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ESI is the pioneer and world-leading solution provider in virtual prototyping.

Market Data

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ESI introduces IC.IDO 10

**Virtual Reality moves to the next level
with workflow efficiency and high fidelity rendering
for industrial applications**

Paris, France – April 3, 2014 – [ESI Group](#), pioneer and world-leading solution provider in [Virtual Prototyping](#) for manufacturing industries, announces the new version of its immersive Virtual Reality solution, [IC.IDO 10](#), featuring the new module *IDO.Illuminate* to deliver ultra-realistic lighting conditions. Today, Virtual Reality is used by industrial manufacturers from various sectors for collaborative exploration and resolution of design challenges throughout product engineering, manufacturing and aftersales. The new [IC.IDO 10](#) elevates the fidelity of decision-making through its unprecedented immersive experience in terms of realistic visualization and product behavior.

Industrial manufacturers seek innovative ways to increase their productivity and reduce potential design issues for large, complex or expensive products. They have adopted [IC.IDO](#) to perform collaborative and immersive design reviews, to evaluate and optimize assembly & disassembly sequences, to verify resources and tooling for manufacture and maintenance, and to support documentation and training.

Recently, automotive manufacturer Renault implemented ESI's Virtual Reality solution to speed up the quality and efficiency of their design processes. **Renaud Deligny**, Specialist for 3D Engineering for Product and Process Design at Renault, sums up his goals: *"We're excited about this latest release and expect a lot from IC.IDO 10 in terms of physics simulation for flexibles and kinematic chains, manikin manipulation, data flow and workflow organization. Our objective, with the help of IC.IDO, is to increase the quality and efficiency of our assembly validations, and to decrease our development times."*

Unlike other Virtual Reality solutions, [IC.IDO](#) incorporates real-time physics simulation, reproducing realistically the behavior of virtual objects, such as cables, hoses and kinematic chains. This unique capability represents a definite technical advantage to perform reliable design review, and eliminate design errors from the very early stages of the design process.



[IC.IDO](#) users also benefit from an immersive user interface that lets users intuitively engage with their virtual product. The new version brings significant enhancements to this user interface, offering improved usability, agility and optimized workflows. Users can now build and manage libraries of reusable elements that can be easily shared between teams.

[IC.IDO 10](#)'s new module, *IDO.Illuminate*, delivers a breakthrough in immersive Virtual Reality. For the first time users are able to experience their scenarios under realistic lighting conditions, without sacrificing interactivity or reducing available features. Complex 3D environments can be created, edited and activated to directly appreciate the visual appearance, showing operating conditions more realistically, to better assess the manufacturability or serviceability of a product - for example, to assess if lightning conditions are sufficient in order to ensure safe and efficient operations. Rendering performance is optimized during runtime so users can benefit from the best possible balance between visual quality and real-time interactivity. Not only does this module bring increased productivity, it also delivers a compelling experience for customer presentations by showing the impact of lightning conditions on usability or perceived quality.

Also part of this release, *IDO.Process* is a new module that allows for the efficient, interactive and collaborative planning and validation of an assembly process. *IDO.Process* introduces a new paradigm within [IC.IDO](#) to flexibly orchestrate and manipulate processes defined by distinct product and resource configurations. In combination with IC.IDO's immersive experience, *IDO.Process* addresses the demand of industrial engineers and service managers for an agile and robust planning and validation environment of their respective processes.

