



SAFETY 4.0® PLATFORM

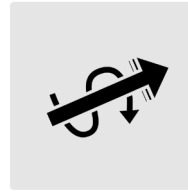
THE SAFER PATH TO THE
AUTONOMOUS FACTORY

GOARC – the leading Safety 4.0 platform solution provider

GOARC's Journey

- Started in 2015
- Innovation/R&D Center in Tel Aviv
- International team of 60+
- USA | Singapore | Germany | France | Japan | Israel
- 130,000+ users
- In 100+ locations
- Supports 17+ languages

GOARC offers a unique
Safety 4.0 integrated SaaS platform that



Streamlines



Digitalises



Centralises



Visualises



Manages

data & workflows, empowering people with real-time actionable insights & awareness of the current status of their operation

OPERATIONAL RISK MANAGEMENT SOLUTIONS & MODULES



Multi-tenant
SaaS cloud first



Mobile first



Worker centric



AI embedded



Single data layer



Command Center

GOARC's Safety 4.0 Platform

Command Center

Connected Worker

AI / ML

Control of
Work

Critical Event
Management

Asset
Performance
Management

Health &
Safety

Permit
To Work

Shift
Management

Emergency
Preparedness

Emergency
Management

Operator
Rounds

Asset
Management

Safety
Observations
Hazard
Identification

Inspections

Lockout-
Tagout

Trainings

Incident
Management

COMMAND CENTER

ENABLE REAL-TIME MANAGEMENT

- **Visualize** a common operating picture
- **Identify & escalate** potential emergency events in real-time
- Log, **centralize**, standardize, and **trend** data
- **Bridge** communication gaps | Easy debriefs
- Send/receive team/sensor **push notifications** (phone/tablet)
- Gain interdisciplinary **awareness**
 - Hazards/ Near-misses/ Incidents
 - Emergency situations
 - Employees/ Contractors
 - Remote-precise tasks
 - Resolve conflicts / Digital approvals
 - Shift change

