SAFETY GALA ALBANIA

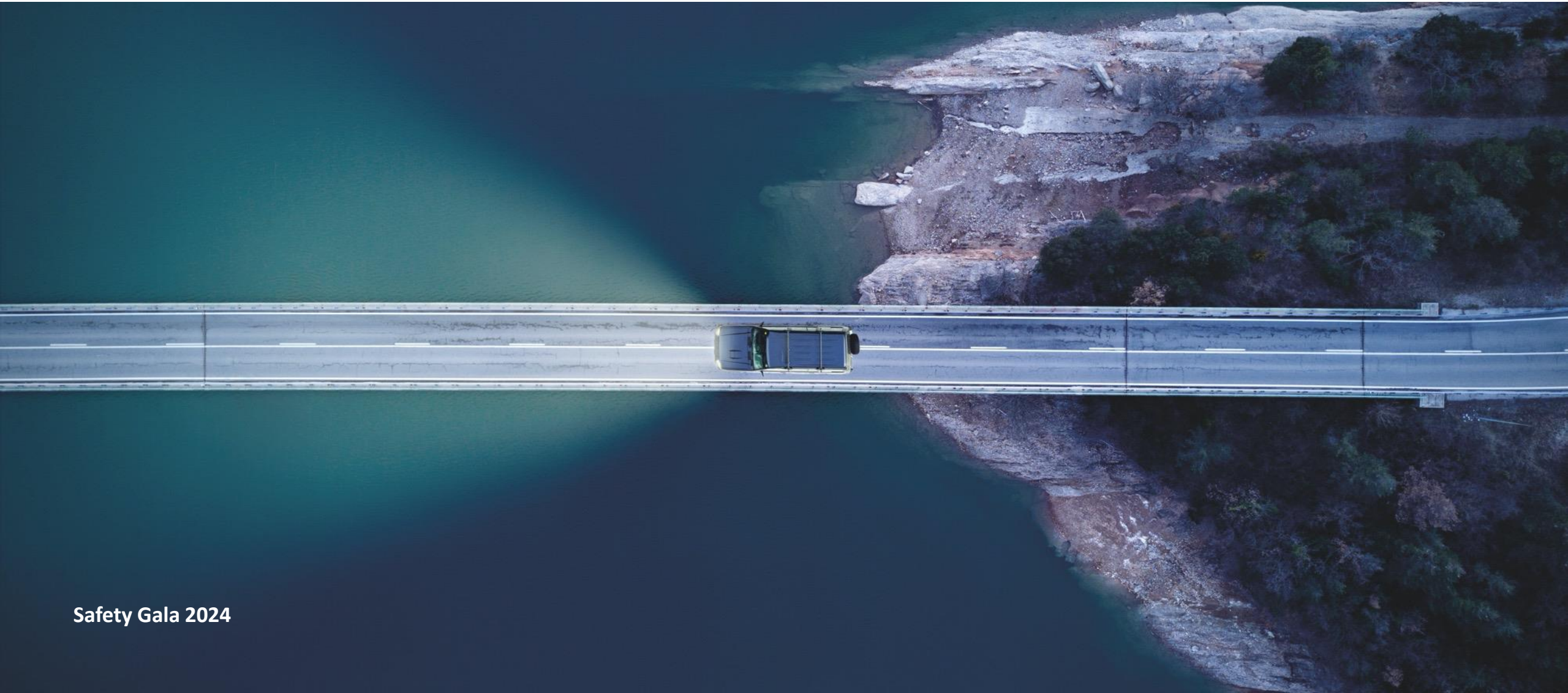
Mr. Elis Kollçaku

HSE MANAGER

ANTEA Cement SH.A. - TITAN GROUP

Elevating Safety and Operations: Digital Innovations for a Safer Future

