DrillDocs

Unlocking the missing parameter
in your drilling data stack



CLEANSIGHT®

Every critical drilling parameter is instrumented. Except one.

Cuttings Return Rate — the continuous, real-time measurement of what is coming off your shaker — has never been measured reliably.
Not because the industry decided it didn't matter. Because no reliable instrument existed.

Until now.

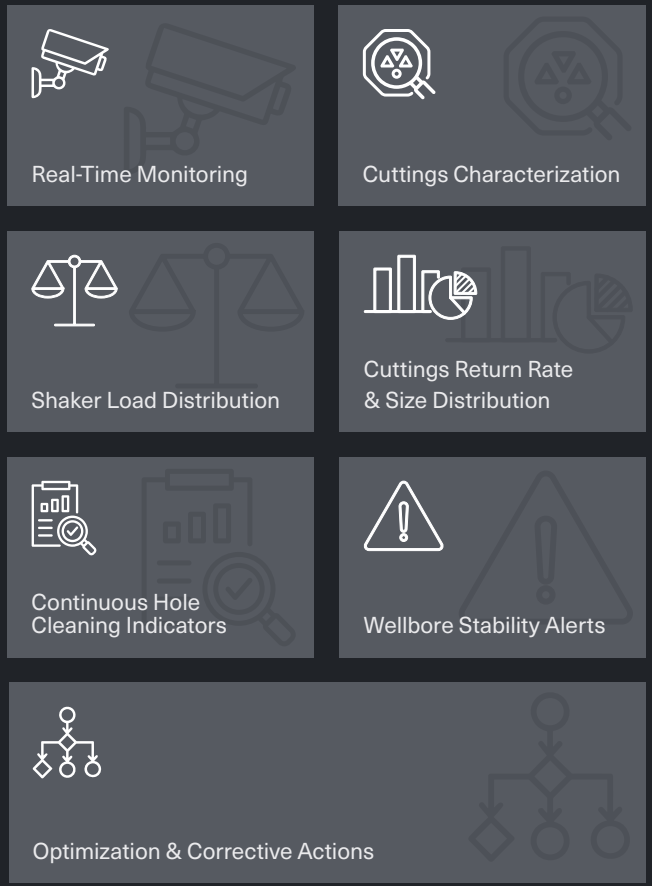


Real-time measurement of what's coming off your shaker. For the first time.

Your drilling team manage wells using continuous, real-time measurements: ECD, ROP, pump pressure, torque and drag, pit volume. Every critical parameter is instrumented — logged, trended, and acted upon as standard practice.

But Cuttings Return Rate — what is actually coming off the shaker, in what volume, size, and morphology — is at best modeled, at worst missed, but always imprecise and discontinuous. The data that would enable earlier, better hole-cleaning decisions simply doesn't exist in real time.

CleanSight closes that gap.



Three parameters.
Continuously.
From every shaker.



- Cuttings Return Rate (CRR)
- Cuttings Size Distribution (CSD)
- Cavings Detection (aka UFOs - unidentified falling objects)

Traditional mud logging and bucket tests provide infrequent, inaccurate, and delayed information.

The clearest signal of borehole instability is when cavings start coming across the shakers, but it's regularly missed because nobody is watching.

Judging whether the borehole is clean enough to drill faster or trip out is often a game of wait-and-see, creating thousands of dollars in hidden non-productive time and placing personnel in harm's way.

CleanSight eliminates the need for crew observations and replaces them with continuous, real-time shaker surveillance that enables safer and more efficient drilling.



Integrates into your existing data ecosystem.

CleanSight feeds CRR, CSD, and UFO data directly into your rig data system via WITSML or MQTT — alongside ECD, PWD, rheology, and hole-cleaning model outputs.

It is already integrated into several operators' drilling advisory environments, where it provides a unified view for the operations geologist, driller, and remote operations team.

Installation is truly plug-and-play. The system installs and commissions between wells with no interruption to drilling operations.



Allows you to level up model accuracy.

More importantly, this data can be used to update models in real time, optimizing the current well and improving predictive capability for future drilling operations.



CleanSight doesn’t replace models.

It makes them honest... and more accurate.

Drilling is notoriously dynamic and multi-variable, yet today's cuttings transport models still assume key inputs and only support drilling operations - leaving the team blind during clean-up cycles, while tripping out the BHA, and while running casing.

