



# Computer Vision for Oil & Gas

Safe. Efficient. Better.

**Oil & Gas enterprises—including oil rigs, drilling sites, and refineries—are leveraging the Chooch® AI Vision Platform to reduce risk and lower costs while achieving transformative advancements in cost-efficiency, safety, predictive maintenance, and overall profitability.**

The Chooch platform performs nearly any visual monitoring and inspection task with exponentially greater speed, accuracy, and affordability than human labor alone – even in cases where visual tasks require extensive technical expertise and nuanced decision-making skills.

## Recognize ROI With Predictive Maintenance

**Improve accuracy of predictive maintenance while decreasing labor burdens** - By increasing the accuracy, consistency, and cost-efficiency of predictive maintenance – especially at drilling sites, oil rigs, and difficult-to-reach pipelines – Chooch reduces the amount of skilled labor freeing them to focus on more important tasks.

**Identify rust, corrosion, discoloration, defects, and sabotage** - Chooch detects the subtle signs of rust, corrosion, cracks, discoloration, overheating—even sabotage and vandalism. The platform monitors retention pond levels, identify runoff water problems and carry out more unique inspection activities to ensure environmental compliance in isolated locations.

**Leverage aerial, drone-based inspections** - Chooch integrates with video data from airborne drones to remotely inspect pipelines and infrastructure assets, reducing the enormous workflow delays, expenses, and risks of inspection operations.

**Reduce maintenance and repair costs** - Chooch increases the frequency, sensitivity and accuracy of visual inspection activities empowering firms to perform critical repairs before small problems grow into serious and costly disasters.

**Decrease carbon footprint & vehicle maintenance costs** - Decrease the need for physical site visits, save on vehicle fleet maintenance, reduce travel time, cut fuel expenditures, and lower their overall carbon footprints.

## Company Overview

Established 2015

HQ: San Mateo, CA

## Partners

Microsoft

Deloitte

AWS

NVIDIA

Carahsoft

Enabled Intelligence

ESRI

Heavy.AI

HPE

Lockheed Martin

ManTech

Orbit Logic

## Other Industries & Applications

Manufacturing

Retail

Telco

Healthcare

Public Sector

Smart City

PPE

Safety & Surveillance

## Contact Us

Chooch Public Sector

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## Decrease Costs in Safety and Compliance

**Detect smoke, fire, and leaks** - Chooch ReadyNow™ models achieve earlier detection of smoke, flares, overheating and leaks of flammable materials. Chooch can detect subtle heat spikes in motors at drilling sites as well as detect gas and chemical leaks eliminating potential dangers before causing serious accidents, costly damages.

**Monitor PPE compliance** - Chooch ReadyNow™ PPE models facilitate real-time PPE safety audit and reporting on the use of masks, eyewear, gloves, aprons, hardhats, hardened footwear, and other PPE. Chooch can ensure workers comply to SOP during machinery operation decreasing accidents and lowering workers' compensation, insurance and litigation costs.

**Improve accident investigations** - Chooch SmartAnalytics records visual data from accidents which are more accurate and timelier, helping to defend against citations and lawsuits, while minimizing operational downtime after accidents.

**Detect illness/injury/impairment** - Chooch can detect the visual signs of illness, injury, and impairment in workers. In addition to ReadyNow™ Slip & Fall detection, Chooch can be trained to identify other conditions such as awkward movements, limping, tiredness, and other health-endangering scenarios for faster attention and care from emergency responders.

## Why Chooch?

Whether the visual task involves the monitoring/inspecting of drilling sites, predictive maintenance on pipelines, PPE monitoring or expert evaluation, Chooch offers both ReadyNow models as well as the platform for building custom models for a wide range of Oil & Gas use cases.

**Complete computer vision lifecycle** - from dataset annotation, synthetic data generation, model training & testing, inferencing, and providing analytics & insights.

**Active continuous learning** - once in production, active automated continuous minimizes model drift.

**Flexible deployment options** - the only CV platform capable of operating at the edge, in the cloud, self-hosted or any combination.

**Smart annotation, synthetic data generation & data augmentation** - automating and accelerating the generation of data sets.

**ReadyNow AI models** - pre trained "ReadyNow" AI models for immediate production deployments.

**Hardware & software agnostic** - capable of deploying on Nvidia GPU's and Intel CPU's as well as allowing users to upload their own models and pre-annotated datasets eliminating hardware and software vendor dependencies.



Named "Best Overall Computer Vision Company for 2022" by AI Breakthrough Awards



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