



WEATHERFORD AI: STRUCTURE AND TECHNOLOGY

Our Journey Through Integrated Projects

Wahid Shaikh

ISP-Global CoE Manager



AI SURVEILLANCE TO ENHANCE SAFETY

Why AI surveillance camera?

- Safety incidents can severely disrupt operations, often resulting in substantial financial and operational impacts with company's reputation in the industry.
- AI surveillance systems provide advanced, automated monitoring of critical safety parameters, significantly enhancing site security, compliance, and proactive risk management. Key capabilities include:



PPE Detection

- Automatically identifies the use of essential personal protective equipment, such as helmets, gloves, and coveralls



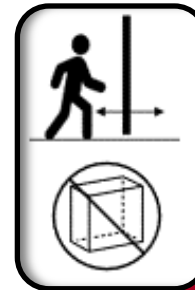
Human Behavior Monitoring

- Detects critical behaviors like falling, running, or physical assault



Forklift/Crane Surveillance

- Forklift, Crane on-site, tracking entrance, speed limits.

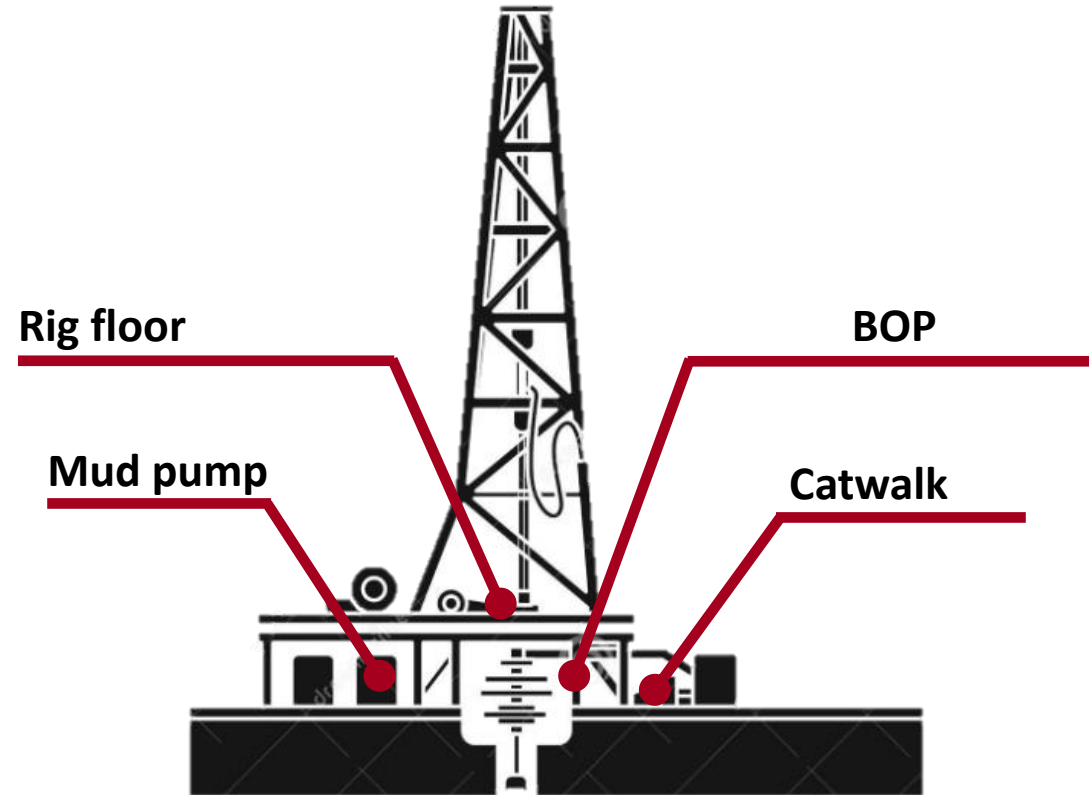
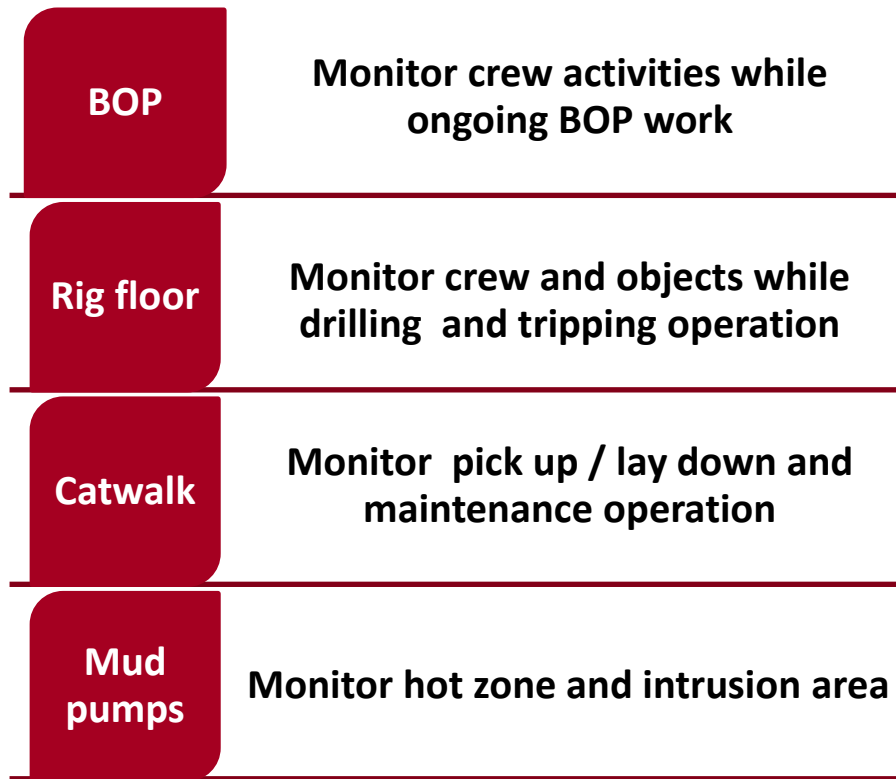
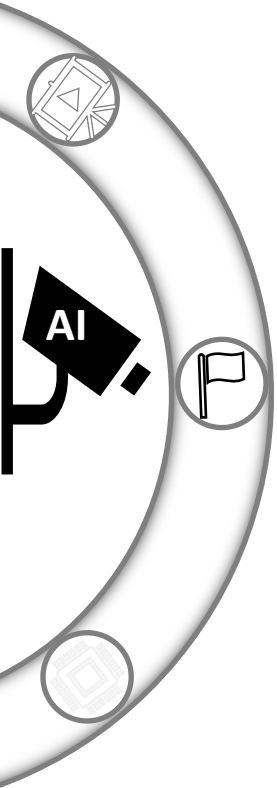


