

ePLAN

Electronic plans of subdivision



ePlan Update

Victorian Implementation of ePlan

Implementation Progress

- From May 2013, ePlans have been able to be lodged in SPEAR replacing the PDF previously loaded by the surveyor
- SPEAR validates the ePlan data and creates a visualised PDF
- 6 surveying firms have submitted ePlans to SPEAR
 - Geometri, Absolute Surveying, Walpole Surveying, Berry & Whyte Surveyors, Digital Land Surveys and SMEC
- 30 ePlan submissions since May 2013
 - 10 have been registered

What Can Be Lodged Using ePlan?

- Most Subdivision Act application types currently supported by SPEAR can be lodged as ePlans
 - Section 22, 32, 32a, 35, 35(8) (*See SPEAR User Guide 1*)
 - Must be connected to MGA94 bearing datum - this also applies to non-survey and partial survey plans
 - Boundaries can be defined by buildings (footprint only)

ePlan Services within SPEAR

ePlan Services



ePlan services are provided as part of SPEAR. They can be accessed via:

- Logging into SPEAR
- Guest access from SPEAR Web Site
- Web service from surveying software packages

Visualisation Enhancements

Visualisation Enhancements

- SPEAR used Qld visualisation web service from 2012 until mid-2014
- Land Victoria now maintains and hosts the Victorian visualisation service from mid 2014
- Released the first version in November 2014, with the following enhancements:
 - Improved look and feel of the plan
 - Support for new technique of capturing easements
 - Support the new annotations for Crown Description

Scheduled Visualisation Enhancements for 2015

- Release 2 (April)
 - Support staged and compiled plans
 - Support new plan templates
- Release 3 (May)
 - Provision of a web service for software vendors
 - Improve labelling and arrowing

ePlan Scheduled Enhancements and Focus Areas

Scheduled ePlan Enhancements for 2015

- **SPEAR Release 4.1 (May)**
 - Supporting the submission of staged plans
 - Pre-population of data in application wizard using uploaded ePlan (e.g. applicant reference number, dealing type, plan number, application parcels and number of lots)
 - Providing software vendors with validation and visualisation web services
- **SPEAR Release 4.2 (October)**
 - Supporting plans under Section 23/24A/32B as well as text-only plans

ePlan Focus Areas in 2015 - 2016

- Visualisation (quality improvement)
- Extension of ePlans
 - TLA Plans, Boundary Plans, Crown Plans, 3D building format plans
- Complete Abstract of Field Records in ePlan
 - Sheet definition, exaggeration and enlargement
 - Consider full inclusion of its data in ePlan
- Auto-generation of Surveyor's Report
 - Can it be generated from ePlan if all data are captured in it?
- ePlan provision in LASSI-SPEAR
 - Allowing surveyors to download registered ePlans
- Enabling building subdivisions to be submitted as ePlans
 - e.g. with the base plan as an ePlan and the floor plans remaining as a surveyor-supplied PDF

Surveyors Engagement Program for 2015

- Contacting and visiting the surveyors already involved in the two Pilot Programs
- Finding and training surveyors interested in ePlan creation and submission
 - LISCAD surveyors
 - GeoCivil surveyors
 - AutoCAD Civil 3D surveyors
- The ePlan team is available to provide ongoing support.

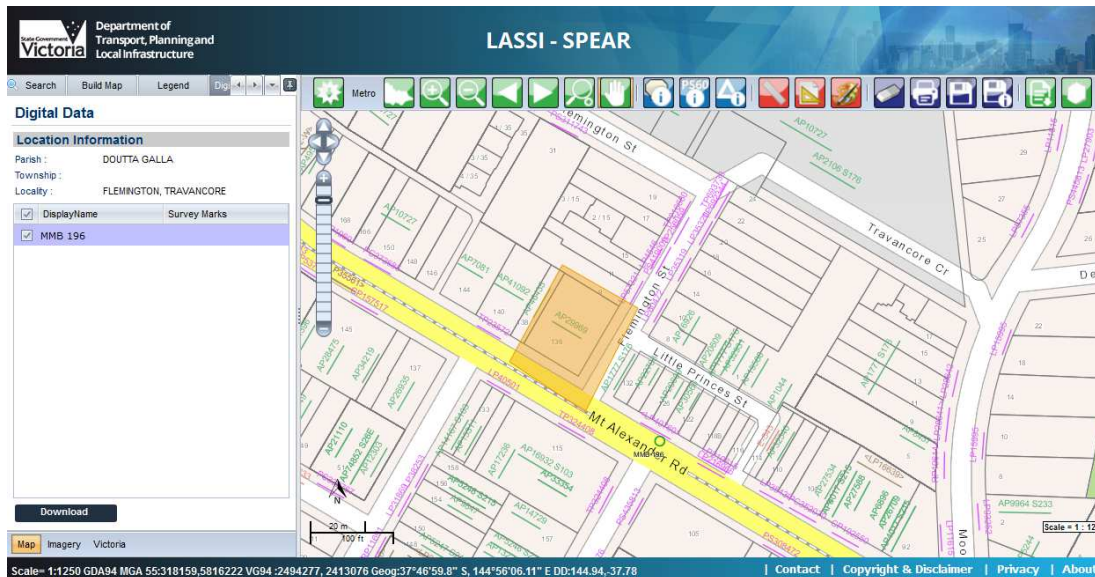
ePlan Benefits to the Surveying Industry

