Developing a Highly Effective and Efficient Land Administration System Through the Application of UAV

Oluropo Olajugba and Chika Okorocha (Nigeria)

Key words: Effective; Efficient; land Administration; UAV

SUMMARY

An effective land administration system requires a complete acquisition of all parcel information within a geographical jurisdiction. This can be easily achieved through aerial photogrammetry or satellite based image acquisition system at a required Ground Sampling Distance (GSD). The development of Unmanned Aerial Vehicle (UAV) in the geospatial industry has greatly reduced the rigor associated with deploying an aircraft for aerial mapping. Aerial photographs for various applications have previously been only acquired through manned sensor platform like airplane or helicopter until the development of UAV. The UAV is not only high effective and efficient but also cost effective. Aerial Photos of very high resolutions can be acquired at very low cost. In this paper the procedure for ensuring acquisition of reliable photographs and producing the right deliverables such as orthophotos for land administration is presented. UAV have solved problems like weather conditions and cloud cover associated with manned aerial platform in aerial photogrammetry as the drones are usually flown below the cloud.

Developing a Highly Effective and Efficient Land Administration System Through the Application of UAV 1 (7827) Oluropo Olajugba and Chika Okorocha (Nigeria)

FIG Working Week 2015 From the Wisdom of the Ages to the Challenges of the Modern World Sofia, Bulgaria, 17-21 May 2015