Object and Zone Monitoring

- Recognizes abandoned or missing objects and trigger high-risk zones entrance

WFRD-ISP-COE SUCCESS STORY

“Weatherford, in its commitment to safety, has launched AI cameras on five operational rigs in Major LSTK projects since Dec 2023”



THE CENTER OF EXCELLENCE JOURNEY

Future State

Linking AI detection to Life-Saving Rules for predictive, proactive safety insights across all operations. Develop in house technology stack

Mexico – Project 2024

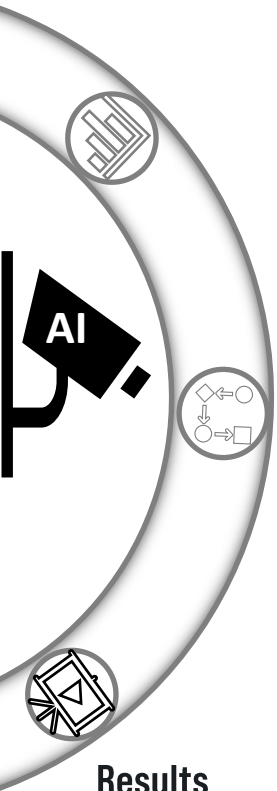
Established a mature CoE supporting 400+ wells. AI CCTV readiness in place once rig control is within scope.

KSA Re-Entry Project 2023

Expanded to enhanced AI capabilities for unsafe acts, human behavior, vehicle tracking, and zone intrusion.

Oman Project 2022

Introduced AI CCTV with basic PPE and zone detection through the CoE, forming the foundation of our framework.



