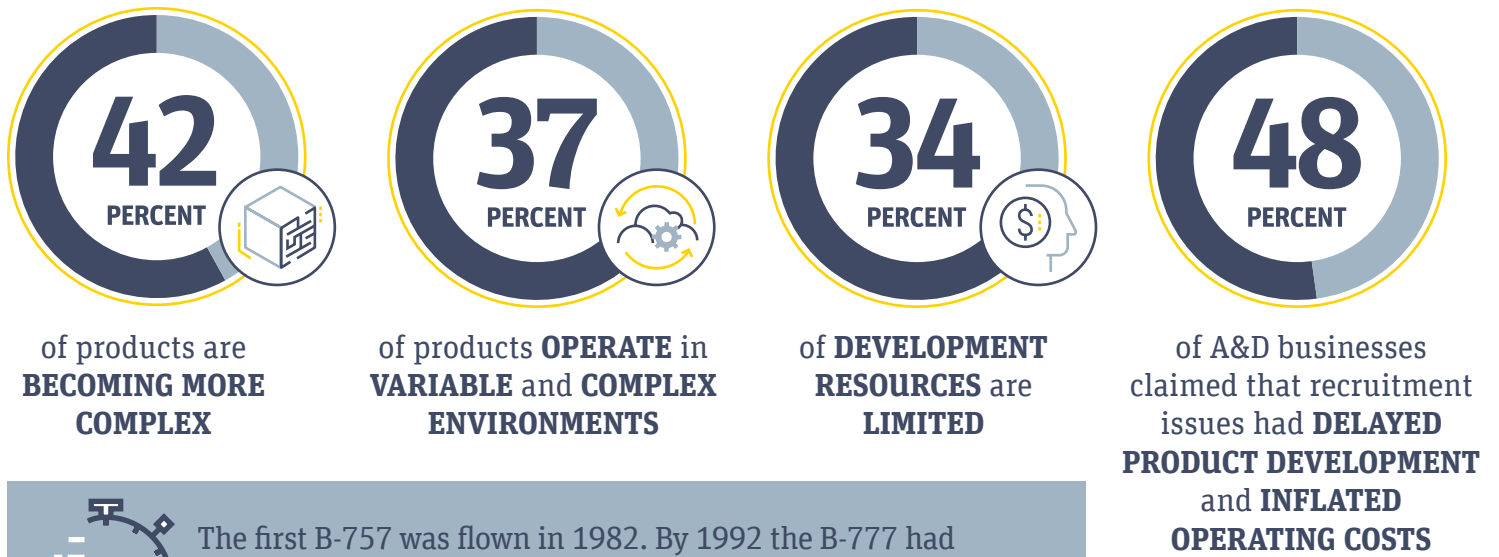


FACING ENGINEERING
COMPLEXITY
 WITH LIMITED RESOURCES

70% OF INDUSTRY EXECUTIVES WILL ADOPT NEW AND EMERGING TECHNOLOGIES BY 2020

Exponential growth in design complexity and a growing skills gap are threatening the industry while it works to innovate faster.

TOP CHALLENGES FOR A&D PRODUCT DEVELOPMENT

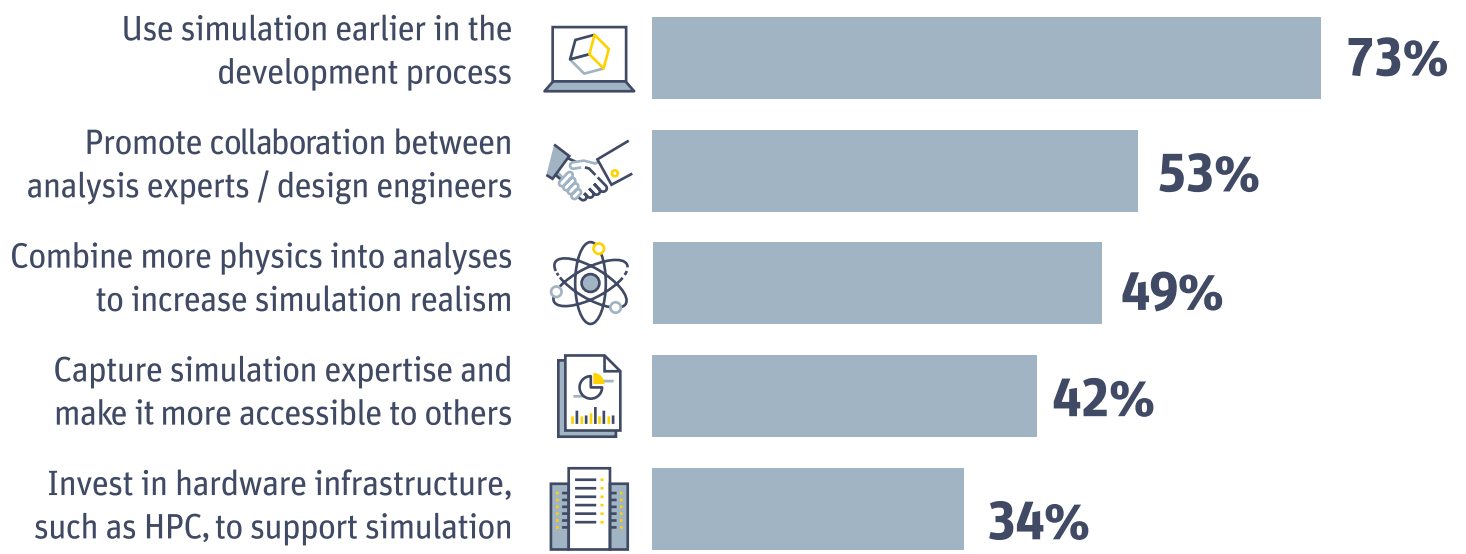


The first B-757 was flown in 1982. By 1992 the B-777 had **21X MORE ONBOARD SLOC*** than the B-757, which required an estimated **28.5X GREATER DEVELOPMENT EFFORT**

*source lines of code

A&D companies must improve engineering productivity by digitally transforming their engineering processes and implementing simulation.

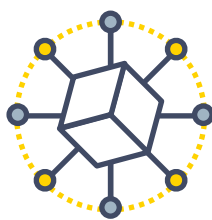
TOP ACTIONS TO IMPROVE PRODUCT ASSESSMENTS



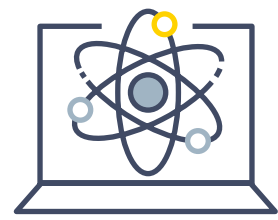
Simulation accelerates innovation at a lower cost and with fewer resources.



MATERIALS DATA MANAGEMENT
 can reduce the time for materials research from **DAYS TO HOURS**



A CONSOLIDATED SIMULATION PLATFORM
 will lead to a **17%** improvement in prompt launch dates and a **20%** rise in achieving product cost goals



MULTIPHYSICS SIMULATION
 users are **44%** more likely to meet launch dates and **58%** more likely to meet product cost targets, compared to non-simulation users