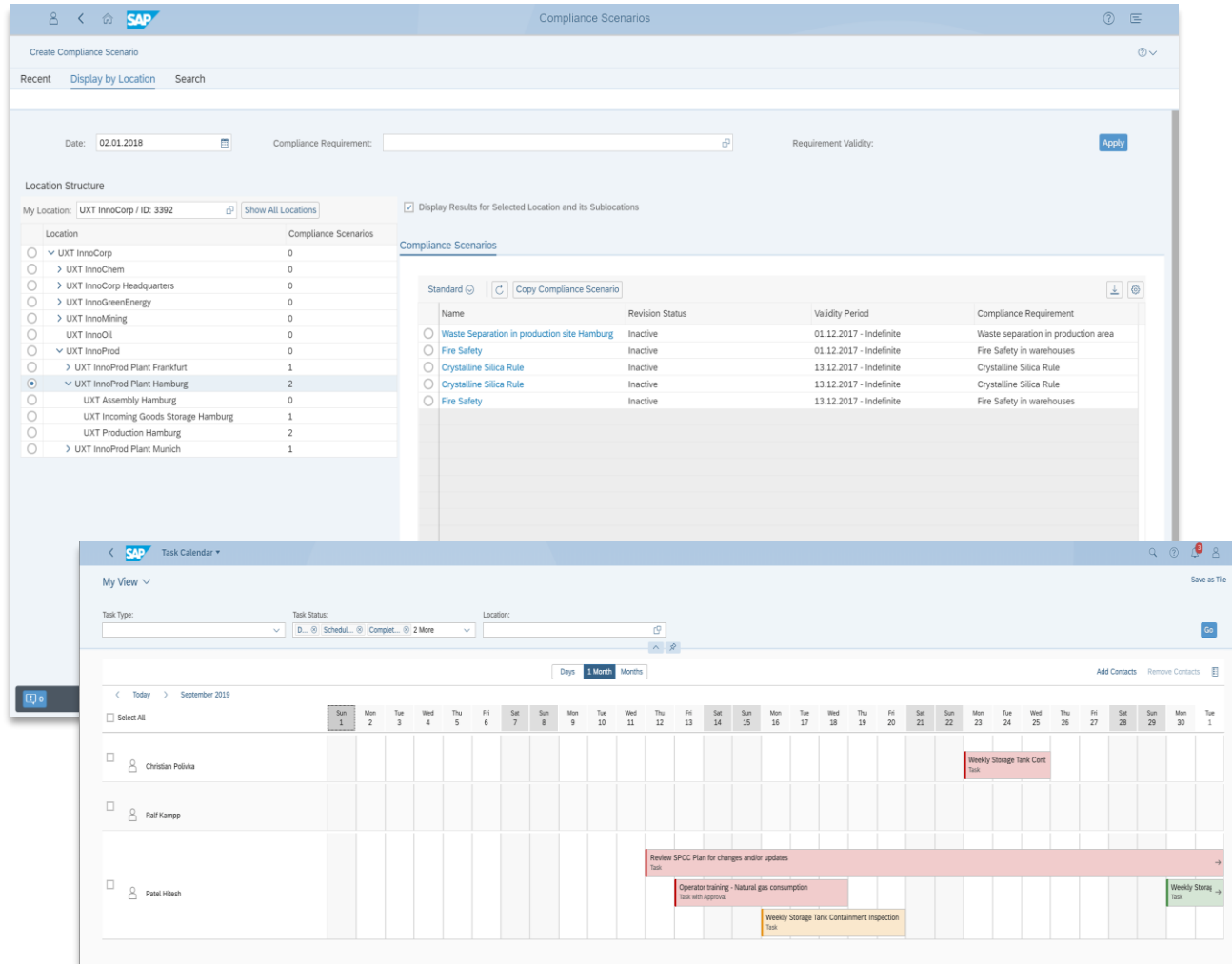
Business Process



Audit Management



Regulatory and Permit Compliance



Objective

Manage a central legal/permit/policy requirement registry and consistent process to support the full lifecycle of compliance driven tasks and exceptions.

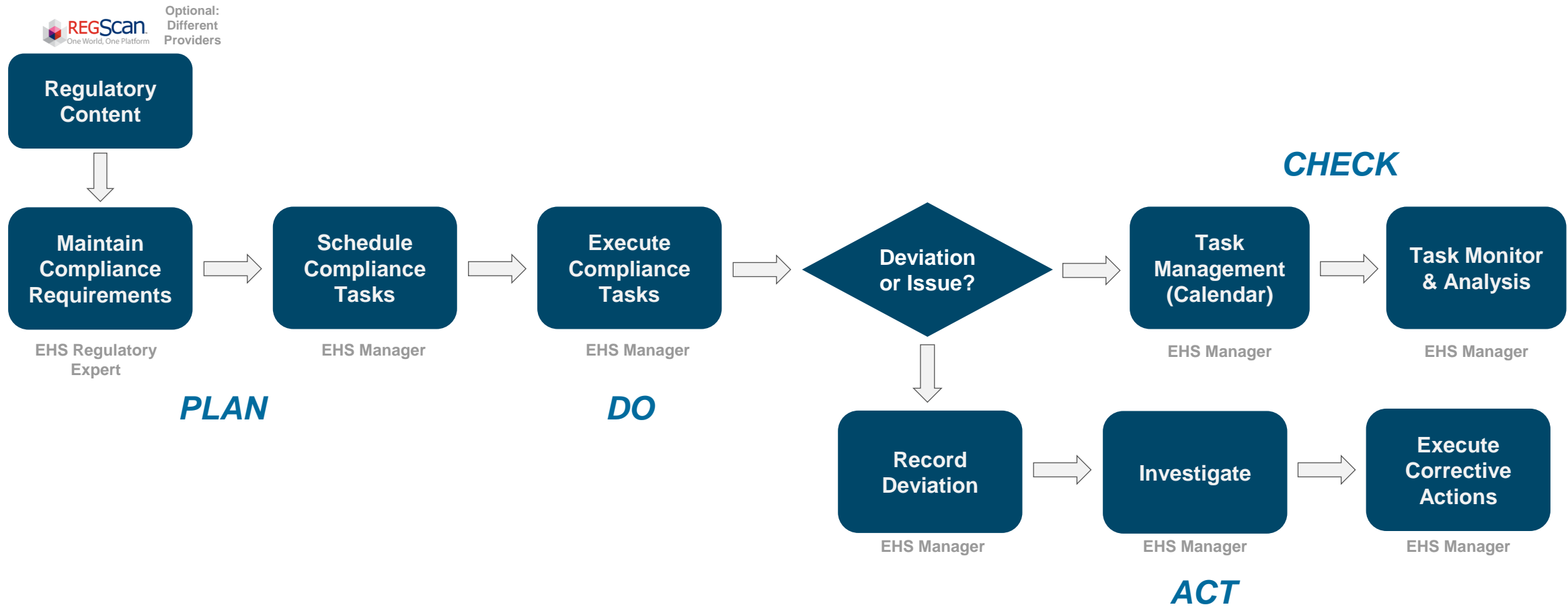
Capabilities

- Automated import applicable regulatory requirements from content providers
- Maintain a comprehensive EHS legal/permit/policy requirement registry
- Manage all compliance related tasks using the Task Calendar and Task Analysis app
- Record, investigate and trigger corrective actions for compliance deviations

Benefit

- Ensure transparency on compliance requirements and improve compliance performance.
- Reduce Compliance risk and ensure auditability

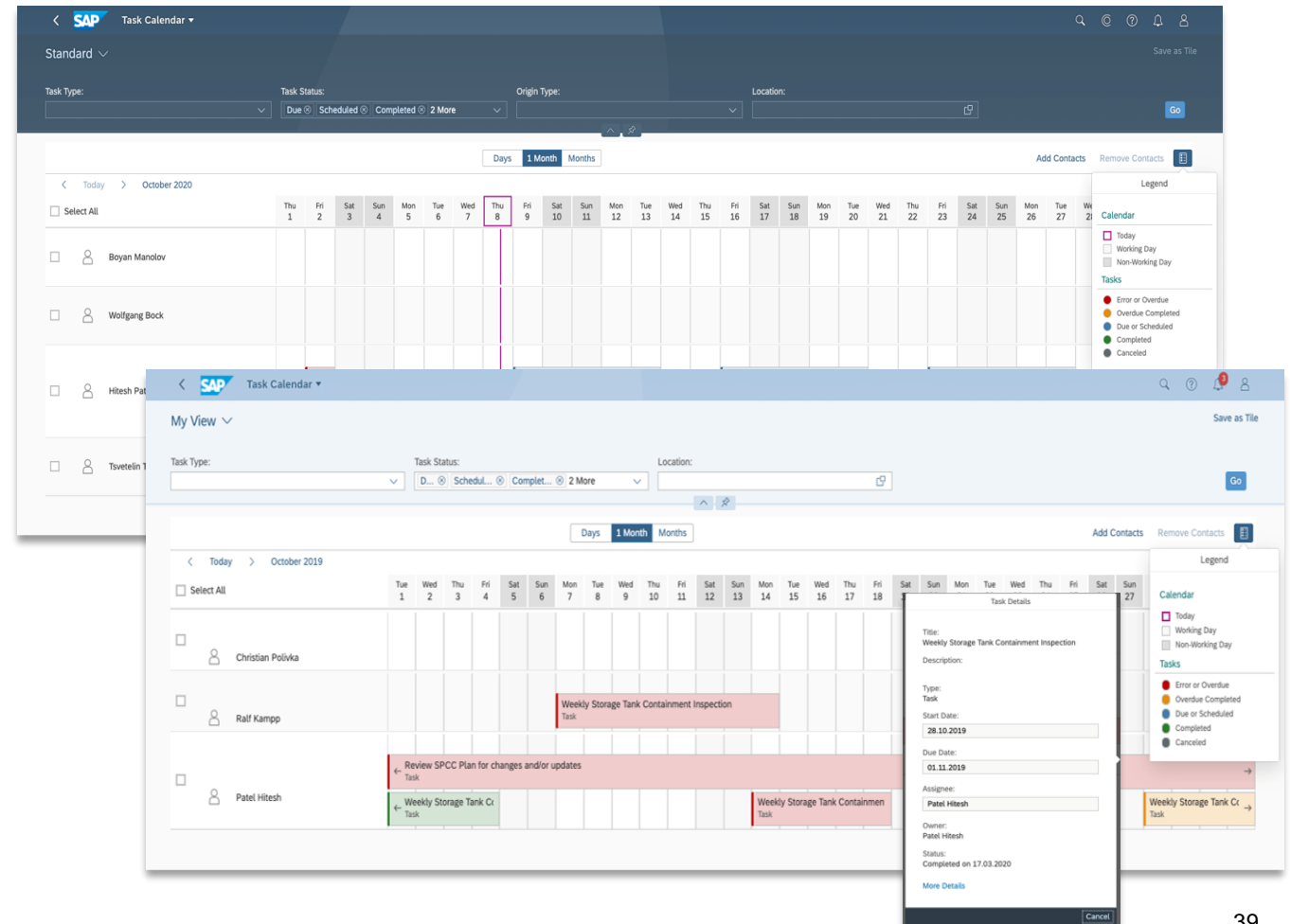
Regulatory and Permit Compliance Business Process



