The Application of 3D GIS Models in Support of UNAMID Mission’s Camp Risks Analysis and Management

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Topics

- Introduction of UNAMID
- GIS in UNAMID
- 3D Applications in UNAMID Camp Management
  - KASS 3D Model
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Utilizing Satellite imageries to study land use
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Road Survey

UN logistics operation need road information

Verifying road information

Road Survey

Poor road condition in Darfur

Onsite recording is needed
TLM field verification

Field verification

Check map elements

Borehole Survey

Field work was converted to map product
Water Assessment

Geophysical Survey

Hydro-geological Survey

Geological Mapping

Field Data Downloading and Analysis
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Location of Kass
Location of Kass Team Site

Town of Kass

Kass Team Site
Kass Team Site and the Helipad
Layout of Kass Team Site
Layout of Kass Team Site

Camp Layout in 2011
Camp Layout Change from 2011 to 2013

Camp Layout in 2013
Camp 3D Model
Camp 3D Model
Camp 3D Model

Gate
Camp 3D Model

Gate
Camp 3D Model

- Camp Manager
- Offices
- Gate
Camp 3D Model
Camp 3D Model
Example Application of the GIS Model in UNAMID Property Management

When inquiry container’s MID number, the corresponded location is displayed. The area of the container is automatically calculated.
Example Application of the GIS Model in UNAMID Property Management

3D object is displayed.

Back view

Front view
Difficulties in Collection of Field Data and Constructing of 3D Models
Difficulties in Collection of Field Data and Constructing of 3D Models
Thanks