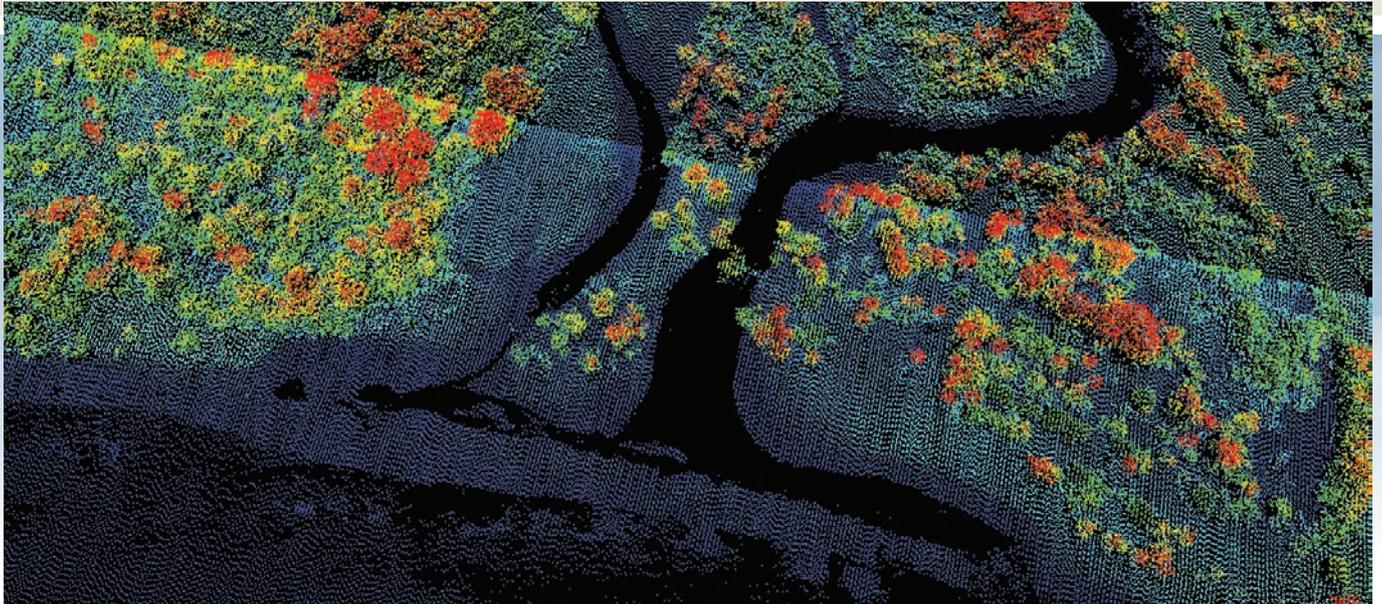
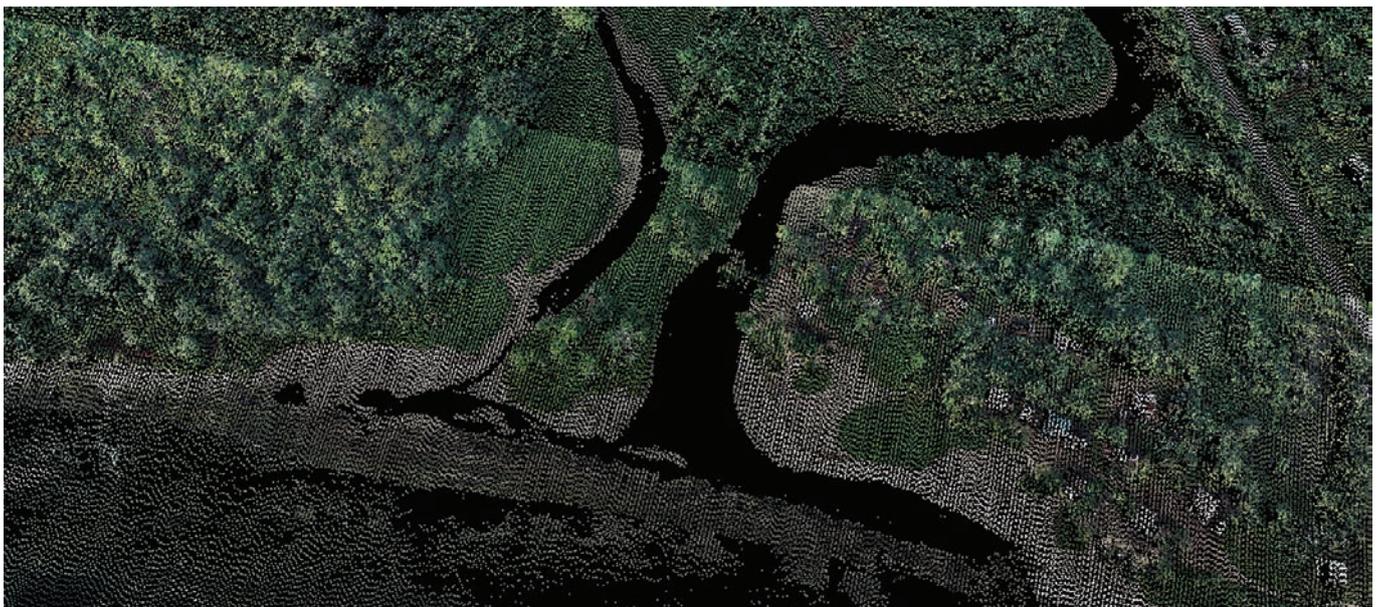