Results

DELIVERED

3,371hrs

Potential NPT Saved

\$5M+

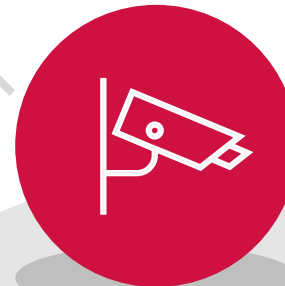
Total Savings

3,000+

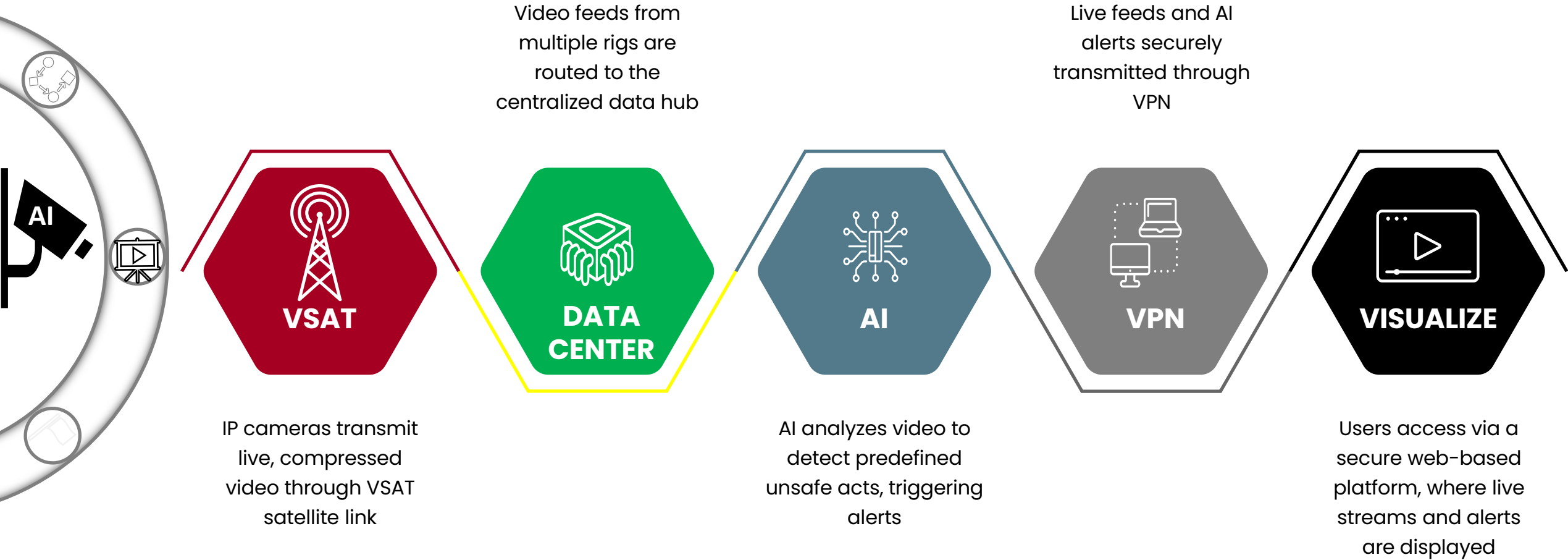
Observations & Interventions

22+

Stuck Incidents Prevented



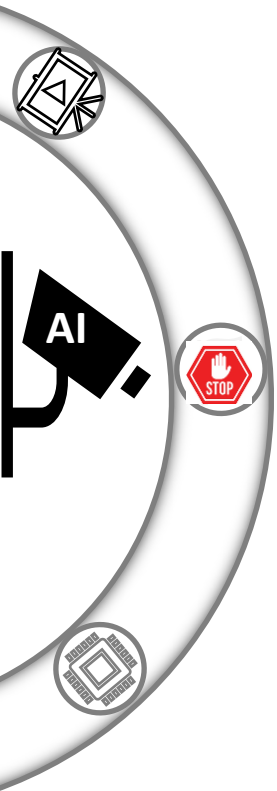
HOW IT WORKS - TECHNICAL



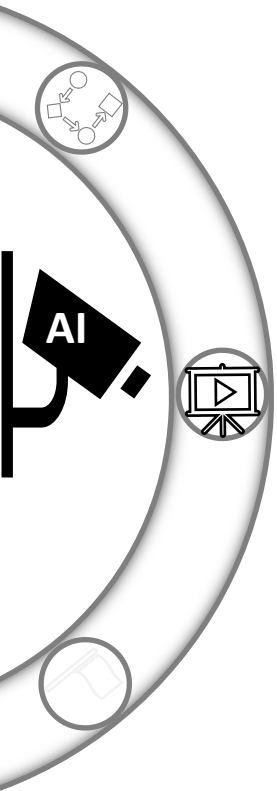
HUMAN DETECTION WITH INTRUSION IN RED ZONE-DEMO



- ✓ Auto detection for “Red Zone” on Rig/platform CCTV using AI Software.
- ✓ Option for Alarm and Notification any intrusion in Red zone.
- ✓ The AI technology will activate an alarm and display a red box visualization.
- ✓ This will instigate proactive action to prevent potential HSE incidents at Platforms and Rig Site locations.
- ✓ With the help of CCTV-AI system we can track various phases of intervention job.




