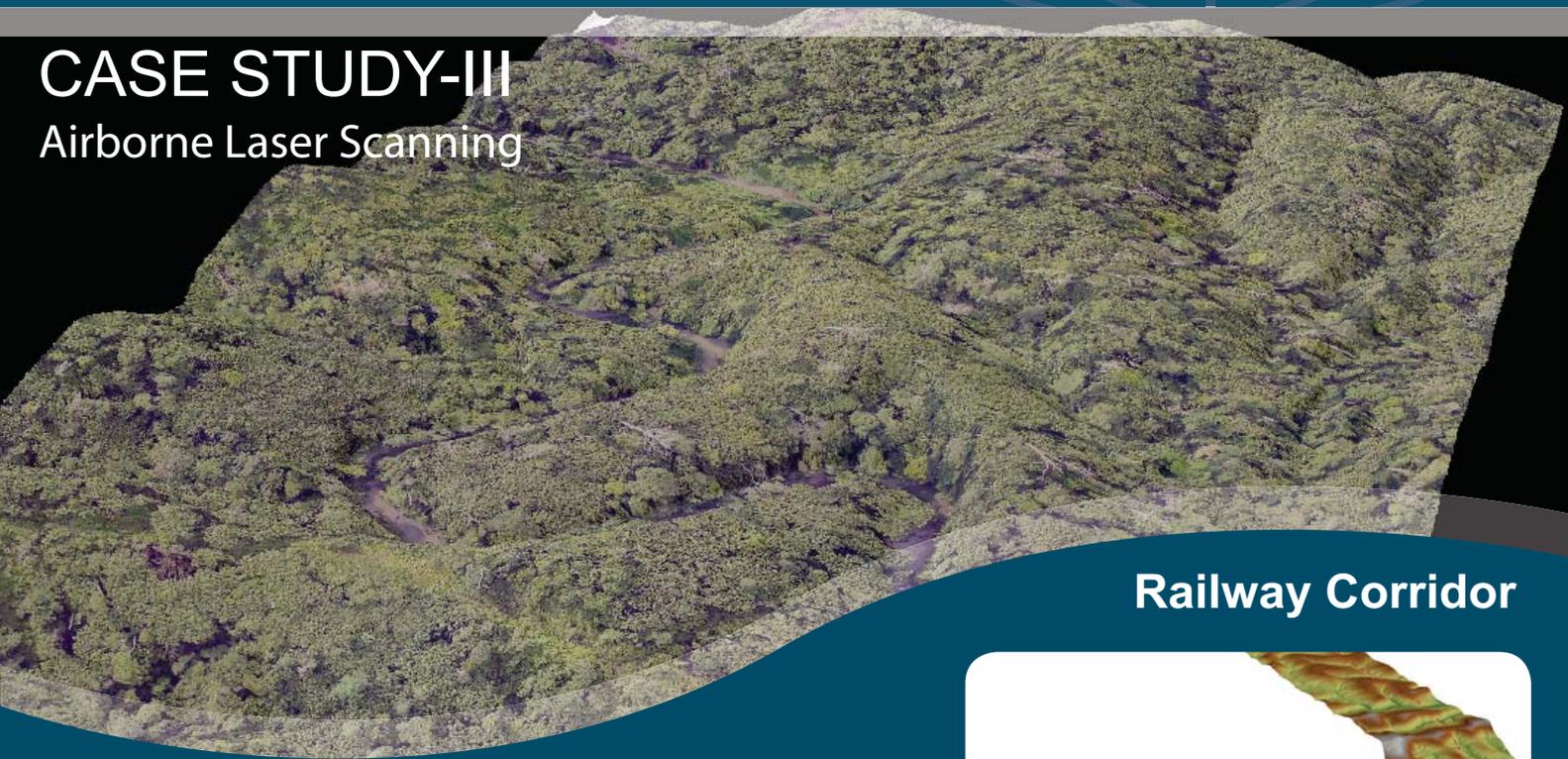




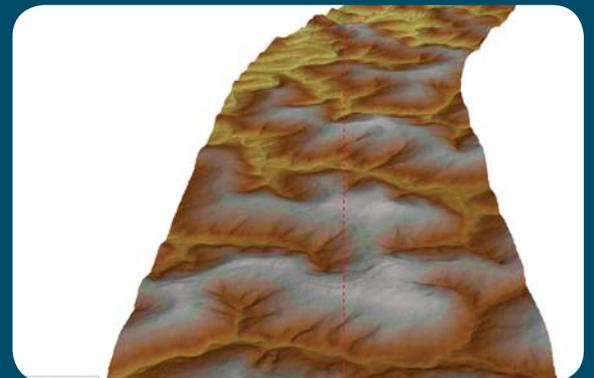
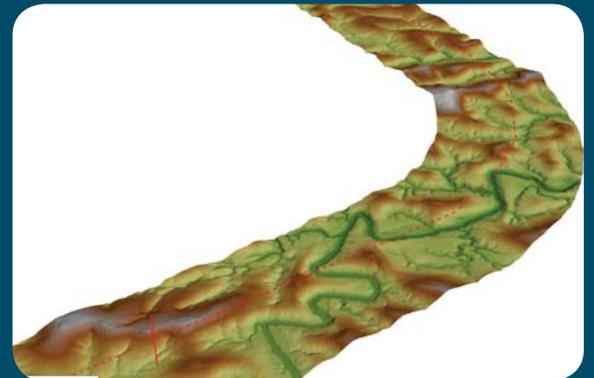
CASE STUDY-III

Airborne Laser Scanning



Railway Corridor

Client	: Confidential
Location	: East Kalimantan, Indonesia
Area	: 120km long, 2 km wide (process only 500m either side of alignment)
Data Collection	: 21 flying hours
Project Value	: Confidential
Data Delivery	: Priority areas within 4 weeks after completion of flying. Full data set completed within 8 weeks of data capture
Products Delivered	: ASCII XYZ ground points and 15 cm resolution Orthophotos
Data Used for	: Planning the alignment of a railway



Project Details : Surtech was approached by a client wishing to design a railway to transport coal from its mine site to a coal terminal by the coast. The proposed route ranged between mountainous lands to highly-vegetated to flat-agricultural areas. Using previous data, the client had preliminary alignment but required more detailed data to finalize the design. The ALS data provided the client with the following advantages:

- Minimum disturbance to local communities
- Readily available data from larger scope area than required for project
- Detailed ground data even under thick vegetation
- Identification of land use and existing rights-of-way, which allowed limited opposition of the project from the surrounding communities.