



Census Base Maps



Introduction

Image base maps are widely accepted as the most suitable base map for Census Enumeration Area(EA) and Supervisor Area(SA) maps. Colour Image maps are easy to interpret. This greatly enhances pre-enumeration mapping in terms of accuracy and overall quality. It also implies minimal training of census enumerators and supervisors in the use and interpretation of EA and SA maps.

Nowadays huge imagery archives exist and a range of recently launched modern satellites ensures swift acquisition of new imagery. Modern imagery from satellites and airborne digital aerial photography systems provide a realistic, cost-effective and current image base map of a country.

Our product offering

The base map consists of satellite imagery and/or aerial photography with pixel resolution ranging from 25cm - 1.5m. This is regarded as optimal for census applications. We recommend Airbus satellite imagery. The Airbus constellation of satellites has unrivalled data acquisition capacity making it ideal for census applications where fresh data is a key requirement.

Our DMC and DMC III camera systems provide detailed imagery for urban areas.

Our product offering can be summarised as follows:

Sensor	GeoSpace DMC III	Pleiades 1&2	SPOT 6&7
Resolution	4 - 25cm	50cm	1,5m
Swath	6.3km at 25cm	20km	60km
Recommended use in Census Mapping	Formal urban and very dense informal settlements	Formal urban settlements	National coverage



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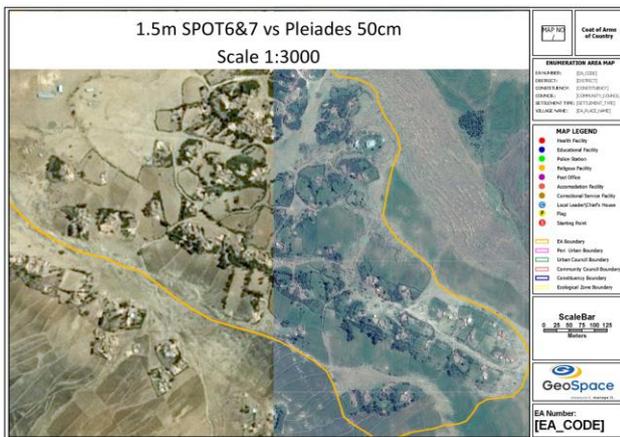
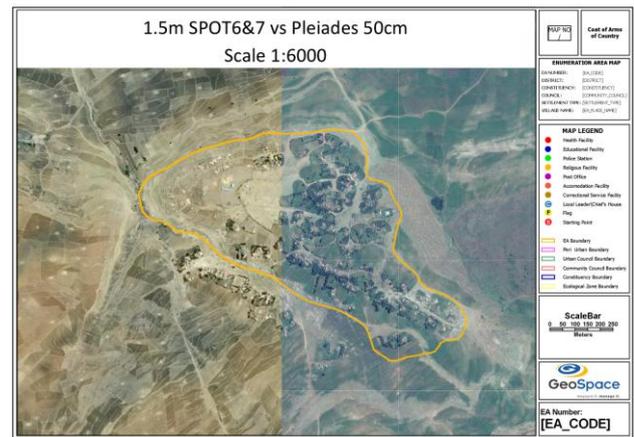
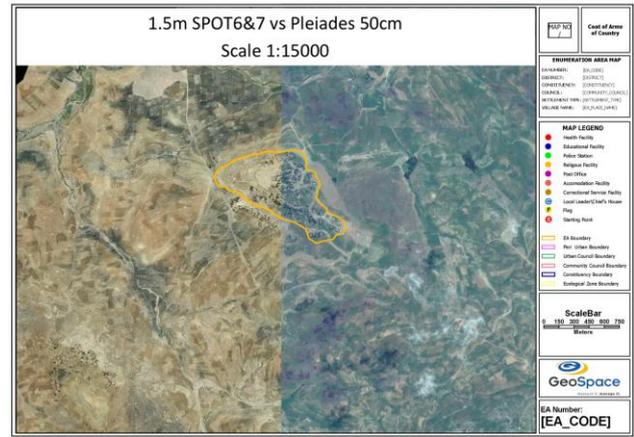
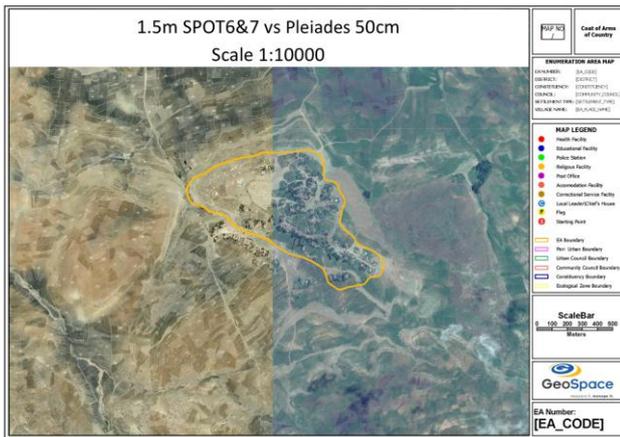
Optimal resolution

Rural EA maps are typically printed or viewed at a scale varying between 1:6000 - 1:25000.

SPOT 6 & 7 1.5m imagery is perfect for map scales < 1:6000
Urban EA maps are typically printed or viewed at a scale varying between 1:1000 - 1:10000

50cm imagery is perfect for map scales < 1:1000

The following image maps illustrate the difference between 1.5m resolution and 50cm resolution at different map scales.



What makes our offering unique?

We understand the technology as well as the unique requirements of image base maps in censuses. This enables us to recommend the optimal base map relevant to each country's unique circumstances such as geography, demography, climatic conditions, timeframe, and budget.

The imagery specifications surpass the detail and precision required by census mapping standards. Hence the relevance and usability of the imagery in the methodology and ultimately the EA/SA maps are guaranteed.

The constellation of Airbus satellites have unique characteristics that are extremely relevant and important for census applications:

- SPOT 6&7 have no direct competitors in the industry - they provide the optimal balance between image detail, costs and huge acquisition capacity;

- Pleiades provides VHR imagery that complements SPOT 6&7 in dense urban areas where more detail is required;
- Large imagery archive at various resolutions; and
- Unrivalled image acquisition capacity

Our base map solution is an integral part of Smart.Census. Smart.Census is an exciting client-server software platform developed by Hexagon Geospatial for censuses and large-scale sample surveys. It combines traditional GIS functionality with a powerful workflow and workforce management tool to provide a total solution covering the entire census cycle from Pre-enumeration mapping through to Dissemination.

GeoSpace is a proud sponsor of the Africa Symposia on Statistical Development (ASSD) since the inaugural event was held in 2006.

