Trimble Announces Tekla Global BIM Awards 2018 Winners

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SUNNYVALE, Calif., Sept. 19, 2018 /PRNewswire/ -- Trimble (NASDAQ; TRMB) announced today the winners of its Tekla Global Building Information Modeling (BIM) Awards, a biennial competition showcasing the world's most impressive structural construction projects. The winner of the best BIM project of 2018—theMuseum of the Future in Dubai, United Arab Emirates, by Eversendai Engineering L.L.C. This year's winner applied a wide range of Trimble constructible solutions to transform process and productivity on their project.

The competition, which began in 1999, welcomes projects that exhibit innovation and push the boundaries of structural engineering and BIM. Over 140 projects entered the competition, which included winners of Tekla regional BIM Awards from 36 countries. A committee of five industry experts – Christian Jahn, Elbert O. Speidel, Marina Korol, Craig Garrett, and Jari Heino – selected the winners. The selection committee evaluated the 16 finalists based on an assessment of collaboration, implementation, innovation and constructability.

"I really enjoy seeing these projects," said Elbert O. Speidel, selection committee member and A.I.A. professor at California Polytechnic State University. "The Museum of the Future stretches structural engineering to its limits and showcases the creativity of what is possible using innovative modeling technology. Tekla was the ideal BIM program to complete the museum and have the kind of detailing and tolerances that are needed in order to construct such an elaborate building."

The Tekla Global BIM Awards 2018 winners include:

Best BIM Project, Best Public Category Project and Winner of the Online Voting
Museum of the Future – United Arab Emirates
Eversendai Engineering L.L.C.

The Museum of the Future is an exhibition space that will feature futuristic concepts, services and products. As one of the most complex constructions in the world, the Museum of the Future involved an enormous amount of data from multiple disciplines during the design phase. Using Tekla BIMsight, Eversendai identified clashes with roofing, façade, MEP and RCC contractors before construction even began.

"Tekla Structures is a potent tool due to its powerful 3D modeling capabilities and flexible open API options," said Sreenivasa Rao Vipparla, general manager of design and engineering at Eversendai. "BIM management with Tekla software boosted the project's efficiency, accuracy and time management."

Best Commercial Project
Luminary – Finland
A-Insinöörit Suunnittelu Oy, Skanska Oy, BST-Arkkitehdit Oy, Betonirakenne Oinas Oy, Parma Oy, Optiplan Oy, Caverion Suomi Oy

Luminary, a 21-floor building with luxury apartments, business, office and parking space, was a challenging complex structure that required a high level of collaboration among its designers, builders and fabricators. With a real-time connection between the design office and precast fabricator, an on-site BIM kiosk and extensive mobile use, the teams involved were able to work together seamlessly and efficiently.

Best Industrial Project
Hinkley Point C – United Kingdom
Atkins

Hinkley Point C is a new nuclear power plant on track to begin providing low carbon energy to 6 million homes in 2025. This project is one of the largest construction projects in the world, involving over 300 detailers, 3000 workers and 3 million tons of concrete. To keep things running smoothly, Atkins has used BIM to the fullest for this paperless construction. Using Tekla Structures, Atkins has provided a fully integrated 3D reinforcement model as part of the detailed design packages.

Best Infrastructure Project
Trafikplats Vega – Sweden
ELU Konsult AB

Trafikplats Vega, a cast-in-place traffic interchange with five bridges and retaining walls, was a complex project that was designed and constructed without paper drawings. ELU modeled and constructed the complex design using Tekla Structures, and even developed their own components to fit their unique needs.

Best Sports & Recreation Project
Optus Stadium – Australia
Arup & PDC Group

Opened in January 2018, Optus Stadium is a 60,000-seat multi-purpose stadium located in Perth, Western Australia. Using an open BIM approach and a wide variety of software, Arup and PDC were able to share critical information with all stakeholders. This enabled them to create workflows that saved time and increased efficiency, resulting in project completion three weeks ahead of schedule.

BestSmall Project
Station La Glaciere – France
Baudin Chateauneuf

With Station La Glaciere, Baudin Chateauneuf was faced with a big challenge: they needed to construct an identical replication of the staircases of the Metro station line No. 6 within an extremely tight timeline. Using Trimble and Tekla software, they were able to complete the project in a matter of months, with surveying starting at the end of May 2017 and the project opening to the public on August 28, 2017.

Best Student Project
BlackSea-TORM – Turkey
Fatih Yesevi OKUR, Ebru KALKAN, Ergün ERDOĞAN, and Rufai DEMİR – Karadeniz Technical University

BlackSea-TORM, an Expo fair building concept design that celebrates sustainability, was developed with an integrated project delivery (IPD) mindset. The students behind the project demonstrated innovative uses of BIM through interoperation, utilizing a variety of other tools together with Tekla Structures. Using a Tekla Open API, they also created a customized "Rufer," a semi-parametric connection detail, for the roof's MERO system.

Special Recognition
Kainuu Hospital – Finland
Kainua-alliance: Kainuu social and health care joint authority, Skanska Talonrakennus Oy, Sweco Rakennetekniikka Oy, Sweco Architects Oy, Sweco Talotekniikka Oy, Sweco PM Oy, Caverion Suomi Oy

Kainuu Hospital is a large timber project in which BIM and BIM-based collaboration have been used throughout the entire construction process. BIM has been used in innovative ways to construct the hospital, with advanced technology such as CAVE (computer assisted virtual environment) that allows 3D virtual reality, on-site BIM kiosks and Augmented Reality (AR) technology all at work.

More information about the Tekla Global BIM Awards, submissions and winners is available at: https://www.tekla.com/bim-awards/winners.

More information about the selection committee**:** https://www.tekla.com/bim-awards/2018-jury.

Project images: Tekla Global BIM Awards 2018 images

Tekla Software by Trimble

Tekla software solutions for advanced BIM and structural engineering are produced by Trimble. Trimble's construction offering ranges from total stations to advanced software, giving the industry tools to transform planning, design, construction and operation of buildings. Tekla software is at the heart of the design and construction workflow, building on the free flow of information, constructible models and collaboration. For more information about Tekla software, visit: www.tekla.com.

About Trimble Buildings

Trimble Buildings provides the widest breadth of technology solutions for managing real estate portfolios, optimizing building construction projects and streamlining workplace operations. Trimble solutions are tailored for each phase of the building lifecycle—from the initial survey to design, construction and operation—and enable stakeholders such as architects, engineers, contractors, building managers and property owners to gain agility and insight. With the industry's only construction-ready BIM and full range of tools and content to streamline team collaboration, Trimble solutions make data from complex projects more meaningful and actionable to improve productivity and achieve operational excellence. For more information, visit: buildings.trimble.com.

About Trimble

Trimble is transforming the way the world works by delivering products and services that connect the physical and digital worlds. Core technologies in positioning, modeling, connectivity and data analytics enable customers to improve productivity, quality, safety and sustainability. From purpose built products to enterprise lifecycle solutions, Trimble software, hardware and services are transforming a broad range of industries such as agriculture, construction, geospatial and transportation and logistics. For more information about Trimble (NASDAQ:TRMB), visit: www.trimble.com.

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