Trimble Mediaroom

Trimble Announces PreDesign for Enhanced Building Design Research

Helps Designers Understand the Impacts of Climate, Test Strategies and Make Informed Design Decisions

SUNNYVALE, Calif., Nov. 18, 2020 /PRNewswire/ -- Trimble (NASDAQ: TRMB) introduced today PreDesign, a new service for SketchUp's professional subscribers, which enables architects and designers to test design strategies and understand how a site's climate and environment will impact design proposals. Created to help better prepare designers for the conceptual phase, PreDesign also provides the data and graphics needed to articulate and build a narrative around early-stage climate-related design decisions.

"SketchUp is a fantastic way to develop ideas in 3D and we are continuously exploring new capabilities. We saw tremendous value in making it easy for our users to include design research in their pre-design workflows," said Andrew Corney, PE, M.CIBSE, M.ASHRAE, product director at Trimble. "With PreDesign, we're providing designers with the insights they need to take a truly holistic approach to creating suitable design strategies and communicate value to their clients."

Although climate plays a significant role in a project's energy requirements and performance, pre-design research is often overlooked. This leads to lengthy investigation of design dead-ends, extended cycles to align design teams on key concepts and greater potential for costly rework later in the project. PreDesign simplifies and enhances design research by providing the climate stats and insights designers need to crystallize climate-related design constraints and confidently propose the most viable solutions for a project.

"PreDesign provides useful information that we need to position our projects for better design outcomes from the very start," said Adam Osterhoff, principal architect at Heartwood Studio. "Its compelling visual outputs and intelligent talking points also help us clearly communicate the value of our proposals to clients."

Valuable Design Research that Moves Projects Forward

PreDesign reduces the need to navigate multiple platforms to obtain local weather information, such as average temperatures and predominant winds, by gathering climate data about a site and delivering insights into:

- **Architectural response** - connects the dots between the climate and building type, suggesting appropriate architectural responses, such as larger openings to take advantage of outdoor conditions or shading to control adverse solar gain. Armed with this knowledge, architects and designers can create an informed architectural design narrative around climate and build the most efficient building possible.

- **Shading** - produces an intuitive sun path diagram showing the areas that receive warming sun and indicating areas that are exposed to overheating sun or overcast by cloudy skies—insights that are based on existing weather files. This allows designers to effectively position the built form to take advantage of favorable conditions, such as a well-lit courtyard. PreDesign provides shading guidance specific to any direction and indicates the effectiveness of shading options for optimal climate design.

- **Glazing** – allows designers to adjust glazing type, framing insulation, solar control and external shading to better understand the impact of glazing specifications and ensure realistic and budget-friendly materials are specified.

- **Daylighting** - provides inspiration and clear guidance on the suitability of a wide range of top lighting options, making it easy to find the right solution for beneficial daylight.

- **Outside spaces** – provides the foresight needed to design functional outdoor spaces, allowing designers to propose strategies such as windbreaks, fans, rain covers, fire pits and solar-powered lighting.

Availability

PreDesign is available now as part of SketchUp Pro, Studio or Enterprise subscriptions.

About Trimble Construction

Trimble is developing technology, software and services that drive the digital transformation of construction with solutions that span the entire architecture, engineering and construction (AEC) industry. Empowering teams across the construction lifecycle, Trimble's innovative approach improves coordination and collaboration between stakeholders, teams, phases and processes.

Trimble's Connected Construction strategy gives users control of their operations with best-in-class solutions and a common data environment. By automating work and transforming workflows, Trimble is enabling construction professionals to improve productivity, quality, transparency, safety, sustainability and deliver each project with confidence. For more information, visit: construction.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. For more information about Trimble (NASDAQ:TRMB), visit: www.trimble.com .

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