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Architecture	1 Satellite, 1 fixed ground station, store and forward and near-real-time imaging
Orbit and Launch	700km SSO, 22:30 PM LTAN - DNEPR,
Lifetime,	7yrs
DATA PRODUCTS	
Imaging modes	Single and strip scenes (ON & OFF Nadir), Area scenes, Stereo images, Near-Real- Time (NRT)
Quality	5-10% radiometric calibration, 30-45m geolocation accuracy
Capacity	Over 150 raw images per day or 450 compressed ones, storage for 70 images

EO PAYLOAD	
GSD and swath	2.5m PAN & 5m MS at 20km x 20km for VHRI
	32m MS at 300km x300km for the MRI
SPACE SEGMENT	
Mass	Approx. 300kg
Communication, Command and control	S-band TTC link at 28/28 Mbps up/downlink
	X-band data rate at 2x105 Mbps downlink,
	Back door commanding, automated operations
GROUND SEGMENT	
Mission planning	Web based automated MP system
Mission and spacecraft control	Full compatibility with NigSat-1 GS, full networking of MCC and all equipments, 7.3m dish ground station











FIG Congress 2010 Facing the Challenges – Building the Capacity Sydney, Australia, 11-16 April 2010













CONCLUSION

□Mapping of the whole country is germane to achieving a sustainable national development planning to support the current effort in alleviating poverty and achieving the Millennium Development Goals (MDGs). Availability and easy access to satellite imagery at relevant spatial resolution serves as catalyst in this respect.

□Nigerian Space Programme serves as major input for the successful implementation of Rural Development, MDGs, and SDI in the country.

□Realisation of Rural development objectives depends on availability and speedy access to real-time data and availability of relevant infrastructures for data acquisition, processing, standardisation and XXIV FIG nternational Congress 2010 (c)Agbaje 2010 data sharing.

CONCLUSION

- Space technology has convincingly served and will continue to serve as a major tool for the management of the natural resources endowment of any nation and for providing a better understanding of the environment, as well as the interactions between the environment and society. It will also enhance the nations defence and security.
- The unique roles of space technology in the achievement of developmental agenda, which includes economic reforms, poverty reduction and economic stability cannot be overemphasized.

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