Key Feature – EHS Task and Compliance Calendar

Provides a comprehensive calendar-based view for all tasks being processed in SAP EHS, not only the ones related to compliance assurance. This app is available through traditional portal screens or on mobile devices.

- Tasks can be filtered based on Location, Status and Type
- Ability to reassign the tasks by dragging and dropping it between individual users
- Ability to change start/end date by stretching or shrinking the tasks
- Daily or Monthly views are available



Regulatory and Permit Compliance

Functional Components

Compliance Requirement

Import new/updated regulatory requirements from content provider

Manage regulations/permits/internal requirements

Assign validity areas (countries/regions) to requirements

Document attachments

Revision management

Compliance Scenario

Assignment of Compliance Requirement to locations

Data collection planning

Manage workplace sampling

Schedule compliance tasks

Task Management

My Inbox app for completing compliance task

Task Calendar for individuals or teams

One time or recurring tasks.

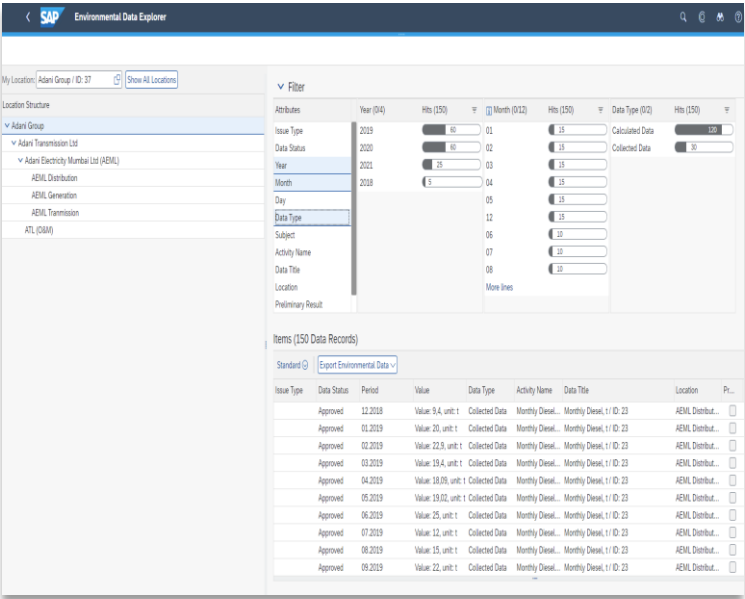
Document attachments

Task monitoring

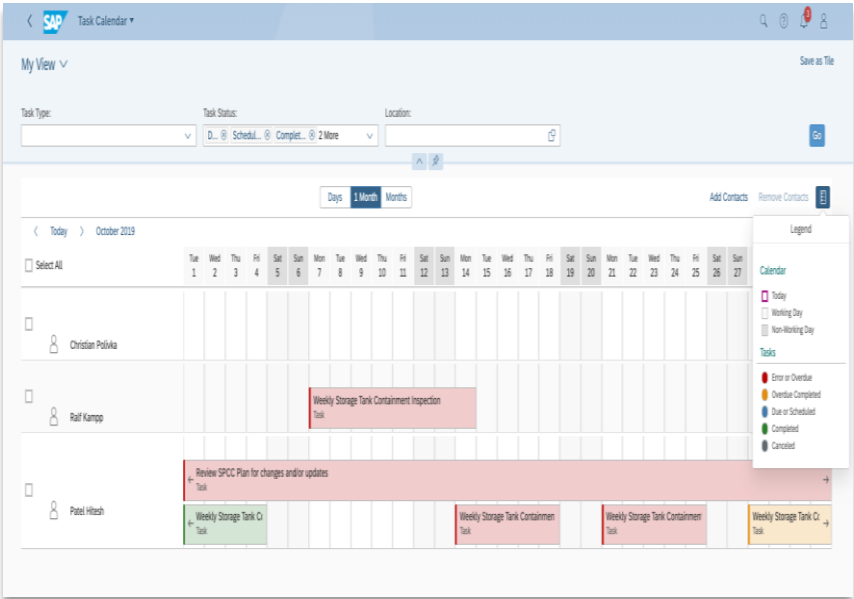
Task Analytics

Regulatory and Permit Compliance Outputs

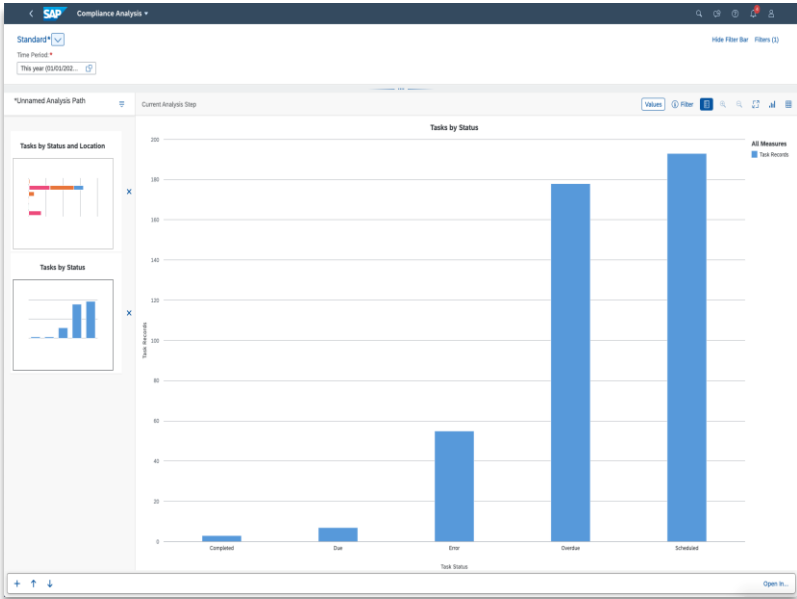
Data Explorers



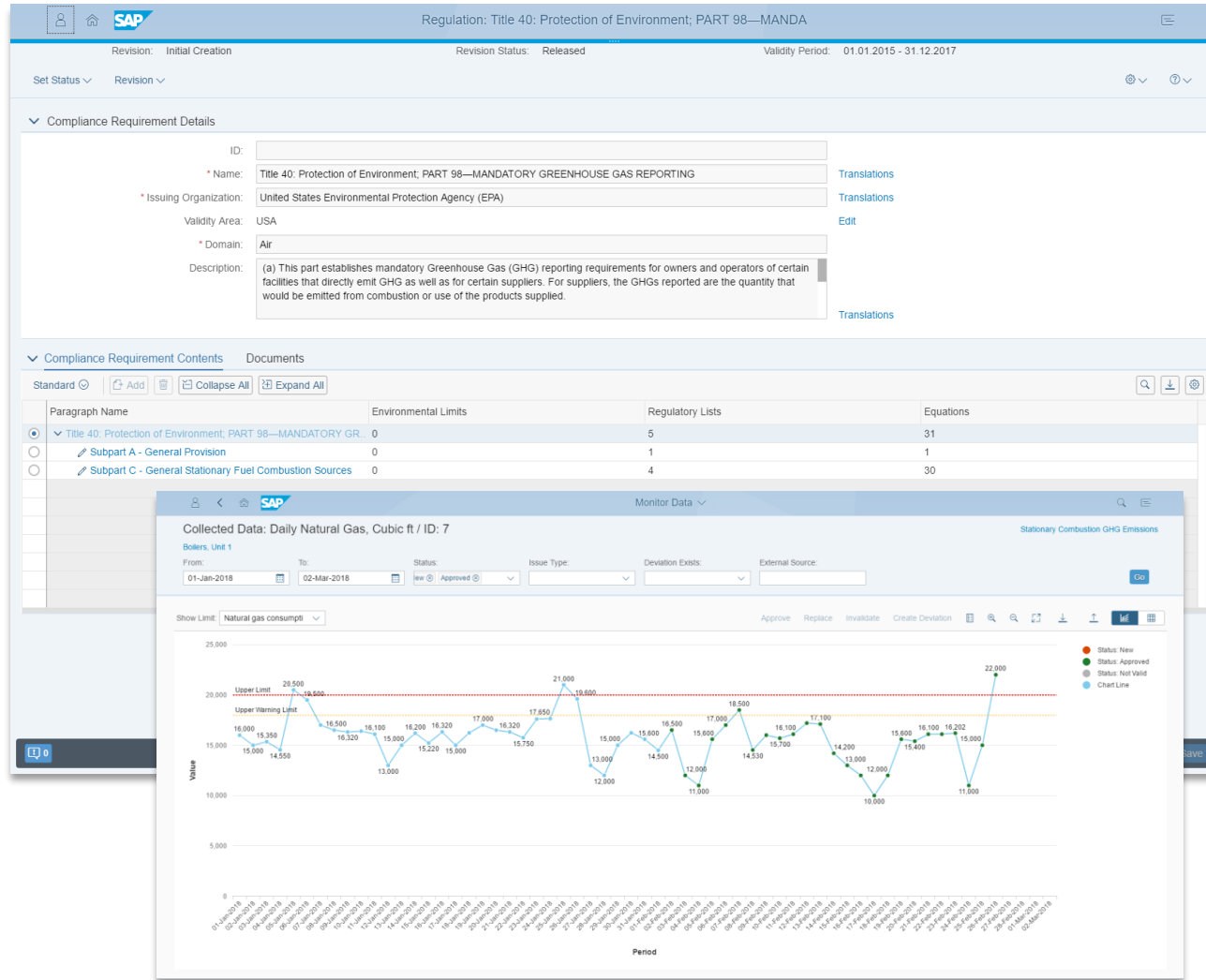
Task Calendar



Drill Down Reporting



Emissions Management



Objective

Reduce your environmental impact with a comprehensive emissions management

Capabilities

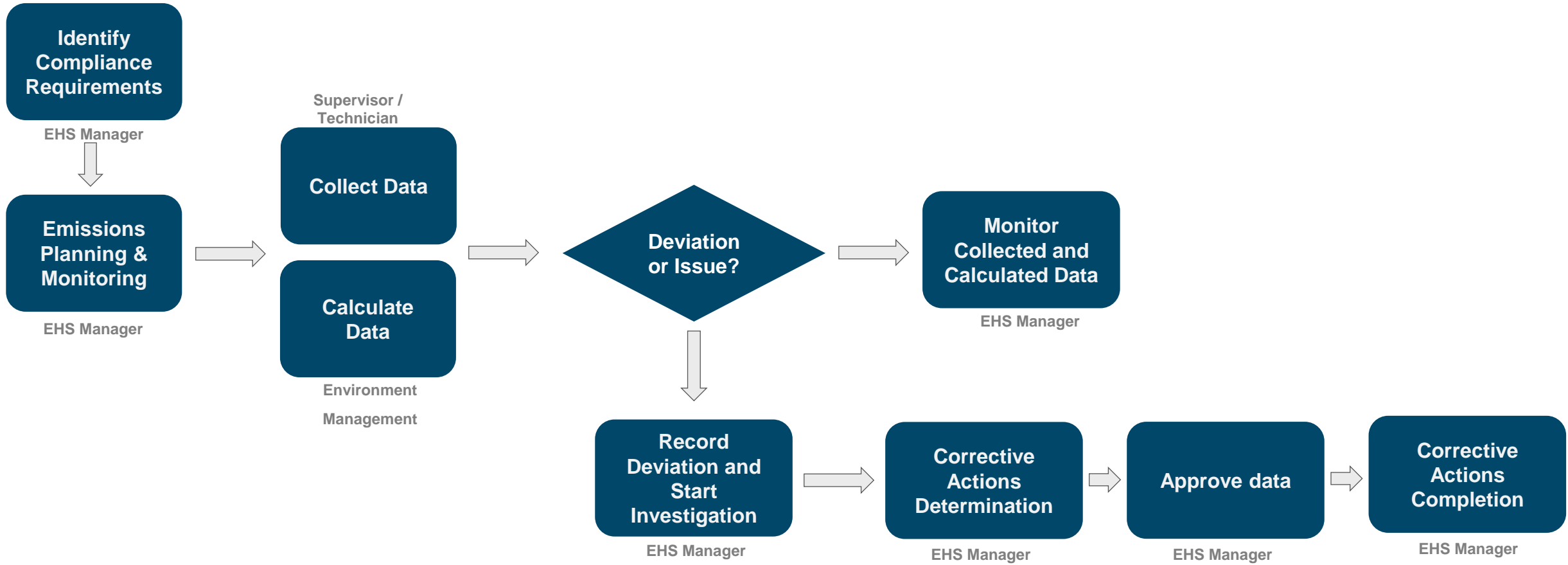
- **Manage all types of emissions resulting from operations such as hazardous air pollutants, greenhouse gas (GHG), and other air or water emissions to fulfill legal requirements**
- **Calculate and aggregate emissions while fostering proactive data transparency & monitoring**
- **Detect and communicate deviations, including investigations and tracking follow-up activities**

Benefit

- **Reduce risk of environmental non-compliance and penalties**
- **Ensure license to operate**
- **Improved calculation accuracy and transparency**

Emission Management

Business Process



Emission Management

Functional Components

Identify Requirements

Structure requirement data from regulations, permits, or policies

Environmental limits

Regulatory lists

Equations

Track changes with revision handling

Notifications for new revisions of compliance requirements

Plan Compliance Activities

Link applicable requirements to locations and equipment

Plan data collection, calculations, sampling and aggregation activities

Definition of limits checks

Scheduling and processing of compliance tasks

Track changes with revision handling

Collect and Calculate Data

Notification-driven data collection

Data based on hourly, daily, monthly and yearly data periods

Options for automatic data collection

Aggregation based on location hierarchy

Equations and calculations based on standards such as AP-42 or greenhouse-gas emissions