AI EVENTS DETECTION & NOTIFICATION-DEMO



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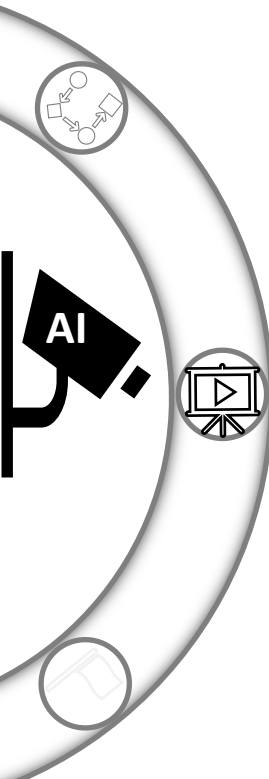
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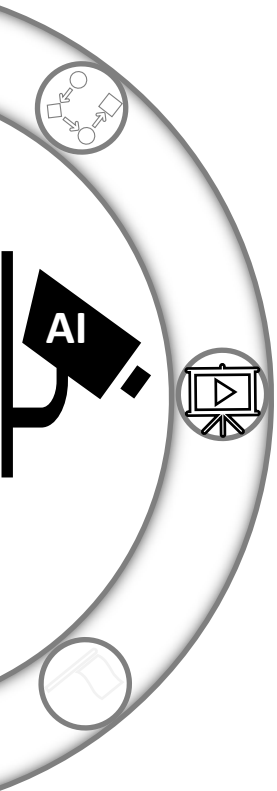
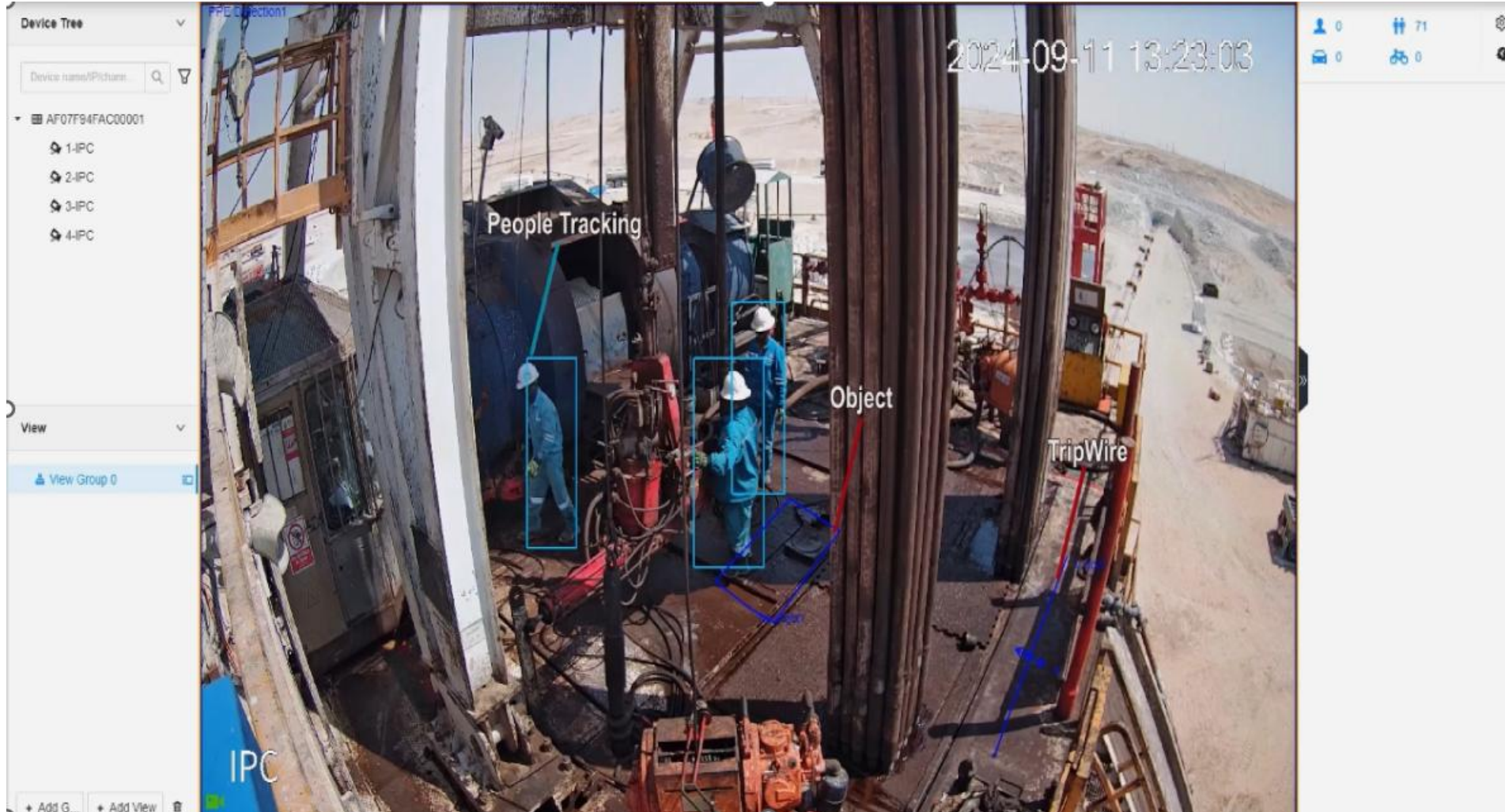
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AI EVENTS DETECTION & NOTIFICATION-DEMO

