

INNOVATIVE TECHNOLOGIES FOR IMPROVING THE EFFICIENCY, RELIABILITY, AND SAFETY OF O&G CONSTRUCTION



A Major International O&G Company

The Client's technology team wanted to identify disruptive construction technologies that could improve the efficiency, reliability, and safety of the company's construction operations. Their aim was to revolutionize oil & gas construction by investing in and developing cutting-edge technology.



CHALLENGE

The challenge for PreScouter in this ongoing Research Support Service license was to investigate key technologies in the sectors of interest to the Client, highlight their technical specifications, and determine factors such as how close they were to commercialization and how well supported they were by intellectual property.



APPROACH

PreScouter undertook secondary and primary research to profile technologies in the areas of ground penetrating radar, construction management, command & control software, and AI-driven critical path scheduling, among others.

Subject Matter Experts were also employed to provide insights into the technologies, identify important players in the space, and advise the team on expected trends in the next 5-10 years.

PreScouter's final step was to conduct a technical and financial assessment of the technologies and provide recommendations to the Client.



OUTCOME

PreScouter's mathematical model supported the recommendation of building a command & control center, projecting a savings of 5%-10% in variable costs and a timeframe of <1 year for ROI, according to the most conservative calculation.

PreScouter recommended the adoption of this and other promising technologies such as AI-driven critical path scheduling, modeling, simulation, and optimization solutions that showed a capacity of reducing project durations by approximately 15%-20%.