Monitor Data

Data issues monitoring and handle : missing data, limit exceedances and warnings

Data analysis with Environment Data Explorer

Data Export

Forecast Emissions

Process Deviations

Identify deviations

Investigation

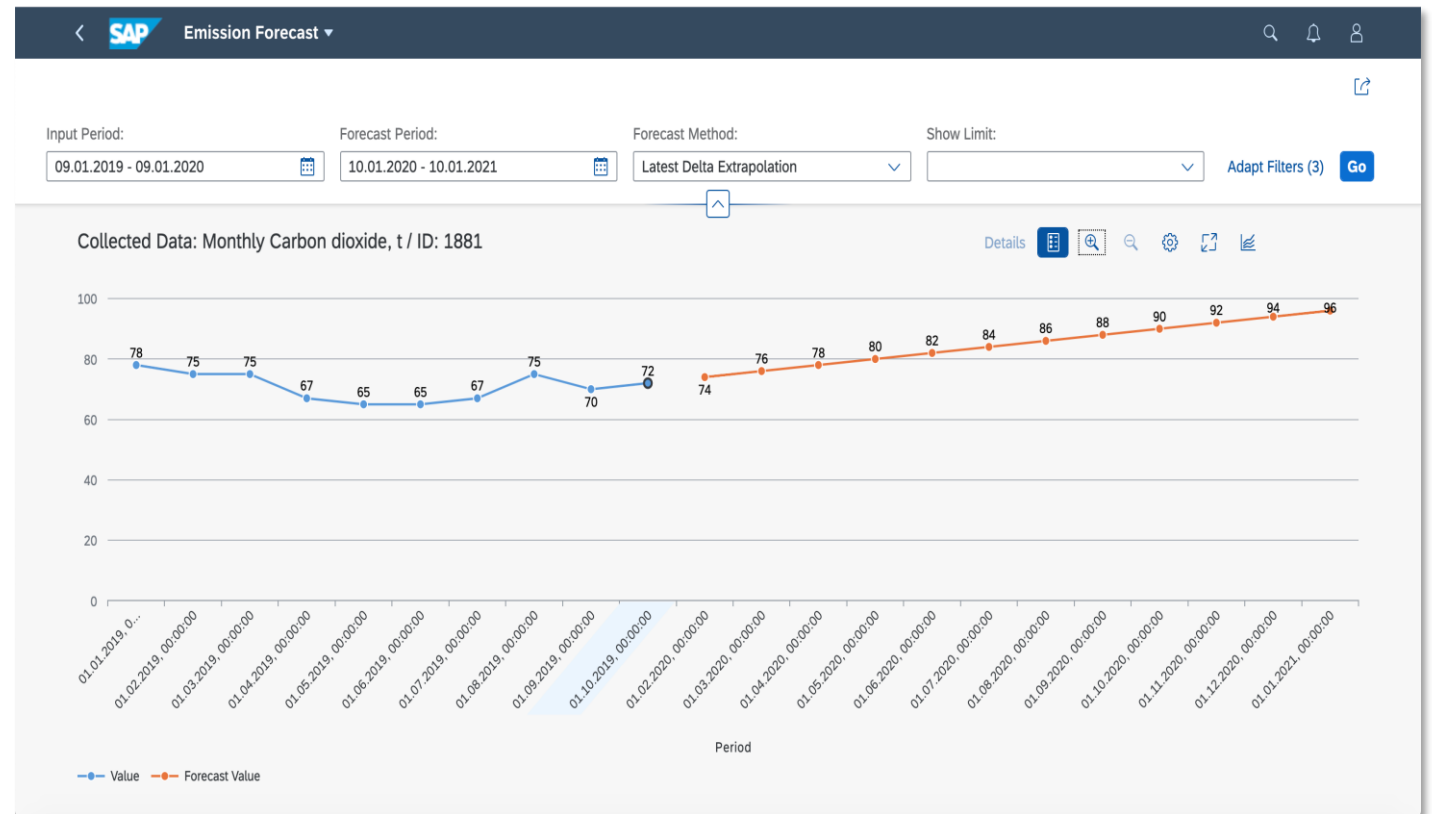
Corrective and preventive measures

Deviation reports

Key Feature – Emissions Scenario Forecasting

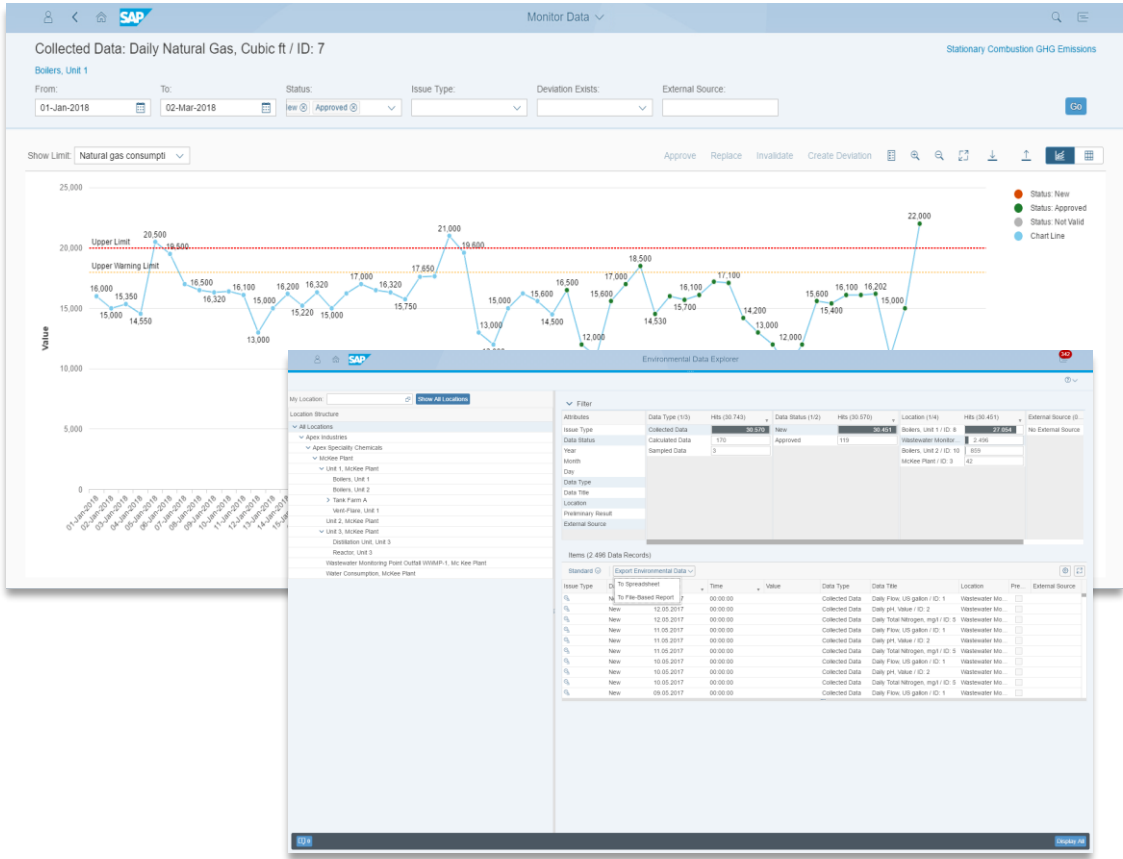
EHS Environment Management leverages the embedded analytics tools to provide a basic view of extrapolated emissions amounts for a specific future time period.

- User-defined input time period providing the data on which the forecasts are calculated