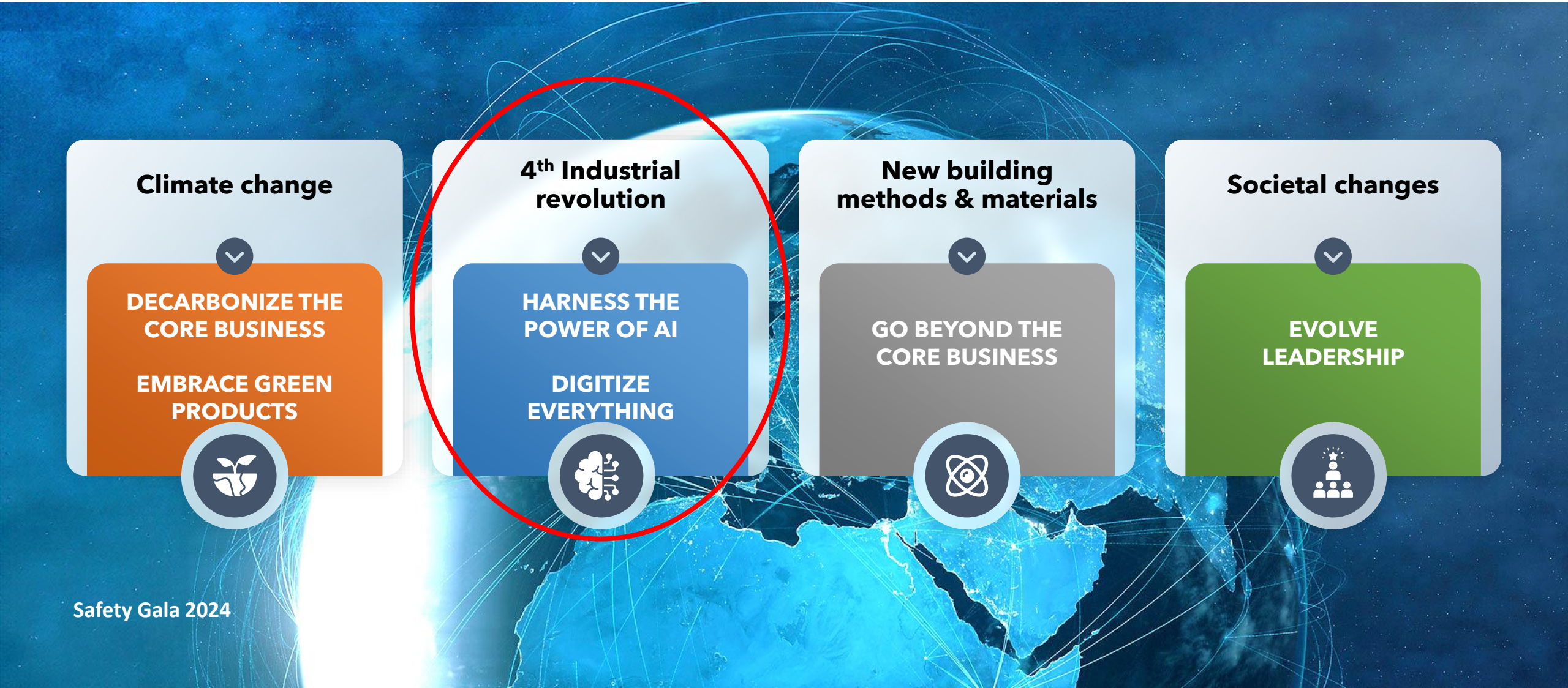
TITAN UP, RTO, Precognize



Safety Gala 2024

A rapidly changing world creates new opportunities but necessitates transformational change