The screenshot displays a software interface for AI event detection and notification. On the left, a 'Device Tree' sidebar lists camera locations: SINO19, 1-SINO-19-RIG FLO..., 2-SINO-19-CATWALK, 3-SINO-19-BOP, and 4-SINO-19-MUD PU... Below this is a 'View' section with a list of view groups and individual views (View 0 through View 7). The main area features a 2x2 grid of camera feeds. The top-left feed shows the 'RIG FLOOR' with a blue AI detection box. The top-right feed shows the 'CATWALK' with a blue AI detection box. The bottom-left feed shows the 'BOP' (Blowout Preventer) with a blue AI detection box. The bottom-right feed shows the 'PUMP' (Mud Pump) with a blue AI detection box. A large 'EVENTS' button is located at the bottom right of the interface. The interface also includes a search bar for device names, a user list, and various control icons.



AI EVENTS DETECTION & NOTIFICATION-DEMO




AI EVENTS DETECTION & NOTIFICATION-DEMO



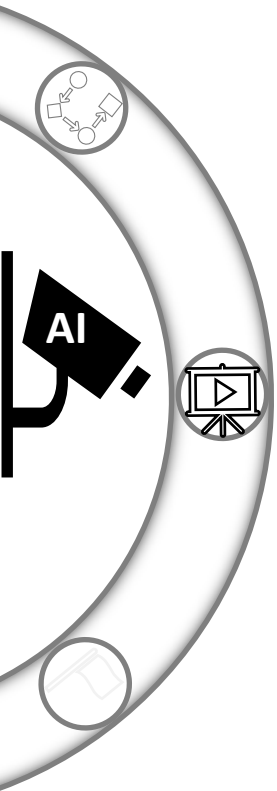
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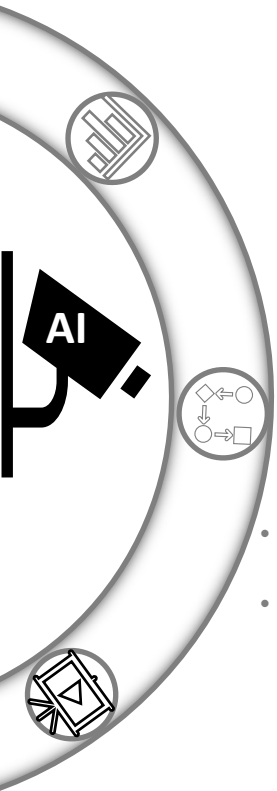
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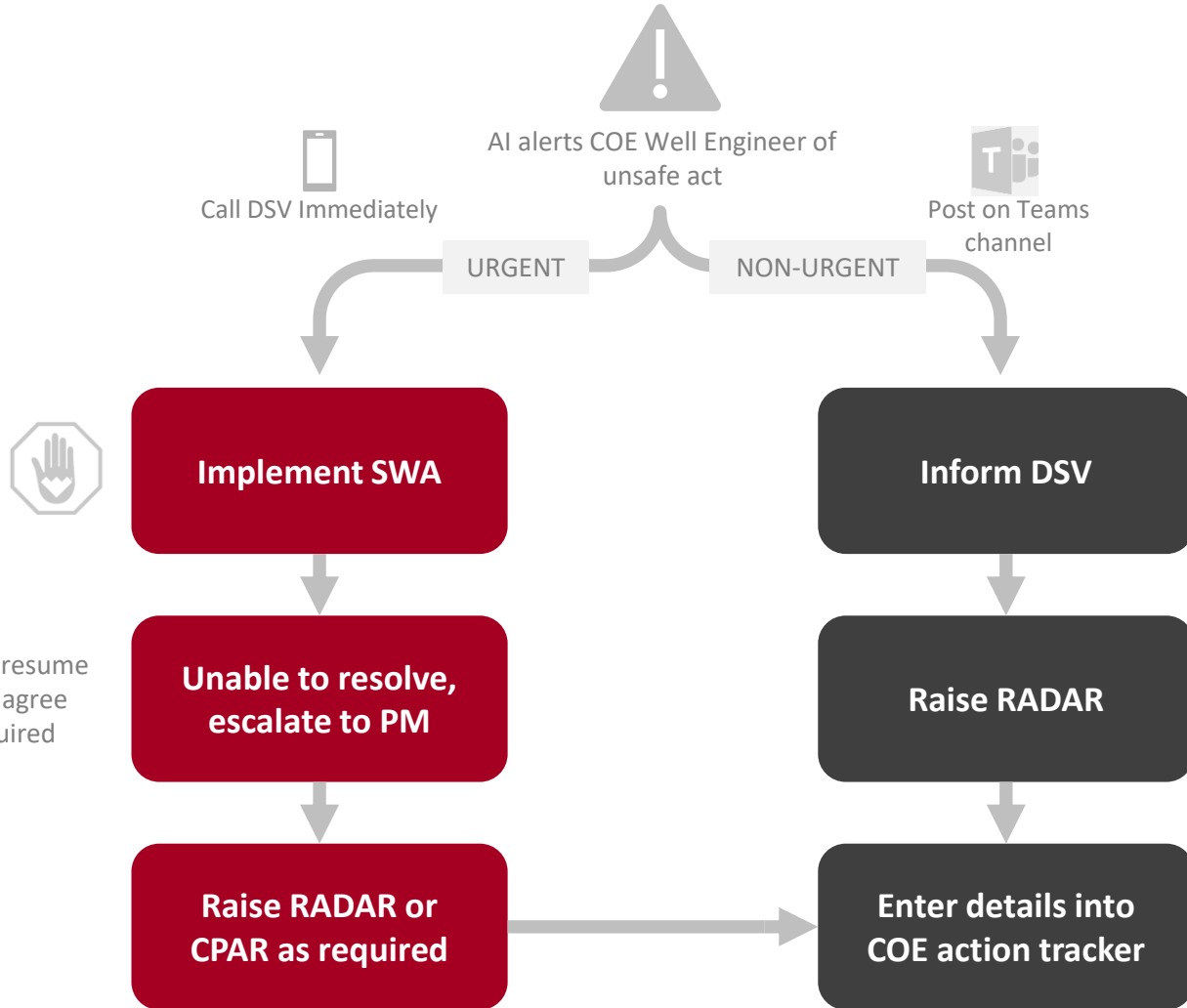
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ALERT WORKFLOW



- Work does not resume until all parties agree
- Escalate as required



*AI enabled cameras display and alerts are replicated at the wellsite in the WFRD Drilling Supervisor (DSV) office