- The forecast period is a period in the future for which values will be forecasted
- Multiple forecasting methods can be defined
- The forecasted result is displayed in a graphical view along with actuals and limit values
- Two customizable forecasting calculations, Latest Data Extrapolation and Double Exponential Smoothing Method, are delivered in the standard solution

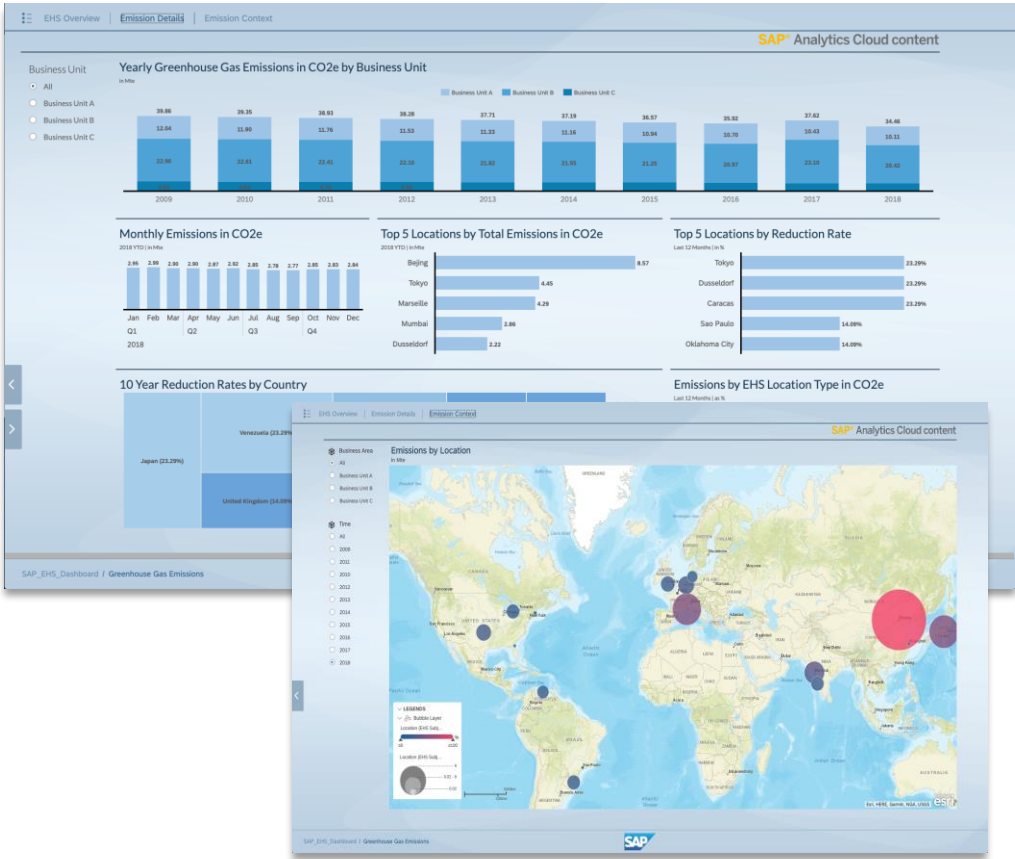


Emissions Management Outputs

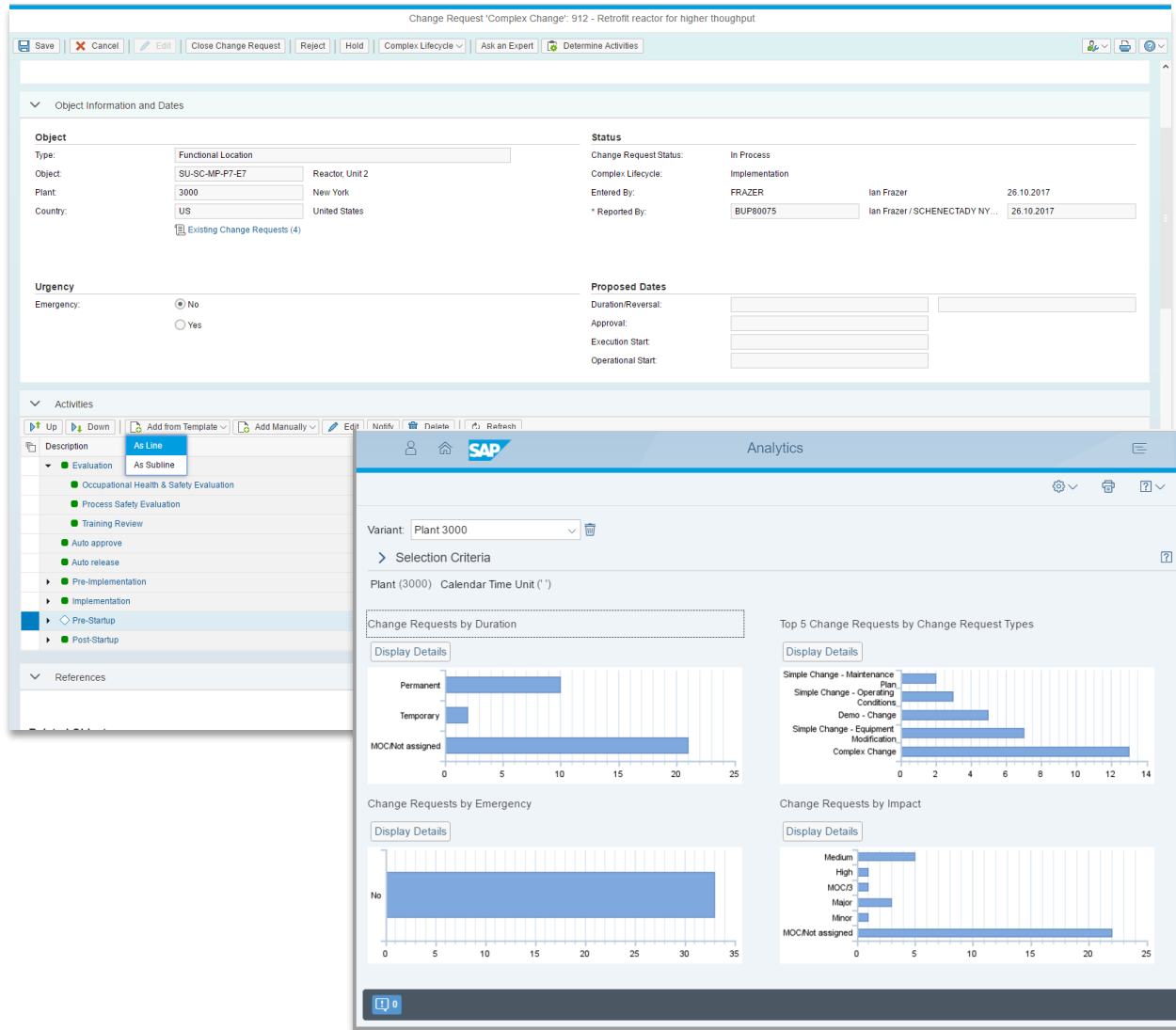
Trend Monitoring



Analytics



Management of Change



Objective

Provide system to execute and monitor change effectively within an organization so it does not lead to unknown or uncontrolled operational risk.