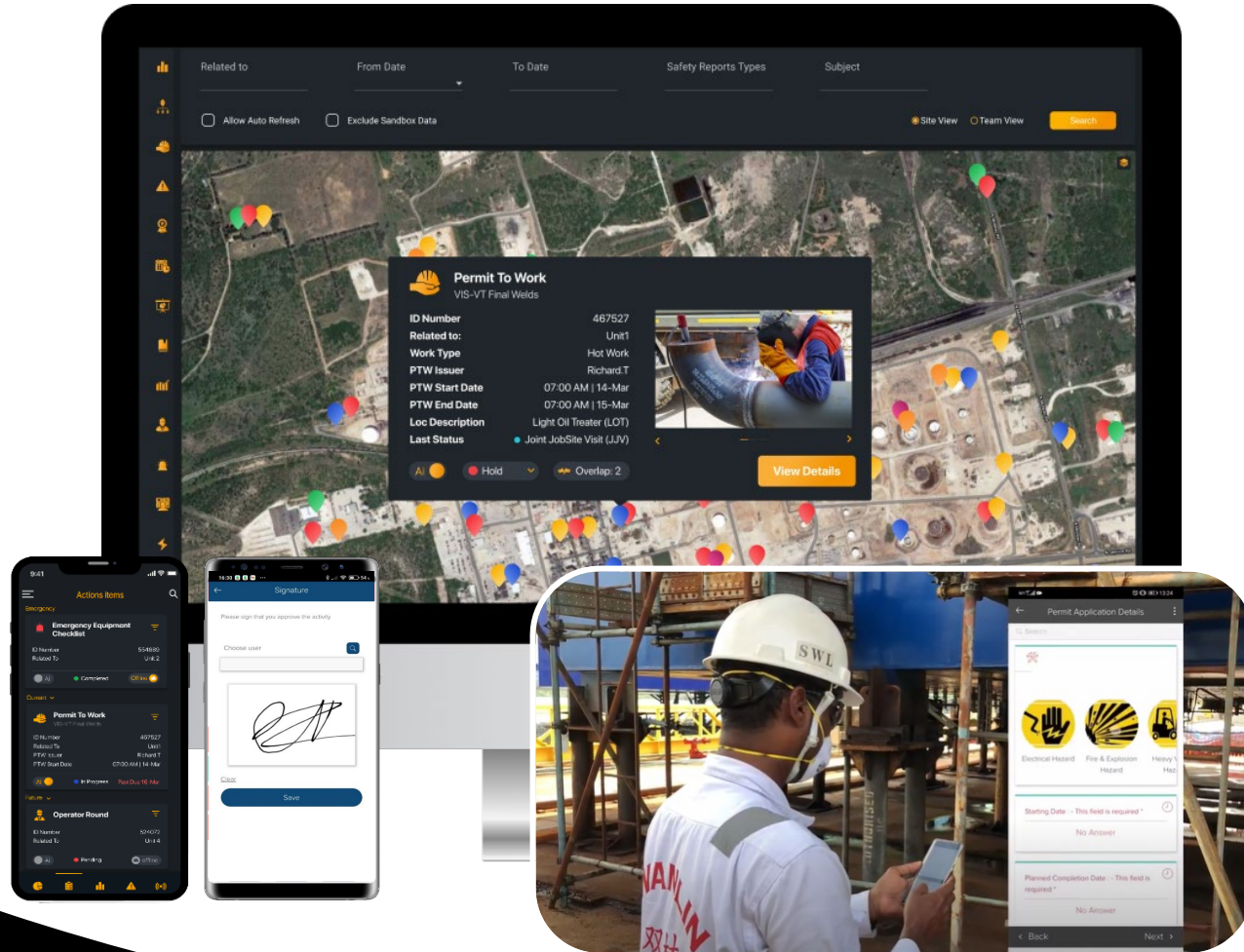
Enable faster, insight-driven decisions

The screenshot displays a web-based interface for a refinery's command center. At the top, there's a navigation bar with a date range (01 Aug 2021 - 07 Aug 2021), a dropdown menu for 'Refinery', a 'Week View' button, and a theme toggle (Dark/Light). The main area is a table with columns for each day of the week (Sunday to Friday) and rows for different units (REFINERY, UNIT 1, UNIT 2, UNIT 3, UNIT 4). Each cell in the table contains a list of items with associated counts, represented by colored circles (red for negative, green for positive, blue for neutral). For example, on Sunday, the REFINERY unit has 1 'WORK PERMIT' (red) and 1 'WORK GUIDELINES' (yellow). UNIT 1 has 1 'SAFETY REPORTS' (red) and 1 'WORK GUIDELINES' (green). UNIT 2 has 1 'SAFETY REPORTS' (red) and 1 'WORK PERMIT' (yellow). UNIT 3 has 1 'WORK GUIDELINES' (blue). UNIT 4 has 1 'WORK PERMIT' (blue) and 1 'WORK GUIDELINES' (blue). On Monday, UNIT 1 has 1 'SAFETY REPORTS' (red) and 1 'WORK GUIDELINES' (green). UNIT 2 has 1 'SAFETY REPORTS' (red) and 1 'WORK PERMIT' (yellow). UNIT 3 has 1 'ACTION ITEM' (yellow) and 1 'SAFETY REPORTS' (red). UNIT 4 has 1 'WORK PERMIT' (blue) and 1 'WORK GUIDELINES' (blue). On Tuesday, UNIT 1 has 1 'ACTION ITEM' (green) and 1 'SAFETY REPORTS' (red). UNIT 2 has 1 'WORK PERMIT' (yellow) and 1 'WORK GUIDELINES' (blue). UNIT 3 has 1 'ACTION ITEM' (green) and 1 'SAFETY REPORTS' (red). UNIT 4 has 1 'ACTION ITEM' (green) and 1 'WORK PERMIT' (blue). On Wednesday, UNIT 1 has 1 'WORK PERMIT' (purple) and 1 'ACTION ITEM' (green). UNIT 2 has 1 'WORK PERMIT' (yellow) and 1 'WORK GUIDELINES' (blue). UNIT 3 has 1 'ACTION ITEM' (green) and 1 'SAFETY REPORTS' (red). UNIT 4 has 1 'ACTION ITEM' (green) and 1 'WORK PERMIT' (blue). On Thursday, UNIT 1 has 1 'ACTION ITEM' (green) and 1 'SAFETY REPORTS' (red). UNIT 2 has 1 'WORK PERMIT' (yellow) and 1 'WORK GUIDELINES' (blue). UNIT 3 has 1 'ACTION ITEM' (green) and 1 'SAFETY REPORTS' (red). UNIT 4 has 1 'ACTION ITEM' (green) and 1 'WORK PERMIT' (blue). On Friday, UNIT 1 has 1 'ACTION ITEM' (green) and 1 'SAFETY REPORTS' (red). UNIT 2 has 1 'WORK PERMIT' (yellow) and 1 'WORK GUIDELINES' (blue). UNIT 3 has 1 'ACTION ITEM' (green) and 1 'SAFETY REPORTS' (red). UNIT 4 has 1 'ACTION ITEM' (green) and 1 'WORK PERMIT' (blue).

