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Bluesky and Skyline Create Dynamic 3D City Models

Ashby-De-La-Zouch, UK - May 13, 2019 - Aerial mapping company Bluesky is working with SkylineGlobe UK on a project to provide high accuracy, photorealistic 3D City Models that will be available as off the shelf datasets and via an internet streaming service. The new, dynamic 3D models will provide a visualisation and analytical platform for smart city projects, transport and infrastructure planning, risk assessment and mitigation, development planning and environmental work.

To create these unique 3D digital twins, Bluesky and Skyline will integrate leading edge technologies. To capture the city imagery, Bluesky has deployed its hybrid oblique imaging and LiDAR airborne sensor. Skyline is then processing and publishing the data into 3D digital twins using its 3D earth visualisation software and services.

The new 3D city models are created from the latest high-resolution aerial photography and LiDAR data captured using Bluesky's Leica CityMapper sensor. The CityMapper is the first sensor that can simultaneously capture vertical and oblique aerial photography as well as LiDAR and Colour Infrared and is specifically designed for highly detailed building and city modelling projects.

"We know the CityMapper, with its ability to simultaneously capture survey grade imagery and high accuracy height data, has the potential to revolutionise the production of 3D City models," commented Rachel Tidmarsh, Managing Director of Bluesky. *"By working with Skyline on this project we can create and deliver cost effective, viable 3D models for a range of applications."*

The Bluesky CityMapper imagery will be processed using Skyline's PhotoMesh software to produce 3D city models that contain attribution and can be queried and analysed like any other geospatial dataset. The geometrically precise, photo textured 3D models will be available in a variety of formats for use in desktop modelling, mapping, CAD, web and visualisation software as well as virtual reality and artificial intelligence applications.

"Bluesky is leading the way in data capture by investing in state-of-the-art equipment and innovative workflows," added Dave Loescher, Managing Director at Skyline Globe UK. *"Utilising our comprehensive platform of applications, tools and services we can transform that data with unlimited scalability and superior precision to produce consistent, accurate and realistic 3D Models."*

Starting with London and Birmingham as well as Brighton, Bristol, Cambridge, Norwich, Nottingham and Oxford, the new 3D model datasets and streaming service will be available from Spring 2019. Bluesky has also announced an ambitious data capture programme, deploying the new sensor, for the 2019 flying season which will see new 3D city models come online in due course.

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About Bluesky

Bluesky is a customer focused company based in Ashby, UK dedicated to delivering first class, innovative geographic datasets and services at affordable prices. We maintain national aerial photography, height data, tree and vegetation mapping and our expertise also includes LiDAR and thermal airborne acquisition and photogrammetry. Learn more at www.bluesky-world.com/

About Skyline Software Systems

Founded in 1997, Skyline Software Systems, Inc. is a leading provider of 3D earth visualization software and services. The company offers a comprehensive platform of applications, tools and services that enable the creation and dissemination of interactive, photo-realistic 3D environments. Skyline has built a "best of breed" set of tools that remain focused on the needs of our customers including flexibility, efficiency and robustness. SkylineGlobe UK is a subsidiary of Skyline Software Systems. Learn more at www.skylinesoft.com

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#PhotoMesh, #DigitalTwin, #3DCityModels, #SmartCities, #CityMapper