

Product solution for: AVS/Nigerian Mapping



## Imagery central to updating Nigerian countrywide maps

Nigeria is the most populous African country; the seventh most populous nation in the world. Gaining independence in 1960 and subsequently struggling with coups and civil war in the years following, today the country is characterized by a stable democracy and fast-growing economy. A wealth of changes to the landscape and infrastructure have occurred since independence was declared, but planners and government officials relied on dated analog maps for land, environmental and resource-use decisions.

### Analog country maps have not kept up with change

Nigeria has undergone a tremendous transformation since analog maps were created. Between 1990 and 2008 alone the country's population increased by 60 percent. Nigeria has also grown into the world's eighth largest exporter of oil and is ranked thirtieth in the world in terms of GDP. Along with the economic and population growth, environmental and infrastructure issues have come to the forefront. Waste management, sewage treatment, deforestation, soil degradation, global warming and climate all pose environmental challenges.

"The analog maps created in 1965 were good for that period but had many limitations, including issues such as map scale, relevance, recency, and analysis," explains Adewale Bhadmus, president of Aerial-View Solutions International. "Many Government Ministries and Agencies did not have any current, reliable mapping data from which to make planning decisions or even create accurate street maps."

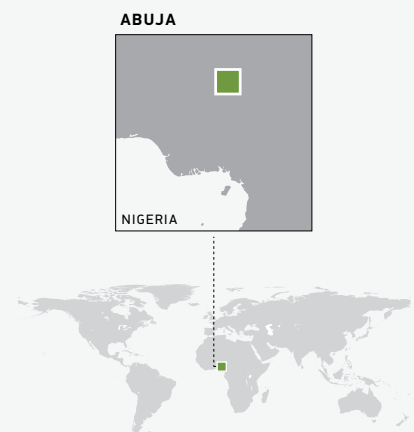
### Imagery presents an affordable mapping solution

The Office of the Surveyor General of the Federation (OSGOF) is responsible for providing surveying and mapping activities within Nigeria. OSGOF had used medium resolution images for many of its mapping projects in the past but in 2012 procured imagery for over 5,000 square kilometers to begin the task land cover mapping, cadastral mapping and determining right-of way for some Federal Highways.

"DigitalGlobe's very recent images were used in creating up-to-date maps of area of interest," Bhadmus says. "The images gave us excellent spatial insight to places that were difficult to reach in terms of areas of emergency, conflict and isolated settlements, and they gave us detailed insight into the spatial extent of some of our cities."

### Company information

Aerial-View Solutions is Nigeria's fastest growing Geographic Information Systems (GIS) and Remote Sensing (RS) firm. Operating with integrity, the firm has maintained its prime position over time. In addition to being Nigeria's distributor of DigitalGlobe satellite imagery, Aerial-View Solutions provides image processing services such as ortho-rectification, tonal balancing, mosaicing, image compression and DEM generation.



**AERIAL-VIEW SOLUTIONS**
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## The ability to monitor a rapidly changing infrastructure

The pace of change in Nigeria is persistent. Population growth today continues to explode at about eight percent annually, with economic growth occurring at a similar rate. Access to satellite imagery is providing a wealth of benefits from both an economic and land use decision-making standpoints, providing government officials the information and opportunity to begin to address a wealth of long-standing challenges.

“In many of our cities we did not even have street maps available,” Bhadmus says. “DigitalGlobe imagery has enabled us to map some cities and small towns that have never been updated and also allows us to study changes to the landscape over time. Finally, we are able to address long-standing mapping problems, including the identification of areas of encroachment and the ability to create street guides and township maps where they did not exist before.”

## Satellite imagery a timely, cost effective tool

With a per capita income of \$1,430 (USD), nearly half of the country’s population lives below the poverty line. Providing adequate health care, education and potable water with strained resources is an ongoing challenge. DigitalGlobe imagery offers a tremendous economic and time advantage to help OSGOF achieve its goal of creating an accurate, current countrywide map from which it can address both current and future challenges.

*“In terms of delivery, cost, accuracy, coverage and response, DigitalGlobe has far exceeded everyone’s expectations. The images we request are always delivered within four days, they are more current than any competitor’s and priced more cost-effectively. Users now have great confidence in the reliability of the maps and the need to physically take measurements has been eliminated. We strongly believe OSGOF and our other customers will continue to expand the focus of their projects for some time to come.”*

ADEWALE BHADMUS, PRESIDENT, AERIAL-VIEW SOLUTIONS INTERNATIONAL

### Challenge

Develop a timely, cost-effective solution to help Nigeria’s Office of the Surveyor General of the Federation create a current, accurate countrywide map to replace inaccurate and dated analog maps of some areas.

### Solution

Aerial-View Solutions to date has procured more than 5,000 square kilometers of imagery helping the Office of the Surveyor General create and update some maps.

### Results

DigitalGlobe consistently delivers requested images within four days. They are more current than competitors and priced effectively allowing officials to move toward their goal of creating new countrywide maps.

### INDUSTRIES

- » Utilities
- » Environmental Services
- » Government

### USES

- » Mapping
- » Cadastral
- » Elevation Data
- » Water Mapping
- » Water Pipeline Network Design

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