

# Boost security, efficiency, and safety in your downstream operations

At Axis, we create a safer, smarter world. Our video surveillance solutions are designed to enhance downstream operations by improving **physical security**, boosting **operational efficiency**, and ensuring **health and safety** compliance.

Here's how our advanced technologies can provide comprehensive, money-saving coverage, and real-time insights across your entire site.



## Physical security

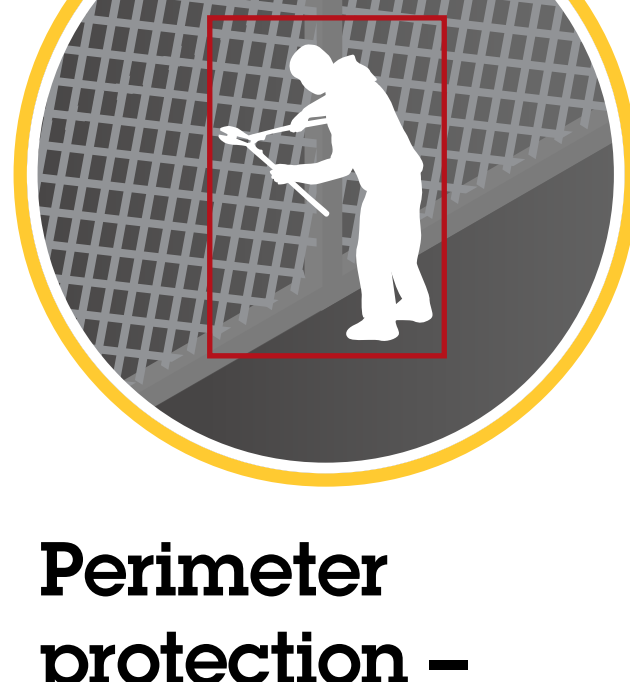


Refineries are susceptible to both physical and cyber attacks. Successful attacks on downstream facilities creates widespread disruptions with economic impact to other industries, and also carry symbolic value for bad actors.



### Perimeter protection – buffer zone

Detect and turn back trespassers earlier with a protective buffer zone beyond the traditional perimeter.



### Perimeter protection – fence line

Deter intrusion, theft, and sabotage with a combined fence line solution.



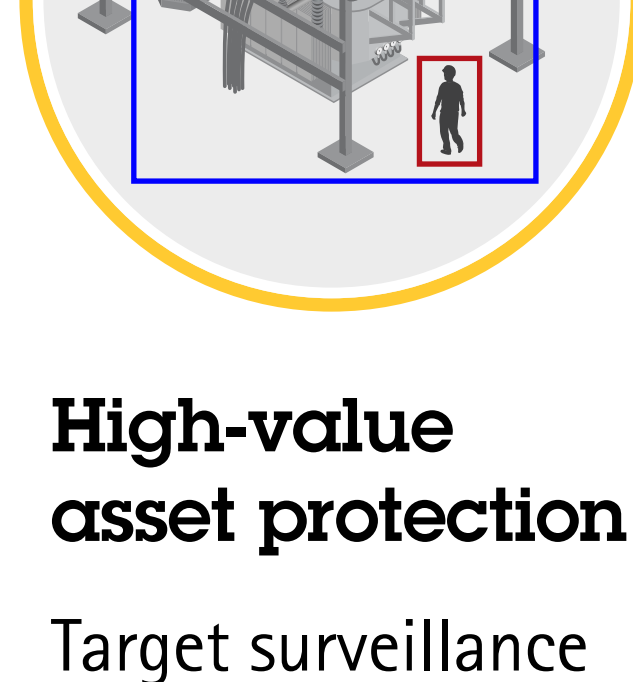
### Drone detection

Stay aware of aerial activities for detection and use visual cameras to track the drone's movements and identify its intentions.



### Area protection

Keep vast open areas inside the perimeter free from unwanted activity by detecting people and vehicles.



