Digital Data Download
Visualisation
Spatial Analysis
ePLAN
Data Extraction & Population
Validation
Title Creation
Digital Examination
3D Digital Cadastre
DCDB Upgrade
Smart Data
LandXML

Agenda

- ePlan Engagement Program Update
- ePlan Implementation Progress
- Software Vendors Progress
- ePlan Services Update
- LASSI ePlan Enhancements
- SPEAR Release 4.5 & 4.6 ePlan Enhancements
- ePlan Future Workflow
- Back Capture Pilot Project Update

ePlan Engagement Program Update

- Aims:
  - ePlan team visiting surveying firms to gain a better understanding of their business workflows and requirements
  - Demonstrate to surveyors the ePlan workflows
  - Obtain feedback on the current and future development of the ePlan visualisation product and validation service

ePlan Engagement Program Update

- In the 1st round, workshops were held with:

- 2nd round of the Engagement Program - 18 EOI's received, so far workshops were held with:

- ePlan team provides a case study investigation from data provided by the respective firms
- 3rd round will commence in the second half of 2017

ePlan Implementation Progress

- SPEAR has been fully ePlan-enabled since May 2013
- ePlan supports all 2D Subdivision Act dealings
- Building boundaries and building returns are supported
- 83 ePlans submitted to SPEAR from 8 firms with 34 registered
- Since Jan 2016, on average one ePlan has been submitted to SPEAR every fortnight