COMPANY NAME	SUNDAY 31/07/2021	MONDAY 01/08/2021	TUESDAY 02/08/2021	WEDNESDAY 03/08/2021	THURSDAY 04/08/2021	FRIDAY 05/08/2021
REFINERY	WORK PERMIT 1 WORK GUIDELINES 1	WORK PERMIT 1	WORK PERMIT 1	WORK PERMIT 1	ACTION ITEM 2	ACTION ITEM 1
UNIT 1	SAFETY REPORTS 1 WORK GUIDELINES 1	WORK PERMIT 1 WORK GUIDELINES 1	ACTION ITEM 1 SAFETY REPORTS 1 WORK PERMIT 1 WORK GUIDELINES 1		ACTION ITEM 1 SAFETY REPORTS 1 WORK GUIDELINES 1	
UNIT 2		ACTION ITEM 1 SAFETY REPORTS 1 WORK PERMIT 1	WORK PERMIT 1 WORK GUIDELINES 1		WORK PERMIT 1 WORK PERMIT 1	WORK PERMIT 1
UNIT 3	WORK GUIDELINES 1	ACTION ITEM 1 SAFETY REPORTS 1	ACTION ITEM 1 SAFETY REPORTS 1		ACTION ITEM 1 SAFETY REPORTS 1	
UNIT 4	WORK PERMIT 1 WORK GUIDELINES 1	WORK PERMIT 1 WORK GUIDELINES 1	ACTION ITEM 1 WORK PERMIT 1 WORK GUIDELINES 1			



