

ONE STEP

TRANSFORM | REALISE | ENABLE

INVEST
ACCELERATE
INCREASE

SMARTER
LEARNING
INNOVATION

Welcome to the first Value Boost Newsletter as part of our One Step programme aimed at highlighting how elements of Product Lifecycle Management (PLM) can be used to undertake positive change within your product development organisation. This edition looks at the role of simulation in the development process and is aimed at customers looking for boosts around maturity levels 1 to 3 in PLM capability. If you don't yet understand your PLM maturity and how you could be proactively influencing your organisations effectiveness please contact marketing.eu@tatatechnologies.com to find out more.



Simulation – a tool for every engineer.

It is easy to forget that engineering and analysis were once an inseparable whole, but with the recent development of more and more sophisticated CAE tools, simulation has often become a separate, dedicated activity used to validate design rather than driving design directly. But with the latest generation of tools simulation can be accessible to every engineer in order to improve both the capability and quality of the solutions they develop.

In this issue we are highlighting two case studies where simulation is used to drive the design process and bring simulation to the engineers. Firstly, we have Ford Motor Company using SIMULIA simulation tools directly within CATIA to drive design earlier in the process. Secondly, we have EADS demonstrating how the role of Abaqus FEA simulation is critical in the development of composite structures for cleaner, greener aircraft.

Is your organisation able to use simulation more effectively than your competitors?

Accelerating Powertrain Design

Ford Motor Company's powertrain team sought to accelerate product development by enhancing collaboration among engineers, designers, and analysts. Ford leveraged SIMULIA's Abaqus for CATIA solution to tighten integration of CAD geometry and CAE analysis models, and by developing CAD and CAE templates to standardize and accelerate processes. Ford is rolling out the solution globally to take advantage of substantial time savings plus better workload balancing of analysts and designers and improved design validation efficiency.

more...



Learn how Ford Motor Company is accelerating powertrain design with CATIA and SIMULIA

Designing a Greener, Cleaner Aircraft

At EADS (European Aeronautic Defence and Space), a number of their business units and aerospace partners are actively engaged in the development of "greener, cleaner" commercial aircraft. Through a global network of Technical Capabilities Centres, collectively known as EADS Innovation Works, they are looking for ways to bring sustainability to aircraft design—one component at a time. more...



Learn how EADS is pushing the composite envelope with Abaqus FEA

TATA EVENTS



Free Consulting Sessions

Would you like to talk with an expert about how you can optimise your product development process for greater efficiency and more innovation? We will be holding 1:1 consulting sessions for invited guests at the NEC Advanced Engineering Show. Please contact marketing.eu@tatatechnologies.com for your VIP pass.

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