Sustainable Operation Insights Dashboard Overview
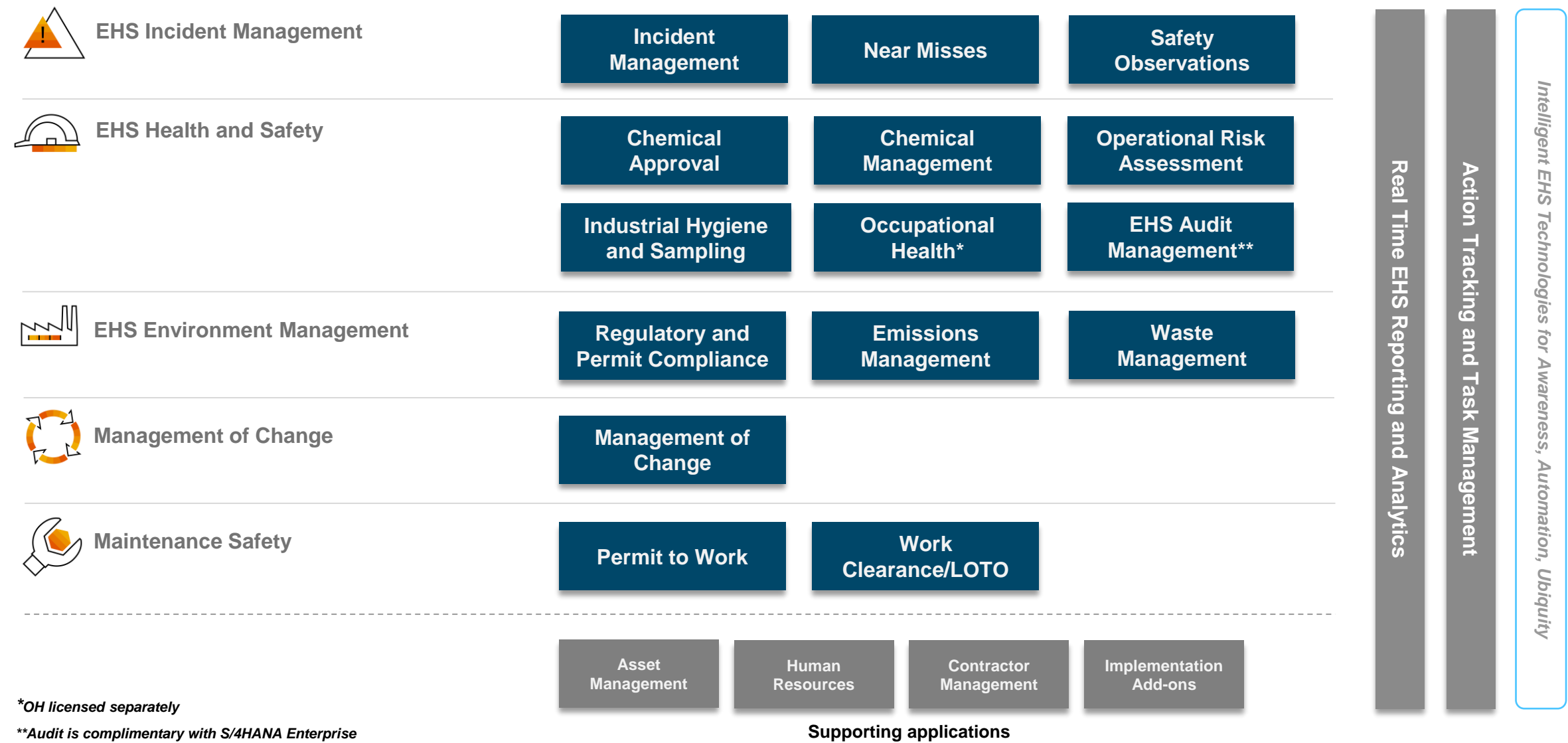
Vicki Zheng
Digital Supply Chain Center of Excellence – Sustainability
Sep, 2022

THE BEST RUN **SAP**

"We are surrounded by *data*, but starved for *insights*."