Capabilities

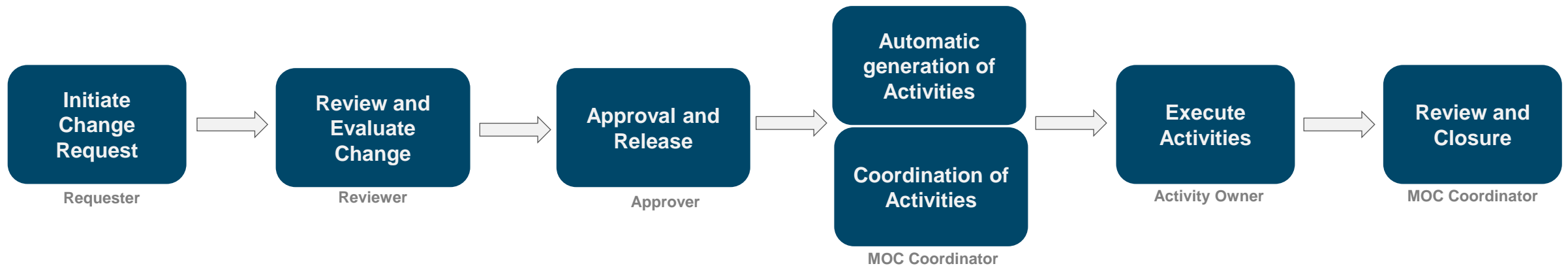
- Easy-to-use Change Request screen for field users
- Highly configurable based on a business rules engine that drives notifications and approval process
- Adaptable to any type of change – PSM, PHA, PSSR, procedural, what-if, etc
- Ability to pull in expert input to evaluate change and drive risk assessments
- Tracks all activities and tasks to ensure the approved change is completed properly
- Closed-loop integration with core ERP to reduce data entry, ensure accuracy

Benefit

- Implement operational changes with full confidence that potential risks have been assessed and controlled
- Rationalize and automate management-of-change processes to reduce manual effort, wasted time, and error

Management of Change

Business Process



Management of Change

Functional Components

Change Request Initiation

Change Request Entry Form

Change Request Quick Entry Form

Main Reference Object

Questioners

Attachments



Change Request Processing

Change Request Definition	Attachments and Links	Activity
References	Questionnaire	Tasks
Involved People	Status Log	Digital Signature
Free Text Search	User Status	Mass Change of Assignments
New Ref .Object	Mandatory Questions and Controls	Automatic notification
EHS Risk Assessment	Engineering Change Record	Plant Maintenance notification



Change Request Outputs

Change Request Output Form

Activity Output Form

Worklist Output

Data export to MS Excel

Analytical Dashboard

Management of Change Outputs

Forms

Change Request Technical Design : 2000

Replace filter

Object

Type: Functional Location

Object: ICE-M1 Mixer 1

Plant: 0001 Werk 0001

Country: DE Germany

Change Request States

Status: Closed 07.05.2013

Entered By: I033468 Matt Herzog

Created on: 07.05.2013

Reported By: 628 Matt Herzog /

Reported on: 07.05.2013

Urgency

☐ Emergency

Change Definition

Impact: Major

Description: Replace filter

Detailed Description

null

Proposed Solution

null

Notes

07.05.2013 20:35:17 Matt Herzog

I added more information to justification.

07.05.2013 20:18:02 Matt Herzog

Looks good

Search Hitlists

Worklist for Change Request and Activity

New Worklist

Change Worklist

Submitted - 2 (92) Temporary MOCs (3) Assigned to me (153) In Preparation (3) Awaiting Approval (10) Submitted (91) Approved (4) In Process (57) Rejected (2) On Hold (0)

Change Request : Emergency (0) Complex MOC in Pre-Startup phase (1)

Activity : Assigned to me (350) Activities under Review (1) Created (0) Notified (0) In Process (0) Rejected (0) On Hold (0) Blocked (0)

View: * [Standard View]

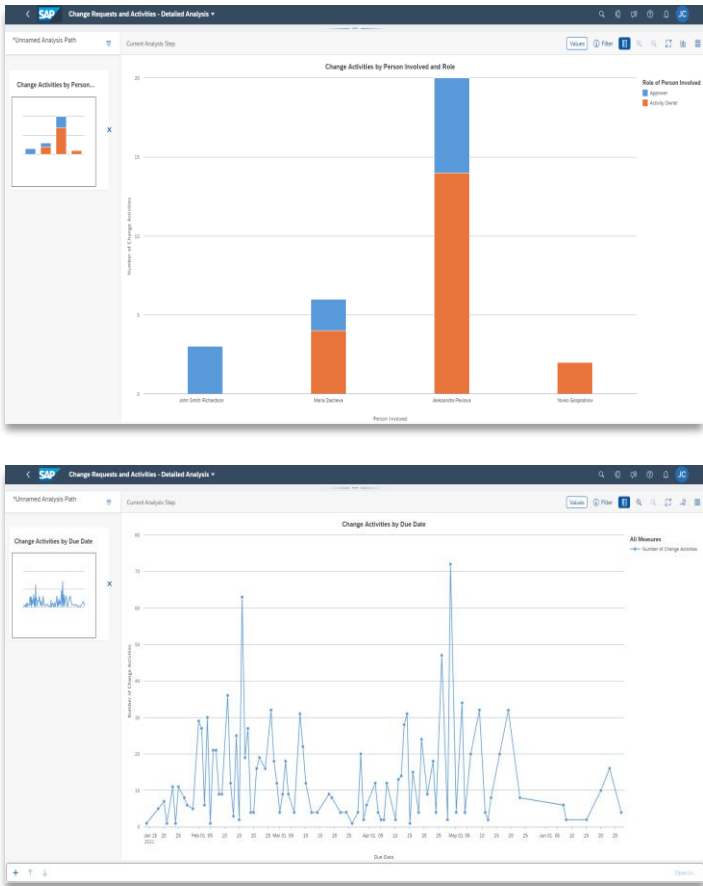
Display Change Log

Export

Refresh

<input type="checkbox"/> Status	Activity Description	Number	Due Date	Type Description	Responsible	Change Request Nu...	Change Request D...
<input type="checkbox"/> Created	Facility Manager Ap...	3394	24.08.2015	Approval with conditio...		601	Upgrade Pump
<input type="checkbox"/> Created	Maintenance and Re...	3393	24.08.2015	Review Task with cond...		601	Upgrade Pump
<input type="checkbox"/> Notified	Implement Equipme...	3392	24.08.2015	Task with automatic no...		601	Upgrade Pump
<input type="checkbox"/> Approved	Supervisor Approval	3382	24.08.2015	Approval task with aut...	Robin Haas	601	Upgrade Pump
<input type="checkbox"/> Notified	Implement Equipme...	3381	20.08.2015	Task with automatic no...		591	Upgrade Pump
<input type="checkbox"/> Approved	Supervisor Approval	3372	20.08.2015	Approval task with aut...	Robin Haas	591	Upgrade Pump
<input type="checkbox"/> Notified	Occupational Health...	3323	11.07.2015	Approval task with aut...		584	test
<input type="checkbox"/> Notified	Risk Assessment	3322	11.07.2015	Task with automatic no...		584	test
<input type="checkbox"/> Created	Evaluation	3321	11.07.2015	Phase		584	test
<input type="checkbox"/> Completed	Final Closure	3305	11.07.2015	Phase		583	test
<input type="checkbox"/> Completed	Preparation	3304	11.07.2015	Phase		583	test
<input type="checkbox"/> Completed	Evaluation	3270	11.07.2015	Phase		583	test
<input type="checkbox"/> Created	Implementation	3261	11.07.2015	Phase		582	test
<input type="checkbox"/> Created	Startup and Closure	3260	11.07.2015	Phase		582	test
<input type="checkbox"/> Completed	Auto approve	3259	11.07.2015	Auto-complete		582	test
<input type="checkbox"/> Completed	Auto release	3258	11.07.2015	Auto-complete		582	test
<input type="checkbox"/> Notified	Documentation upda...	3256	11.07.2015	Task with conditional n...		582	test
<input type="checkbox"/> Notified	Maintenance Notific...	3255	11.07.2015	Task with conditional n...		582	test
<input type="checkbox"/> Notified	Operator training	3254	11.07.2015	Task with conditional n...		582	test
<input type="checkbox"/> Created	PSSR	3253	11.07.2015	Task with conditional n...		582	test
<input type="checkbox"/> Created	Finalization	3252	11.07.2015	Task with conditional n...		582	test

Reporting



Maintenance Safety & Permit to Work

SAP

Create Maintenance Order: %0000000000

Check Entries Set User Status Set System Status Additional Functions You can also

Order: %00000000001 Description: Pump maintenance Order Type: PM01, Maintenance order Technical Object: 210100093 System Status: WCM CRTD MANC NTUP User Status: INIT 0 Document(s)

General Data Location Data Organizational Data Operation Data Relationships Object List Costs Documents Permits Safety Plan

Long Text:

General Data

Description: Pump maintenance Priority: Required Start: 07.11.2017 Required End: 07.11.2017

Technical Object: 210100093 Cooling Water Circulation Pump-3 Technical Object Type: Equipment

Material: Assembly: Assigned Notification: Assign Notification Task List: Assign Task List

Maintenance Activity Type: 001 Inspection

Responsibilities

* Work Center: RES-0100 Mechanics Work Center Plant: 1010 Werk 1 - DE Person Responsible: Planner Group: 920 PM-Planner Me

Order: 810728 Order Type: PM01 Maintenance Order

Date: 04.24.2012 Job Card: 108701 Copy Page: 1

Start date: 04.24.2012 High End date: 04.24.2012

Priority: 2 LIMA REL. PPS. MANC PMS. SETO TTA.