TITAN ALBANIA

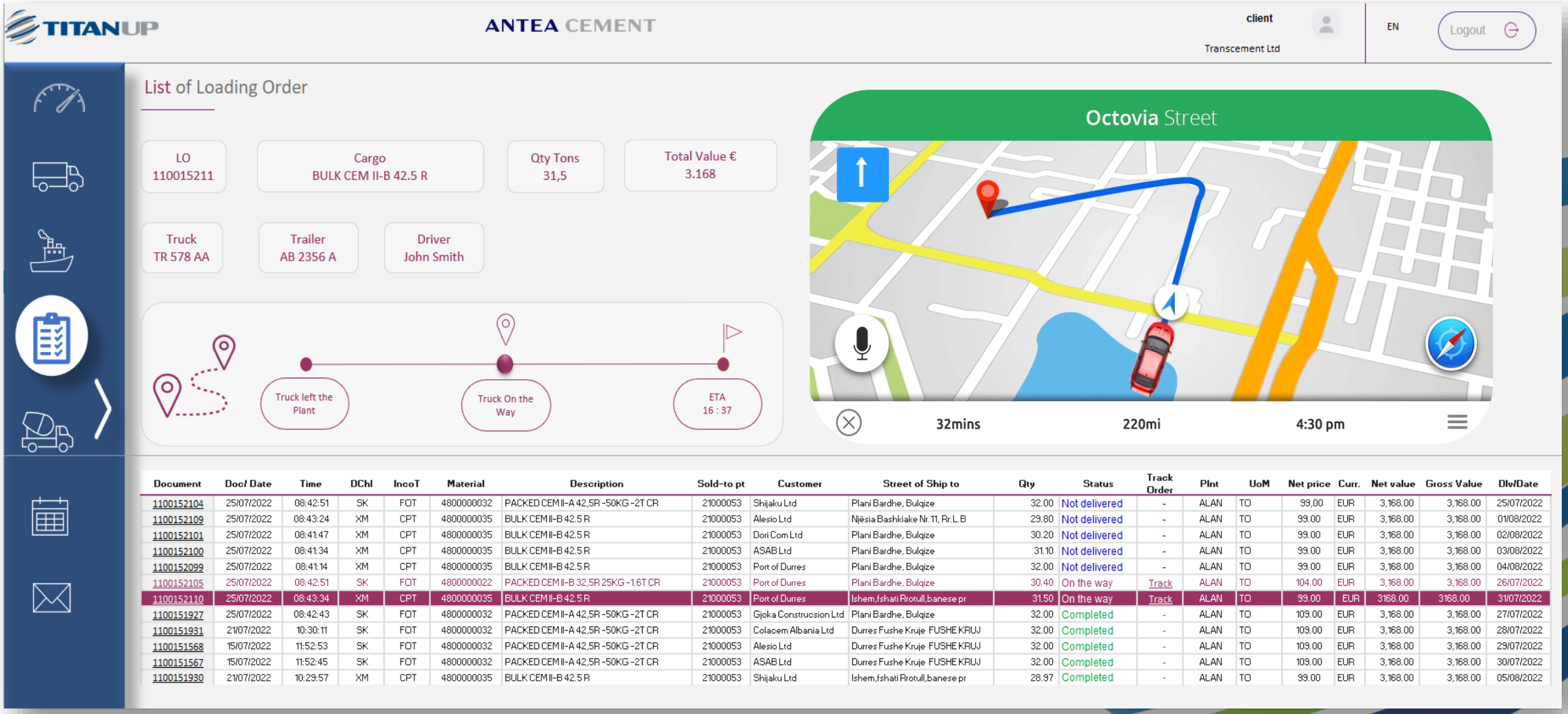


TitanUP

Parking and Queuing System

TitanUP

Fleet monitoring



Document	Doc/ Date	Time	DChl	IncoT	Material	Description	Sold-to pt	Customer	Street of Ship to	Qty	Status	Track Order	Plnt	UoM	Net price	Curr.	Net value	Gross Value	Dlv/Date
1100152104	25/07/2022	08:42:51	SK	FOT	4800000032	PACKED CEM II-A 42,5R -50KG -2T CR	21000053	Shijaku Ltd	Plani Bardhe, Bulqize	32.00	Not delivered	-	ALAN	TO	99,00	EUR	3,168.00	3,168.00	25/07/2022