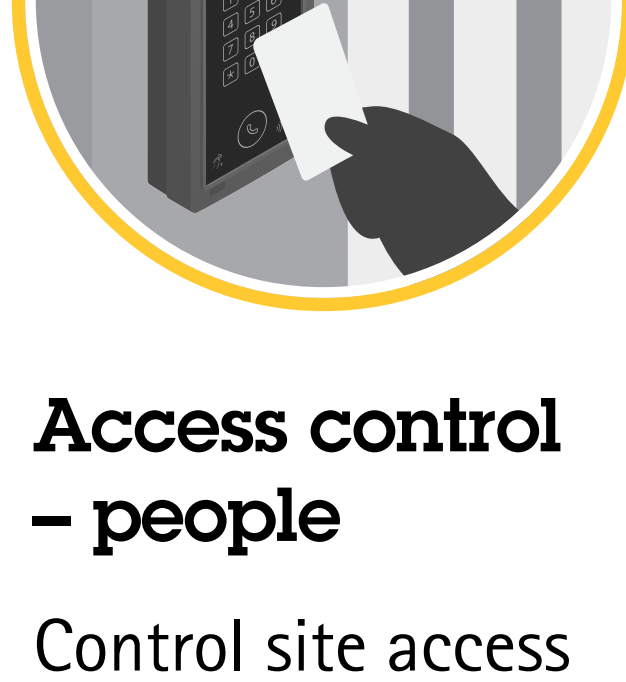
### High-value asset protection

Target surveillance on high value assets to provide better situational awareness.



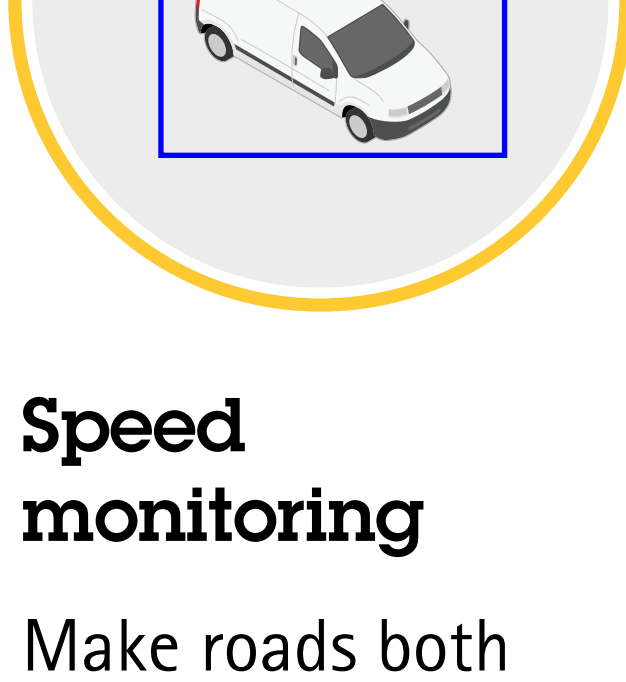
### Access control – vehicles

Manage and automate vehicle access with visual cameras equipped with license plate recognition.



### Access control – people

Control site access and maintain a visual record of people entering and exiting the site.



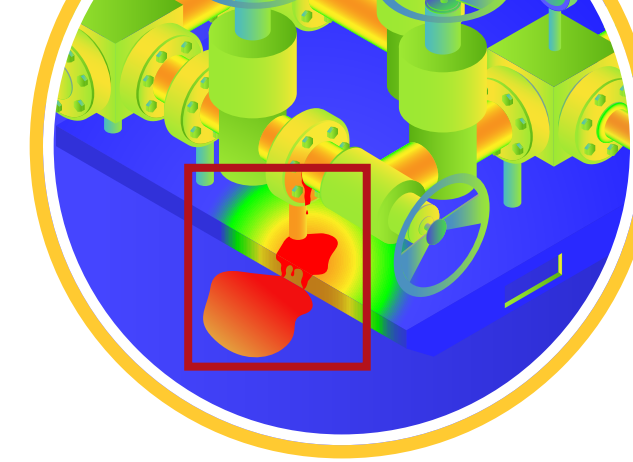
### Speed monitoring

Make roads both inside and outside of onshore facilities safer by measuring and visualizing vehicle speeds.