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 | Waste 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
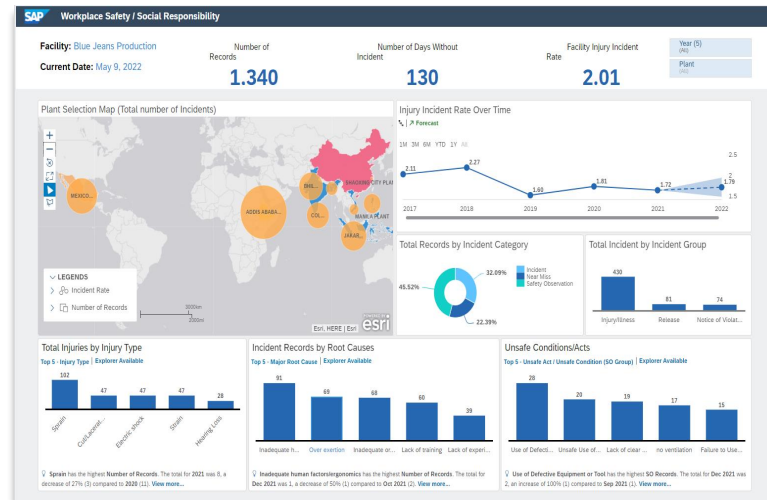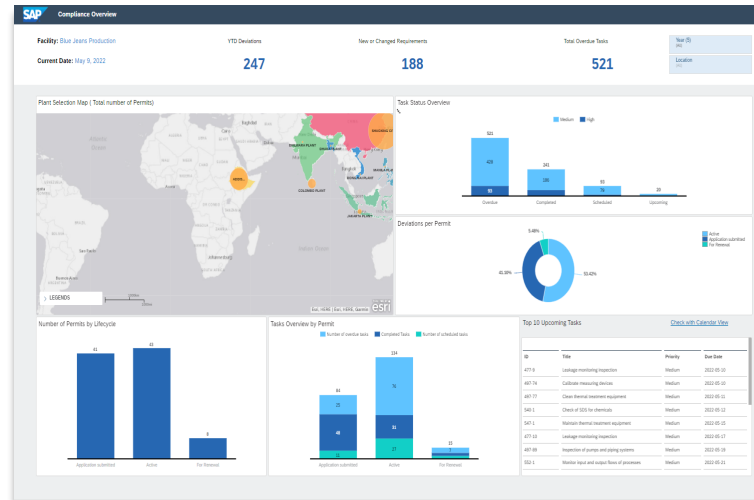
Sustainable Operations Insights

A set of dashboards focused on plant-level information and intended for EHS managers and plant manager to get a real-time view of operational metrics relevant to sustainability performance.

SAP Analytics Cloud

Workplace Safety

Compliance

Environmental Stewardship

SAP EHS

S/4HANA

Facility: Blue Jeans Production

Current Date: May 9, 2022

Number of Records
1.340

Number of Days Without Incident
130

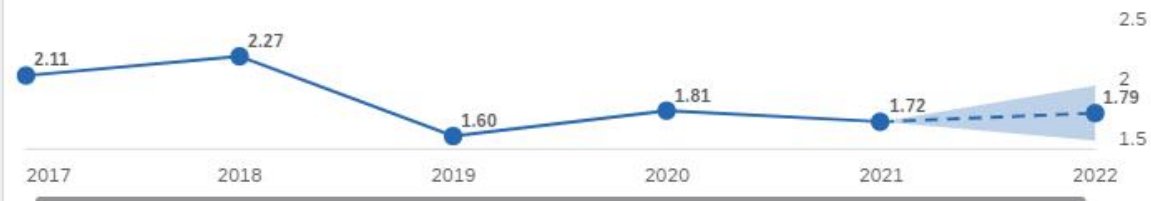Facility Injury Incident Rate
2.01

Year (5) (All)

Plant (All)

Plant Selection Map (Total number of Incidents)

SHAOXING CITY PLA...
BHIL...
COL...
MEXICO...
ADDIS ABABA...
MANILA PLANT
JAKAR...