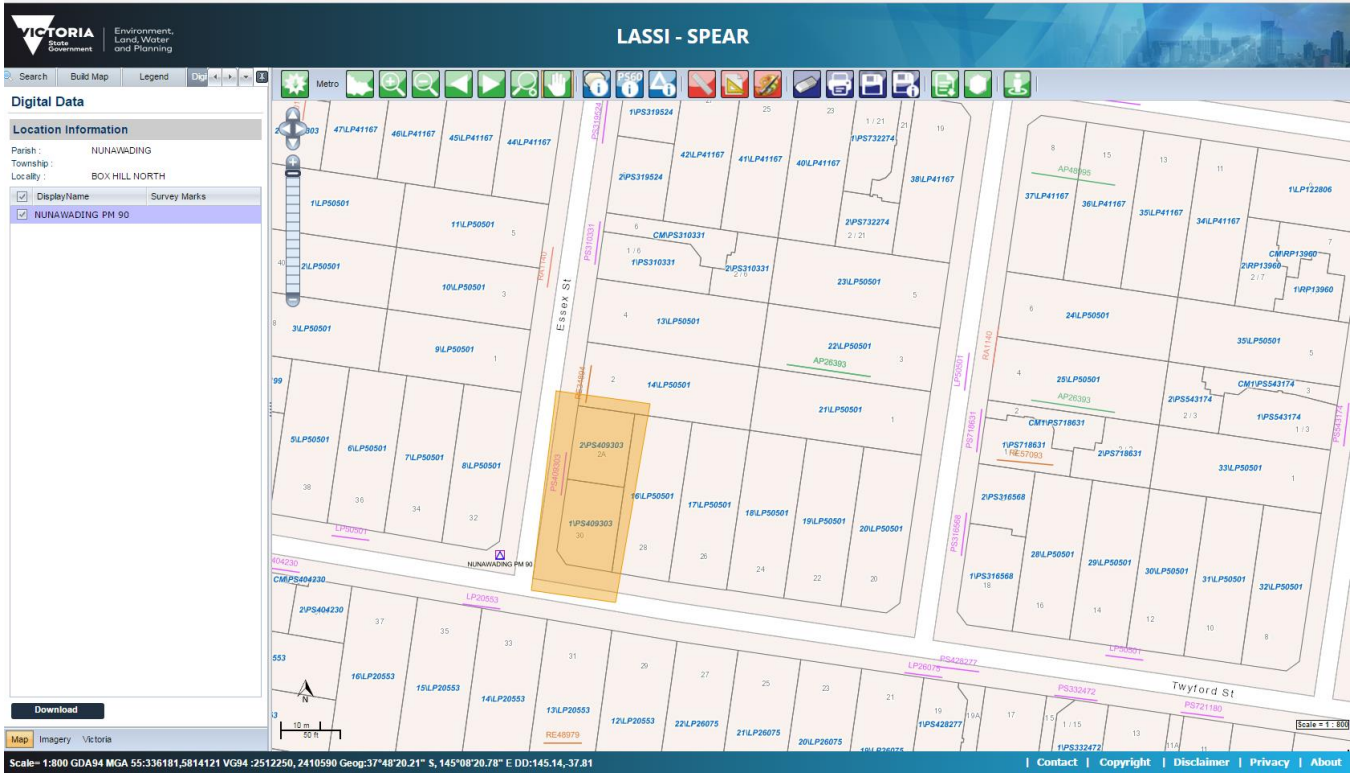
Software Vendors Progress

- At present, there are 3 fully functional ePlan-enabled surveying software packages:
  - **LISCAD**
  - **Stringer ePlan** (a module for AutoCAD Civil3D, AutoCAD, BricsCAD and Map3D)
  - **GeoCivil/ePSALON**

- New vendors:
  - 12d Solutions (**12d Model**)
  - Position Partners (**MAGNET Office/CivilCad**)

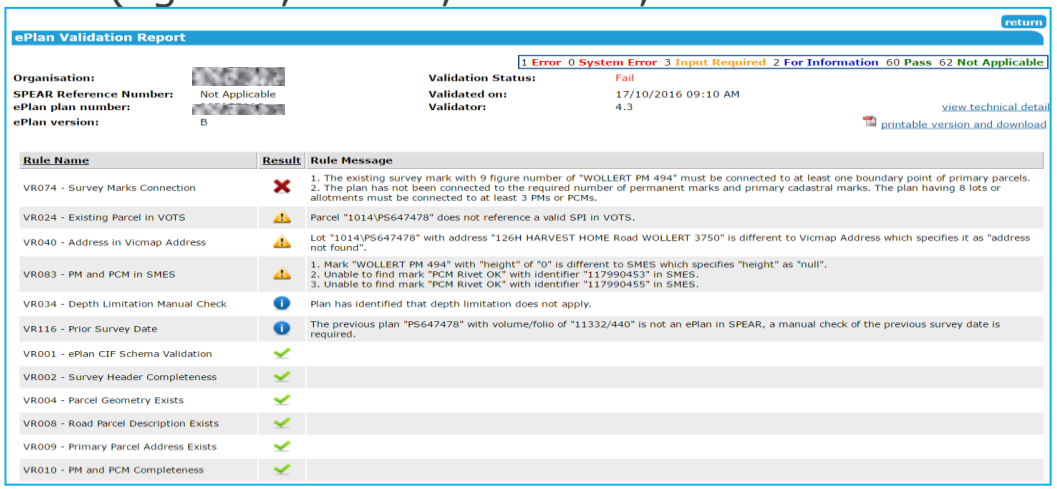
ePlan Services Update

- Data Download Service
  - Available in LASSI-SPEAR to download the existing information from map base and survey marks database



ePlan Services Update

- ePlan Validation Service
  - 130 Validation Rules in place to check the correctness and completeness of data
  - Rules recommended by plan examiners, such as checks for:
    - Easements attributes (eg purpose)
    - Parcel misclosure and area
    - Survey and Reference marks connection and attributes
    - Plan's administrative details (eg LGA, Parish, address, Crown description, Vol/Fol)
    - Title connection
    - Required annotations



return

ePlan Validation Report

1 Error 0 System Error 3 Input Required 2 For Information 60 Pass 62 Not Applicable

Organisation: [redacted]
SPEAR Reference Number: Not Applicable
ePlan plan number: [redacted]
ePlan version: B

