SMART CITY SMART CONSTRUCTION

In-person presentation / Written paper

Laura Pinfold

Cape Peninsular University of Technology, cape Town, South Africa

South African construction firms are lagging behind in the adoption of Building Information Model (BIM) processes. China and South Africa are in a similar position unlike the United Kingdom where collaborative 3D Level 2 BIM maturity and compliant information and data on projects is a requirement for all tendering suppliers for central Government departments. The BIM platform provides information infrastructure required of a Smart City and forms an important part of Smart City operations and management. The Smart City concept is particularly popular world-wide and is driven by Big Data and the Internet of Things (IoT). A Smart City integrates information obtained from the built environment as well as many other data sets in order to manage city assets and promote long-term objectives of the city. On the 6th January 2014 the ‘Guian New Area’ located south of Guiyang city in China’s Guizhou province was approved as one of the pilot zones for the development of the country’s big data industry. This research considers the possible impact of China’s New Big Data industry
and the influence it will have on the advancement of BIM and Smart City standards in China. In this paper, the author argues that BIM will benefit from Big Data-infrastructure and suggests that BIM will probably expand from its predominantly building-focused models to models that encompass an entire city.

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• Author(s) Biography (200 words each):
  
  • M.Tech Masters - CPUT (Construction Management, 2015)
  • B.Tech Surveying - Cape Peninsula University of Technology (2002)
  • UNIGIS Post Graduate Certificate in GIS – University of Pretoria
  • Professional affiliation – PLATO (Survey Technician)

  2007- Present – (Employer) Cape Peninsula University of Technology – Faculty of Engineering - Department of Construction Management and Quantity Surveyors – (Job Title) Lecturer
  1998 to 2007 - (Employer) Department of Land Affairs - Surveyor-General’s Office, Cape Town – (Job Title) Geomatics Engineer