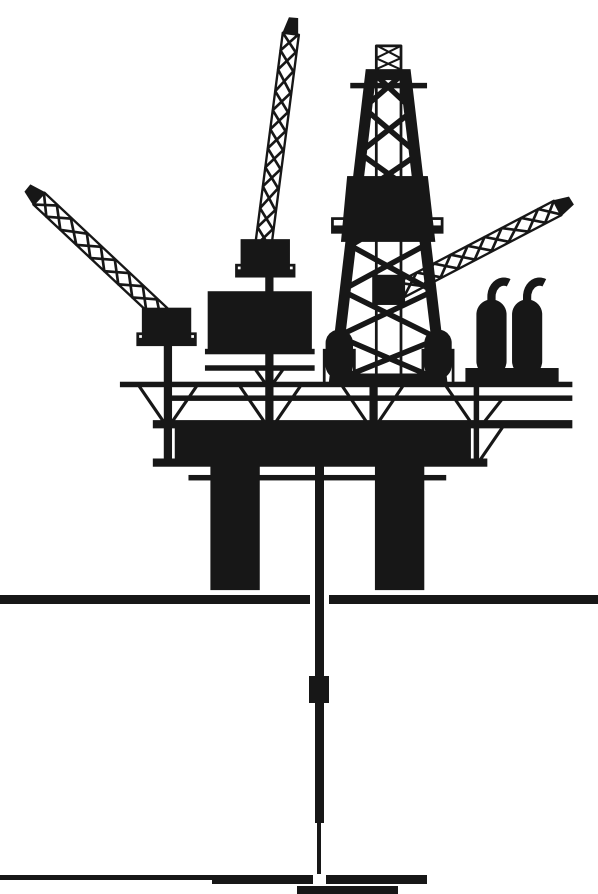


INDUSTRIAL CYBERSECURITY – SECURING THE OIL, GAS, AND MINING INDUSTRIES

THE INDUSTRY

570,000  people in the US are employed in **mining, quarrying, and oil and gas extraction**¹



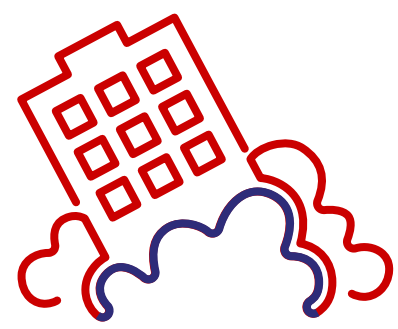
A single drilling rig can generate up to **10 terabytes** of data every day²

\$425 billion

value added to the mining industry with digitalization by 2025³

THE RISKS

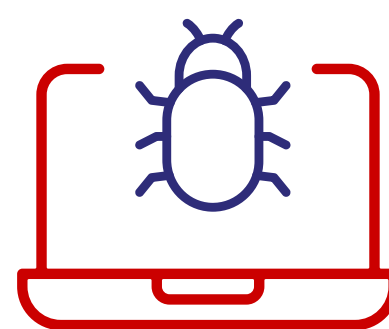
Biggest cyber threats to the oil, gas & mining industries:⁴



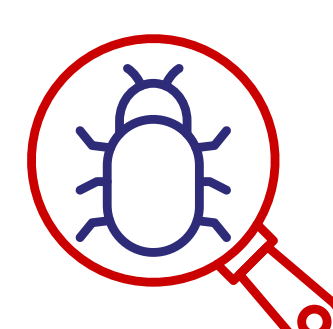
INFRASTRUCTURE SABOTAGE



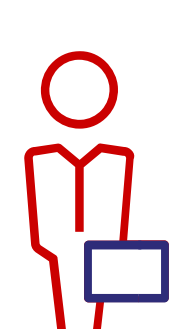
ESPIONAGE & DATA THEFT



MALWARE



RANSOMWARE



THIRD PARTY VENDORS

70%

of oil and gas companies have endured security compromises⁵

400%

increase in reported cyber breaches in mining companies between 2018 and 2020⁶

1/3

of respondents think OT and IT networks are fully aligned for cybersecurity⁷

THE IMPACT

In the 2021 Colonial Pipeline ransomware attack:

5,500 miles of gas pipeline was compromised

Attackers stole **100 gigabytes of data** within a two-hour window

A ransom of **\$ 4.4 million** was paid⁸

¹ <https://www.investopedia.com/ask/answers/030915/what-percentage-global-economy-comprised-oil-gas-drilling-sector.asp>
² <https://reports.weforum.org/digital-transformation/wp-content/blogs.dir/94/mp/files/pages/files/dti-oil-and-gas-industry-white-paper.pdf>
³ <https://www.orange-business.com/en/blogs/unearthing-future-how-digital-revolutionizing-mining-industry>
⁴ <https://www.trendmicro.com/vinfo/us/security/news/internet-of-things/drilling-deep-a-look-at-cyberattacks-on-the-oil-and-gas-industry>
⁵ <https://energypost.eu/70-oil-gas-companies-hacked-threat-growing/>
⁶ <https://cryptotoc.com/blog/why-the-mining-industry-should-be-taking-cybersecurity-seriously>
⁷ <https://energypost.eu/70-oil-gas-companies-hacked-threat-growing/>
⁸ <https://whatis.techtarget.com/feature/Colonial-Pipeline-hack-explained-Everything-you-need-to-know>