



**GEOLOGICAL EXPLORATION SERVICES PTY LTD**  
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# PROPERTY MAPPING

## using data and maps in a GIS

A **geographic information system (GIS)** is a computer system designed to capture, store, manipulate, analyse, manage, and present all types of spatial or geographical data. A GIS of your farm has been created in order to produce the maps.

A GIS offers extra functionality such as unlimited attributes associated the data and recording data over time. Some examples of horticulture data (with attributes) is listed below:-

### Point Data

- Tree location (date planted, variety, elevation, height)
- Soil location (collection date, results)
- Monitoring (date, pest)

### Line Data

- Spraying (date, chemical, concentration)
- Harvesting (date, speed, yield)
- Fertilising (date, product, amount)
- Contours (elevation, slope, canopy height)

### Area Data

- Orchard Block (name, area, number trees, harvest round, yield, composite soil results)
- Soil maps
- Geology
- Cadastral data

### Gridded Data (from lidar)

- DEM
- Canopy height
- Slope

### Raster Data

- Aerial photography

If you are interested in developing a GIS of your farm, 2 options are available.

1) purchase your own GIS software. We can provide all the data that created the maps to load into your software package. A relatively low-cost and easy to use GIS software (compared with Mapinfo and ARC GIS) is [Global Mapper](#).

2) we can maintain the existing GIS of your farm and you can provide the data collection via your mobile device.