

Dassault Systèmes Solutions Supporting Simulation and Prevention of Contamination Dispersal in Wuhan's Leishenshan Hospital

- **Combating COVID-19 with technology to resume social and economic operations**
- **SIMULIA XFlow simulation software being used at China's biggest modular hospital, built in 14 days to combat COVID-19**
- **3D cloud-based collaborative platform approach replaces an older, slower document-based approach**

VELIZY-VILLACOUBLAY, France — March 30, 2020 — In accordance with its new strategic direction “From Things to Life,” [Dassault Systèmes](#) (Euronext Paris: #13065, DSY.PA) today announced that it is working with China's Central-South Architectural Design Institute (CSADI) to support the simulation and evaluation of virus dispersal in the confined environment of Leishenshan Hospital in Wuhan, China. The largest hospital for infectious diseases and COVID-19 patients, the modular Leishenshan Hospital was created with “China Speed,” surprising the world with its 14-day construction. CSADI and Dassault Systèmes are using the 3DEXPERIENCE platform's simulation capabilities to simulate virus contamination and diffusion within the hospital's ventilation system and to counteract the negative effects from unplanned ventilation risks.

As a strategic partner of Dassault Systèmes in China, CSADI undertook the design of Leishenshan Hospital. Avoiding contamination of nearby environments is a key consideration for CSADI, especially the minimization of cross-infection in the hospital and any impacts on external communities, crowds and surroundings. To this end, Dassault Systèmes has donated SIMULIA XFlow software, powered by the 3DEXPERIENCE platform, to CSADI to simulate indoor and outdoor fluids, virus dispersal in ventilation systems, as well as other projects within Leishenshan Hospital.

“Dassault Systèmes technology focuses on life and the future. CSADI showed ‘China Speed’ during the Leishenshan Hospital Project and will use Dassault Systèmes’ advanced SIMULIA XFlow software to simulate indoor air distribution schema and optimize suggestions on better contamination discharge in negative pressure wards to protect medical personnel,” said Zhang Shen, Director of Engineering Digital Technology Center, CSADI. “SIMULIA XFlow will also simulate outdoor exhaust emission impacts on nearby surroundings to help the design and site selection of the modular hospital.”

“Dassault Systèmes is committed to helping Chinese enterprises combat COVID-19 with the aid of technology, focusing on restoration and development of enterprises after the pandemic,” said Ying Zhang, Managing Director, Greater China, Dassault Systèmes. “As a company, we have extended our focus from things to life. It is our concern about human life that drives us to make positive contributions to the environment during the pandemic and in future hospitals with CSADI. Every day the power of the 3DEXPERIENCE platform to collaborate and exploit the value of a 3D virtual twin experience is shown. Applied systematically to design, engineering and manufacturing, it provides seamless remote collaboration at any time, anywhere, and enables all users to understand, experience and communicate. In the midst of today’s crisis, our 3D cloud-based collaborative platform approach replaces an older, slower document-based approach.”

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Dassault Systèmes’ 3DEXPERIENCE platform, 3D design software, 3D Digital Mock Up and Product Lifecycle Management (PLM) solutions: <http://www.3ds.com>

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Dassault Systèmes, the 3DEXPERIENCE Company, is a catalyst for human progress. We provide business and people with collaborative 3D virtual environments to imagine sustainable innovations. By creating virtual experience twins of the real world with our 3DEXPERIENCE platform and applications, our customers push the boundaries of innovation, learning and production. Dassault Systèmes brings value to more than 270,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit www.3ds.com

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