



SIMULIA

SIMULIA delivers a scalable portfolio of realistic simulation solutions including the CATIA Analysis applications. It makes realistic simulation an integral business practice that improves product performance, reduces physical prototypes, and drives innovation.

Unified Finite Element Analysis

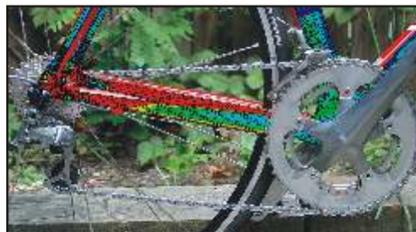
SIMULIA delivers a scalable suite of unified analysis products that allow all users, regardless of their simulation expertise or domain focus, to collaborate and seamlessly share simulation data and approved methods without loss of information fidelity.

Multiphysics

SIMULIA provides a platform for multiphysics simulation as well as multiphysics solutions targeted at important applications in multiple industries.

Simulation Lifecycle Management

As the name implies, Simulation Lifecycle Management is more than simply managing simulation data and applications; it means controlling, organizing and managing your valuable intellectual property created before, during, and after the product development process.



Virtools

Virtools provides comprehensive software solutions for building highly interactive 3D life-like applications. Virtools' 3D real-time technologies and solutions are used in a wide variety of applications such as simulation of product usage, ergonomic testing, creating the shopping experience, training scenarios, right through branding, advertising and web marketing applications.



Virtools is a complete development & deployment platform with an innovative approach to interactive 3D content creation. The Virtools production process facilitates prototyping and robust development up to large-scale, immersive or online life-like experience delivery.

CAPTURE - Virtools 3D Content Capture makes 3D interactive life-like applications become real for any type of 3D data.

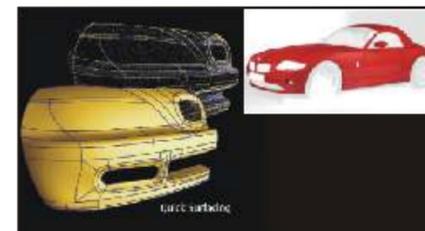
GIVE LIFE - Based on the Virtools 4 framework, the Virtools development platform puts ground-breaking technology at your fingertips, making your ideas become reality.

DEPLOY / EXPERIENCE - Virtools deployment solutions makes it possible to deliver life-like experiences on the web, on corporate intranets and emerging devices, up to and including large-scale virtual-reality environments.



ICEM Surf

ICEM's flagship software product, ICEM Surf, is the best-of-breed suite of 3D surface modeling, analysis and visualization software. ICEM Surf has been developed specifically for use in the design and development of the visible surfaces (and their principal supporting structures) of products such as cars, motorcycles, commercial vehicles, agricultural and construction vehicles and a wide range of sporting goods and consumer durable products. Acknowledged as the premier system for the creation and development of Class A surfaces, ICEM Surf bridges the demands of aesthetic designers and production engineers from visualization right up to tool and die designers.



Features and Benefits

Create and modify aesthetic free-form surfaces directly and in real time
Surfaces are generated, diagnosed, visualized, and modeled dynamically in real time

Surfaces can be selected, controlled, modified, manipulated, and stretched in real time

What you see is what you get and you always see what you are doing

Create free-form surfaces from digitized data or CAD data with automated smoothing and approximation capabilities
Photo-realistic images created effortlessly at any design stage

ICEM Shape Design

ICEM's CAA V5-based software suite, ICEM Shape Design, encompasses a broad range of integrated shape generation, visualization and modeling tools. This software suite offers highly intuitive tools to easily create, validate and modify any type of surfaces, from freeform surfaces to mechanical shapes.

The ICEM Shape Design software suite is offered as fully integrated components of a PLM system environment based on Dassault Systèmes' CAA V5 architecture. As a result, a seamless workflow of design data is created from initial surface model to final design approval, whilst allowing visibility to all associated manufacturing functions.

Modules within ICEM shape Design include

- Expert - for global surface model manipulation
- Theme - for preparing 3D wire-frame and surface models from stylists' 2D sketches
- Form - an intuitive polygon modeling tool for quickly creating, editing or enhancing shape and form from a concept or an existing physical model
- Scan - for handling, trimming, filtering and diagnosing imported 3D scan data
- Quick Surfacer - for the semi-automatic generation of a surface model from imported 3D scan data
- Renderer - for generating high quality rendered and ray-traced photo-realistic images and movies of a digital mock-up
- Realtime Renderer - for the creation of dynamic, photo-realistic images and animations in real time

