GIS application for logistics and property management in the Department of PeaceKeeping Operations (DPKO)

United Nations Mission in Democratic Republic of Congo MONUC

One of the roles of a GIS Unit in DPKO is to act as the focal point of all Geographic Information matters in the Mission. Coordinating, supplying and serving the Geographic Information for the logistic and substantive staff and also Peacekeeping Troops, Military Observers and Civilian Police.
GIS application for logistics and property management in DPKO

Today's Topics

• Property Control and Inventory Unit (PCIU) and GIS Unit
• PCIU web application
• How it works
• The challenges
PCIU and GIS Unit

• Property Control and Inventory Unit - PCIU
  • Physical verification of UN Owned Equipment (UNOE) within the mission.
  • Monthly and yearly inventory reports are generated for mission management and UN Head Quarters (HQ).
  • Maintenance of accurate and auditable records in Galileo Inventory Management System.

• GIS Unit
  • Focal point in the mission for production, analysis, coordination and dissemination of geographical information.
  • Support mission logistic operations.
PCIU web application

Is a web based tool developed using ArcGIS WebADF and running on ESRI ArcGIS Server 9.3 platform.

It is a framework for understanding our inventory and applying geographic knowledge to solve property management problems.
How it works?

The application may help you to determine:

"where"

"Why"

“What If?’

How much?……etc.
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Screen shot PCIU Web – ArcGIS Server
…How it works?

The application provides customer intelligence solutions that lead to better business decisions that help to analyze:

- Site selection for Preliminary Assets Disposal Plan (PADP)
- Customer segmentation
- Demographic trends
- Potential commodity hub

Helping to save time by integrating data from various sources into one graphical application that is not available in the current Galileo system.

- Assets, UN flight routes, locations, rivers, roads, administrative divisions
Screen shot PCIU Web – ArcGIS Server

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PCIU Assets Distribution and Concentration:

Find Assets by Name

Clear All

Find Assets by Name (2)

Location: KISANGANI
Description: 4x4 GENERAL PURPOSE
Number: More Than 12 Months / Val
Between and 11 Months / Val
Less Than 1 Month / Val
Total Purchase Cost: 28536.02

Map Contents

PCIU Data

- Assets in Use
  - Between 1 and 600
  - Between 600 and 2000
  - Above 2000
- Units in Stock
  - Between 1 and 100
  - Between 100 and 500
  - Between 500 and 2000

Find Assets by Name

Asset Name: 4x4 GENERAL PURPOSE

- AIR CONDITIONER
- AMPUER HIGH POWER SATELLITE
- AMPLIFIER LOW NOISE SATELLITE
- ANTENNA MASTS
- ANTEENAS
- AUDIO EQUIPMENT
- BANDING MACHINE
- BEVAN FORMING MACHINE-PIES
- BERM LINER
- BINOCULAR
- BOAT
- BRIDGE
- BUS-15 Passenger
- CABINET
- CAMERA LENS
- CAMERA PHOTO
- CAMERA VIDEO
Screen shot PCIU Web – ArcGIS Server
GIS Unit and PCIU data sources

• GIS Geodatabase:

  Villages position X,Y: Where assets are

  *Linking the geographic information*

• United Nations Galileo Inventory Management System

  Descriptive information:  Generic description
  Age of asset in stock
  Stock status
  User category

Using csv table files from the Galileo system
SDE – Database Views
ArcIMS* / ArcGIS Server
Screen shot PCIU Web – ArcGIS Server
The challenges

• Direct Access to Galileo to have a real time application.

• Implement it globally throughout DPKO Missions.

• A new component that will enable a step forward: 2 – 3 years
  • UN Enterprise Resource Planning ERP
MONUC – DR Congo

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