



# META VR

MetaVR™ has built over 1,350 geocells of 3D terrain covering parts of Asia in its round-earth geocentric Metadesic™ format. The 13,560,000 km<sup>2</sup> virtual terrain includes Afghanistan, India, Iran, Iraq, Japan, Pakistan, and Turkey. This terrain was built from 15-meter color LandSat imagery, with 2.5-meter SPOT satellite imagery of Afghanistan, and 1-meter black-and-white imagery of Iraq color-fused with the 15-meter base imagery. In addition, the terrain includes 60 cm high-resolution natural color insets of Kandahar and the Kabul province of Afghanistan, Baghdad, Basra, Kirkuk, Tehran, Tokyo, and Osaka. Terrain elevation information was based on 3-arcsecond SRTM (Shuttle Radar Topography Mission) elevation data, subsampled to achieve a nominal 60 m post spacing.

Residing in a geocentric coordinate system, these terrain tiles are suitable for real-time visualization in MetaVR's Virtual Reality Scene Generator™ (VRSG™) in applications such as simulation, and synthetic vision such as glass-cockpit displays, intelligence, surveillance, and reconnaissance (ISR) applications and fixed-wing cockpit simulation.



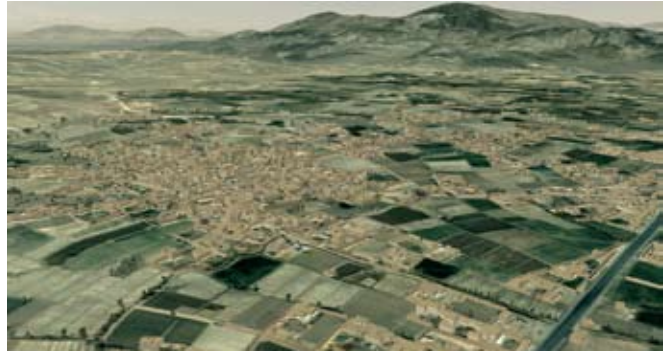
*MetaVR VRSG rendering of a high-resolution, geospecific village in southern Kabul province, Afghanistan, from MetaVR's virtual terrain of Asia.*

This dataset can also serve as a baseline to which you can add your own higher-fidelity information, such as high-resolution aerial imagery or LIDAR elevation data, GPS point surveys, or 3D point features (such as buildings, trees, targets, and runway models).

If information is provided directly from sensors in the field, such information can also be added to the terrain in real time. Using MetaVR's Terrain Tools for ESRI® ArcGIS®, you can update terrain areas of interest as you obtain additional imagery source data.

As additional source data becomes available, MetaVR will continue to build terrain for additional portions of the Asia continent.

## Asia 3D Terrain



*MetaVR VRSG rendering of the southern part of Kabul province, Afghanistan, from MetaVR's virtual terrain of Asia featuring a high-resolution, geospecific village based on the village of Khairabad.*

Specifications for MetaVR's Asia terrain dataset:

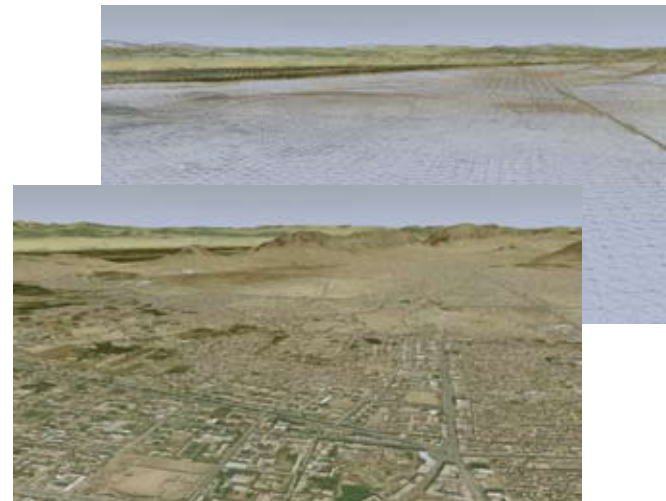
Database size = 1,357 geocells

Size on disk = 1.5 TB

Terrain post spacing = 60 meters-per-post (mpp)

Elevation source = 3 arc-second (85 mpp) SRTM

Imagery source = 15 meters-per-pixel (mpp) LandSat imagery of India, Iran, Japan, Pakistan, Turkey, and the UAE, and portions of Uzbekistan, Turkmenistan, and Tajikistan; 2.5 mpp SPOT satellite imagery of Afghanistan; 1-meter black-and-white imagery color fused with 15-meter color LandSat imagery of Iraq (approximately 70-geocell area); 60 cm natural color insets of Baghdad, Basra, Kabul province, Kandahar, Kirkuk, Tehran, Tokyo, and Osaka.

