

Topcon and Bentley Bundle Reality Modelling Software with UAS



Topcon Positioning Group has introduced [Topcon ContextCapture](#), powered by Bentley Systems, a reality modelling software solution that will be offered with Topcon unmanned aerial systems (UASs). The system is designed for mapping, construction and surveying professionals. It enables them to quickly turn simple photographs and/or point cloud data into true-to-life, highly detailed 3D models for use throughout a project life cycle.

The offering will include Topcon ContextCapture Standard and Topcon ContextCapture Advanced, said Charles Rihner, vice president of the Topcon GeoPositioning Solutions Group. The standard package will be bundled with [Falcon 8](#) and [Sirius](#) Basic/Pro and allows operators to process data from these UAS into textured 3D reality meshes, point clouds and orthophotos.

ContextCapture Advanced allows users to process data from any UAS. It also includes ContextCapture Editor, which enables operators to take advantage of all project data by integrating reality meshes and point clouds, into infrastructure workflows. The result is access to a wide variety of reality modelling tools to help increase productivity.

The ContextCapture Advanced integration includes CAD, inspection, GIS, civil engineering, and survey workflows on desktop and mobile devices, in multiple formats.

Constructioneering

This represents the next step in the Topcon and Bentley collaboration to advance the concept of [constructioneering](#) - allowing users to start from a reality-captured survey context and leverage and update their digital engineering models throughout the construction process, and finally deliver the as-built infrastructure in real time, said Rihner.

Phil Christensen, Bentley vice president, reality modelling, said this new joint offering enables greater efficiency and productivity in the global construction market. Bentley's reality modelling solution for mapping, construction, and surveying professionals will enable them to quickly turn UAS imagery into engineering-ready 3D reality models that can be used immediately and updated throughout the construction lifecycle. Since Bentley and Topcon announced their constructioneering partnership last November, Christensen sees this as only one of many new integrations between both companies that will enable better project outcomes.

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