

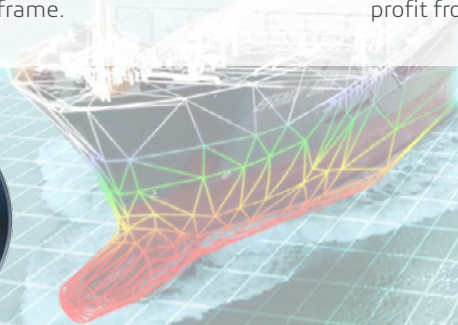
SIMULATION POWERS SUSTAINABLE INNOVATION

Today's product development teams are facing tough challenges. Product strategies and solutions not only have to meet customers' demands, but also conflicting goals such as stricter regulatory requirements, and the need for lower costs within an ever shorter timeframe.

Plus, there are more specific questions to ask: Can simulation technologies help to precisely predict the life time of products? Are there better ways to produce robust, reliable and durable products? Find the right strategies to speed up certification and profit from simulation for business and environment.



3DEXPERIENCE



Find the answers with realistic simulation, durability, and optimization applications from the SIMULIA brand of Dassault Systèmes.

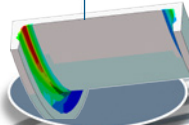


SIMULATION-DRIVEN DESIGN PROCESS

Design Optimization

Simulation-driven design refinement to improve performance

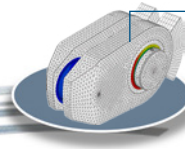
Tosca Structure



Durability Assessment

Accurate life estimation to achieve certification

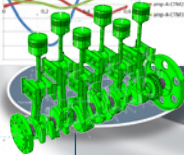
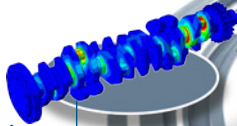
fe-safe



FEA Stress Analysis

Detailed stress analysis using extracted load histories from MBS

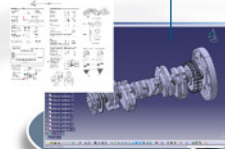
Abaqus



CAD Geometry

Fully parameterized 3D geometry; FEA model generation via associative interface

CATIA, SOLIDWORKS



Multibody Simulation

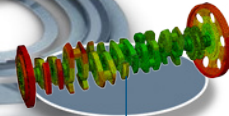
System analysis to extract virtual load history of complete working cycle

Simpack

Mesh Calibration

Automated mesh calibration: sufficient mesh quality for accurate results

Isight



WATCH THE ONE-DAY FREE E-SEMINAR: DEVELOPING A DESIGN PROCESS FOR DURABILITY

Learn about the essentials of accurate fatigue analysis and get the most out of [fe-safe](#)!

DISCOVER

the problems that
can now be solved
using advanced
durability analysis

Play
Now

UNDERSTAND

the fatigue theory
that underpins fe-safe

LEARN

how to develop
a design process
for durability



CHECK OUT:

[SIMULIA Learning Community](#)
for durability and fatigue learning
resources.

[SIMULIA Community News](#)
featuring articles and case studies
relating to fe-safe and durability.

[May 2016 issue](#): Interview with
John Draper.