1100152109	25/07/2022	08:43:24	XM	CPT	4800000035	BULK CEM II-B 42.5 R	21000053	Alesio Ltd	Njësia Bashkiake Nr.11, Rr:L.B	29.80	Not delivered	-	ALAN	TO	99.00	EUR	3,168.00	3,168.00	01/08/2022
1100152101	25/07/2022	08:41:47	XM	CPT	4800000035	BULK CEM II-B 42.5 R	21000053	Dori Com Ltd	Plani Bardhe, Bulqize	30.20	Not delivered	-	ALAN	TO	99.00	EUR	3,168.00	3,168.00	02/08/2022
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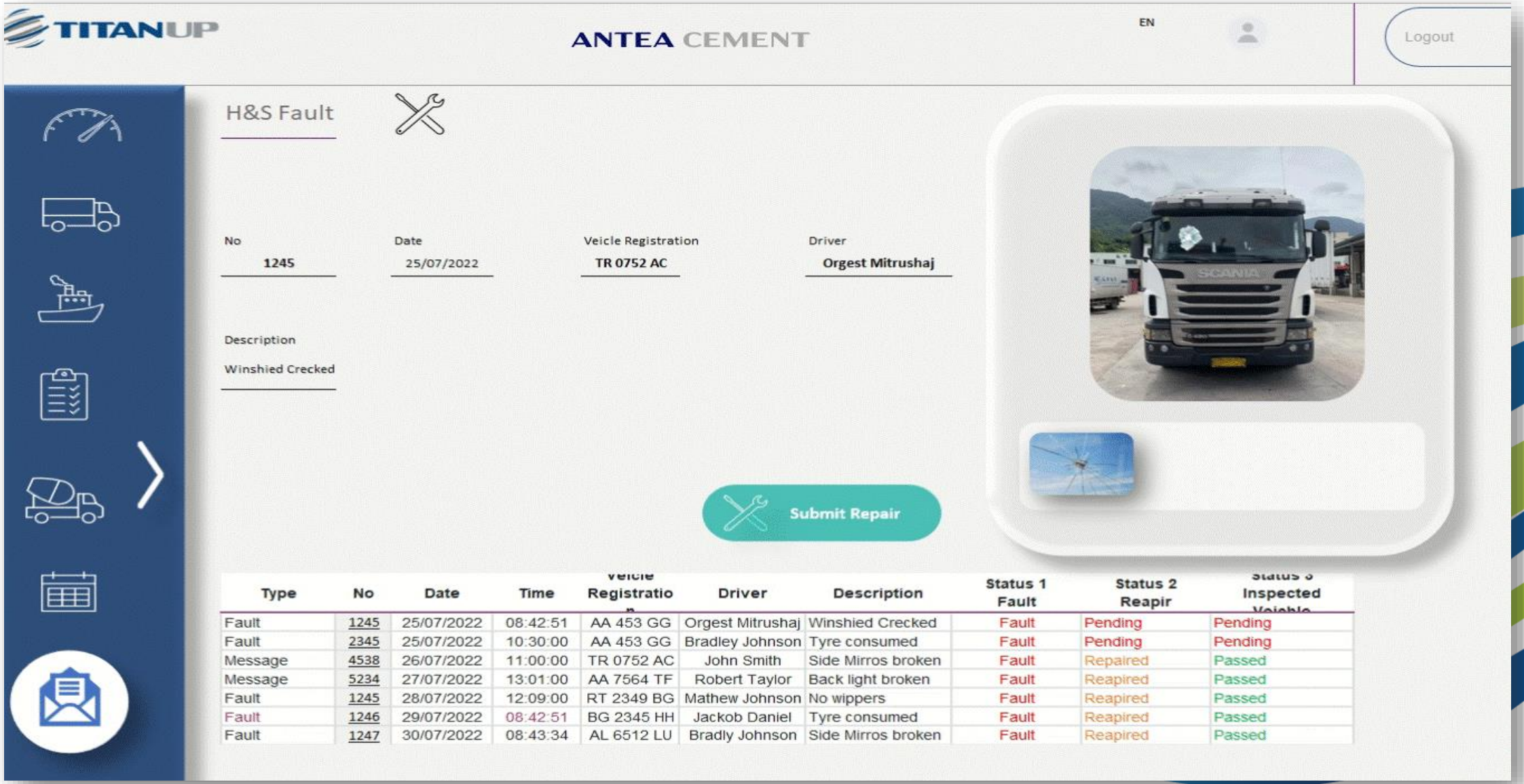
TitanUP

