



Simulation... Choice or Necessity?

By Leslie Bodnar, VP of Global Marketing, MSC Software

Could the modern engineer still possibly question the usefulness of simulation in product development? It's highly unlikely given the rising pressure to develop safer, quieter, and better performing designs. Relying on numerical simulation today is as commonplace in many companies as using email. As our customers gain access to more physics in the software tools, virtual test continues to reach new levels in product design.

“

As our customers gain access to more physics in the software tools, virtual test continues to reach new levels in product design.

simulating REALITY

Executive Editor

Leslie Bodnar
leslie.bodnar@mscsoftware.com

Editors

Marina Carpenter
marina.carpenter@mscsoftware.com

Stephanie Jaramillo
stephanie.jaramillo@mscsoftware.com

Patrick Garrett
patrick.garrett@mscsoftware.com

Lydia Westerhaus
lydia.westerhaus@mscsoftware.com

Graphic Design

Marina Carpenter
marina.carpenter@mscsoftware.com

Graphics Contributors

Lydia Westerhaus
lydia.westerhaus@mscsoftware.com

Stephanie Jaramillo
stephanie.jaramillo@mscsoftware.com

MSC Software Corporation
4695 MacArthur Court, Suite 900,
Newport Beach, CA 92660
714.540.8900 | www.mscsoftware.com

We are pleased to share stories of applied simulation methods that are resulting in higher quality products, speedier time to market, and in some cases hundreds of thousands of dollars in physical test costs saved per year.

In our feature story on **page 12**, Airbus is focused on reducing aircraft noise by improving nacelle acoustic liners used to minimize fan noise radiated from the engine. Numerical acoustics simulations using Actran have helped the company design best-in-class acoustic solutions that save aircraft weight, reduce development costs, and improve customer experience.

On **page 18**, VTT Technical Research Center also talks about their use of Actran for vibro-acoustic simulations to identify the source of a noise problem.

Thank you to all of our customers who shared their stories in this issue of Simulating Reality. It is without a doubt that simulation methods are integral to the business of our customers, and we look forward to the road ahead as we advance the technology even further for our valued users.