ePlan Benefits to the Surveying Industry

- Speeds up the application creation process in SPEAR
 - Once an ePlan is uploaded to application wizard, the following information will get pre-populated in the application screen (from May 2015):
 - applicant reference number
 - dealing type
 - plan number
 - application parcels, and
 - number of lots

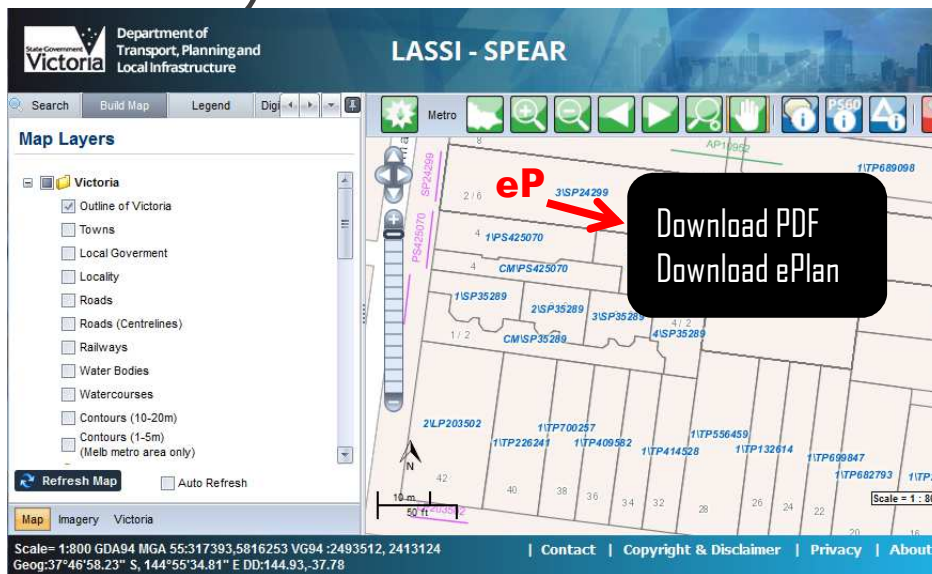
ePlan Benefits to the Surveying Industry

- Saves time for constructing the surveys through pre-populating administrative data from Vicmap and SMES (e.g. admin boundaries, survey marks, location addresses, road abutments, etc.)



ePlan Benefits to the Surveying Industry

- Provides access to / reuse of digital data for previous surveys through ePlan import functionality in surveying software packages
 - Download registered ePlan from LASSI-SPEAR (in 2016)



ePlan Benefits to the Surveying Industry

- Eliminates the 'drafting' step from the Plan of Subdivision creation process through the ePlan visualisation service
 - the new version of the visualiser is hosted and maintained by Land Victoria, which allows Land Victoria to respond to customer feedback and implement changes more quickly
 - the new plan templates will be supported from May 2015

