



Press release

Paris, June 27, 2018

In a world premiere, ESI presents its Hybrid Twin™ for nuclear dismantling during the World Nuclear Exhibition 2018

**Secure and Manage Nuclear Decommissioning in Real Time
thanks to Virtual Prototyping**

ESI Group (FR0004110310 – ESI), leading innovator in Virtual Prototyping software and services, is presenting exclusively at the 3rd edition of the World Nuclear Exhibition (WNE), from June 26 to 28, its "Hybrid Twin™ for hostile environment intervention". By increasing operators' safety, while reducing the cost and time associated with dismantling operations, this methodology becomes an essential ally for experts in civil nuclear engineering.

Manufacturers are facing a major stake as they seek to make facilities more efficient and effective and to enhance safety, while reducing cost. A digital approach, through its solutions, methodologies and uses, has become the most relevant answer to address that shift. For 45 years, ESI has been addressing its clients' performance and reliability challenges with Virtual Prototyping, integrating the company's know-how in materials physics to create fully realistic computer models. As the industrial paradigm evolves, ESI has gathered its expertise to offer complete solutions covering the entire product lifecycle, from design to manufacturing to real-time performance monitoring. With multi-domain Virtual Prototyping, and now the Hybrid Twin™, ESI brings tangible and reliable solutions to situations that are complex, if not impossible, to evaluate physically.

In the field of nuclear power, ESI supports and accompanies its customers in projects related to plant safety, digitalization, performance, and dismantling. Importantly such strategic and complex projects often face interruptions that extend their duration and demand mapping areas afresh and creating revised safely itineraries for operators.

By enabling hazard detection and prediction while updating in real-time the radioactive mapping of areas in an integral Virtual Prototype, ESI's Hybrid Twin™ becomes the essential ally. The methodology is particularly interesting as results are available on different media (mobile devices and computers) but also scalable to an immersive platform using Virtual Reality.

With this use of Hybrid Twin™, dismantling scenarios can be adjusted in real time to ensure optimum safety for operators, while reducing the overall duration of projects and their associated costs.

On its booth (Hall 7, booth K90, on the French Pavilion), during the WNE and during a dedicated Dismantling and Deconstruction (D&D) Guided Tour, ESI will offer an immersive and exclusive Hybrid Twin™ experience.

Demonstration will be held:

- Thursday, June 28 at 9 am on the French Pavilion



- Thursday, June 28 – 12:25 pm during official Dismantling & Deconstruction’s guided tours

In addition to this world premiere, ESI will present Virtual Reality use cases in nuclear industry on partner booths: Orano (Hall 7-H137) and ONET Technologies (Hall 7-D110).

About ESI Group

[ESI Group](#) is a leading innovator in [Virtual Prototyping](#) software and services. Specialist in material physics, [ESI](#) has developed a unique proficiency in helping industrial manufacturers replace physical prototypes by virtual prototypes, allowing them to virtually manufacture, assemble, test and pre-certify their future products. Coupled with the latest technologies, Virtual Prototyping is now anchored in the wider concept of the Product Performance Lifecycle™, which addresses the operational performance of a product during its entire lifecycle, from launch to disposal. The creation of Hybrid Twin™, leveraging simulation, physics and data analysis, enables manufacturers to deliver smarter and connected products, to predict product performance and to anticipate maintenance needs.

ESI is a French company listed in compartment B of Euronext Paris. Present in more than 40 countries, and addressing every major industrial sector, [ESI Group](#) employs about 1200 high-level specialists around the world and reported annual sales of €135 million in 2017.

For further information, go to www.esi-group.com.

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