

# A more spatially accurate Vicmap Factsheet

The Vicmap spatial upgrade will provide an enhanced and more accurate digital representation of land related data

Vicmap is the state's authoritative suite of spatial data products which provides the foundation of all mapping. After more than 40 years of delivering value, Vicmap is being upgraded.

## Overview

In 2019, the Victorian Government invested \$45 million to bring the authoritative map of Victoria's property boundaries into the digital age. The 5-year [Digital Cadastre Modernisation project](#) will enhance the locational accuracy of Vicmap. When complete it will transform the legacy map of Victoria's property boundaries into a data-driven, spatially accurate, 3D digital representation of the cadastre.

[Vicmap Property](#) is the product for Victoria's cadastral map base. It was developed in the 1980s to ensure that parcels and spatial features were in their correct position relative to neighbouring parcels.

The positional accuracy of features within other Vicmap products will also be improved based on topology rules. These products include Vicmap Address, Vicmap Admin, Vicmap Crown Land Tenure, Vicmap Features of Interest, Vicmap Hydro, Vicmap Index and Vicmap Transport.

97% of the State's 3.3 million land parcels will be represented in a substantially more accurate position in Vicmap with respect to absolute positioning.

## Improvements to Vicmap

### Improved spatial accuracy

The position of parcel boundaries in Vicmap will be accurate up to 0.1m in metropolitan areas and 0.5m in rural and regional areas. The increased positional accuracy will be more evident in regional areas, where rural blocks may move by up to 25 metres. Other spatial accuracy improvements include:

- The replacement of the precision attribute in Vicmap Property with a mathematically calculated **horizontal positional uncertainty** (HORIZ\_POS\_UNCERTAINTY) providing more certainty of the spatial accuracy of the data. This attribute will replace a nominal value calculated from the scale of Vicmap spatial upgrade original data capture (i.e. 25 metres precision attributed to all data captured at 1:25,000 scale).
- Improved parcel representation positioning has been cascaded into other Vicmap feature types that rely upon parcel boundaries to define their location and extent. This includes administrative boundaries, properties, school complexes, airport areas, parks, sporting complexes, road casements and easements.

### Greater certainty

- Improved accuracy in property position provides greater certainty in attaching assets to the Vicmap data and provides confidence in asset management and decision making. Points (point table) are now provided in Vicmap Property in addition to lines and polygons.
- The spatial upgrade of Vicmap will provide more reliable and accurate data for business asset management to support decision making.



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- GPS-derived asset positions can be directly incorporated without adjustment to match the underlying Vicmap data.

## Other enhancements to Vicmap Products

- A digital database of survey parcel boundaries will provide the surveying community with a more efficient way to access survey data, an early auditing process for survey re-establishment and a visual indication of any areas that have associated survey disparities.
- Rectification of unknown parcel identifiers. Legacy issues in the data will be progressively resolved and will provide identifiers for previously unidentified parcels in Vicmap Property.
- Locating missing parcels and adding them into the mapbase. This is improving the overall parcel completeness and an improved record match with the Victorian On-line Title System (VOTS) database.
  - Many road parcels have also been identified and these will be incorporated. This will help local governments and other road managers comply with requirements of the Road Management Act.

- The survey registration date, where known, has been added to Vicmap Property for live parcels. This guides the application of spatial hierarchy for adjustment, with the more recent survey being applied a higher weighting for the process. This improves the spatial accuracy based on subdivisions that were captured with more modern technologies and capture regulations.

## How the new Vicmap will help users

- The improved parcel definition means Vicmap is more compatible with new and future spatial data technologies, allowing for more rapid data analysis. We are creating the 2D datasets that will also support the use of emerging 3D technologies.
- A maintenance and editing service is being developed so all new subdivisions will be adjusted, resulting in an ever-increasing improvement of the spatial accuracy of the localised area.

## Get in touch with us

For further help or information please email [vicmap@delwp.vic.gov.au](mailto:vicmap@delwp.vic.gov.au)

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