ePlan Benefits to the Surveying Industry

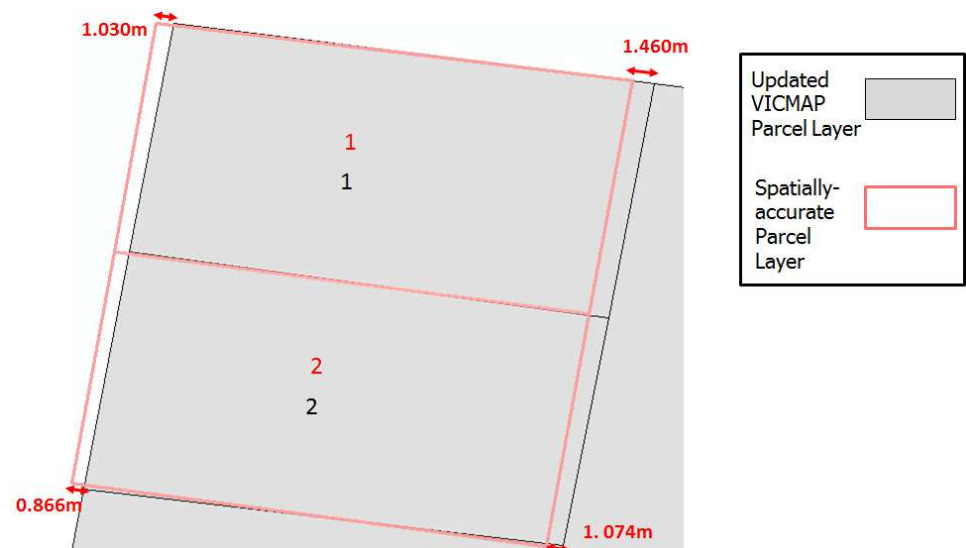
- Reduces lodgement errors due to missing or incorrect information as well as reducing the number of requisitions
 - 100 validation rules in place to check:
 - ePlan schema consistency
 - mathematical errors (parcel misclosure and area, easement width)
 - geometric errors (title boundary consistency, title connections, easement and restrictions fixing, overlapping parcels)
 - consistency of title SPI and vol/fol with VOTS
 - consistency of road names, admin areas and location addresses with VICMAP
 - consistency of PMs/PCMs with SMES
 - completeness and correctness of data (e.g. front sheet details and notations, easements, restrictions, abuttals, Owners Corporation, multipart parcels, surveyor's registration details, primary and secondary purpose combination)
 - application types requirements based on regulations (e.g. consolidation plans and partial survey plans)

ePlan Benefits to the Surveying Industry

- Assists with improved plan processing resulting in reduction in examination and registration times
 - Pre-lodgement validations (recommended by examiners)
 - Pre-population of VOTS screens
 - case creation screens
 - examination screens: range groups, Owners Corporation, examination report, fee quantity, etc.

ePlan Benefits to the Surveying Industry

- Enhances the quality of subdivision plan data
 - ePlan stores distances and bearings to millimetre and second
 - Visualiser performs rounding recommended by the regulations
- Gradually builds up a spatially-accurate mapbase for Victoria
 - ePlan stores a subset of field notes for adjustment purposes



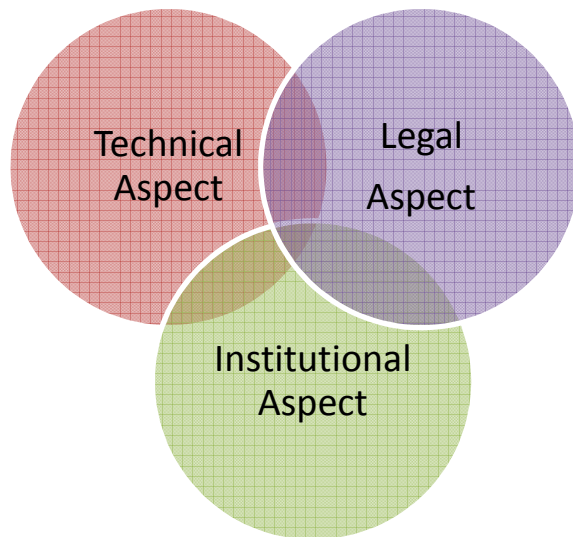
Victorian 3D Working Party

- Its objective is to investigate the introduction of 3D digital data and its implications for Victoria relevant to cadastre
- The 3D Working Party has been formed by Land Victoria, and it has representatives from:
 - the Association of Consulting Surveyors Victoria (ACSV)
 - the City of Melbourne
 - the University of Melbourne
 - RMIT University
 - SSSI
 - Land Victoria



3D Digital Cadastre Investigation

- Land Victoria 3D ePlan Prototype is under development.



Visualisation Examples