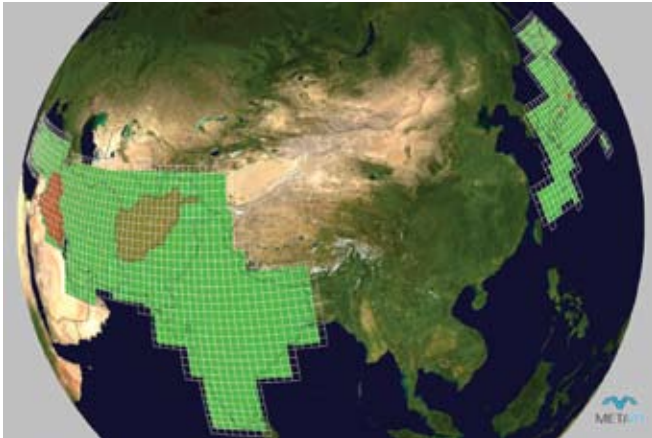


*MetaVR VRSG rendering of virtual Kandahar, in textured and wire-frame views.*



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The following symbolic representation shows the geographic coverage of this 3D dataset's terrain tiles. This terrain tile coverage map was generated with MetaVR's Model Viewer. The green areas indicate use of 15 mpp imagery and the red areas are the high-resolution insets.



*Terrain tile coverage map generated by MetaVR Model Viewer.*

Although this terrain dataset is comprised of portions of Asia and the Middle East, with MetaVR's Terrain Tools for ArcGIS you could construct a terrain of the entire region, or the entire earth.

The Metadesic (.MDS) format dataset requires MetaVR VRSG version 5.7 or greater.

MetaVR's Asia 3D terrain in Metadesic format is available for purchase to all MetaVR customers who are on active VRSG software maintenance and are US Government or NATO agencies or contractors (for official use only). The terrain is provided in MetaVR's terrain format and will only run with a valid VRSG version 5.7 software license.

The terrain is delivered on an external hard drive. (A nominal fee covers the processing of large quantities of data in the Metadesic format and the hard drive distribution media).

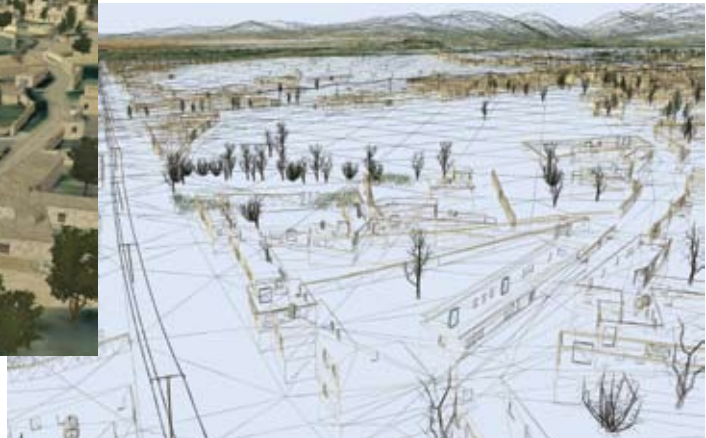
You can order this 3D terrain dataset directly from MetaVR.



*Afghanistan terrain tiles from MetaVR's virtual terrain of Asia.*



*MetaVR VRSG screenshots showing the textured and wire-frame detailed view of a portion of the southern part of virtual Kabul province, Afghanistan, including the road network of the village of Khairabad.*



*For more product information, pricing, and ordering, see MetaVR's web site at [www.metavr.com](http://www.metavr.com) or contact [sales@metavr.com](mailto:sales@metavr.com).*

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