GNSS APPLICATION IN THE TRANSPORT SECTOR

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WHAT DOES TRANSPORT & COMMUNICATION INVOLVE?

• The movement of goods, human beings and animals to and from

• Various forms of interaction e.g. by phone, mail etc.

• The infrastructure utilized to facilitate all this
BACKGROUND

- Zimbabwe had an enviable transport infrastructure
- Maintaining this proved to be a challenge having emerged from a war situation.
- GNSS technology was not available then in most third world countries help to ease the challenges
BACKGROUND cont.

• GIS emphasis was on manipulation of data rather than collection methods.
• Satellite imagery- though gained momentum, the resolution was of poor quality.
• Global positioning system (GPS) is more popular than GNSS
BACKGROUND cont.

• Traditional methods of updating maps are now obsolete
• Various new options available have their own merits and demerits
• GNSS has more merits
• Transport & Communication infrastructure require medium to large scale maps
PROGRESS MADE

• Development of the sector continues at a slow pace due to challenges related to most third world countries

• Civil Aviation Authority of Zimbabwe (CAAZ) had international civil aviation requirements to comply with

• The Department of Surveyor_General (DSG) with the assistance of an NGO from Netherlands did limited work for CAAZ using GNSS
PROGRESS MADE cont.

- DSG has acquired Geodetic & hand held GPS receivers though not enough
- Training
USE OF GNSS AT DSG

• Zimbabwe urgently needs up-to-date maps to portray the terrain situation as influenced by the Land Reform
• The new maps will be useful when making further developmental plans
• Thus creating multi-purpose essential database
BENEFICIARIES OF GNSS DATA

• Ministry of Health & Child Welfare: Out-reach to HIV-AIDS patients & to reduce Malaria prevalence areas

• Ministry of environment & tourism: A good infrastructure will promote the sectors development

• NGOS: Food distribution etc. in times of need
BENEFICIARIES OF GNSS DATA cont.

- Ministry of Transport & Communication
- Ministry of Agriculture, Land & Resettlement
- The private sector e.t.c
CONSTRAINTS

• As a developing country there are other life threatening priorities to deal with urgently

• Foreign currency issues overcast the sourcing of GNSS technology & training
WAYFORWARD

• Partnerships may have to be developed with our stakeholders to ensure that capital is raised

• Policy and decision makers have to be educated in this regard to obtain necessary support
CONCLUSION

- A pilot project was conducted as mentioned earlier on, it is now time to start utilizing the technology resources permit.
- There will be need to train more people to ensure continuity
THANK YOU