HSE INTERVENTION POST PROCESS



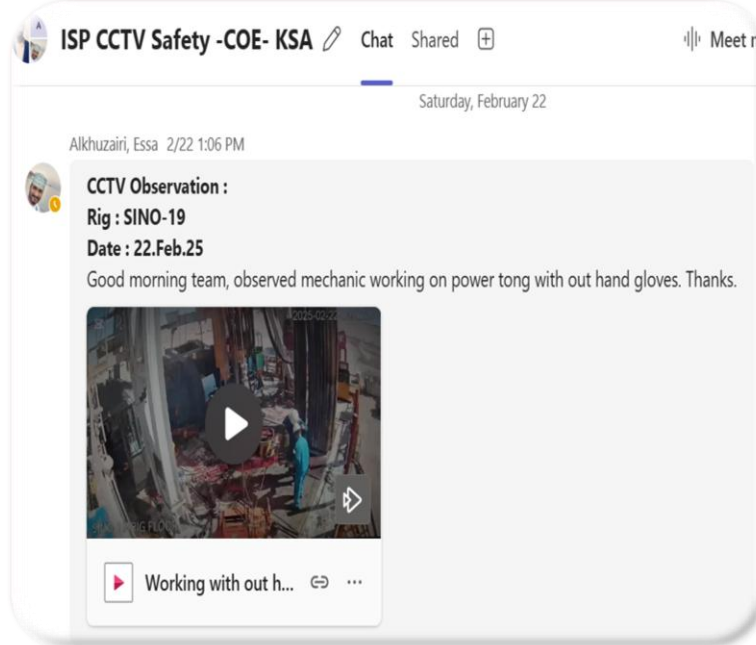
HSE event detection



Events captured in site



Highlight Risk



HSE chat group



Spread awareness

HSE MEETING RECORD

Rig Name: SINO-19 Location: VMW1660 Time/Date: 22.2.22 12:00

Pre tour Meeting Post Job/tour Meeting Pre job Meeting Others

Subject/Topics: Internal lesson learnt, RTH, PPE Risky

Contents:

- Review stop card and SWA with crew
- Discuss 12-2025 lesson learnt. Rigs Has LES Gas Detection system. 03-2025 lesson learnt. Critical unsafe act - working at heights
- Discuss the observation about clock power tong without gloves. Follow PPE procedure. Using the proper gloves change different job
- Run in hole operate power tong smoothly take care of hand and finger safety well control awareness, monitor the trip tank

Crew inputs: Stop work authority

The personnel listed below have participated and understood the topics covered in the meeting. The hazards have been discussed with all personnel. The content was translated into Arabic by M. Khan

No	Name	Company	Signature	No	Name	Company	Signature
1	Fu Huzha	SP/AM	[Signature]	18			
2	Zaidan	WE HSE	[Signature]	19			
3	Ji Qunson	SP	[Signature]	20			
4	Said	2P	[Signature]	21			
5	Mudhaka	2P	[Signature]	22			
6	[Name]	2P	[Signature]	23			
7	Alfahrie	2P	[Signature]	24			
8	Dilwaj Farq	SP	[Signature]	25			
9	Ali	SP	[Signature]	26			
10	Shahin	SP	[Signature]	27			
11	Said	2P	[Signature]	28			
12	Hussain	2P	[Signature]				
13	[Name]	2P	[Signature]	1			
14	[Name]	2P	[Signature]	2			
15	[Name]	2P	[Signature]	3			
16	[Name]	2P	[Signature]	4			