## Operational efficiency

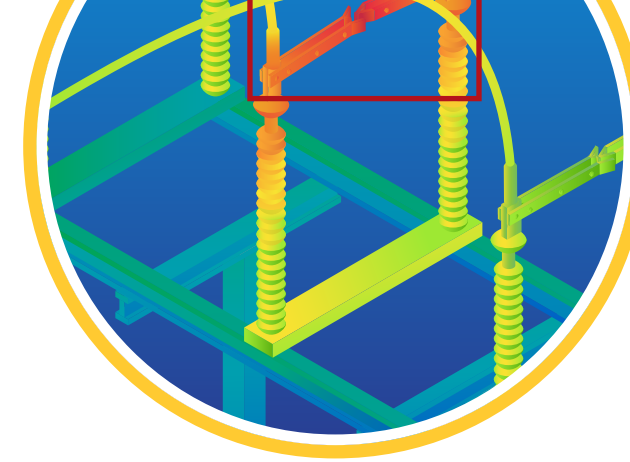


Refineries have to balance operational efficiency with environmental and regulatory compliance. To obtain that balance, investments to avoid downtime and maintain high production output, while minimizing emissions and waste are needed.



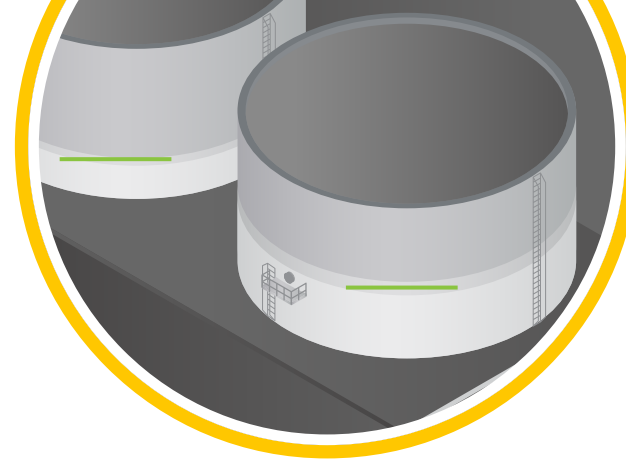
### Leak detection

Support efficient production and lean operations by identifying leaks from pipes, tanks, and equipment early.



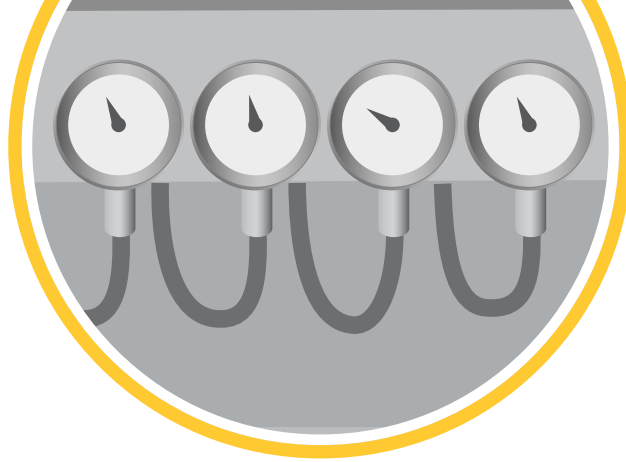
### Temperature monitoring

Prevent overheating and reduce the risk of fire by monitoring temperature changes in piping and equipment.