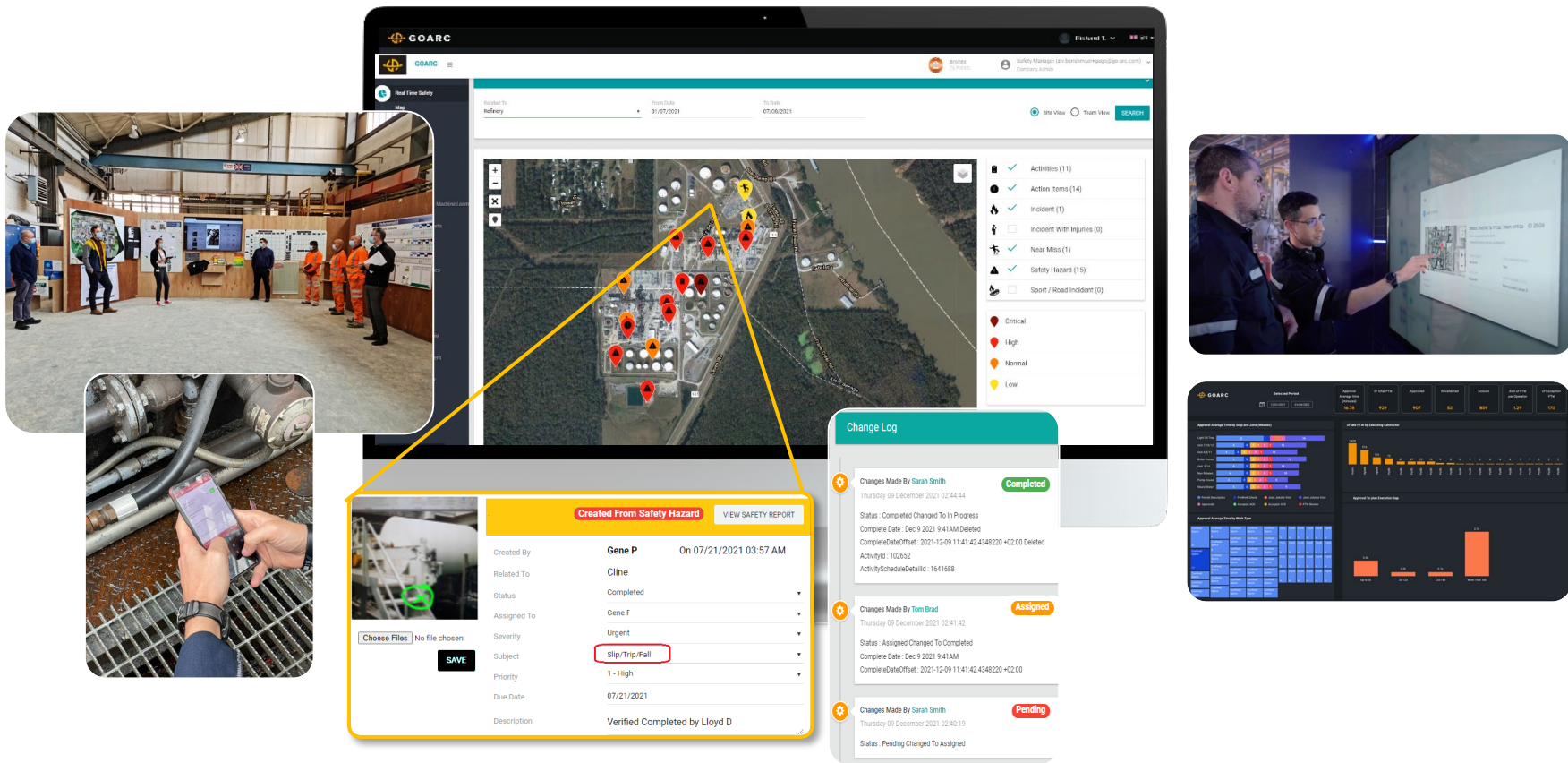
PERMIT TO WORK (PTW)



