

## CASE STUDY

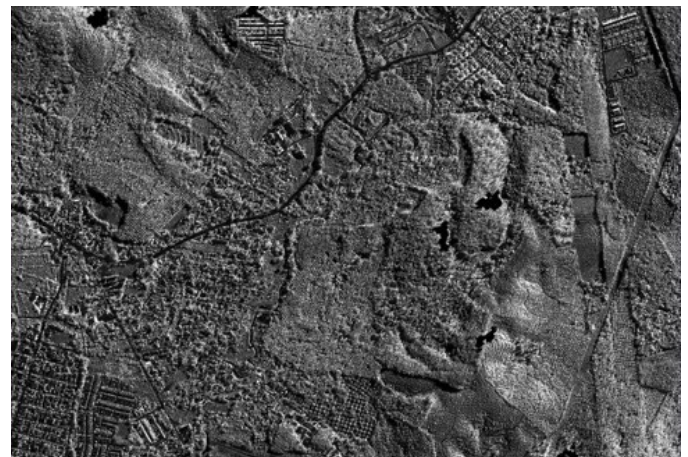
# Intermap® rapidly acquires mapping infrastructure over Peninsular Malaysia

### Challenges

A national mapping agency of Malaysia (JUPEM) was tasked with creating a high-resolution DEM over the Peninsular Malaysia, to be used in creating 1:10,000 scale topographic maps. The topo maps are the foundation data of the country's GEOINT, including national security & military programs, disaster preparation and mitigation applications, transportation management, forest resource management, land use management, change detection, infrastructure development, cadaster, and more. This tropical nation, whose area is large, has often permanent cloud-cover, substantial rain, and many other factors limiting traditional methods led to the choice of airborne IFSAR for the program.

### Solution

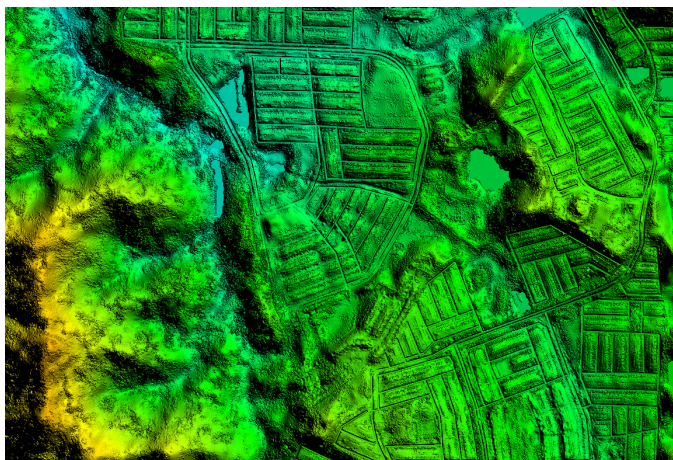
The most difficult challenge was ensuring cross-agency collaboration and communication. Under a Federal contracted program and operating as a foreign entity, Intermap had to work diligently to ensure the client, business partner, and participating



*Orthorectified Radar Imagery (ORI)*

agencies were all informed and in agreement to the project scope and timeline. Delays or misunderstandings cause losses in time, money, and project integrity. By employing a coordinated Project Management approach, honed from 25+ years of experience working with large DEM datasets and new acquisition projects, Intermap successfully mitigated risks to deliver on time, on budget, and within scope.





Digital Surface Model (DSM)

## Benefits

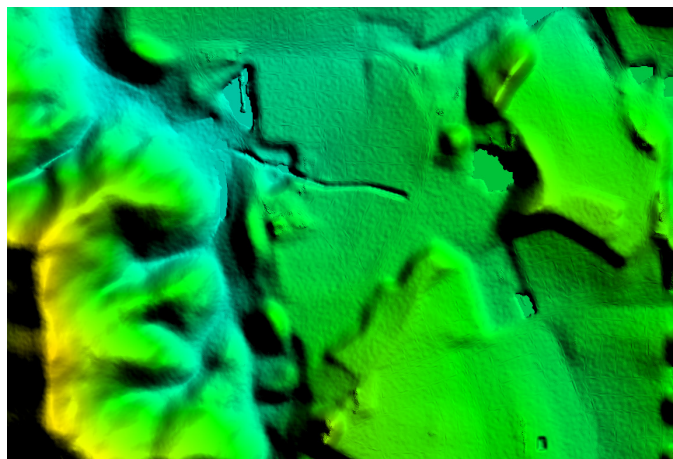
The company was able to mobilize and capture over 100,000 square kilometers of data in just 45 days. The 3D data acquired were:  $\leq 1$  meter vertically accurate Digital Surface Model (DSM),  $\leq 1$  meter RMSE vertically accurate bare earth Digital Terrain Model (DTM), 50 centimeter pixel resolution

“Intermap’s ability to mobilize and capture data, their technical training programs to educate us and our customer on all facets of the projects, with their seamless security measures and flawless execution of Peninsular Malaysia mapping project advanced our customer objectives tenfold.”



Project Delivery Partner,  
Antaragrafik Systems Sdn Bhd

X-Band cloud-free radar image, and 85 centimeter pixel resolution P-Band image, along with 2 meter contour vector data necessary for the mapping objectives. The 4 primary datasets are hosted internally on client’s secure Cloud with support of the Prime Contractor by way of enterprise GIS and automated services for distribution. In addition to the 4 primary deliverables, Intermap conducted hybrid DEM fusion services for 30,000 square kilometers of LiDAR data, and over 24,000 square kilometers of satellite SAR data. Intermap also supplied a cloud-free Color Orthorectified Radar Image (CORI) product at 1 meter resolution and 99% cloud-free for the entire 140,000 square kilometer Area of Interest (AOI).



Digital Terrain Model (DTM)



Intermap Technologies is an industry leader serving a diverse geospatial marketplace. We provide highly accurate geospatial information to help commercial enterprises and government agencies make better location-based decisions.

[intermap.com](http://intermap.com)

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