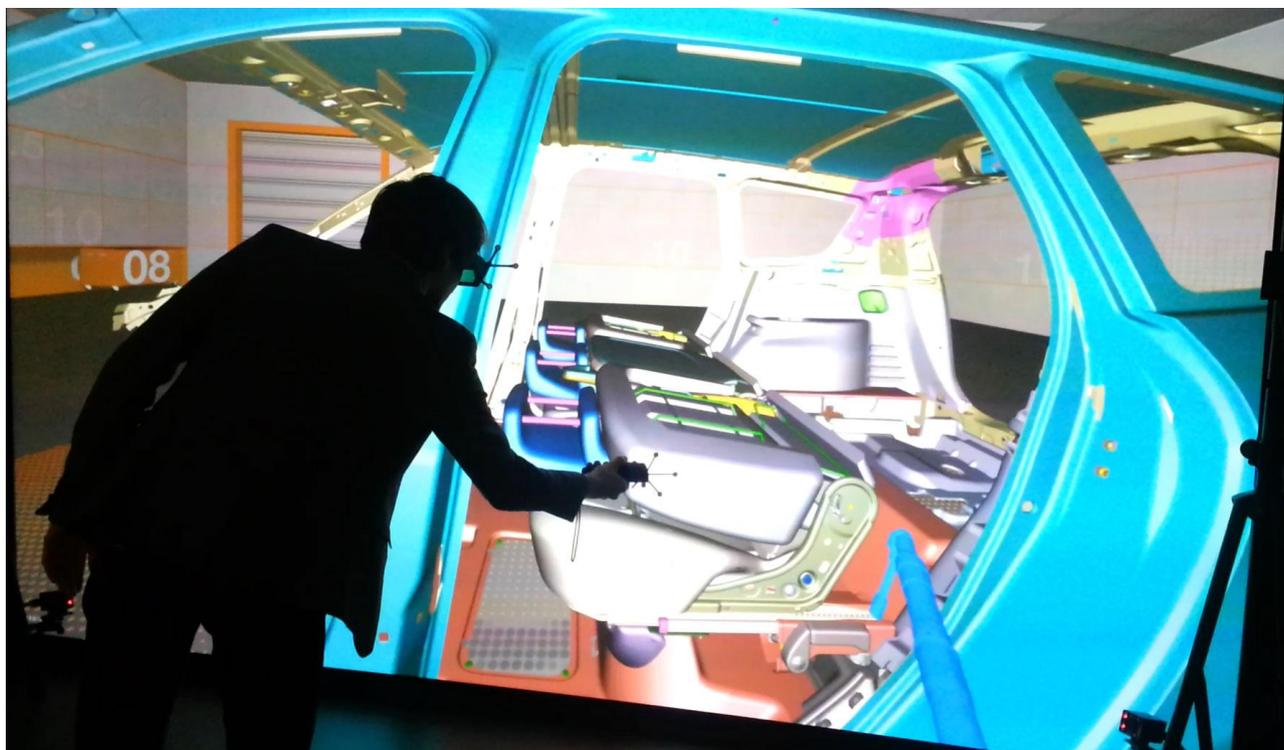


Image: Virtual Reality solution IC.IDO enables new methodologies for improving the efficiency of engineering design processes at Renault.



Today, [IC.IDO](#) is in use by numerous automotive manufacturers, including Chrysler, Daimler, Fiat, Ford, Honda, Hyundai, JLR and Volkswagen. Counted among IC.IDO users, we can also find manufacturers in the aerospace sector, including Airbus, Boeing and Lockheed Martin; machinery and tooling manufacturers, including AP&T, Bausch & Stroebel, Gabler, Herrenknecht, MTU or Oerlikon Neumag; commercial vehicles and transportation, including Caterpillar, John Deere and Bombardier; and leading energy companies including Siemens and Hitachi.

To request a product demonstration, please get in touch with your local [ESI office or agent](#).

For more information about IC.IDO, please visit www.esi-group.com/icido

About ESI Group

[ESI](#) is a pioneer and world-leading provider in Virtual Prototyping that takes into account the physics of materials. [ESI](#) boasts a unique know-how in Virtual Product Engineering, based on an integrated suite of coherent, industry-oriented applications. Addressing manufacturing industries, Virtual Product Engineering aims to replace physical prototypes by realistically simulating a product's behavior during testing, to fine-tune fabrication and assembly processes in accordance with desired product performance, and to evaluate the impact on product use under normal or accidental conditions. [ESI's](#) solutions fit into a single collaborative and open environment for End-to-End Virtual Prototyping. These solutions are delivered using the latest technologies, including immersive Virtual Reality, to bring products to life in 3D; helping customers make the right decisions throughout product development. The company employs about 1000 high-level specialists worldwide covering more than 40 countries. [ESI Group](#) is listed in compartment C of NYSE Euronext Paris.

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