Reduce process & wait times

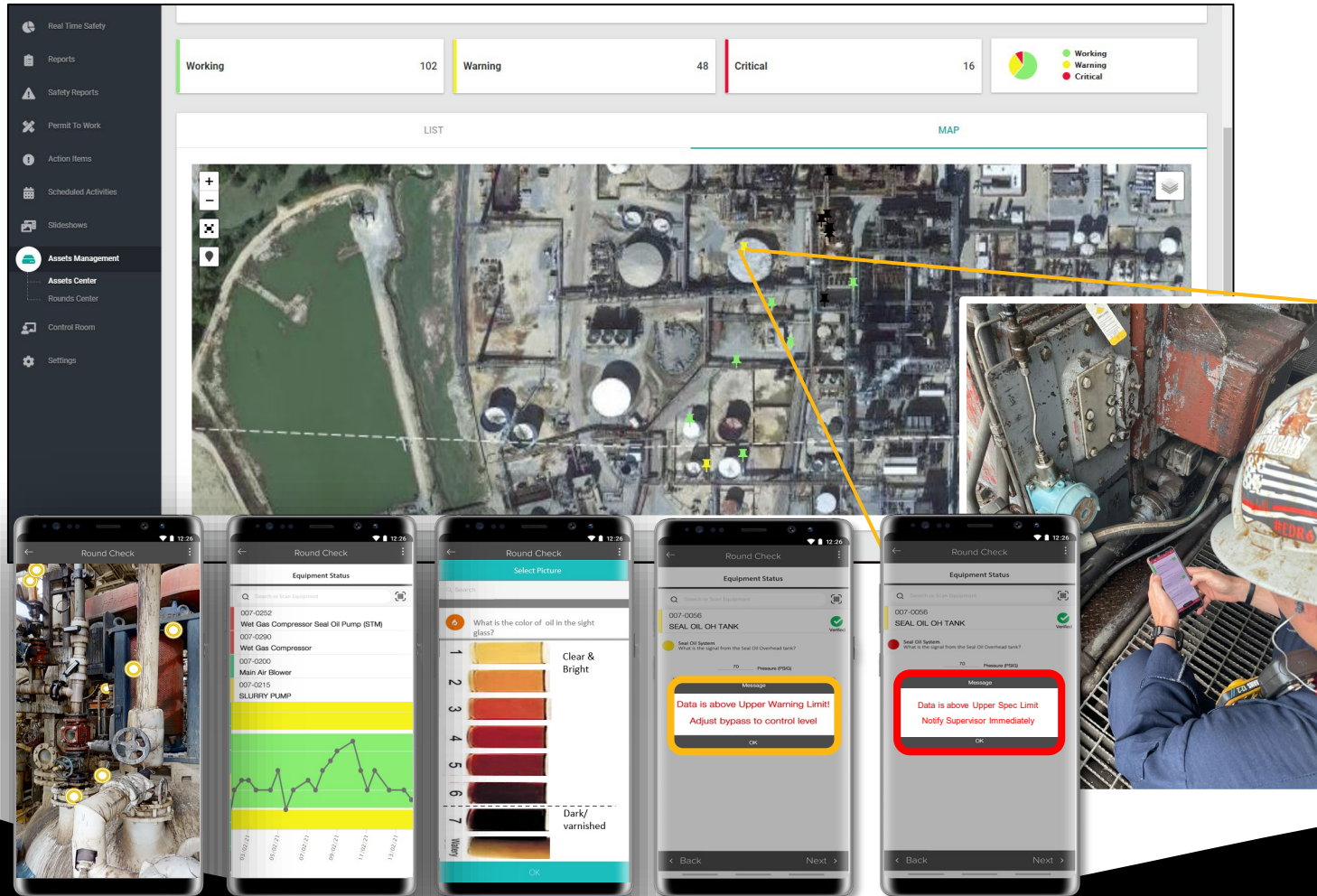
- **Digitalize** permits | Access from anywhere
- **Standardize** format | Increase accuracy
- **Dynamically** build permits by work type
- **Visualize** permits on a map
- **Identify & manage** conflicts | Stop/resume work
- **Customize** your own dynamic flow
- **Real-time** approval by managers

HEALTH & SAFETY DIGITALIZATION



- **Digitalize, standardize & streamline**
 - Safety observations
 - Hazard identification
 - Checklists
 - Maintenance inspections
 - Audits
 - Activities
 - Action items
- Send **real-time reports, images, video** to the system & **assign action items**
- **Increase accountability**
- **Create visibility** into outstanding reports & action items
- Work **on/offline**

ASSET PERFORMANCE MANAGEMENT



- **Digitalize, standardize & streamline** your routine activities/rounds
- **Send** real-time data to the system & **assign action items**
- **Attach picture, video** and **audio** files to communicate with key leads
- **Condition based** maintenance, prescribing what actions to take in each situation
- Gain **visibility** into trends
- **Uncover hidden failures** with SCADA/Pi integration