LEGENDS
- Incident Rate
- Number of Records

3000km
2000mi

POWERED BY esri

Esri, HERE | Esri

Injury Incident Rate Over Time

↗ Forecast

1M 3M 6M YTD 1Y All

2.11 (2017)
2.27 (2018)
1.60 (2019)
1.81 (2020)
1.72 (2021)
1.79 (2022)

2.5
2
1.5

Total Records by Incident Category

32.09%
45.52%
22.39%

Legend:
- Incident
- Near Miss
- Safety Observation

Total Incident by Incident Group

430 — Injury/Illness
81 — Release
74 — Notice of Violat...
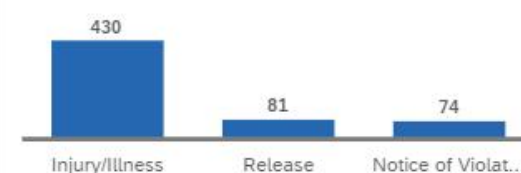
Total Injuries by Injury Type

Top 5 - Injury Type | Explorer Available

102 — Sprain
47 — Cut/Lacerat...
47 — Electric shock
47 — Strain
28 — Hearing Loss
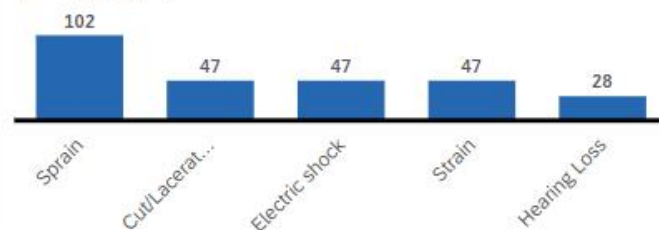
💡 **Sprain** has the highest **Number of Records**. The total for **2021** was 8, a decrease of 27% (3) compared to **2020** (11). **View more...**
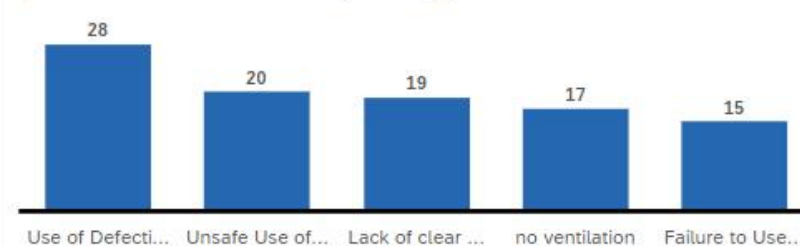
Incident Records by Root Causes

Top 5 - Major Root Cause | Explorer Available

91 — Inadequate h...
69 — Over exertion
68 — Inadequate or...
60 — Lack of training
39 — Lack of experi...
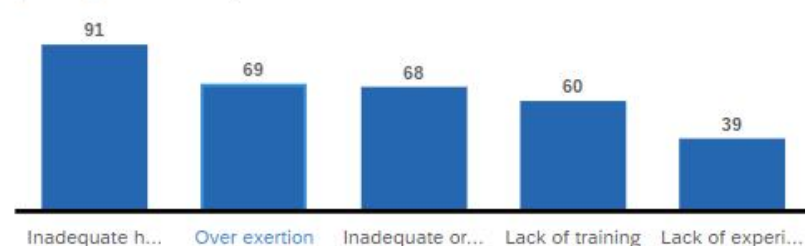
💡 **Inadequate human factors/ergonomics** has the highest **Number of Records**. The total for **Dec 2021** was 1, a decrease of 50% (1) compared to **Oct 2021** (2). **View more...**

Unsafe Conditions/Acts

Top 5 - Unsafe Act / Unsafe Condition (SO Group) | Explorer Available

28 — Use of Defecti...
20 — Unsafe Use of...
19 — Lack of clear ...
17 — no ventilation
15 — Failure to Use...

