



# BEYOND REALITY

**Thousands of business leaders from around the world came together to experience four transformative days at HxGN Live 2019. Penny Boviatsou reports on the highlights**

There were two main keynotes in the Geosystems track at this year's HxGN Live, held between 11 and 14 June in Las Vegas, USA. In 'Beyond Reality – Digital Reality's Next Frontier', Hexagon's Geosystems' division president Juergen Dold took attendees on a journey through a world of Hexagon innovations. Meanwhile, Hexagon's Geosystems' division CTO Burkhard Boeckem talked about how the Leica BLK story is evolving in his keynote, 'Embrace Reality: The BLK Story Accelerates'.

New products were on display, with four new innovations unveiled at the show. The Leica DSX is a portable ground penetrating radar (GPR) system for detecting underground utilities. Designed to simplify data capture and automate data processing, the DSX enables users to easily detect, map, and visualise underground utilities safely and reliably with the highest positioning accuracy.

The Leica Cyclone 3DR reality capture software fuses technology for centralised, full-scale point cloud management from Leica Cyclone with advanced, automated point cloud analysis and modelling from 3DReshaper. The new program provides a simplified platform for surveying, architecture, engineering and construction (AEC), and tank inspection applications.

The Leica BLK247 is the first 3D laser-scanning sensor for security surveillance, providing continuous, 24/7 situational awareness. It is designed for continuous 3D

reality capture, extending capabilities for safety and security applications. The sensor provides real-time situational awareness through edge computing and LiDAR-enabled change-detection technology.

The Leica BLK2GO is the smallest portable, completely integrated, handheld-imaging scanner in the industry, introducing never-before-seen mobility for scanning complex indoor environments. The handheld-imaging laser scanner combines visualisation, LiDAR, and edge-computing technologies to scan in 3D while in motion, allowing users to be much more agile and efficient in capturing objects and spaces.

Hexagon's Geosystems track also offered attendees hands-on trainings that provided expert instruction in laser scanning. Sessions were also provided in an array of industry offerings including:

- Surveying and infrastructure
  - Building construction
  - Heavy construction
  - Public safety
  - Transportation
  - Utilities and communications
  - Plant
  - Digital cities
  - High definition surveying
- The track also included several presentations by customers.
- Rodrigo Gazen and Rosi Bernardes of Magna Engenharia presented a case study from Brazil on measuring a tunnel for repairs to allow a train to travel safely through it.

- Jamie Bradburn, operations manager at CARDNO, and Alex Novo, business unit director at Hexagon's Geosystems division, shared a case study about using GPR technology to map one of the most famous routes in the world.
  - Darin Marsden, director of productivity technologies at Faith Technologies, discussed how adapting technology enables increased productivity and safety on construction sites.
  - Jeff Goodman and Fred Prozzillo of the Frank Lloyd Wright Foundation presented a case study in reality capture of Taliesin Wright in this 3D immersive experience.
  - Forrest Huff, virtual design and construction manager at Kormso Construction, shared a case study about the full interior renovation of a historic theatre using the latest digital technologies.
- Hexagon's flagship event, newly named HxGN Live Global, is moving to an every-other-year schedule, returning to Las Vegas in June 2021.

Meanwhile, Hexagon will expand the HxGN Live series to include all events formerly known as HxGN Local, which includes hundreds of regional, local and industry-specific events.

If you weren't able to join this year, visit [hxgnspotlight.com](http://hxgnspotlight.com) for the highlights.

**Penny Boviatsou is a communications specialist for Leica Geosystems ([www.hexagon.com](http://www.hexagon.com))**

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# GEO

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