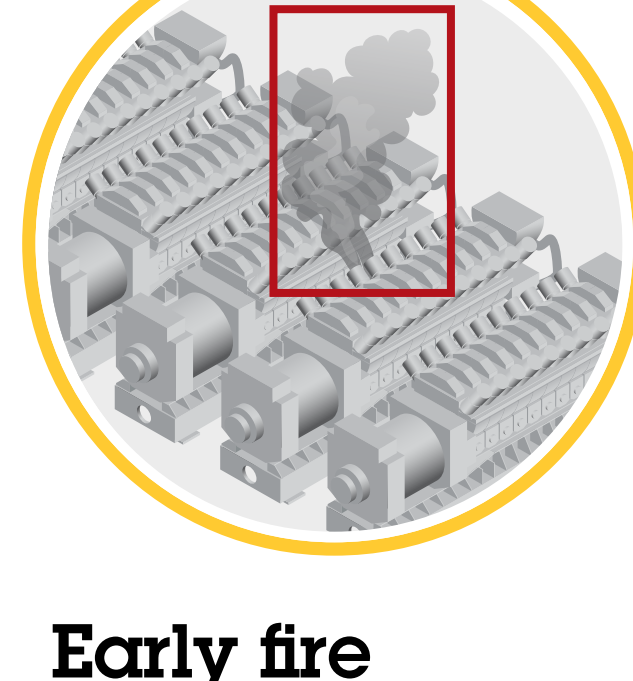
### Tank level monitoring

Monitor the levels of oil, gases, and other components in tanks and pumper trucks remotely to prevent unnecessary in-person checks.



### Gauge monitoring

Monitor temperature and pressure gauges, sensors, and/or valves at the site remotely and reduce the number of inspections.



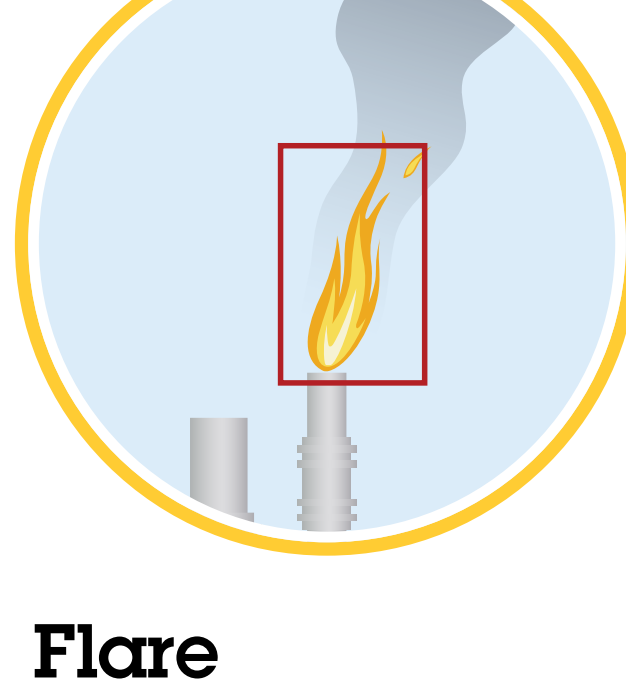
### Early fire prevention/smoke alert

Support fire prevention with early recognition of smoke and fire.



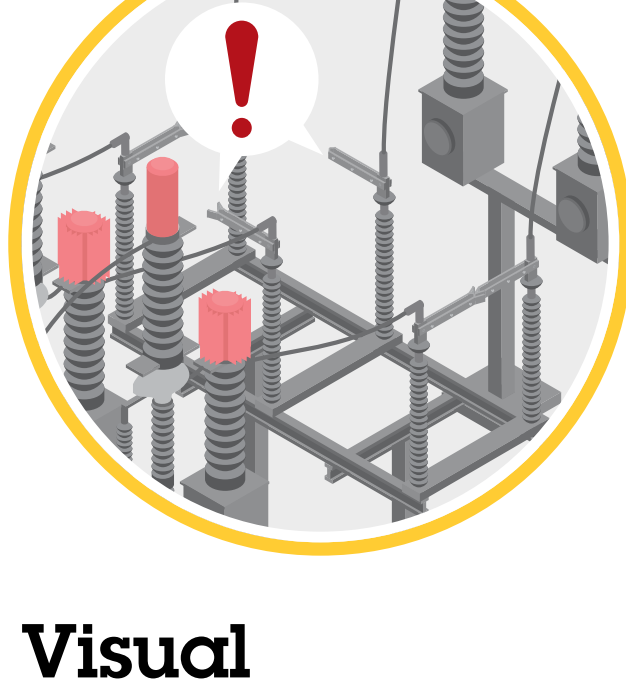
### Restricted area entry

Avoid production stops by creating a buffer zone around restricted production areas and triggering alerts when a person approaches one of these areas.



### Flare monitoring

Monitor flares remotely 24/7 to ensure that they remain lit and burning at the correct levels.



### Visual verification

Minimize shutdowns and unnecessary service personnel deployment by enabling operators to visually verify incident alerts.