Status: SU-GC-MP-PF-B1 Unit 2 Cooling Tower Pump 1 Room: PM plant 3000

Equipment: 1080782 Mechanical maintenance Main plan item

Assembly: London

PM planner grps: 031

Main work center: MECHEMT 3000

Maintenance plan: Revision number: Main plan item

1-schedule for assessment perform a new risk assessment

Safety Plan

Related Risks:

- Electrical Hazard
- Chemical Liquid
- Welding Work
- Noisy Operations

High Noise Level

Planned Safety Measures

Operations and Safety Measures

Operation 010

Pair of Leather Gloves

Read and understand _____

Objective

Leverage an integrated process between Asset Management and EHS to communicate pertinent safety risks and control the maintenance work being performed

Capabilities

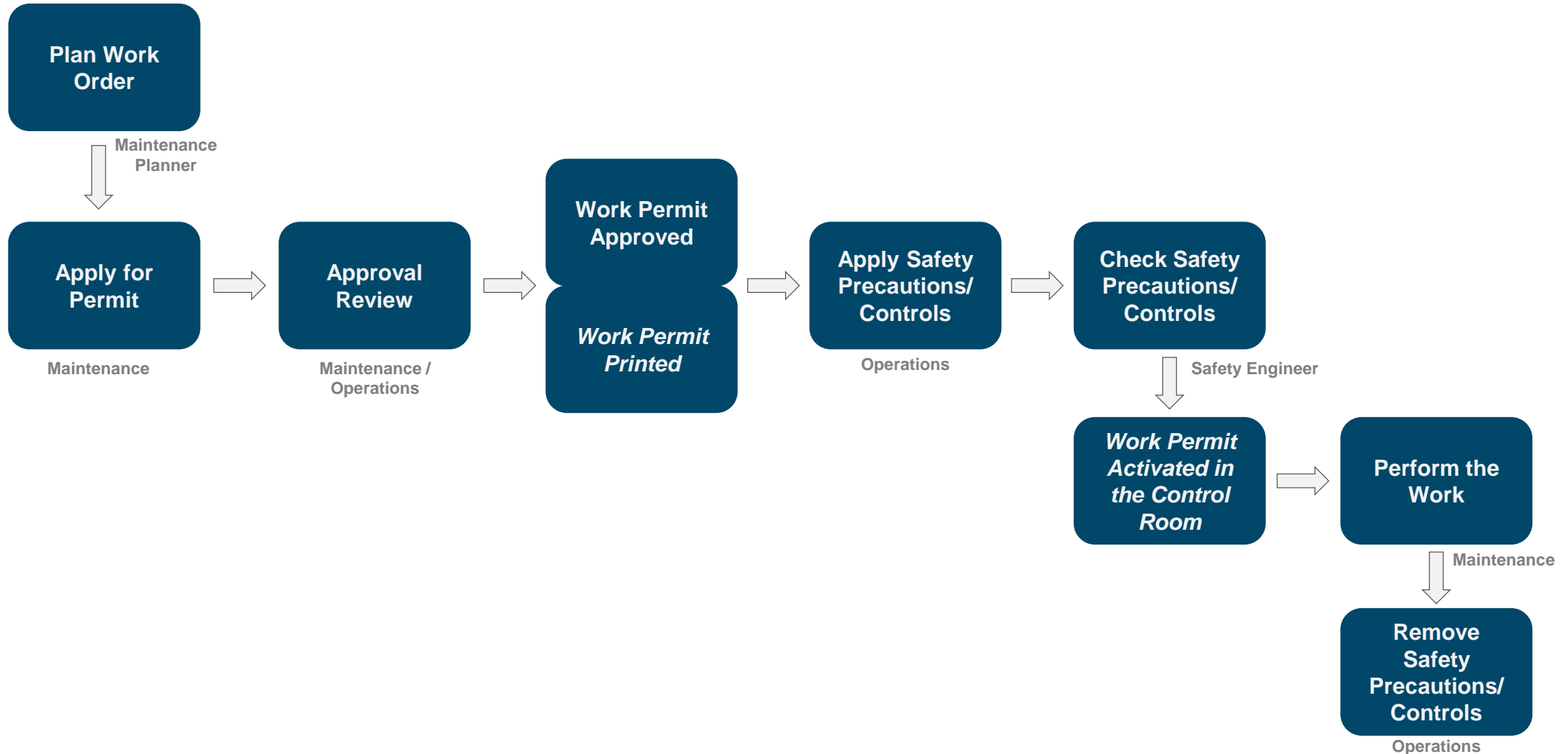
- Full electronic support for controlling hazardous work using permits and isolation procedures
- Supports various levels of work permits and multilevel approvals
- Manage necessary operational lists, tags, and test tags within the isolation procedures
- Natively integrated with master data in the SAP Enterprise Asset Management solution and the maintenance work order process
- Mobile app for Work Clearance Management supporting Lockout/Tagout Procedures

Benefit

- **Complete hazardous work safely while reducing the cost of maintenance and increasing equipment uptime**
- **Prevent safety violations and incidents**

Maintenance Safety and Permit to Work

Business Process



Maintenance Safety and Permit to Work

Functional Components

Permits	Work Permits	Impact	Risk	Control
Work Permit “Type 1”	Hot Work Permit	Approvals	High	Permit
Work Permit “Type 2”	Vessel Entry Permit	Requirements	Medium	Safety Certificates
Work Permit Templates	Cold Work Permits	Work Partner Documents	Low	Work Order
				LO/TO Permit
				Temporal Control

Lockout - Tagout

Functional Components

Isolation List

Pre-Maintenance
Activities

Post-Maintenance
Activities

Approval Process

Graphical
Isolation Sheet

Mobile
Lockout/Tagout

Isolation Items

Functional
Locations

Equipment

Isolation Points
without Master
Data

Switching
Location

Documents

Tagging/Untagging
Condition

Control

Work Permit

Safety procedure

Conflict
Verification

LO/TO Process

Maintenance Safety and Permit to Work

Output – Job Safety Card


Oct 24, 2012 Job Card 1058791 Copy H Page 1

Order	819720	Order Type	PM01	Maintenance Order
Description				
Start date	Oct 24, 2012		End date	Oct 24, 2012
Priority	2	High		
Status	LRRA REL PRT MANC PRC SETC TTJL			
Funct. location	SU-SC-MP-P7-E1			McKee Plant Unit 2 Cooling Towers
Equipment	10006782	Unit 2 Cooling Tower Pump 1		
Assembly				
Location			Room	
PM planner grp	101	Ms. O'Neal	PM plant	3000
Main work center	MECHMNT 3000	Mechanical maintenance		
Maintenance plan			Maint. plan item	
Revision number				

5-minute risk assessment
perform a mini risk assessment


Safety Plan

Relevant Risks




CAUTION!
Electrical shock hazard inside


Electrical Hazard




Chemical Liquid



Welding Work



Nearby Operations



High Noise Level

Planned Safety Measures

Operations and Safety Measures

Operation 0010

Pair of Leather Gloves

Read and understood _____

Job Safety Card

- Risk information applied in work context
- Automated association of risk to assets
- Streamlined work order creation by planners – accelerating safe work
- Standard processes for work execution, work permitting
- Effective, timely Hazard Communication
- Standard safety icons on job card to clearly communicate job hazards to the worker

Integration

The Value of True Integration



Process

- Handoffs and triggers that occur in your real-life business processes can be driven by the system with no drops in communication or responsibility
- Process improvement is not only enabled by the system, but the system becomes a source of new ideas and innovation



Data

- Provides context not matched by point solutions
- Data entry at all levels is quicker and less error-prone
- Processes run on a consistent source of truth
- EHS department does not need to deal with maintaining enterprise data



Reporting

- Consistent user-interfaces across multiple parts of SAP
- No need to maintain separate interfaces to other reporting tools
- Leverage central SAP ERP hierarchies as a source of truth like Plant, Functional Locations, Cost Centers, and Org Structure to enable both roll-up and drill-down reporting in real time
- Consistent security paradigm between process data and reporting logic
- Gain additional insight with ability to pull data from disparate processes within the SAP landscape

Process Integration with SAP Plant Maintenance

SAP EHS
Environment Management



SAP EHS
Incident Management



SAP EHS
Health and Safety



Maintenance Task

PM Notification created automatically based on corrective action. Once maintenance task completed, the EHS corrective action is updated.

