

**THE EMERGING OF 'SURVEYORS AND CARTOGRAPHERS'
OUTSIDE THE BOUNDARY OF THE SURVEYING AND
MAPPING PROFESSION**

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**TOPIC: THE EMERGING OF ' SURVEYORS AND
CARTOGRAPHERS' OUTSIDE THE BOUNDARY OF
THE SURVEYING AND MAPPING PROFESSION**

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Abstract

The emerging of innovative technologies such as Global Positioning Systems (GPS), Geographic Information Systems (GIS), Automated Surveying, and Remote Sensing are having significant impact on the Surveying and Mapping Professions. In fact, these technologies have changed and are continuing to change considerably some of the core conventional Surveying and Mapping techniques. Hence introducing noticeable benefits to the professions as well as portraying the Surveying and Mapping professionals the *icon of a smart man*.

On the other hand, the developments of these technologies have facilitated a *Surveying and Mapping liberation*. Other users of these technologies who are not Surveyors and Cartographers are claiming the liberty provided by these technologies to perform some of core and highly preserved functions of the Surveying and Mapping professions such as conducting field measurements using GPS and Automated Theodolites and producing maps using GIS with out proper understanding of measurement science and mapping concepts.

The question confronting the Surveying and Mapping Professionals is not only to protect the professions but should be extended to account for professional survival and preservation of core professional functions, promoting and creating technological domain/leadership in the emerging and innovative technologies and taking the leading role in promoting and enforcing quality control standards and specifications in the Surveying and Mapping professions so that other users of the emerging technologies can comply with.