This results in billions of dollars per year in non-productive time and remedial actions.

Stuck pipe sucks! (and can destroy well economics.)



Real Metrics.
Real Value.

Real ROI.

Americas



Source: Stena Drilling

Continuous cuttings return rate

during clean-up cycles at section TD enables decisions to safely trip out sooner than the legacy clean-up procedure would have allowed, resulting in significant reductions in invisible lost time.

Hole cleaning efficiency

monitored during drilling, clean-up, and while tripping.

Up to 25%

reduction in average circulating time, saving tens of thousands of dollars per well in lost rig time.

Expanding deployment

to additional rigs and business units.

Early detection

of cavings enables proactive drilling and mud parameter adjustments, reducing the occurrence of sticky and stuck pipe incidents and the risk of sidetracks.

Shaker performance monitoring

to detect screen overflow and blinding, and minimize downtime caused by auger plugging.

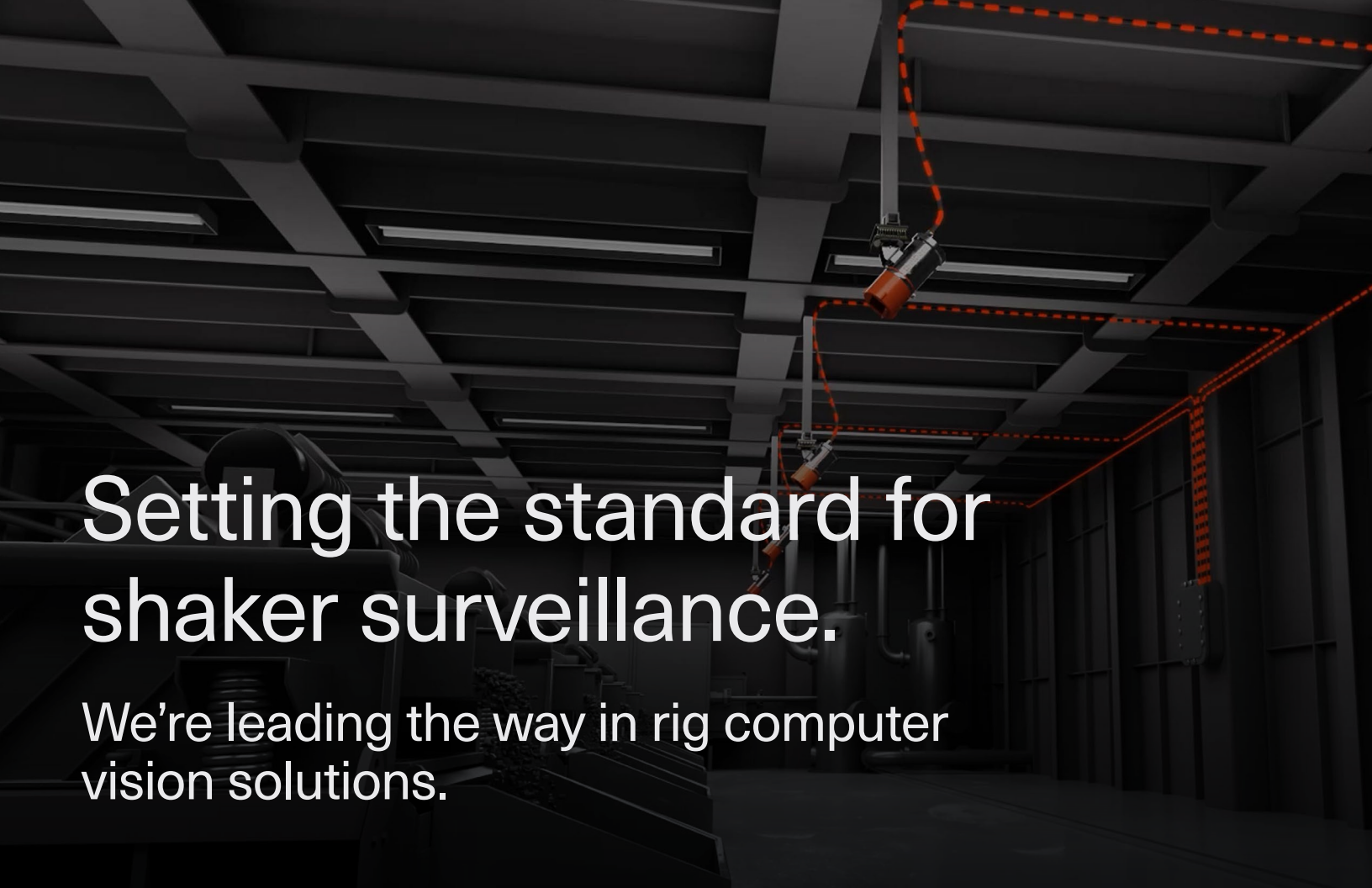
536% ROI

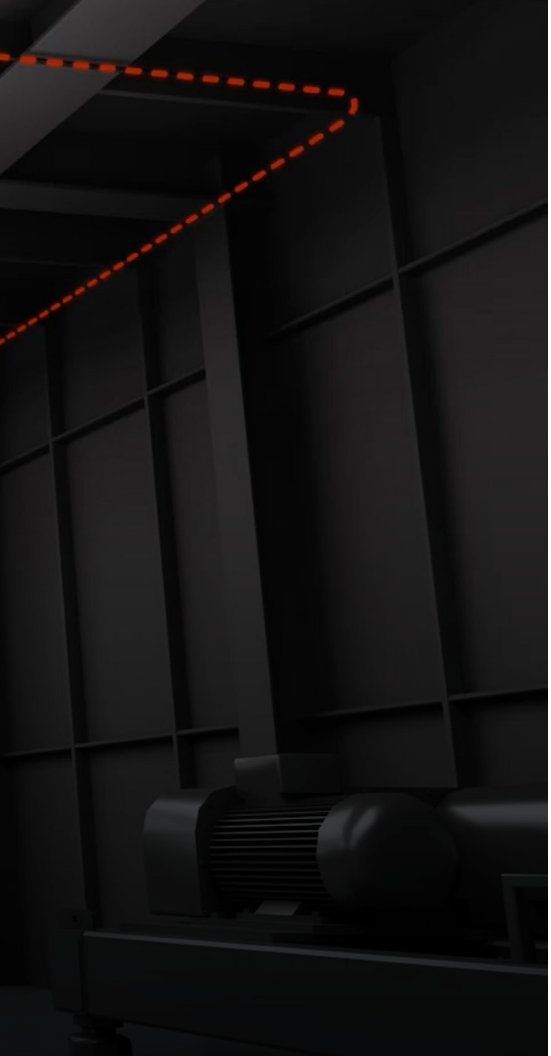
projected through multi-rig deployment, with over US$ 9M in net value creation.



Expanding deployment

fleet-wide under technology framework agreement.


Setting the standard for shaker surveillance.
We’re leading the way in rig computer vision solutions.

