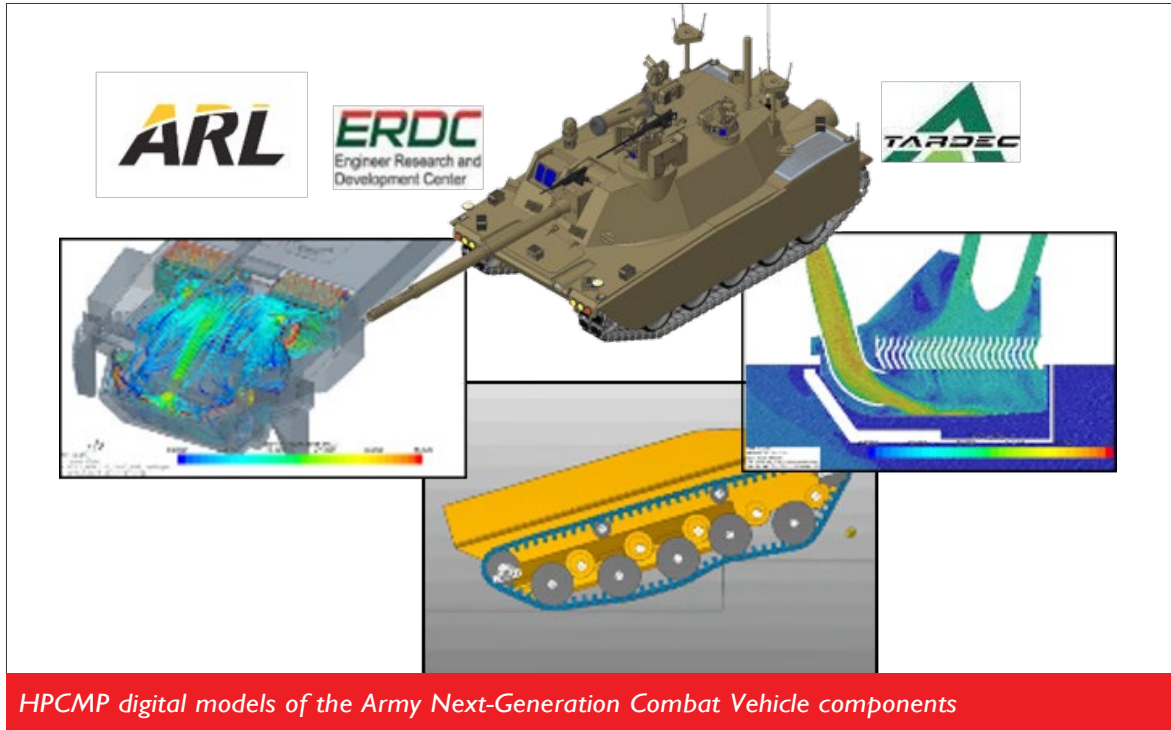


# NEXT-GENERATION COMBAT VEHICLE

Success Story - Army



## PROBLEM

The US Army required a way to conduct multiple tests and analysis of tracked vehicle designs in various environmental conditions without incurring excessive costs and time delays in fielding physical prototypes. A virtual prototype surrogate was needed that could be easily modified and then fully tested in a digital environment many hundreds of times to collect critical data in refining the final vehicle design elements prior to initiating physical prototype construction, thereby saving initial manufacturing costs and time.

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## SOLUTION

HPCMP DSRC resources and CREATE-GV software enables design, predictive analysis and evaluation of next-generation combat vehicle (NGCV) concepts. HPCMP enabled TARDEC to model blast and structural durability of various prototype concept designs.



## IMPACT

HPCMP CREATE™-GV software used to provide virtual prototype to collect critical data used in final vehicle design by conducting multiple tests and analysis in a timely and cost-effective manner.