

## Media News

### MissionOS Reaching for the Sky



Beautiful iconic building structures can be found reaching for the sky all over the world. New York city, U.S., known to be the home of “skyscrapers”, is often referred to as the “concrete jungle”, itself having over 300 buildings. In Asia, Hong Kong alone, now has over 500 of these high-rise edifices, and there are numerous other signature sky-line examples in China, Malaysia, Singapore, Bangkok and Vietnam.

A “skyscraper” by definition; is a continuously habitable high-rise building, that has approximately 40 floors and is taller than 150 meters. With more advancements in construction technology throughout the 20<sup>th</sup> century, it has allowed for increasingly taller buildings to be constructed by ease, regardless of complex and intrinsic designs.

Each city where building construction takes place, comes with its own challenges and risks. It could either be down to the geology, the geography of the land, as well as the design of the building. Constructors have to take into account ambient movements also that come about due to the temperature, wind, as well as the complex interaction of dynamic and static movements as the structure comes under temporary and permanent loads.

The continued advances of digitalisation within the construction industry has seen vast improvements in construction technology. Instrumentation monitoring is now commonly adopted to extend conventional surveying to monitor the performance of the building construction in real-time, thereby dynamically adjusting the construction stage by stage. Utilising and adopting technology for monitoring ensures high-degree of reliability, and reduces human error if more conventional methods are opted for.

Maxwell GeoSystems' MissionOS software can handle all the processing in real-time, generate reports and provide predictive tools based on the construction progress and calculate derived parameters. The software is able to track the production progress, quality and performance for each structural element, such as pile, column or beam. This makes MissionOS a single-source for all the project data, benefiting architects and engineers from top to bottom.

MissionOS has the functionality and capability in post-event monitoring of buildings and surroundings in the case of natural disasters (earthquakes, tsunamis, hurricanes etc.), or even in case of building fires.

Furthermore, MissionOS has BIM capabilities, and provides a readily accessible online environment for 3D structural health monitoring, allowing as-built comparisons and analysis.

To learn more on the key capabilities MissionOS has to offer in building monitoring and construction, visit:

<https://www.maxwellgeosystems.com/applications/building-construction-digitalisation-software>

**#MGS #ConTech #BuildingMonitoring #BuildingConstruction #Monitoring #MissionOS**

**Date: 21/07/2022**

**Ref: MGS-BMC 01**

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