## PNG LiDAR



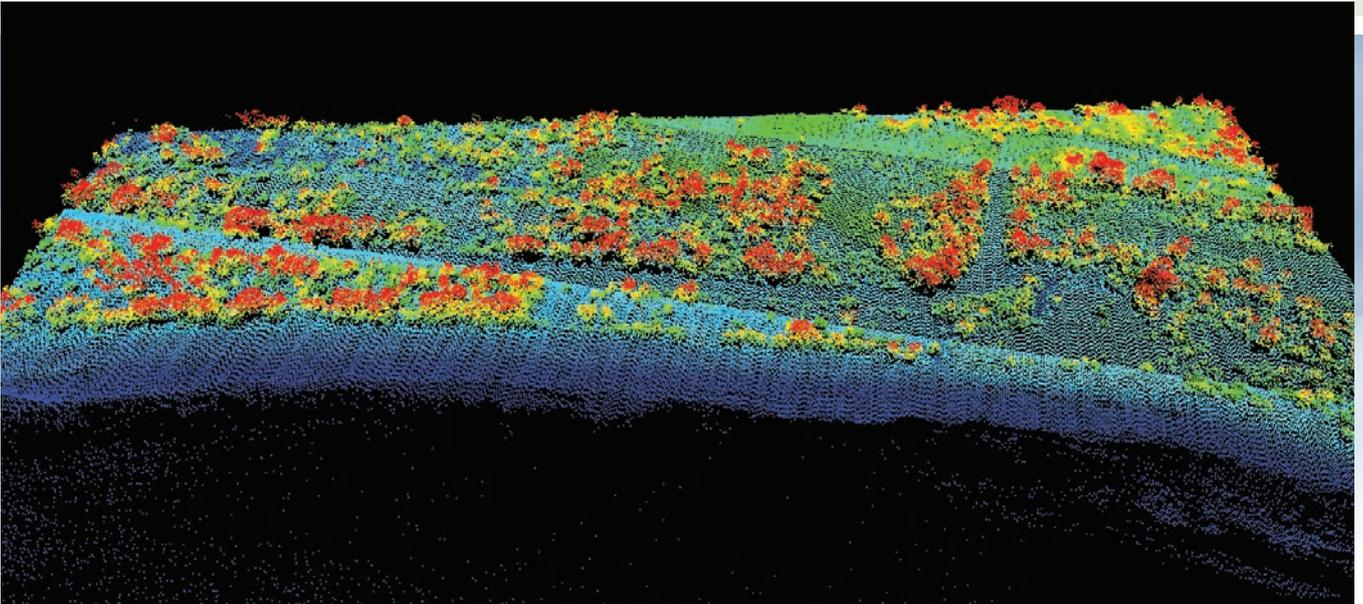
This image shows the mouth of a river to the east of the Vanimo township. Each dot in the image represents a LiDAR measurement. The red colours show the higher points, whilst the blue are lower elevations. The black areas represent gaps in the LiDAR data caused by the presence of water. The diagonal line across the image is the break between two flight lines.



