## GIS and Drone Photogrammetry: Transforming Spatial Analysis and Mapping into Digital Reality

## Adrian Darmawan (Australia)

Key words: Photogrammetry; Real estate development; Spatial planning; Urban renewal

## SUMMARY

Drone photogrammetry, together with Geographic Information Systems (GIS), is transforming the geospatial industry by providing precise, cost-effective, and efficient data collection. Using the drone aerial images, they can be stitched together into high-resolution orthomosaics, Digital Elevation Models (DEMs), and 3D models. The smooth integration of photogrammetric outputs into GIS platforms allows insightful spatial analysis and decision-making, especially when urban planners make decisions on new green spaces on unutilised slopes, identifying cracks in buildings, or quality assurance.

GIS and Drone Photogrammetry: Transforming Spatial Analysis and Mapping into Digital Reality (13339) Adrian Darmawan (Australia)