SAP Plant Maintenance

Process Integration with SAP HR/SuccessFactors

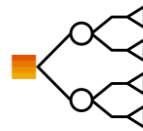
SAP EHS
Incident Management



**Incident
Occurred**



Investigation



**Root
Cause**



**Corrective
Action**



SAP EHS
Health and Safety



**Hazard
Identified**



**Risk
Evaluated**



**Controls
Identified**



Employee Central

*Employee and organizational data
shared directly with SAP EHS*

LMS/Success Map

Performance Management

Rewards and Recognition

*Process integration with HR
actions triggered from EHS
requirements or events*

Data integration with SF personnel data

SAP EHS
Incident Management

One source of truth for valid person data pulled dynamically to EHS-IM

Up to 18 personnel data points stored on the incident record at time of entry

Dynamic use of Organization Structure for workflow, security, reporting, etc

Hours Worked can be pulled for OSHA forms and incident rate calculations

SAP EHS
Health and Safety

One source of truth for valid person data pulled dynamically to EHS-HS

Valid Person data for Similar Exposure Group assignments

Valid Person data for exposure tracking and personal sampling

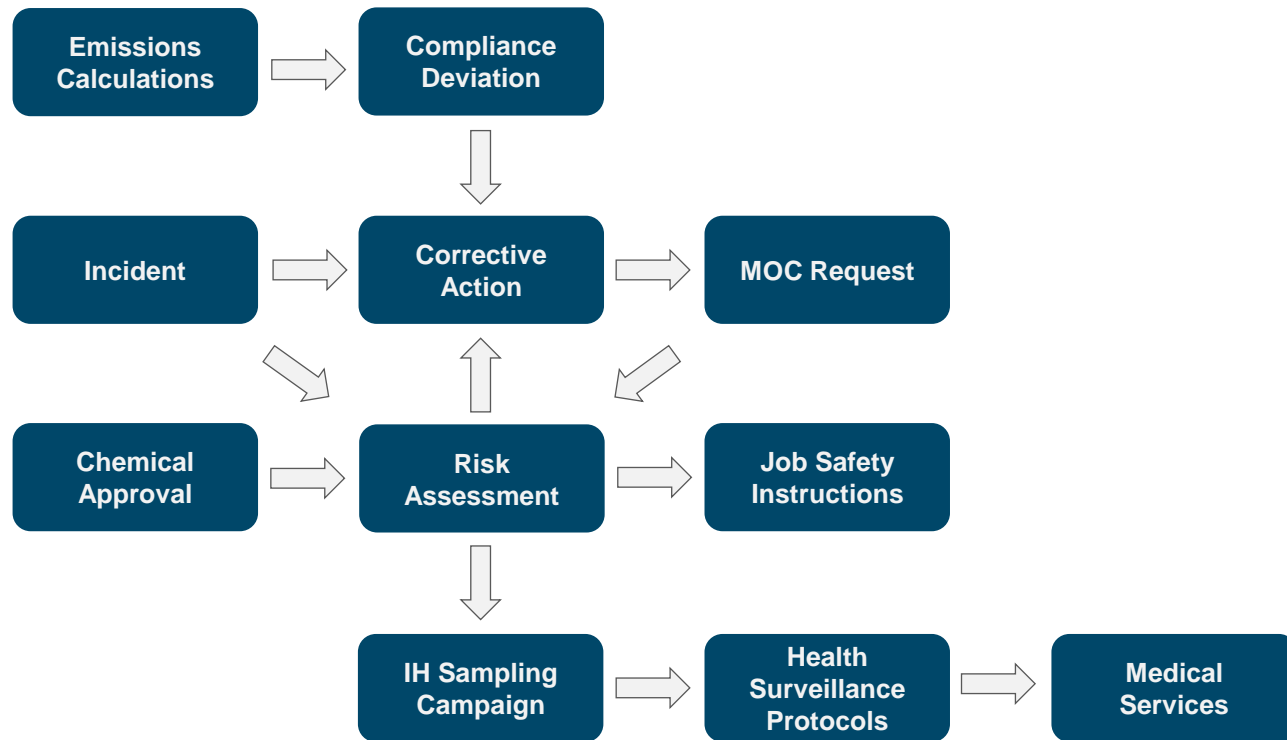
Dynamic use of Organization Structure for workflow, security, reporting, etc



Employee Central

Employee and organizational data shared directly with SAP EHS

Data Integration of SAP EHS



Holistic, end-to-end process integration of EHS drives consistency, commonality, and efficiency

Analytics

SAP Analytics Cloud
BW/Business Objects
Embedded Analytics

LOB Processes

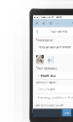
HR/SuccessFactors
Organization Management
Finance/Controlling
Materials Inventory Management
Asset Management
Plant Maintenance
Plant Data Historians



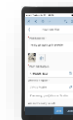
End-User/Shop Floor



Safety Relevant Info App



My Inbox App



Task Calendar App

SAP EHS Analytics

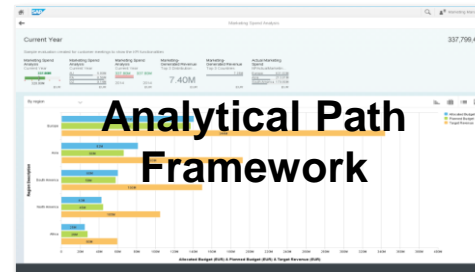
SAP EHS Analytics – Solution Scope



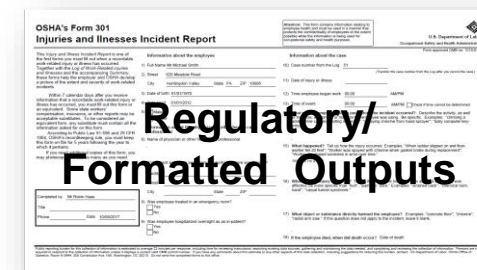
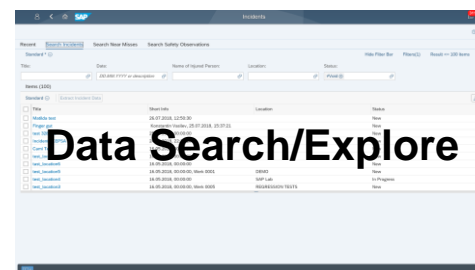
Corporate



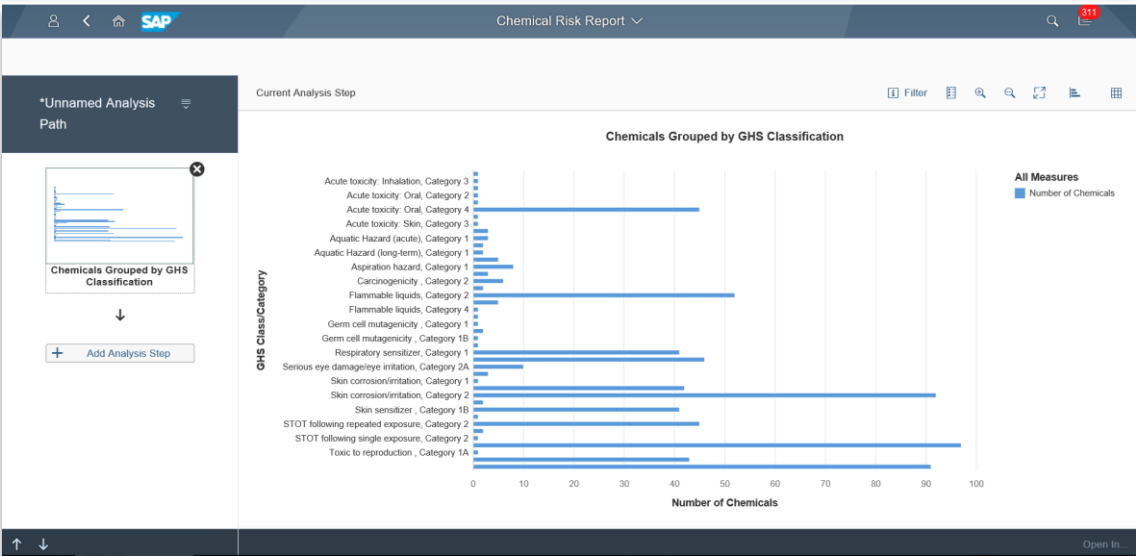
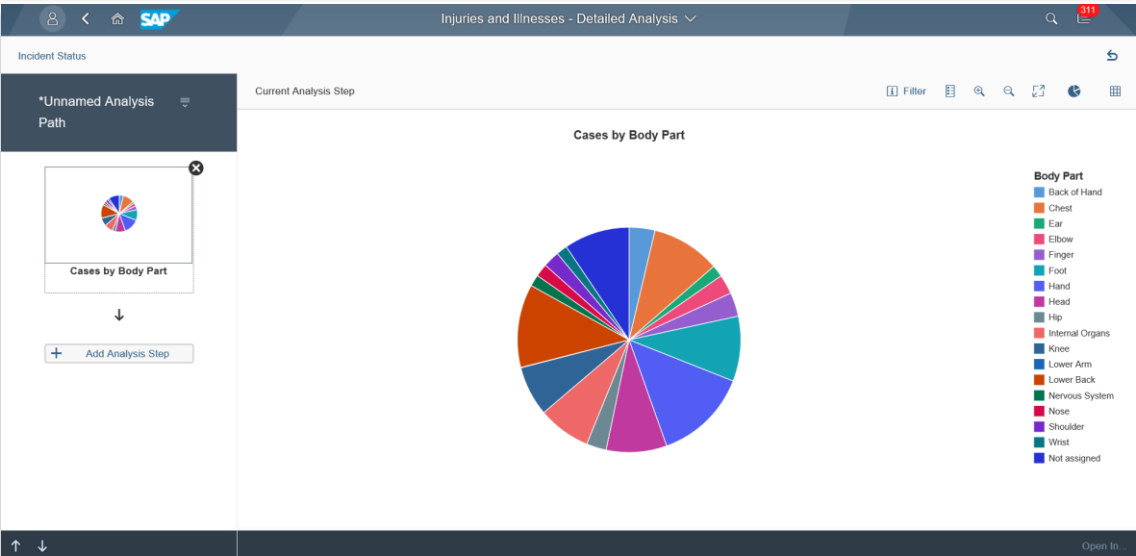
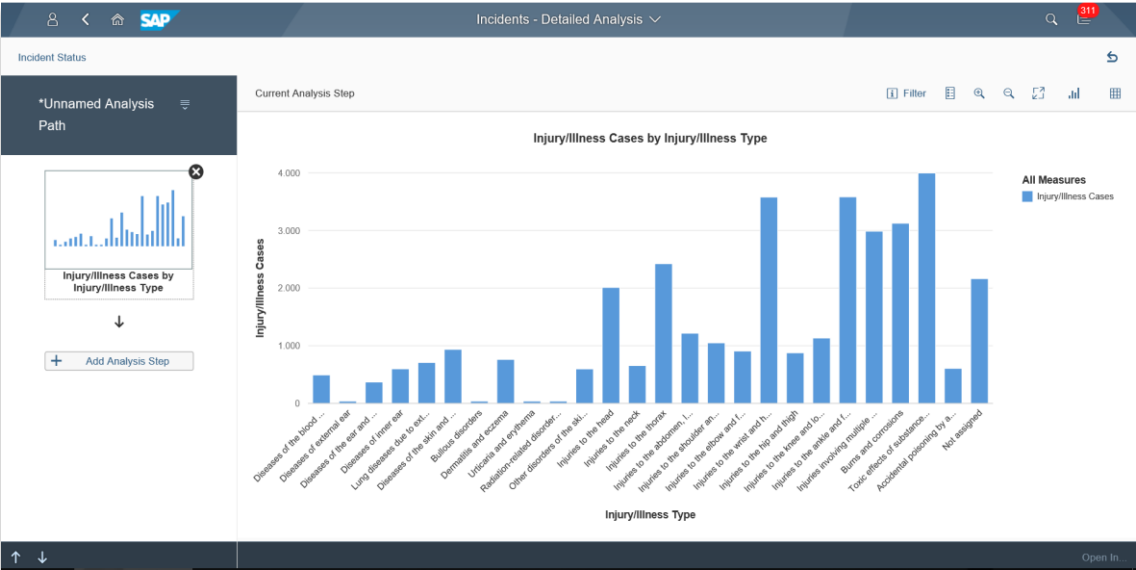
EHS Practitioner