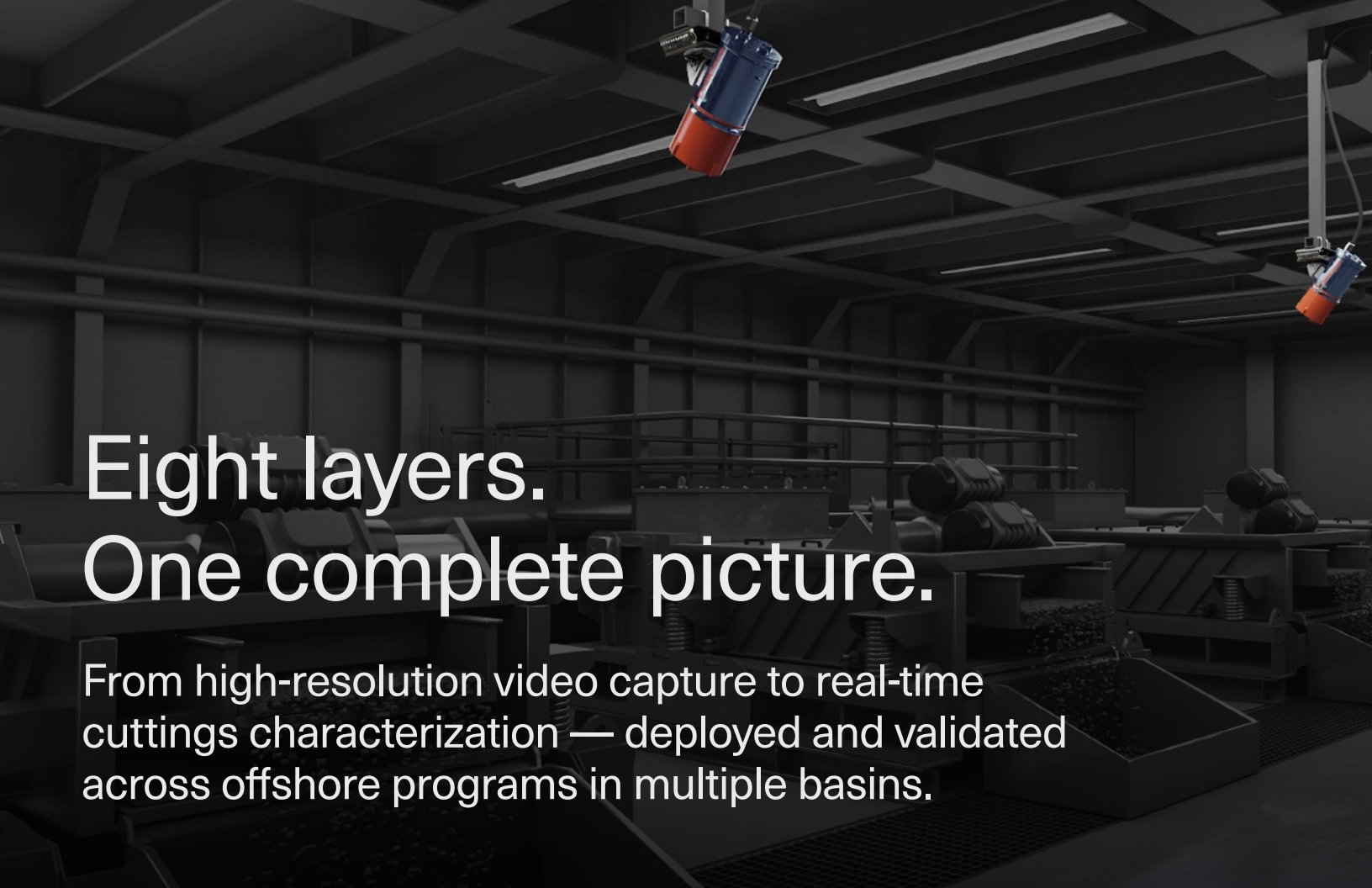


DrillDocs was founded to solve a specific, persistent problem: the absence of reliable, real-time measurement of cuttings recovery and cavings.

CleanSight is our solution — and we are building the industry's first cuttings image dataset, learned by bit size across formations and basins.

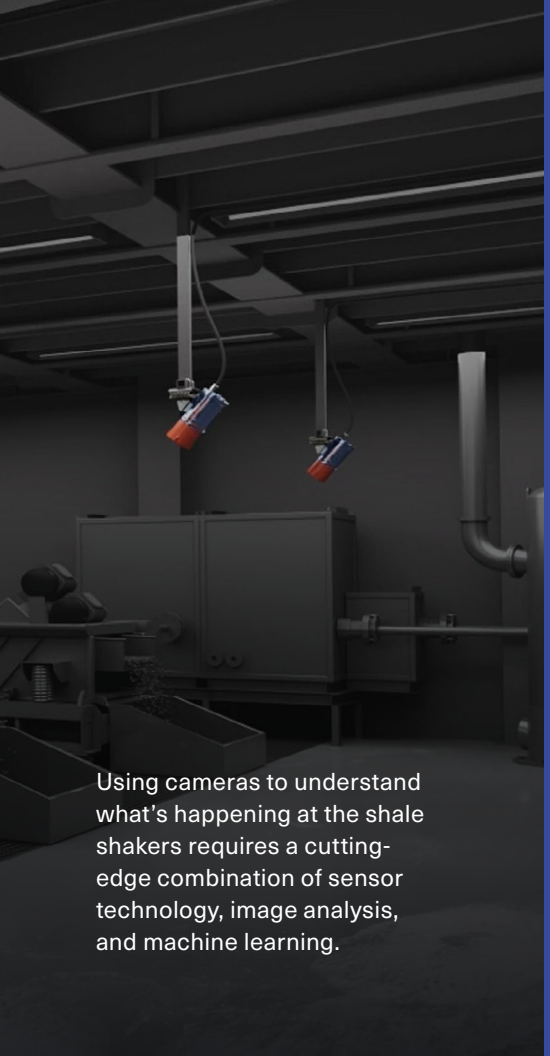
Our ambition is for Cuttings Return Rate to become a must-have drilling parameter on every rig — measured continuously, acted on in real time, and integrated into the drilling data stack as a matter of course.