💡 **Use of Defective Equipment or Tool** has the highest **SO Records**. The total for **Dec 2021** was 2, an increase of 100% (1) compared to **Sep 2021** (1). **View more...**

Facility: Blue Jeans Production

Current Date: May 9, 2022

YTD Deviations
247

New or Changed Requirements
188

Total Overdue Tasks
521

Year (5)
(All)

Location
(All)

Plant Selection Map (Total number of Permits)

BAGHDAD · IRAN · CHINA · SHAOXING CI
CAIRO · ALGERIA · LIBYA · EGYPT · SAUDI ARABIA · Dubai
BHILWARA PLANT · New Delhi
DHAKA PLANT · Hong Kong
NAU · NIGER · CHAD · SUDAN · Mumbai
NIGERIA · Bangkok · MANILA PLA
Accra · ADDIS... · DONG NAI PLANT
VENEZUELA · COLOMBO PLANT
Bogota COLOMBIA · Singapore
DR CONGO · TANZANIA · JAKARTA PLANT
BRAZIL · ANGOLA · ZAMBIA · Indian Ocean
BOLIVIA · NAMIBIA
Sao Paulo · Johannesburg
Buenos Aires · SOUTH AFRICA
ARGENTINA

Atlantic Ocean

> LEGENDS

1000km / 1000mi

Esri, HERE | Esri, HERE, Garmin

Task Status Overview

■ Medium ■ High

521	241	93	20
428	186	79	
93			
Overdue	Completed	Scheduled	Upcoming

Deviations per Permit

5.48%

■ Active
■ Application submitted
■ For Renewal

41.10%   53.42%

Number of Permits by Lifecycle

41	43	8
Application submitted	Active	For Renewal
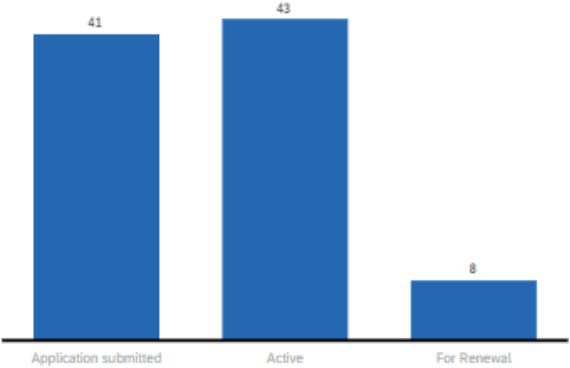
Tasks Overview by Permit

■ Number of overdue tasks ■ Completed Tasks ■ Number of scheduled tasks

84	134	15
25	76	7
48	31	
11	27	
Application submitted	Active	For Renewal
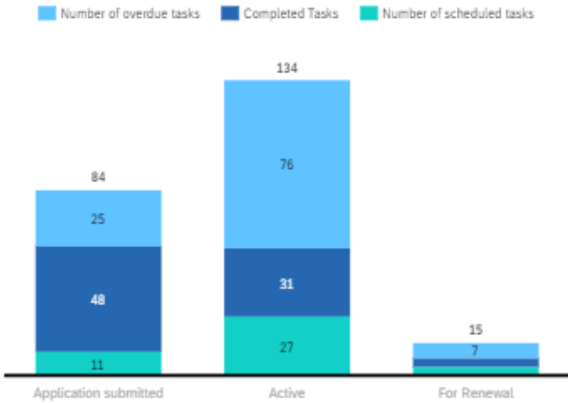
Top 10 Upcoming Tasks   Check with Calendar View