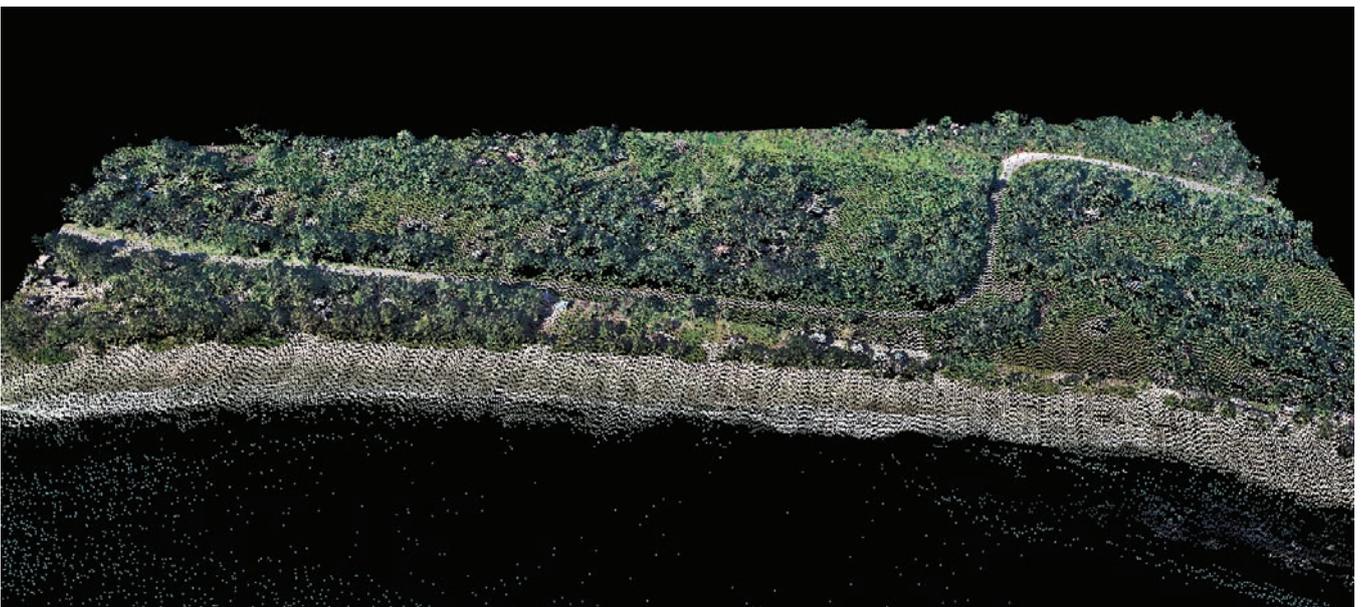
This image shows the same area as the image above. The difference being that each 3D LiDAR point uses the colours obtained from the aerial imagery, so that a realistic impression of the area is displayed.



