



Highlights:

- Provide DEM and high resolution orthophotos for a proposed mine site, plant site, and connecting pipeline route (approx. 300km²)
- Terrain varying from mountain-ous jungle to coastal flood-plain



Background:

LSI was contracted by Dynatec Corporation to provide surveying and mapping services to support the planning and development of a nickel mine in Madagascar. Because much of the project area was located in remote mountainous jungle, the project required the establishment of a GPS control network in order to provide an accurate DEM and 15cm orthophotography for the entire project area.

The rugged terrain, dense vegetation, and weather patterns presented a unique challenge to the LSI survey team. The HELIX LiDAR system was able to fly below the clouds and collect data when other high altitude LiDAR systems would have been waiting for better weather.

LSI delivered a bare earth and full feature DEM, 15cm resolution orthophotography, and 2m contours for the required project areas. The data is being used to locate sites for facilities, select pipeline routes, and minimize and evaluate environmental impacts.