ID	Title	Priority	Due Date
477-9	Leakage monitoring inspection	Medium	2022-05-10
497-74	Calibrate measuring devices	Medium	2022-05-10
497-77	Clean thermal treatment equipment	Medium	2022-05-11
540-1	Check of SDS for chemicals	Medium	2022-05-12
547-1	Maintain thermal treatment equipment	Medium	2022-05-15
477-10	Leakage monitoring inspection	Medium	2022-05-17
497-89	Inspection of pumps and piping systems	Medium	2022-05-19
552-1	Monitor input and output flows of processes	Medium	2022-05-21

Facility: Blue Jeans Production

Current Date: May 9, 2022

Total Environmental Release Incidents

3,860

Total Waste Generated

1,967.00 TO

Total GHG Emission

83.92 TO

Year (5)
(All)

Plant
(All)

Plant Selection Map (Total Waste Generated)

LEGENDS
> Plant
> GHG Emission

Esri, HERE | Esri, HERE, Garmin

GHG Emissions by Scope

Legend: Scope 1 — Scope 2 — Scope 3

	Carbon Dioxide Equivalent	Carbon dioxide	methane	nitrous oxide
Total	38,922.51	38,694.44	2,643.62	3,662.93
Scope 1	10,136.19	10,122.80		
Scope 2	4,611.33	4,514.48		
Scope 3	24,174.99	24,057.16		2,193.63
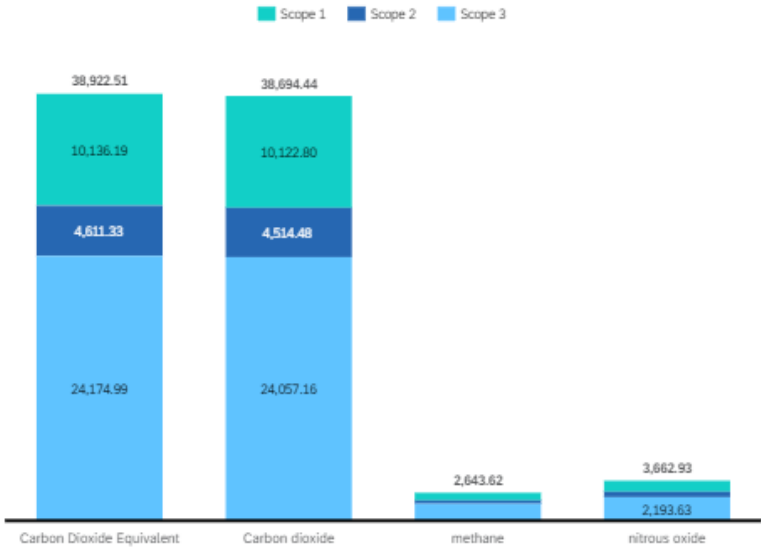
Total Waste Generated by Point of Generation

Top 5 - Point of Generation

Legend: Shaoxing City Plant, Addis Ababa Plant, Colombo Plant, Bhilwara Plant, Mexico City Plant, Dong Nai, Jakarta Plant, Dhaka Plant, Manila Plant

Production Unit	Finishing Section	Dye Room	Utilities Building
965.00	287.50	258.50	164.00
215.00			
164.50		46.00	55.00
134.00	49.00	75.00	
95.50		48.00	
90.00			
72.00			
71.00			
70.00			

Waste Stream Totals

Top 5 - Waste Stream

Legend: Hazardous — Non-hazardous

Chemical Dyes	Cutting Waste	Contaminated Gloves	Finishing Waste	Finishing Waste
368.50	321.50	304.00	201.00	192.50

Waste Storage View

Top 5 - Waste Stream

Legend: Hazardous — Non-hazardous

Chemical Dyes	Cutting Waste	Contaminated Gloves	Finishing Waste	Finishing Waste
304.50	258.00	236.00	167.00	163.50