

Simulated Innovation For Distributed Team Product Development And Low Spend Strategies

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Abstract

Advancements in simulation technology are supported by rapidly evolving enablers such as Cloud infrastructure, high-performance computing platforms (on & off-premises), on-demand Machine Learning systems, and secure multi-user environments. These advancements provide an opportunity to adopt a completely digital product development process. There is no debate that analytical tools, like multiphysics simulation, offer an advanced task-by-task solution to challenging technical problems. Simulated Innovation incorporates multiphysics simulation into a complete product delivery process. This process relates well to our current environment of distributed workforces and small development budgets. Since we are developing products in a completely virtual environment, there is no carbon footprint during the development cycle. This paper is an introduction to Simulated Innovation. The intent is to encourage adoption of multiphysics simulation into product development processes.

Figures used in the abstract

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Figure 1 : Simulated Innovation Process

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Figure 2 : New Product Development process using Simulated Innovation