# Dassault Systèmes Introduces
# "Civil Design for Fabrication,"
# a New Industry Solution Experience

### *Digital Environment Boosts Productivity of Road, Bridge, Tunnel, Dam and Other Infrastructure Projects*

**VELIZY-VILLACOUBLAY, France and SHANGHAI** — **June 4, 2015** — Dassault Systèmes (Euronext Paris: #13065, DSY.PA), the 3DEXPERIENCE Company, world leader in 3D design software, 3D Digital Mock Up and Product Lifecycle Management (PLM) solutions, today announced the launch of the "Civil Design for Fabrication" industry solution experience for architecture, engineering and construction (AEC). Civil engineering and infrastructure construction professionals can now engage in more collaborative, productive and accurate design of roads, bridges, tunnels, railways, highways, dams or other major infrastructure. "Civil Design for Fabrication" was developed in partnership with the Chinese public engineering company Shanghai Municipal Engineering Design Institute (Group) Co. Ltd. (SMEDI) at the two companies' joint research and development center in Shanghai.

By 2025, the global population will reach 8.1 billion, with rapid urbanization in China, India and Latin America, in particular. In order to accommodate this surge, an estimated $9 trillion will be spent on building public infrastructure. As the high demand for quick and cost-effective delivery soars, many projects are plagued by fragmented applications, manual design processes and poor collaboration that delay project execution and increase errors and costs.

Based on Dassault Systèmes' 3DEXPERIENCE platform, the "Civil Design for Fabrication" industry solution experience offers civil engineers a holistic view of civil infrastructure engineering activities within a large-scale scene of up to 200 km. Applications such as geolocation and terrain preparation, reusable adaptive 3D templates, automated layout of structural components, data import and weight analysis provide the capabilities needed to quickly design and tailor building information modeling (BIM) structures that are fully compliant with AEC industry data formats, including IFC and Omniclass.

"In 2012, we established a Civil Engineering Research Center jointly with Dassault Systèmes and, since then, the two companies have made a great deal of effort to explore and develop solutions for the civil design industry," said Jun Zhou, President, SMEDI. "The good news is that 'Civil Design for Fabrication' has come out of this, which we believe will reinforce more informed, standardized and refined development for the civil engineering industry. This AEC solution will build an open platform enabling collaboration between people involved in civil design and infrastructure processes, reinforcing sustainable development for the global civil engineering industry."

"The 'Civil Design for Fabrication' industry solution experience brings new levels of accuracy to civil infrastructure projects, thanks to collaboration across design, engineering, fabrication, construction and owner teams, a full catalogue of reusable adaptive templates and design elements, and real-time reporting," said Marty Doscher, Vice President, Architecture, Engineering & Construction Industry, Dassault Systèmes. "With our long-standing partnership with SMEDI, we are able to provide an end-to-end solution from design to construction that helps meet the current and future infrastructure needs of a global population."

Specifically, "Civil Design for Fabrication" solves several of the business challenges facing the large infrastructure manager:

- Reduced waste and rework: Conceptual design models can be integrated with fabrication data, costs, quantities, specifications and time, unlike in traditional design and construction processes. More than 75 percent of projects can be generated from customizable, reusable and automated templates;

- Improved productivity: One platform for all civil engineering design data captures the expert knowledge of team members and customers, for easy access to and use of the most current information;

- Enhanced collaboration: Tools extend across concept, design, engineering, fabrication, construction and owner teams, ensuring simultaneous and real-time access to design models and project data and smooth engineering changes.

For more information on Dassault Systèmes' AEC industry solution experiences, visit: http://www.3ds.com/industries/architecture-engineering-construction/

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