



## Pushing optimization forward: modeFRONTIER® 4.5 out now

*The new version of the multidisciplinary optimization platform includes new features and improvements aimed at increasing engineering productivity and shortening the design cycle*

modeFRONTIER® v4.5 at a glance:

- **Easier user interface** with drag&drop Palette and new Parameter Chooser
- New **Run Analysis Dashboard** to get the most out of real-time data
- Enhanced accuracy and decision support with **RSM Validation** and new **MCDM** algorithms
- New **Sub-Process** and **Scheduling Nodes** to streamline modular multidisciplinary projects

**Trieste, (Italy) | September 16<sup>th</sup>, 2013** – A simplified user experience, a new run analysis dashboard for smart evaluation monitoring and a refactored architecture which enables the smart handling of complex multidisciplinary projects: **modeFRONTIER®** evolves to provide design engineers with the most **up-to-date optimization technology available**.

**ESTECO SpA**, a leading provider of numerical optimization solutions for engineering design, today announced the **release of modeFRONTIER® 4.5** - the new version of the multidisciplinary and multi-objective optimization design environment. The updated software includes new features and improvements aimed at **increasing engineering productivity and shortening the design cycle**.

Workflow building and chart creation have never been easier with the new **customizable drag&drop Palette**, - a new GUI component that substitutes the Buttons Bar and Buttons Panel - and the new **Parameter Chooser** which makes integration with third party software even simpler. A stand-out new feature is the **Run Analysis dashboard** which provides complete control over the ongoing optimization process. Its intelligent graphic tools **ensure real-time monitoring** of the design evaluation progress, providing **useful insights** into process performance.

On the numerical side, a variety of tools have been enhanced to increase accuracy and confidence throughout the optimization process. High-fidelity **metamodels** can be created with very little manual effort owing to the new **RSM Validation** procedure; **MORDO**, the modeFRONTIER tool for Multi-Objective **Robust** Design Optimization, offers improved capabilities for handling uncertainties related to real-world problems; and when it comes to making the final choice, the new **MCDM (Multi-Criteria Decision Making)** wizard-based solution facilitates the interactive decision making process.

Major improvements have reshaped the workflow architecture. Complex engineering projects can now be easily streamlined using two powerful tools included in the new modeFRONTIER release: the **Sub-Process Node** and the **Scheduling Project Node**. The former can autonomously execute independent processes - **modular and re-usable** – that map data input to data output, skipping the optimization phase. The latter allows engineers to combine and automate **multiple design exploration and optimization tasks** and set up nested or hierarchical optimizations.

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**More about ESTECO**

- Learn more at [www.esteco.com](http://www.esteco.com) |

## About ESTECO SpA

ESTECO is a pioneer in numerical optimization solutions, specialized in the research and development of engineering software for all stages of the simulation-driven design process. Perfecting engineering and reducing complexity in the design process is our vision. Founded in 1999, the company is headquartered in Area Science Park in Trieste (Italy) and currently employs 40 professionals and serves more than 250 international clients, including BMW, Daimler, Ferrari, FIAT, Ford Motor Company, Honda, Mazda, and Toyota. [www.esteco.com](http://www.esteco.com)

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