



REQUIREMENT

SC Innovation conducted a vital critical friend review and feasibility study of an existing concept for an emergency response and rescue vehicle using innovative tracked technology.

BRIEF

Our client contacted SC Innovation to complete this work due to our established proficiency and expertise in developing high mobility military and tracked emergency response vehicles. Our team includes acclaimed and award-winning hybrid electric systems engineers who provided our client with knowledgeable insights on propulsion performance prediction and driveline options for the vehicle. Additionally, we offered an unbiased evaluation of the concept's feasibility, fostering an environment of transparency and trust.

SOLUTION

SC Innovation's highly skilled and diverse team of engineers conducted a comprehensive and intensive investigation. Their review began by evaluating the existing concept, encompassing performance prediction, structural design, propulsion and overall arrangement.

Once the team completed the critical friend review, they carried out a feasibility study of the client's ambitious performance requirements and identified a range of solutions to meet expectations. Areas covered included functional design and failure modes analysis, structural, stability and mobility assessments, a detailed hybrid propulsion option study and programme cost, schedule and risk estimation.