H&S Issues Reporting



Type	No	Date	Time	Veicle Registratio n	Driver	Description	Status 1 Fault	Status 2 Reapir	Status 3 Inspected Veicle
Fault	1245	25/07/2022	08:42:51	AA 453 GG	Orgest Mitrushaj	Winshied Crecked	Fault	Pending	Pending
Fault	2345	25/07/2022	10:30:00	AA 453 GG	Bradley Johnson	Tyre consumed	Fault	Pending	Pending
Message	4538	26/07/2022	11:00:00	TR 0752 AC	John Smith	Side Mirros broken	Fault	Repaired	Passed
Message	5234	27/07/2022	13:01:00	AA 7564 TF	Robert Taylor	Back light broken	Fault	Reapired	Passed
Fault	1245	28/07/2022	12:09:00	RT 2349 BG	Mathew Johnson	No wippers	Fault	Reapired	Passed
Fault	1246	29/07/2022	08:42:51	BG 2345 HH	Jackob Daniel	Tyre consumed	Fault	Reapired	Passed
Fault	1247	30/07/2022	08:43:34	AL 6512 LU	Bradly Johnson	Side Mirros broken	Fault	Reapired	Passed

RTO – Real Time Optimization

Titan's Next Generation Support

Titan has developed **the next generation of support for operators.**

This includes **automated and autonomous** systems.

Real-time optimization of operations.

Self-learning from new situations using AI

RTO – Real Time Optimization

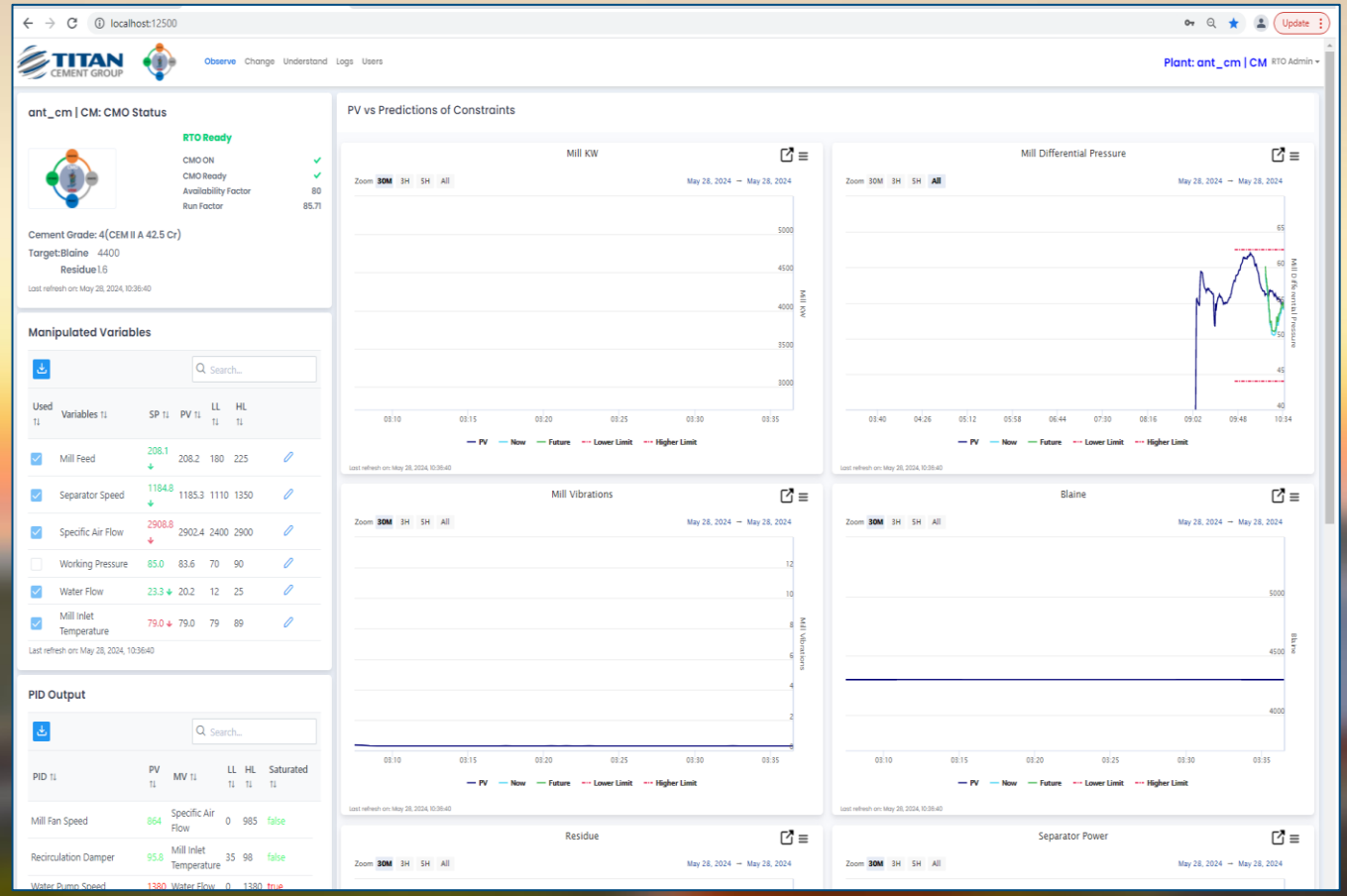
Data Integration and Real-Time Improvement