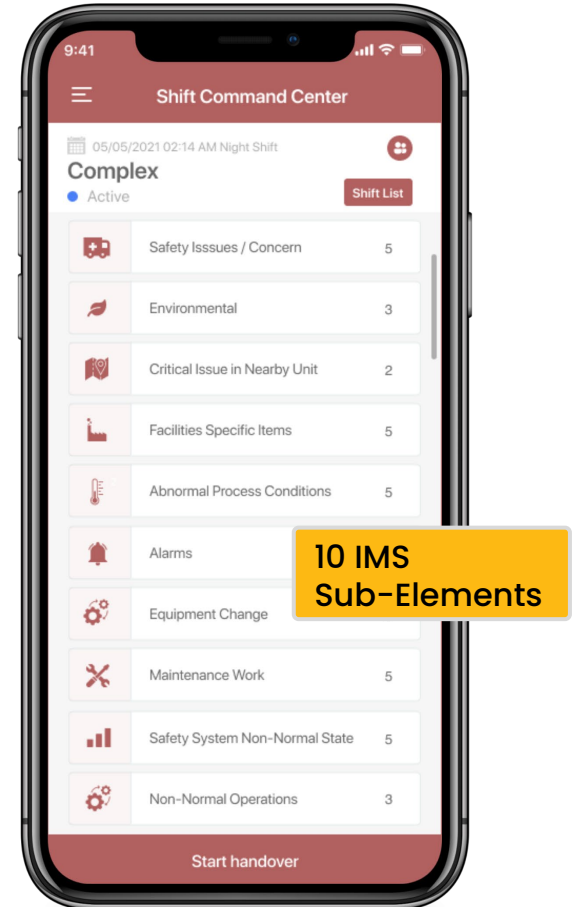
SHIFT MANAGEMENT

Challenges

- Poorly written notes (paper)
- Communication errors & gaps
- Knowledge gaps across shifts
- Technical misunderstandings
- Loss of historical shift data
- Lack of standard shift handover workflow
- Lack of visibility to comprehensive data
- Mostly unidirectional shift handover process
- Operator's biased mental models



Solutions

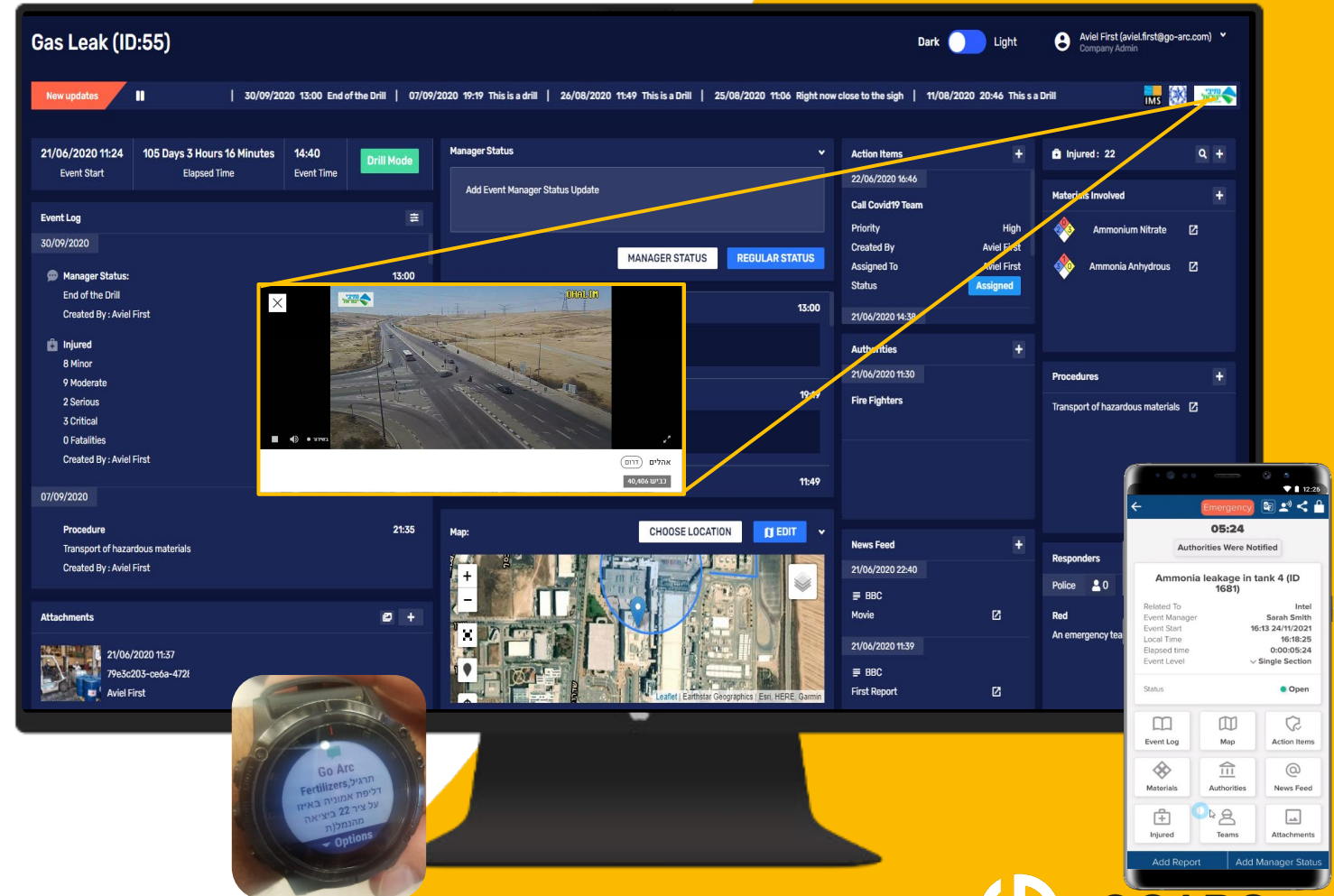
- Data visibility and availability across units/zones/areas/complexes/business systems
- Structured logbook with standard issue logging process
- Effective deviation management and knowledge transfer
- Eliminate the loss of shift data dependencies on operator mental models
- Structured Bi-Directional Shift Management



