

**Bentley Systems and Topcon collaborate for *Constructioneering Academy* initiative***Companies join efforts to provide opportunities for construction professionals to learn best practices in integrated engineering and construction*

*SINGAPORE – The Year in Infrastructure 2017 Conference – October 9, 2017 –* Topcon Positioning Systems, a world leader in positioning instruments for survey and construction, and Bentley Systems, a leading global provider of comprehensive software solutions for advancing infrastructure, announced today that they have joined efforts to provide opportunities for construction industry professionals to learn best practices in constructioneering, a process of managing and integrating survey, engineering, and construction data, to streamline construction workflows and improve project delivery.

“The future of construction automation continues to move forward today with efforts like constructioneering. Together with Bentley we are helping reshape the traditional surveying, engineering, and construction workflows,” said Ray O’Connor, president and CEO of Topcon Positioning Systems. “Our efforts are proving successful in several phases of project delivery, particularly in road resurfacing, but the opportunities to expand its benefits are tremendous. That’s a big driver for creating the Constructioneering Academy.”

Bentley Systems’ CEO Greg Bentley said, “The growing momentum in demand for infrastructure project delivery across the world, against finite resources including an aging construction workforce, makes ‘going digital’ imperative. We and Topcon, and early adopters of constructioneering over the past year, have become convinced that heavy civil construction can lead the way, starting by ‘industrializing BIM’ through digital workflows which make the work of surveyors, engineers, and constructors automated, continuous, and continuously more valuable, throughout the project lifecycle. Also over the past year, we and Topcon have advanced our digital co-venture to jointly deliver constructioneering technologies through instant-on cloud services, federating our respective connected data environments and applications.

“The benefits of constructioneering, with digital visibility into efficient and effective project outcomes, are so substantial that I believe civil infrastructure projects can finally become bankable, attracting abundant private financing to fill the funding gap. The results can be significant—improved overall economic growth and quality of life!

“The challenge in going digital, now, is to motivate and empower the historically conservative engineering and contracting firms, so that people and processes can catch up with constructioneering technology acceleration. We and Topcon enthusiastically accept this responsibility, and are pooling our experiences in promoting and sustaining digital advancement. At Bentley Systems, our Academy programs have helped major infrastructure owners to onboard their consultants, contractors, and supply chains into BIM and construction digital workflows which benefit every project delivery participant. Topcon has likewise invested in advancing people and processes, and we look forward to applying the same resourcefulness and creativity in collaborating for Constructioneering Academies, as we have already successfully shown in our joint technical endeavors.”

Constructioneering enables engineers to begin work with an accurate 3D model of current construction site conditions (as captured by Topcon’s UAS photogrammetry and laser scanners) which then can be processed into engineering-ready 3D reality meshes (by Bentley’s ContextCapture software). Cloud services convey the engineers’ work directly to construction processes in the field. The resulting digital engineering models work with the 3D machine control that guides construction machinery. Compared to traditional workflows between design and construction in which data in the digital engineering models is often lost and inefficiently recreated, constructioneering provides seamless integration for constructible models that offer real-time updates and data exchange for improved efficiency and cost reduction. Topcon and Bentley will collaborate to create the Constructioneering Academy curriculum which will be implemented through existing learning centers located in Livermore, California (Topcon), Houston, Texas, and London, UK (Bentley).

Vinayak Trivedi, Bentley Institute vice president, commented, “The constructioneering collaboration with our digital co-venturer Topcon will appropriately extend our successful program of global Academies for sharing advancements to help user organizations and their supply chains in going digital. We will be opening new Academy locations in the coming months in Pune, India; in Dubai, UAE; and in Beijing, China. Along with supporting Topcon’s training centers, our priorities also include virtualizing Constructioneering Academy offerings through universities with leading construction degree programs.”

**About Digital Co-Ventures**

Bentley Systems is undertaking to cooperate with other significant participants in the infrastructure asset supply chain, to accelerate benefits from *going digital*. The parties work together to assure that their respective cloud services uniquely federate and interoperate effectively to deliver transformative digital workflows. Each digital co-venturers can then bundle offerings which include the cloud services of both. Current digital co-venturers are Microsoft, Siemens, Topcon and Bureau Veritas.

**About Topcon**

Topcon Positioning Group is headquartered in Livermore, California, U.S. ([topconpositioning.com](https://www.topconpositioning.com/)). Its European head office is in Capelle a/d IJssel, the Netherlands. Topcon Positioning Group designs, manufactures and distributes precision measurement and workflow solutions for the global construction, geospatial and agriculture markets. Its brands include Topcon, Sokkia, Tierra, Digi-Star, RDS Technology, and NORAC. Topcon Corporation ([topcon.com](http://global.topcon.com/)), founded in 1932, is traded on the Tokyo Stock Exchange (7732).

**About Bentley Systems**

Bentley Systems is a global leader in providing engineers, architects, geospatial professionals, constructors, and owner-operators with comprehensive software solutions for advancing the design, construction, and operations of infrastructure. Bentley users leverage information mobility across disciplines and throughout the infrastructure lifecycle to deliver better-performing projects and assets. Bentley solutions encompass *MicroStation* applications for *information modeling*, *ProjectWise* collaboration services to deliver *integrated projects*, and *AssetWise* operations services to achieve *intelligent infrastructure* – complemented by comprehensive managed services offered through customized Success Plans.

Founded in 1984, Bentley has more than 3,000 colleagues in over 50 countries, more than $600 million in annual revenues, and since 2011 has invested more than $1 billion in research, development, and acquisitions.

Additional information about Bentley is available at [www.bentley.com](http://www.bentley.com). For Bentley news as it happens, subscribe to an [RSS feed](https://www.bentley.com/en/news-feed) of Bentley press releases and news alerts. Visit [The *Year in Infrastructure* Conference](http://www.bentley.com/yii2017) website for information on Bentley’s premier thought-leadership event. To view a searchable collection of innovative infrastructure projects from the annual *Be Inspired* Awards, access Bentley’s [*Infrastructure Yearbooks*](https://www.bentley.com/en/infrastructure-yearbook). To access a professional networking site that enables members of the infrastructure community to connect, communicate, and learn from each other, visit [Bentley Communities](http://communities.bentley.com/).

To download the *Bentley Infrastructure 500* Top Owners ranking, a unique global compendium of the top public- and private-sector owners of infrastructure based on the value of their cumulative infrastructure investments, visit [BI 500](https://www.bentley.com/en/top-infrastructure-owners).

# # #

*Bentley, the “B” Bentley logo, Be, AssetWise, ContextCapture, MicroStation, and ProjectWise are either registered or unregistered trademarks or service marks of Bentley Systems, Incorporated or one of its direct or indirect wholly owned subsidiaries. All other brands and product names are trademarks of their respective owners.*

**Press Contacts:**

**Topcon Positioning Group**

[CorpComm@topcon.com](mailto:CorpComm@topcon.com)

Staci Fitzgerald, +1 925-245-8610

**Bentley Systems**

jennifer.maguire@bentley.com

Jennifer Maguire, +1 610 458 2695