Data Integration and Real-Time Improvement

Thousands of sensors integrated with plant equipment.

Sensors record mechanical, electrical, quality, and environmental data.

AI and digital experts organize and use this data to improve operations in real time.



RTO – Real Time Optimization

Innovative Real-Time Optimization

This innovation **enables new data** analysis capabilities.

Data leads to **real-time production line optimization.**

Impressive production benefits.

- **Improved** energy consumption.
- **Reduced** CO2 emissions.
- **Enhanced** overall environmental performance.
- Better **product quality.**
- **Dynamic** and flexible processes.
- **Less** bureaucracy.
- **Higher safety**, agility, and effectiveness

Precognize – Predictive Maintenance

Precognize System Overview

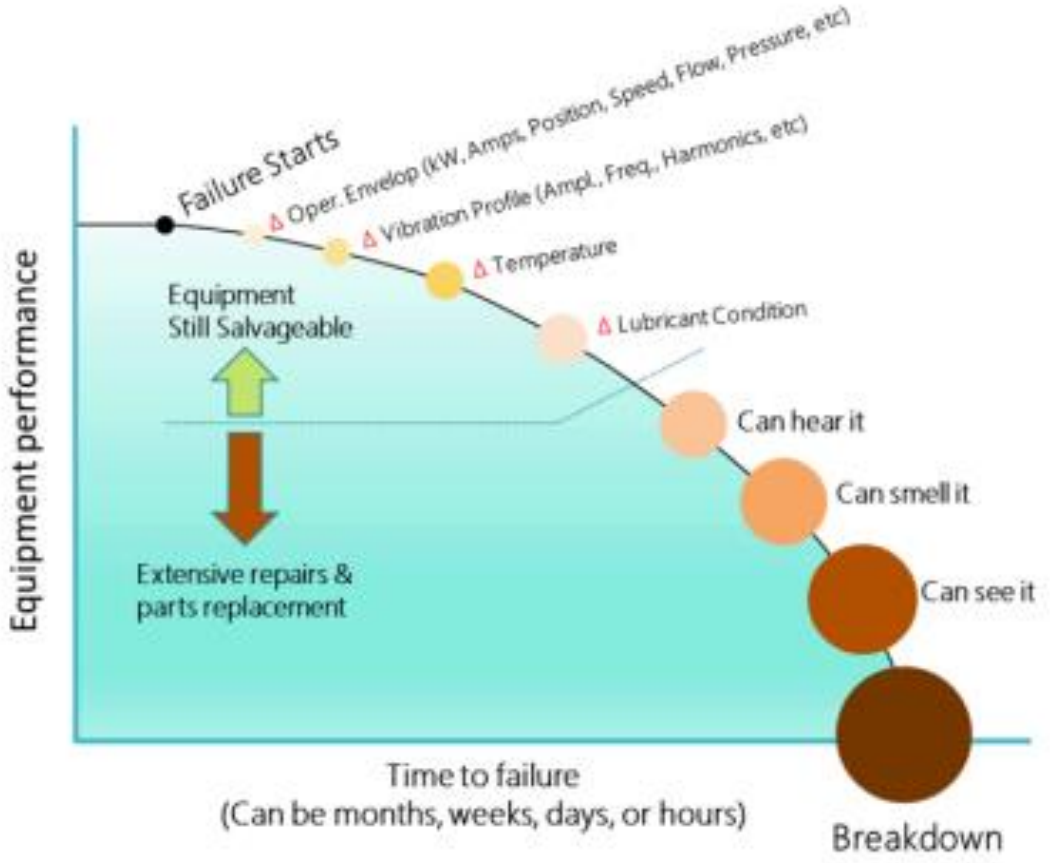
"Precognize" is a machine learning-based failure prediction system.

