

Embraer Licenses CEI's EnSight Software to Visualize Future Aircraft in VR Center

APEX, N.C., January 14, 2003 - Embraer, one of the world's largest aircraft manufacturers, has purchased licenses of CEI's EnSight and EnSight Gold software. The sale was made by CEI's South American distributor, Engineering Simulation and Scientific Software (ESSS).

Embraer uses EnSight and EnSight Gold to visualize CFD results in the company's Virtual Reality Center (VRC). The VRC, opened in February 2000, enables Embraer engineers to visualize an aircraft's structure and systems early in the development phase, increasing quality and saving time and money. EnSight Gold provides support for an array of VR displays, from multi-pipe graphics, to benches and walls, to fully immersive CAVE environments.

"EnSight enables us to visualize results that we couldn't see using the postprocessing functions of our basic CFD package," says Ramon Papa, product development engineer at Embraer. "EnSight's transparency, oil flow and scripting features, as well as its ability to combine different variables in the same plot, help us to better understand solutions for a problem."

One specific problem for which Embraer uses EnSight is to analyze the cooling of a landing gear's brakes. "It is very hard to interpret both the trends of the CFD and the experimental results," says Papa. "Using EnSight to visualize the phenomena, we can understand what is happening."

Embraer uses CEI's EnLiten software to view simulation models, and EnVideo software to play animations. "People are amazed when they see the animations in our presentations," says Papa. "The animations really help us show the simulations and results in a convincing way."

Based in São José dos Campos, Brazil, Embraer was founded in 1969 as a government initiative and then privatized in 1994. The company currently employs more than 11,000 people and is publicly traded on the New York and São Paulo Stock Exchanges.

CEI offers a complete suite of tools for engineering and scientific visualization, from meshing to plotting to animations that can be run on the most advanced VR displays. The company has corporate headquarters in Apex, N.C., and authorized distributors around the world. In addition to EnSight and related products, CEI provides consulting services to engineers and scientists from organizations that need to visualize computational results for research, product design or product refinement.

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CEI Press contact: Amanda Baley
919-363-0883; amanda@ensight.com