

SimActive Software Used with AI to Determine Land Use





SimActive has used its Correlator3D product in conjunction with machine learning to determine land use in New Zealand. Raw images were pre-processed with a machine learning/artificial intelligence (ML/AI) algorithm developed by Lynker Analytics for New Zealand's lighting conditions, removing shading effects

from clouds between image runs. SimActive is a leading developer of photogrammetry software.

A coalition of data providers and land use experts was led by Lynker, with imagery processed over 7,400 sites by Gordon Morris, an independent geospatial specialist. The high-quality data was captured by UAV Mapping NZ Ltd. using a non-parametric camera mounted on a Cessna 172 aircraft.

Lynker is a company known for its expertise in data infrastructure, machine learning and geospatial analytics. It has developed sophisticated tools to extract new knowledge and insights about the Earth's surface and built environment from satellite imagery, aerial photography, UAVs, Lidar and other types of data.

Mosaic colour-balancing

"By applying a targeted low-frequency filter over the luminance of the image, we remove large-scale light and dark variations such as those caused by cloud shadow," said Matt Lythe, managing director of Lynker Analytics. "This gives an overall blended appearance, which further enhances mosaic colour-balancing in Correlator3D and leads to seamless integration of new survey data into existing basemaps."

"Correlator3D lets me generate the best imagery available," said Gordon Morris, a long-time SimActive user. "The team at SimActive provides me the confidence to produce tasks, big or small, with a rapid turnaround".

The high-quality data was captured by UAV Mapping NZ, using a non-parametric camera mounted on a Cessna 172 airplane.

https://www.gim-international.com/content/news/simactive-software-used-with-ai-to-determine-land-use