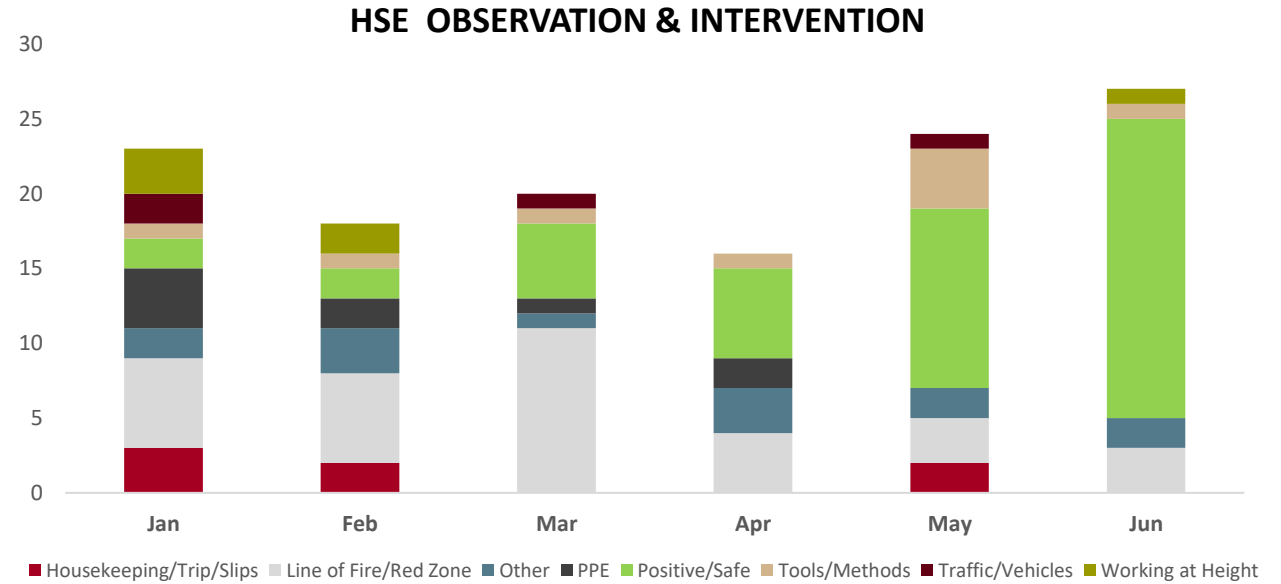
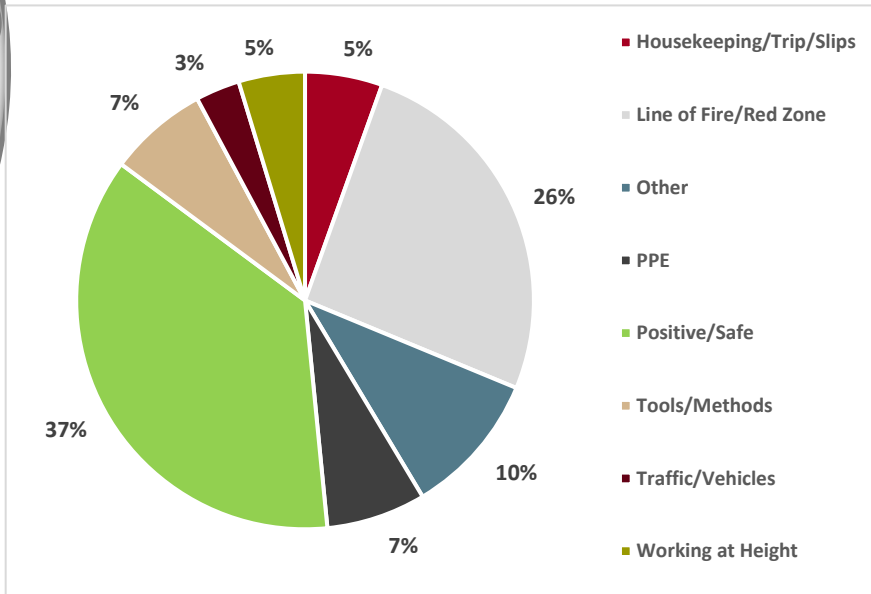
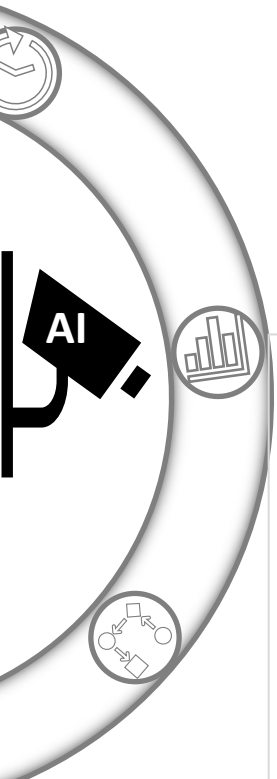
Subsequent workers if any

TBT meeting

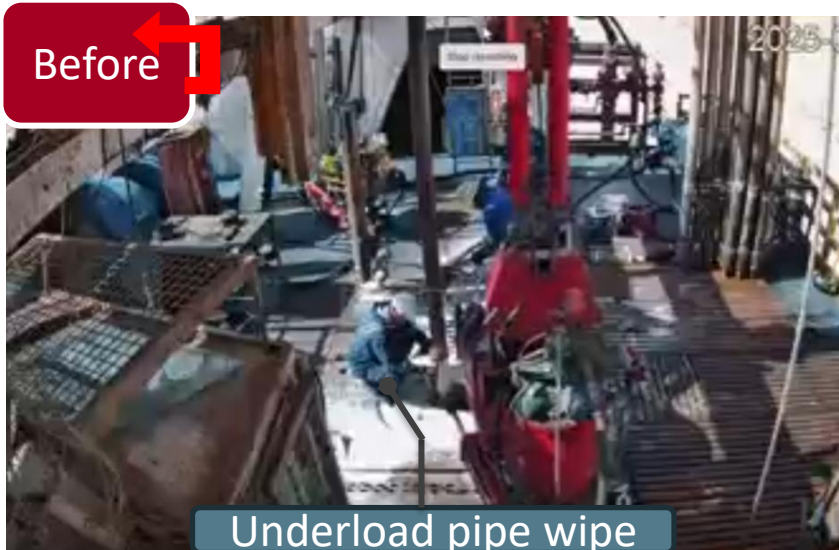
HSE INTERVENTION STATS

“Proactive monitoring + timely intervention = safe environment”

Since kickoff, monitoring has captured a range of events—from PPE compliance to line-of-fire exposures. As teams adapted to the process, we saw a clear reduction in line-of-fire incidents alongside an increase in recorded positive acts. Together, these trends signal real progress toward a proactive safety culture and safer on-site behavior.



CHANGE OF BEHAVIOR



Significant reduction in Line of fire intervention, additionally, increased safe /positive attitudes