CRITICAL EVENT MANAGEMENT

A **single centralized source of truth** for real-time
Emergency event management

- **Visualize** critical information remotely
 - On your app/tablet 
 - Through any web browser 
- **Detect**/log hazardous materials
- **Assign & Activate** emergency teams quickly
- **Share** information easily
- Send/receive team & sensor **push notifications** quicker
- **Receive** real-time reports from the field
- **Navigate, log, communicate, debrief easier & faster**



OUTSTANDING CAPABILITY PORTFOLIO RECOGNIZED BY THE LEADING ANALYST IN THE MARKET



About Verdantix & the Green Quadrant

Verdantix is an independent research and consulting firm with expertise in digital strategies for Environment, Health & Safety, ESG & Sustainability, Operational Excellence and Smart Buildings. Based on proprietary Verdantix Green Quadrant methodology, the analysis combines benchmark data from three-hour live product demonstrations, responses to a 332-point questionnaire as well as integrated findings from a recent global survey of 301 EHS decision-makers across 25 industries and 35 countries. The report provides a detailed fact-based comparison of the 22 most prominent EHS software suppliers globally.

Verdantix Innovation Excellence Award 2022

1st Place for Integrated Process Safety Management



The Project: Launching digital Permit to Work and risk assessment solution during a Turnaround event

Benefits:

- Improved accessibility of permits
- Real-time identification of permit conflicts, and
- Effectively suspend work and resolve issues

ROI:

- Reduced work incidents
- Annual contract labor savings of almost \$2 million

David Metcalfe, CEO at Verdantix said: *"This year's winners have delivered genuinely outstanding technological innovations."*

About the Verdantix Innovation Excellence Award:

The awards, which celebrate the technology pioneers that are defining best practices through applied innovation, attracted a record number of global entries with companies from as far afield as Vietnam, Australia and India taking part. Winners range from multinational giants such as **Unilever and Danone** to smaller companies and family-owned businesses.