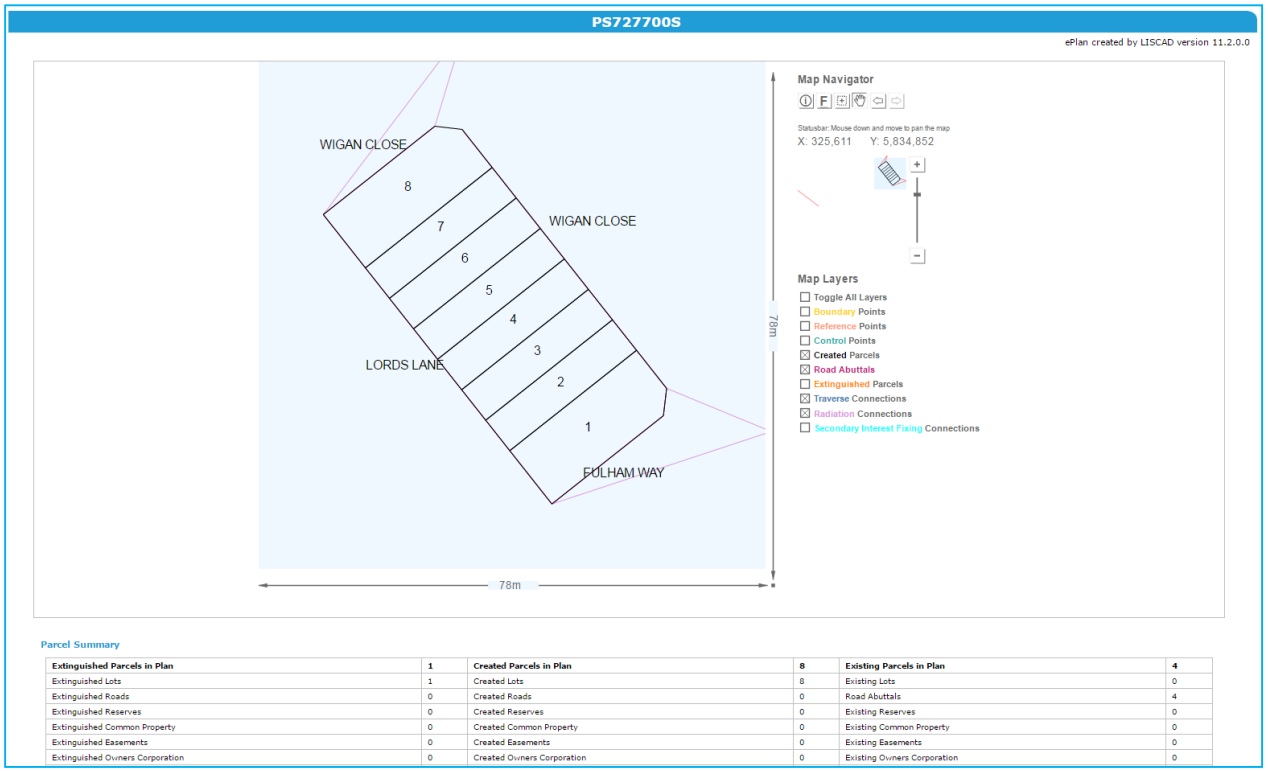
Validation Status: Fail
Validated on: 17/10/2016 09:10 AM
Validator: 4.3

view technical detail
printable version and download

Rule Name	Result	Rule Message
VR074 - Survey Marks Connection	✖	1. The existing survey mark with 9 figure number of "WOLLERT PM 494" must be connected to at least one boundary point of primary parcels. 2. The plan has not been connected to the required number of permanent marks and primary cadastral marks. The plan having 8 lots or allotments must be connected to at least 3 PMs or PCMs.
VR024 - Existing Parcel in VOTS	⚠	Parcel "1014\PS647478" does not reference a valid SPI in VOTS.
VR040 - Address in Vicmap Address	⚠	Lot "1014\PS647478" with address "126H HARVEST HOME Road WOLLERT 3750" is different to Vicmap Address which specifies it as "address not found".
VR083 - PM and PCM in SMES	⚠	1. Mark "WOLLERT PM 494" with "height" of "0" is different to SMES which specifies "height" as "null". 2. Unable to find mark "PCM Rivet OK" with identifier "117990453" in SMES. 3. Unable to find mark "PCM Rivet OK" with identifier "117990455" in SMES.
VR034 - Depth Limitation Manual Check	ℹ	Plan has identified that depth limitation does not apply.
VR116 - Prior Survey Date	ℹ	The previous plan "PS647478" with volume/folio of "11332/440" is not an ePlan in SPEAR, a manual check of the previous survey date is required.
VR001 - ePlan CIF Schema Validation	✓	
VR002 - Survey Header Completeness	✓	
VR004 - Parcel Geometry Exists	✓	
VR008 - Road Parcel Description Exists	✓	
VR009 - Primary Parcel Address Exists	✓	
VR010 - PM and PCM Completeness	✓	