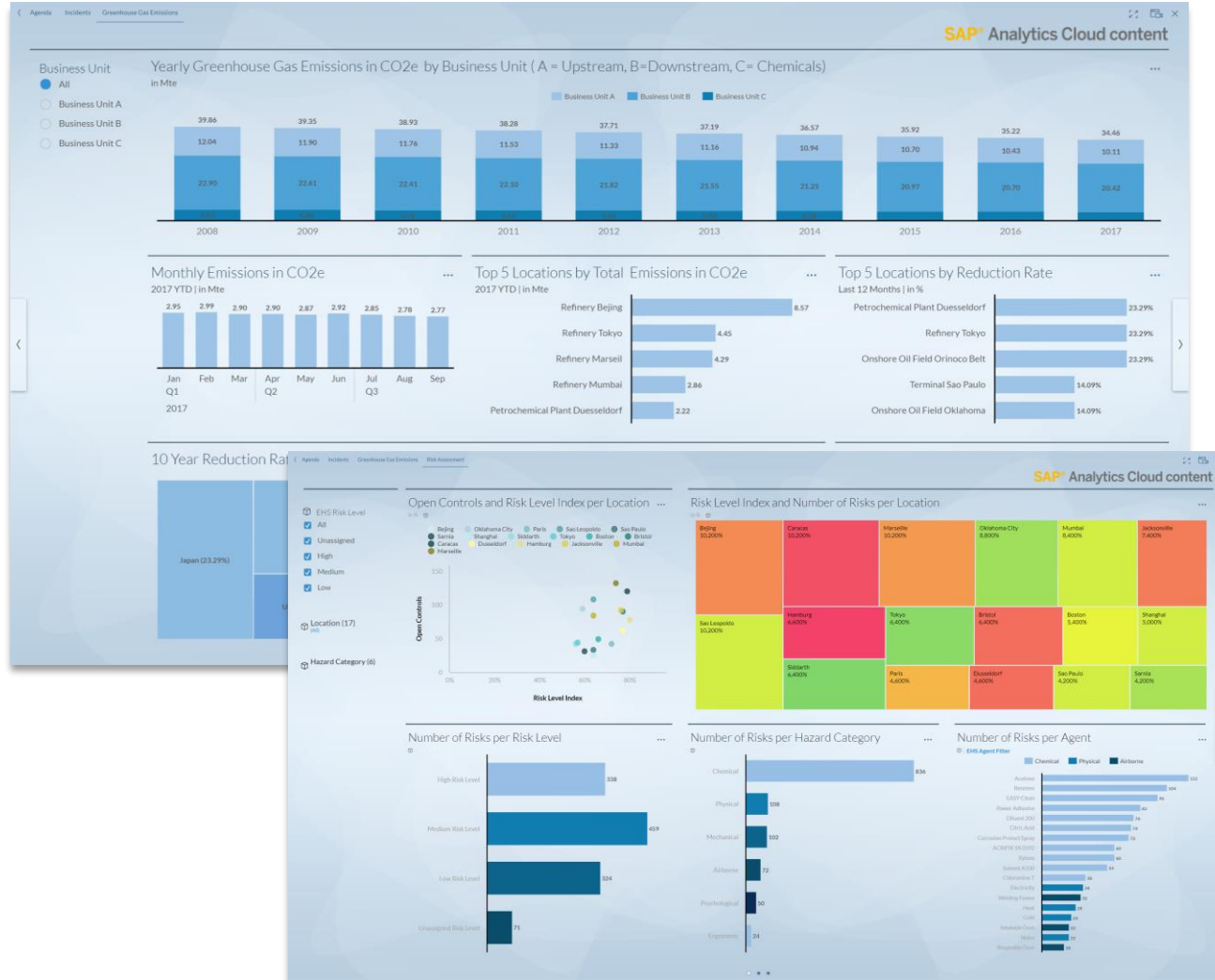
Operations



Realtime ad hoc reporting for EHS



Why SAP Analytics Cloud for EHS



Objective

SAP Analytics Cloud is a single experience for decision making that allows users to discover, visualize, plan and predict, all in one place.

Capabilities

- Interactive dashboards controlled by the same role-based authorization model as the rest of the SAP enterprise system
- Clean and model your data with first-class data collection functionality
- Connection to on-premise and cloud data sources across all lines of business, with either Live or Import Data connections
- Machine learning and other data tools help to enhance your data even faster by suggesting transformations and automating workflows

Benefit

- Give executives a complete, real-time view of company situations and key figures across departments – and foster trust among leaders
- Blend data from different sources, create compelling data visualizations, run ad hoc reporting, and more

EHS Content in SAC (and Digital Boardroom)

Greenhouse Gas Emissions:

- Track the companies emission reduction targets for CO2 equivalents.
- Monitor carbon emissions of the company's own operations, benchmark different countries, location types,
- Compare emissions against predefined target values or plants reach the companies emission reduction targets.



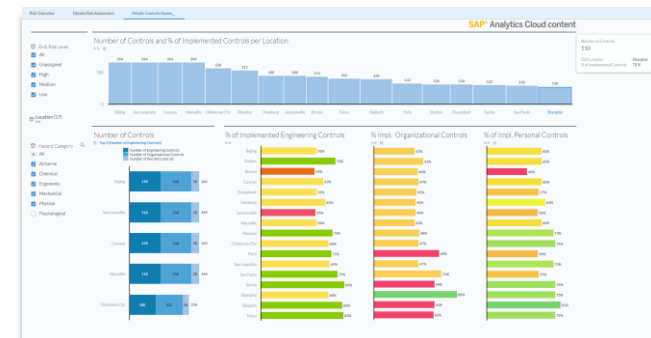
Overview of Incident Data:

- Analyze trends and report on current status of incidents, near misses and safety observations with a focus on injuries.
- Identify in which plants or locations the most injuries happened, which root causes can be targeted to reduce this number.
- Monitor the severity of injuries by showing the effect the incidents had on lost work days.



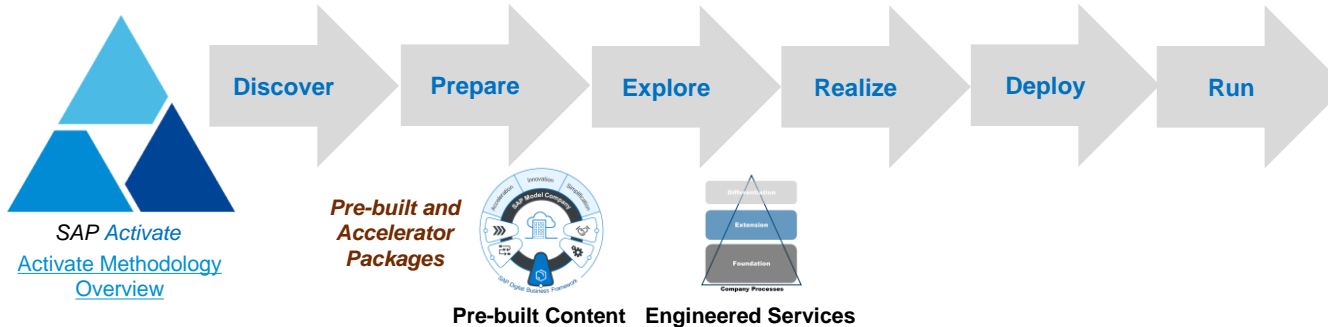
Health and Safety Management:

- Get an overview of the risk situation at certain locations
- Status tracking of control implementations that have been initiated based on these risks during the risk identification process.



Implementation

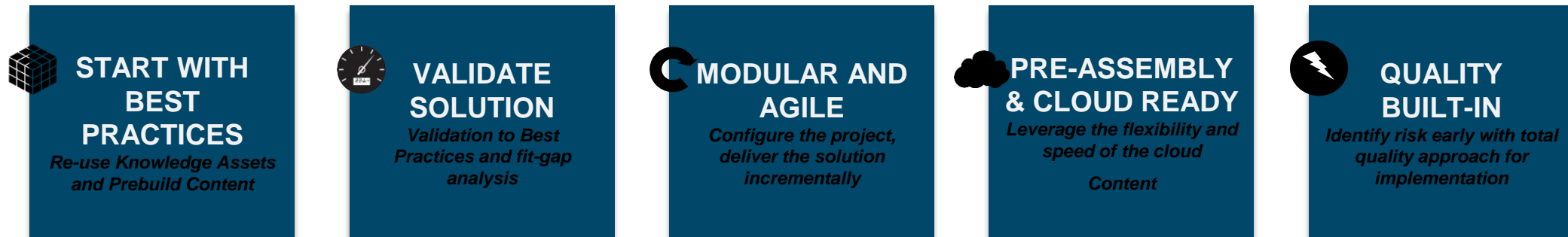
Methodology



Considerations

- Each SAP EHS application can be purchased and implemented individually with no technical dependencies between modules.
- Although no dependencies exist, there are valuable process and data integrations between the applications which can be leveraged and may influence how an implementation is planned out.
- There are three main deployment models – traditional on-premise, Single-tenant hosting, and a Multi-tenant public cloud offering.

Execution Principles



For further information on envisioning an implementation plan, check out the [Customer Adoption Journey Map](#)

Useful Links

[Visit SAP's Sustainability Report](#)

[SAP Sustainability Solution Page](#)

[SAP EHS Product Page](#)

[Official SAP Roadmaps](#)

[SAP Solution Explorer](#)

[Documentation \(EHSM\)](#)

[Documentation \(S/4HANA\)](#)

[PAM Matrix](#)

SAP Environment Health and Safety

Key takeaways

- Holistic approach to embed safety and operational risk management into all of your operations
- Critical safety information available to all – top floor to shop floor – to foster a proactive safety culture
- Enable EHS practitioners to be at the forefront of digital transformation within their organizations



Thank You

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