That standard is already being set by the operators who get it.



Eight layers.
One complete picture.

From high-resolution video capture to real-time cuttings characterization — deployed and validated across offshore programs in multiple basins.



Using cameras to understand what's happening at the shale shakers requires a cutting-edge combination of sensor technology, image analysis, and machine learning.

01

Camera

(one per shaker)

Capture high-resolution video of the region of interest, where cuttings fall off the shaker table in a predictable way.

02

Pre-processor

(in the camara)

Edge computing onboard the camera compresses the video feed, extracts usable images, uses machine learning to identify and characterize objects, and generates initial measurements.

Data routed via fiber optic cable to the server.

03

Server

(on the rig)

Rig site server generates cuttings inventory in near-real time (CRTI = cuttings real-time inventory), from which shaker load estimate (SLE), cuttings return rate (CRR), and cuttings size distribution (CSD) are derived and fed into the rig data system via MQTT or WITSML protocols.

04

Store & transmit data

(rig to shore)

Store up to 1 month of video data offshore.

Output data archived in rig data store. Transmit processed data and alerts (and optionally, compressed video feed) via internet (over secure satellite link) to client onshore center and DrillDocs' remote monitoring team (for system monitoring and alert verification)

05

Live video feed

Increase situational awareness on the rig without crew having to enter the hazardous shaker room

06

Trend analysis while drilling

During drilling, monitor cuttings recovery to determine hole cleaning performance & alert to deviations potentially requiring changes in drilling parameters (ROP, WOB, pump rate, mud properties, etc.)

This will be a critical data stream for future automated and autonomous drilling systems.

07

Caving alerts

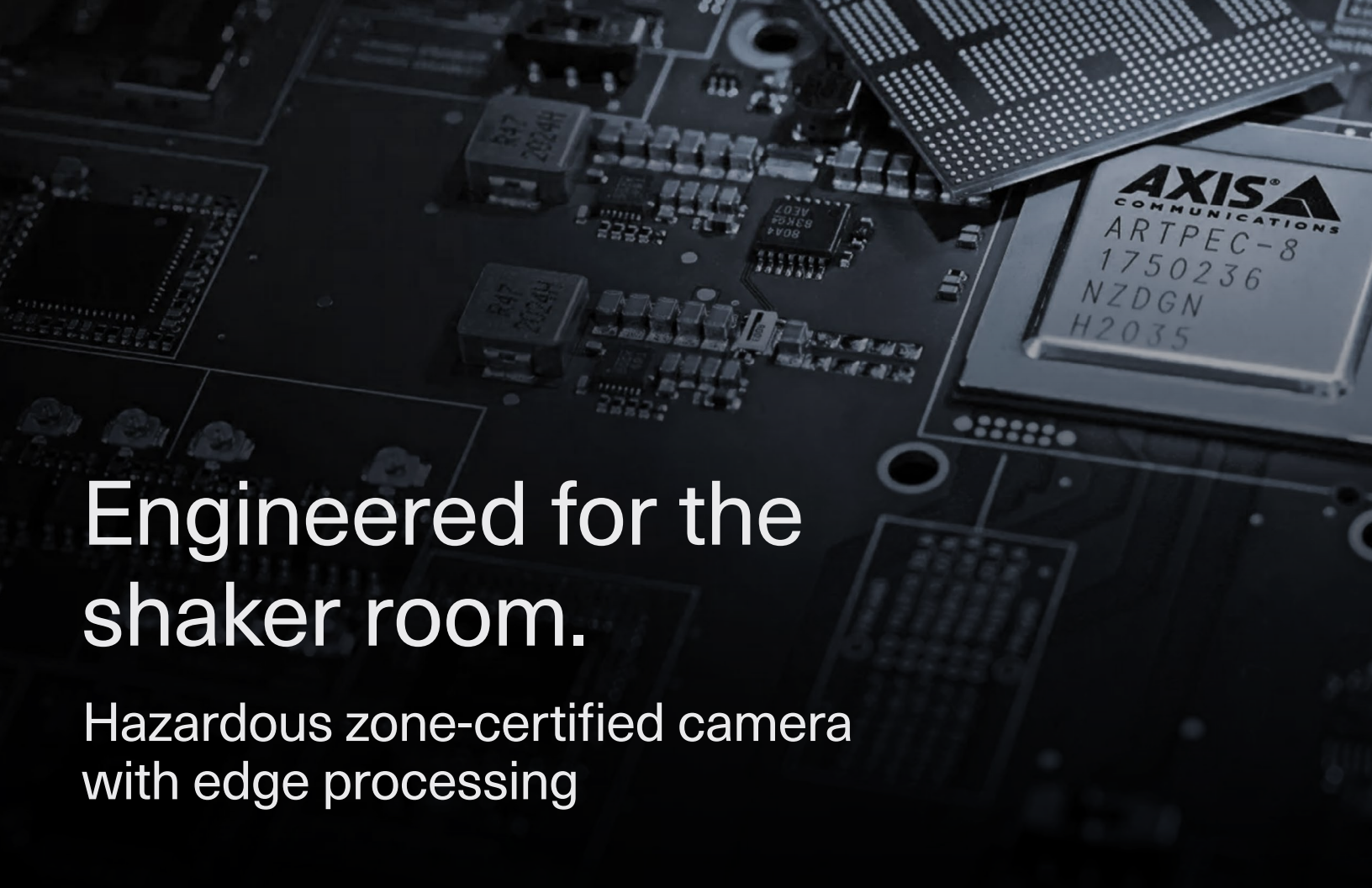
UFO alerts generated offshore based on objects above user-defined threshold, triggering video clip capture (6 seconds) and alert to onshore and offshore teams. DrillDocs real-time center reviews alerts to minimize false positives. Client RTOC and rig team review alerts to characterize UFO (debris or caving type) and initiate appropriate response workflow.