## PNG LiDAR



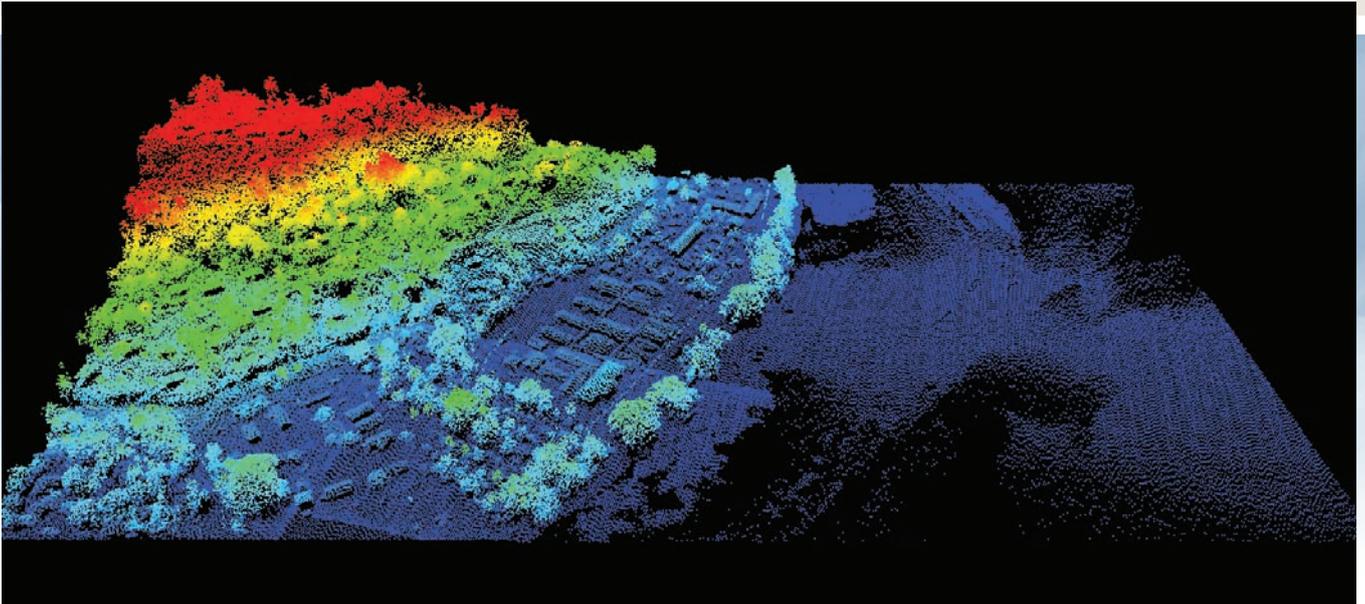
A typical section of the northern coast of PNG is shown. A smattering of houses close to the foreshore is shown amongst dense vegetation. This area is reasonably flat with the higher heights in red shown by the tops of the larger trees.



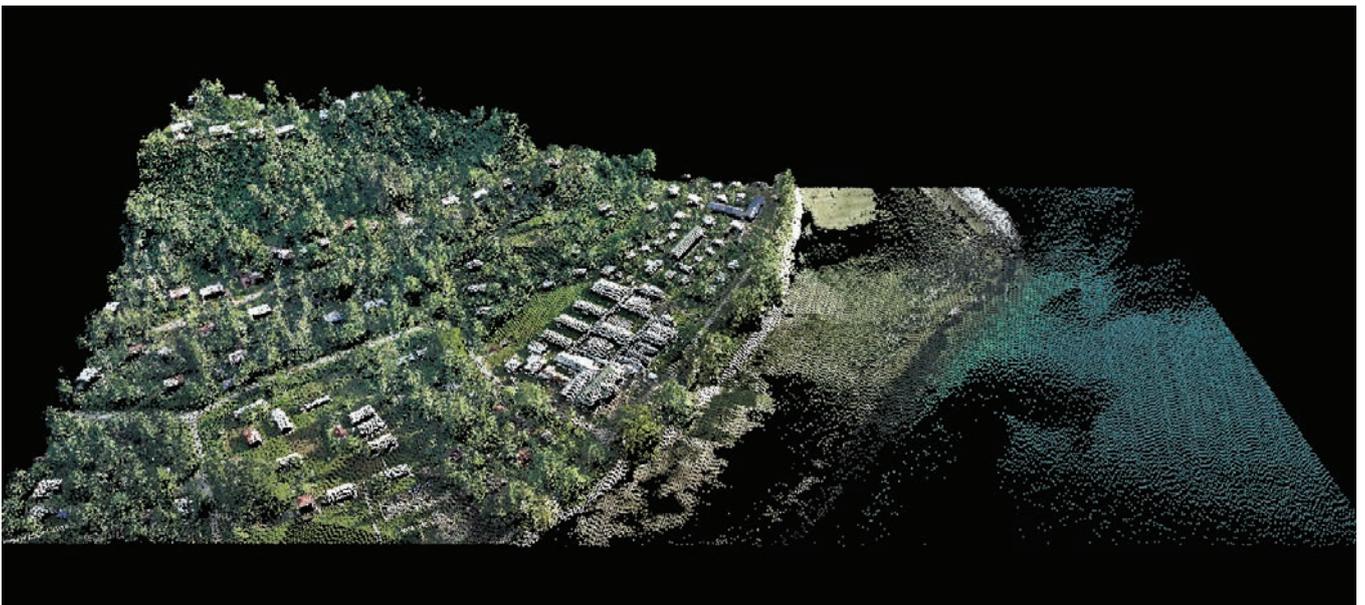
The aerial imagery is used to colour the LiDAR points. This form of analysis enables the distinction between houses and trees to be easily identified. Similarly, vegetated ground can be identified separately from the road traversing the centre of the image, and the foreshore and water at the bottom of the image.