Tailored to the operational context in our cement factory.

Assists operational inspection direction.

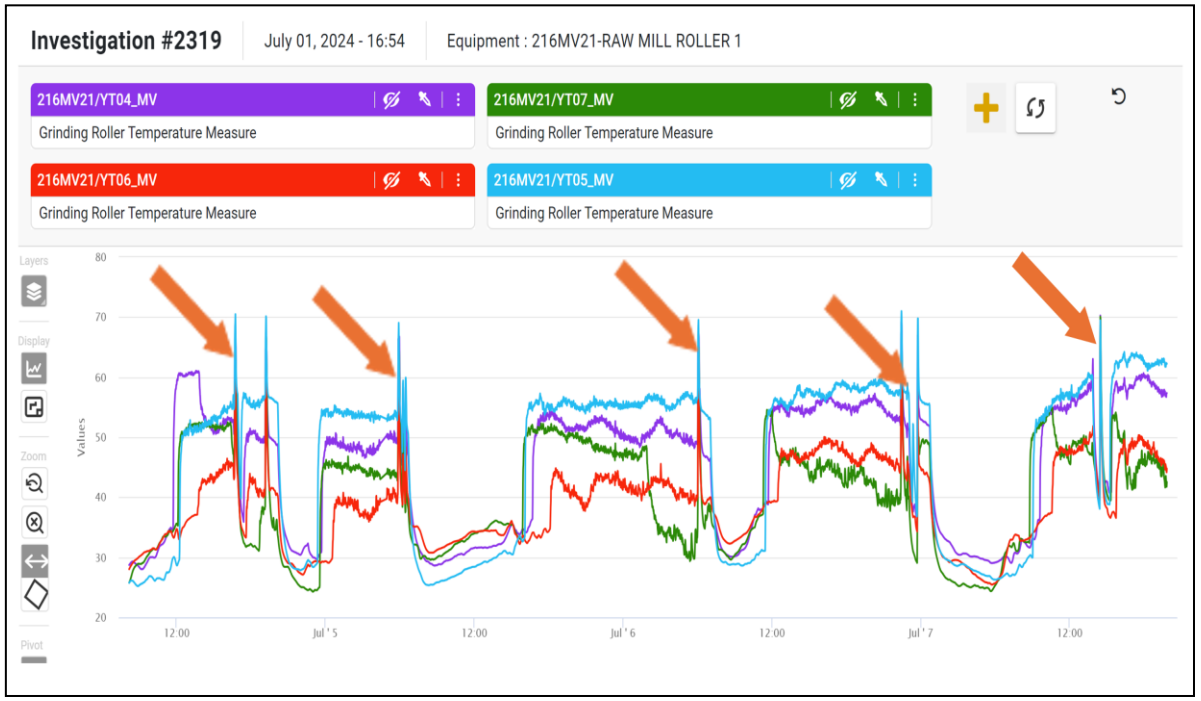
Reduces the cost of unplanned repair.

Increases efficiency, reliability and safety.



Precognize – Predictive Maintenance

Innovative Real-Time Maintenance Prediction



The system uses over 2,000 sensor inputs (temp., vibration, pressure, etc.)

Monitors equipment for deviations from normal operations.

Analyzes real-time and historical data 24/7 using powerful AI algorithms.

Enables early detection of operational or process anomalies.

Creates events to find problems before they occur.

Precognize – Predictive Maintenance

Benefits Maintenance Prediction

Generates alerts for specific maintenance activities.

Allows targeted maintenance **intervention efforts.**

Reduces repair and **maintenance** costs.

Minimizes downtime.

Maximizes operational **efficiency, reliability** and **safety**

Leading supplier of building materials solutions everywhere we operate, delivering long-term value to our stakeholders