



# FINAL LINE ALIGNMENT & PROFILING

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The first stage of a linear project, whether road, rail, pipeline or otherwise, involves selecting corridor alternatives, which are typically a kilometer or two wide. Once these corridors have been selected, the project enters the design phase, at which time engineering level data is required. This is achieved using an airborne Lidar survey, with deliverables comprising a high accuracy (5cm to 20cm) elevation dataset and high resolution (10cm to 20cm) orthoimagery across the corridor. The best route within each corridor can then be selected in a combination of a desktop study and field verification.

Additionally, a hyperspectral survey adds value by providing a vegetation species layer, which is valuable for compensation, alien species mapping and environmental mapping (endangered species and baseline audits). Mineral mapping can also be undertaken for help with foundation planning.

## ABOUT SOUTHERN MAPPING

Southern Mapping provides LiDAR, Hyperspectral, Thermal surveys and mapping; as well as satellite imagery and associated product and GIS services for a variety of industries and sectors. These include civil engineering and infrastructure development, mineral exploration and mine management, environmental planning and rehabilitation, and urban and agricultural planning.