08

Hole cleaning before tripping

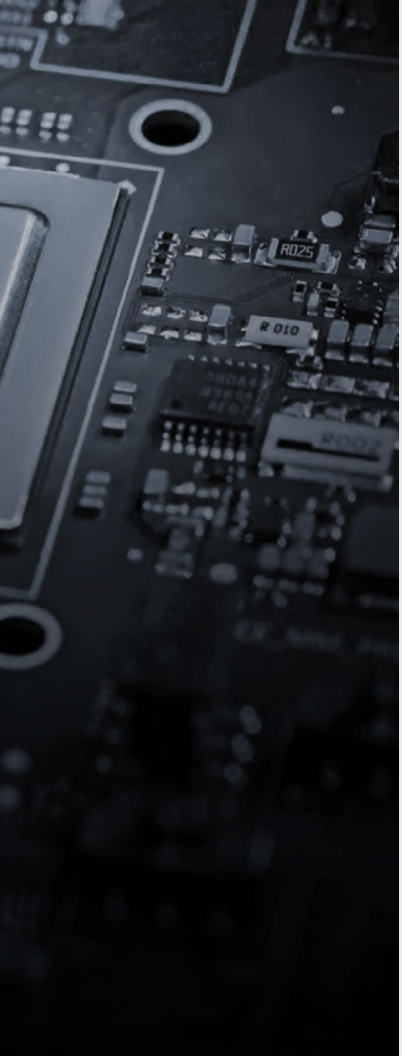
(OK2Trip®)

While circulating before tripping, CleanSight measures cuttings returns continuously — determining when the hole is genuinely clean based on what is actually coming off the shaker, not just when a volume threshold has been reached. Operators using OK2Trip® have reduced CBU circulating time while maintaining well integrity confidence. This is the difference between estimation and measurement.



Engineered for the shaker room.

Hazardous zone-certified camera with edge processing



The shale shaker room is one of the harshest environments in offshore drilling — Class I Division 1 hazardous area classification, constant vibration, contamination, and limited access. CleanSight is built for it.

The system uses ATEX/IECEx-certified explosion-proof cameras with onboard edge processing, eliminating the need for complex rig IT infrastructure. Edge computing at the camera compresses the video feed, applies machine learning classification in real time, and outputs measurement data — with raw video stored onboard for review.

Every component in the system is certified for hazardous location deployment worldwide.

DrillDocs

Ready to Drill Faster Without Disaster?

Start with an ROI analysis for your well program.

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