## Health, safety & environment



The fatality rate for oil and gas workers is seven times higher than other industries.

Over 50% of safety incidents occur during downtime in production.

Organizations are responsible for reducing their smoking flare emissions, as well as reporting these emissions to local communities.

Refineries must reduce emissions from storage tanks, equipment leaks, process vents, and wastewater systems.



### Man down

Mitigate risk in lone-worker scenarios and respond swiftly to incidents in any high-risk areas.



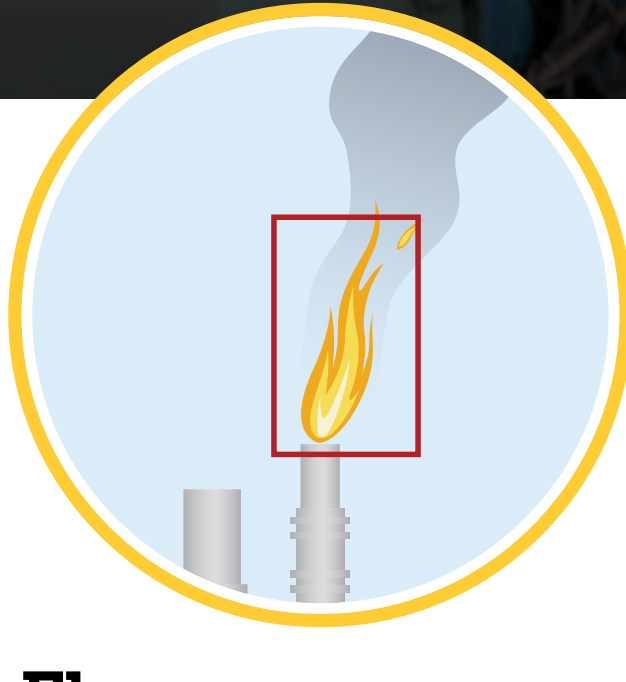
### Fall prevention

Oversee onsite activities and detect high-risk situations, such as open holes or hanging equipment, to ensure the safety of operations and people.



### PPE detection

Detect the presence (or absence) of personal protective equipment to establish and maintain a culture of safety.



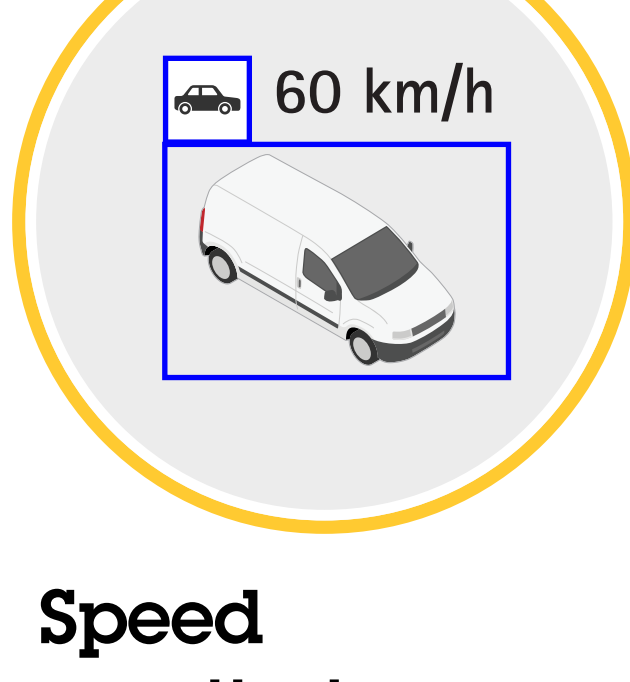
### Flare monitoring

Reduce emissions by ensuring efficient gas combustion, minimizing pollution.



### Restricted areas and confined spaces

Detect and warn people as they approach dangerous areas or confined spaces.



### Speed monitoring

Make roads both inside and outside of refinement facilities safer by measuring and visualizing vehicle speeds.



Experience the data-driven and impactful power of Axis video surveillance solutions for your downstream operations.

Our advanced features are tailored to protect your site, optimize efficiency, and ensure safety.

Ready to uplevel your downstream operations?

**EXPLORE TODAY >**