PRESS RELEASE

IRT Jules Verne selects AlphaSTAR's GENOA 3DP for Additive Manufacturing Simulation

LONG BEACH, CALIFORNIA, (1/17/2019) – IRT Jules Verne, the mutualized industrial research institute, based in Bouguenais, France has selected AlphaSTAR's Additive Manufacturing simulation product, GENOA 3DP, to model and simulate AM processes as well as minimize trial & error, scrap rate, and overall cost of 3D printing.

IRT Jules Verne needed a robust and accurate simulation tool to provide a deeper understanding of material modeling & characterization and part performance simulation related to the 3D printing processes, while also aiming to save costs and improve productivity. After evaluating different solution providers, the engineers at IRT Jules Verne identified AlphaSTAR Corporation's GENOA 3DP. "We needed software capable of analyzing the materials, modeling the AM process and accurately replicating composite SLS & FFF printing methods" says Tuan Linh NGUYEN – R&D simulation engineer at IRT. "With advanced features, such as analysis of temperature dependent material properties beyond glass transition temperature and the high compatibility with our numerical tools, we felt GENOA 3DP was the perfect fit."

"We are delighted to collaborate with IRT Jules Verne and their reputable partners" says AlphaSTAR's Director of Technical Operations, Dr. Rashid Miraj. "AlphaSTAR brings nearly 30 years of experience of providing test validated simulation technology so end-users are able to produce reliable analysis to predict the behavior of advanced materials under various manufacturing processes such as Additive Manufacturing. We look forward to having our solution play a role at IRT."

GENOA 3DP is an additive manufacturing tool that simulates the 3D printing process to accurately predict the deflection, residual stress, damage initiation, and crack growth formation associated with as-built AM parts. Advanced Multi-Scale Progressive Failure Analysis methods are used to replicate the entire 3D printing process from the level of Material Characterization to Process Simulation to In-service qualification.

About IRT Jules Verne – www.irt-jules-verne.fr
Created in 2012 as part of the French Investissement d'avenir [Investing for the Future] programme, the Jules Verne Technology Research Institute is a mutualised industrial research centre dedicated to advanced manufacturing technologies. Focusing on the requirements of the strategic industrial sectors – aeronautics, automotive, energy and naval – the IRT team carries out collaborative research based on an alliance between the finest industrial and academic resources available in the manufacturing domain. Together, they work on the creation of innovative technologies that will be rolled out to factories in the short and medium terms in five major R&T thematics: Forming & preforming processess | Assembly & joining technologies| Additive manufacturing | Mobility in industrial environment | Manufacturing flexibility. In order to provide global solutions up to and including the production of full-scale demonstration models, IRT Jules Verne utilises a wide array of exclusive equipment.

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About AlphaSTAR Corporation – www.alphastarcorp.com
Headquartered in Long Beach, CA, AlphaSTAR Corporation is a leading engineering services and software company that provides innovative physics-based simulation technologies for additive manufacturing, material modeling and analysis of advanced composite structures in the aerospace, automotive, defense, and energy industries worldwide. As a solution provider, AlphaSTAR proudly partners with DS SIMULIA, LSTC, ANSYS, MSC, ALTAIR and SIEMENS PLM. AlphaSTAR and is the recipient of esteemed industry and technology awards for R&D and software development.

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