## PNG LiDAR



A 3D perspective is taken of buildings and the surrounding area on the eastern coast of Vanimo. Significant development has occurred along the lower parts of the coast in this area. The red areas are the highest elevation, and the blue areas are the lowest.



Features and buildings of this area are easily identifiable when the 3D LiDAR points are coloured with the aerial imagery. The water is also coloured showing the waves and reef areas.



Australian Government



## PNG LiDAR



This is the currently available satellite imagery supplied by Google Earth along a section of the northern coast of PNG.



The same area as above was captured by aerial imagery during the LiDAR survey. This imagery is of a significantly better quality than what was available along the northern coast of PNG. The increased detail, and improved colour balance will provide end users with much more information.



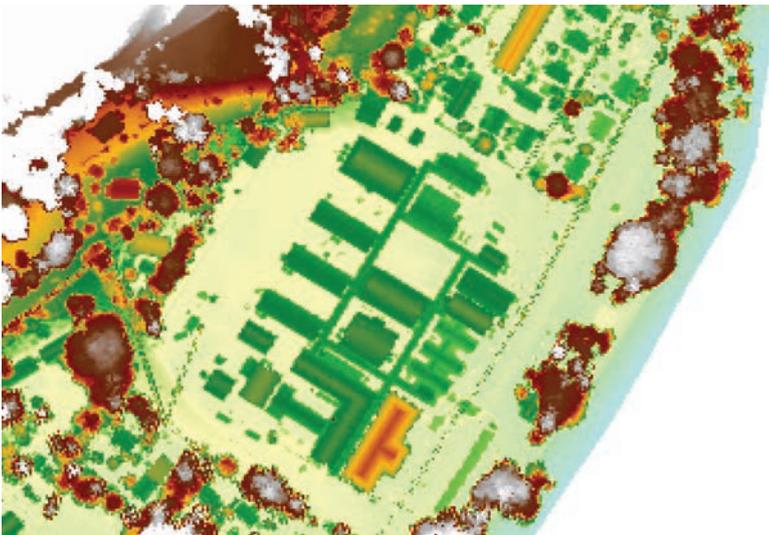
## PNG LiDAR



A building complex is shown in the aerial imagery on the eastern coast of the Vanimo township.



The same building complex is shown with the digital surface model (DSM) over the top of the aerial imagery. The two data products are accurately matched together, enabling integrated analysis using both datasets.



The DSM is shown on its own for the building complex. The white and brown heights shown by the DSM are higher than the pale blue and green areas. This area on the eastern coast of Vanimo rapidly increases in elevation away from the coast.

