



ABOUT FIG SEARCH FEEDBACK



International Federation of Surveyors Fédération Internationale des Géomètres Internationale Vereinigung der Vermessungsingenieure

Article of the Month May 2014

The Development of 3D City Model for Putrajaya MPC Database 10

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Commission No.7















FEDERAL TERRITORY OF PUTRAJAYA



Total area of 4931 hectare

20 Precint

10,580 land parcels









Multipurpose Cadastre



A multipurpose cadastre is designed to record, store and provides not only land records information but also a wide variety of parcel-object related information and data from many sources. It also provides relatable services and products for many purposes and to many users.

> XXV International Federation of Surveyors Congress, Kuala Lumpur, Malaysia, 16 – 21 FIG 2014 Congress, 16 – 221 June, Kuala Lumpur















JUPEM MPC Data Infrastructure







- GLMS Layers
- Large Scale Mapping Data
- Digital Elevation Model
- High Resolution
 Satellite Image
- Airborne LiDAR Data
- Orthophoto
- Utility Data
- Street Addresses
- Textual Data
- MyGeoid Putrajaya
- MyRTKnet Station Coordinates
- Levelling Benchmark Values









MTLS Dual Laser DynaScan 3 system



















LoD 3

FIG

GENERATING 3D CITY MODEL (Cont..)

Represent further expansion by adding to LoD 2 structural elements of details such as facades and pillars and draping all objects with photo texture



LoD 4









3D CITY MODEL OF A BUILDING IN PUTRAJAYA















OBJECT ATTRIBUTION OF 3D CITY MODEL























Incorporate the recent advances in computer and GIS technologies as well as the latest MTLS 3D geospatial data acquisition technology



Will revolutionized large scale geospatial data utilisation







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CONCLUSION



This study has enabled JUPEM to determine on setting up MPC Database and understand its complexity

Enhance the concept of spatially enabled government and society in Malaysia and fulfilling the nations's vision