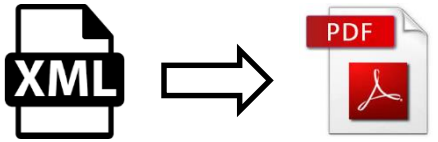
ePlan Services Update

- ePlan Data Viewer
  - A LandXML visualiser to assist surveyors and examiners in reviewing the content of data



ePlan Services Update

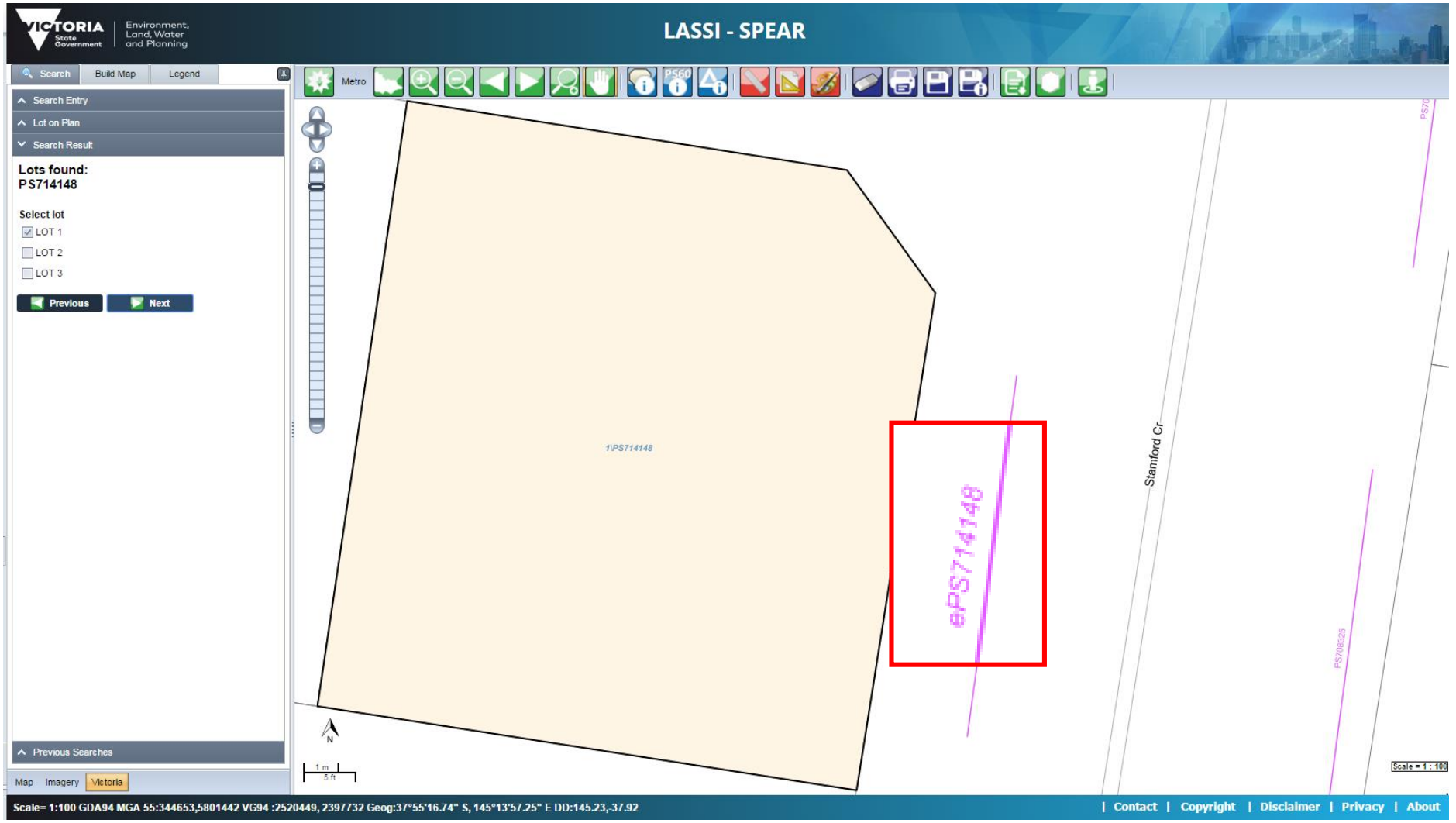
- ePlan Visualisation Service



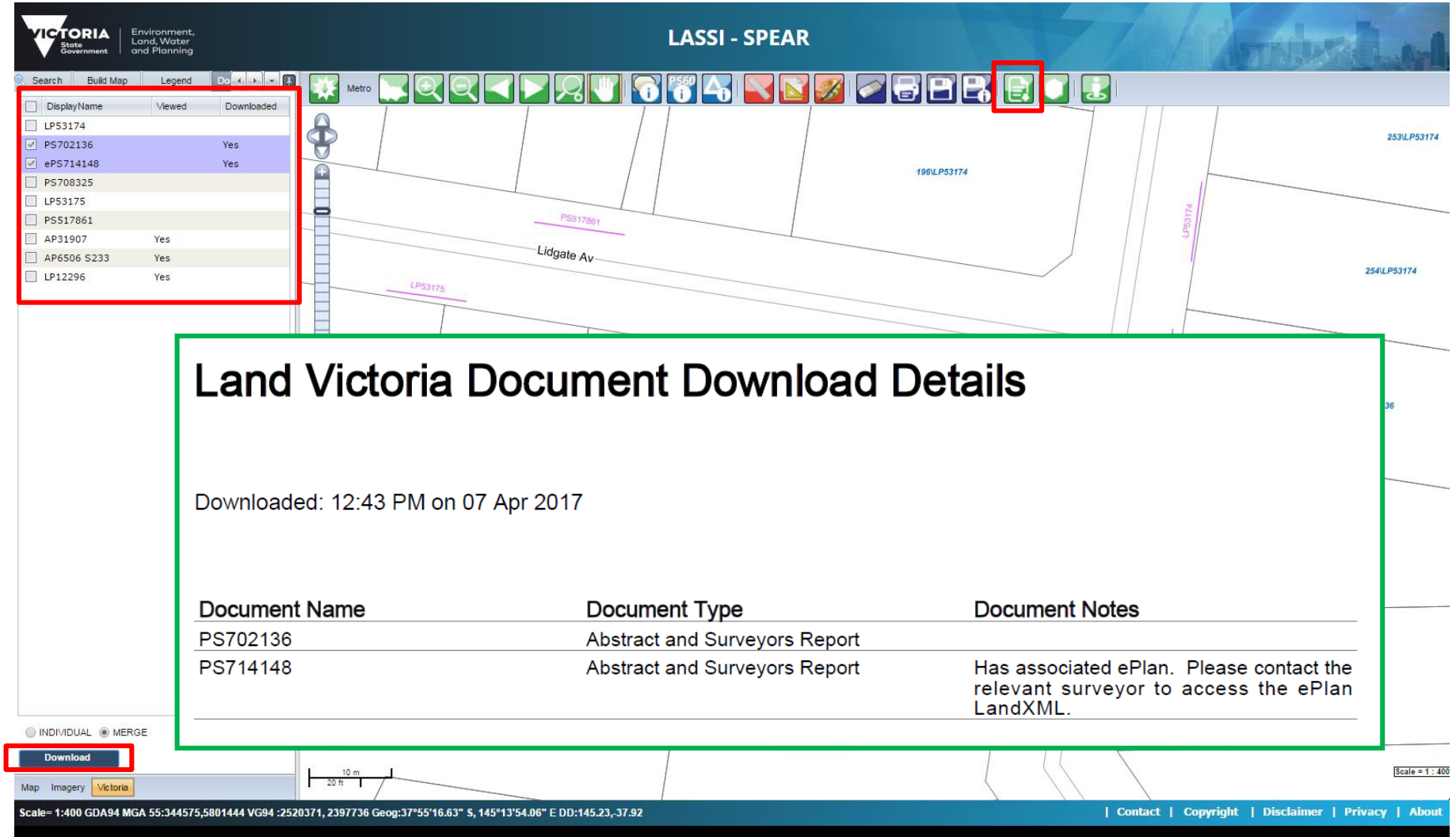
  - Enhancements have addressed:
    - Supporting further Dealing Types, e.g. boundary plans
    - Plan presentation
    - Text placement (Parcel ID’s, Areas, Road names, curve dimensions, etc.)
    - Arrow placement
    - Diagram orientation

LASSI ePlan Enhancements

ePlan Labels on Map Base



Document Download in LASSI-SPEAR

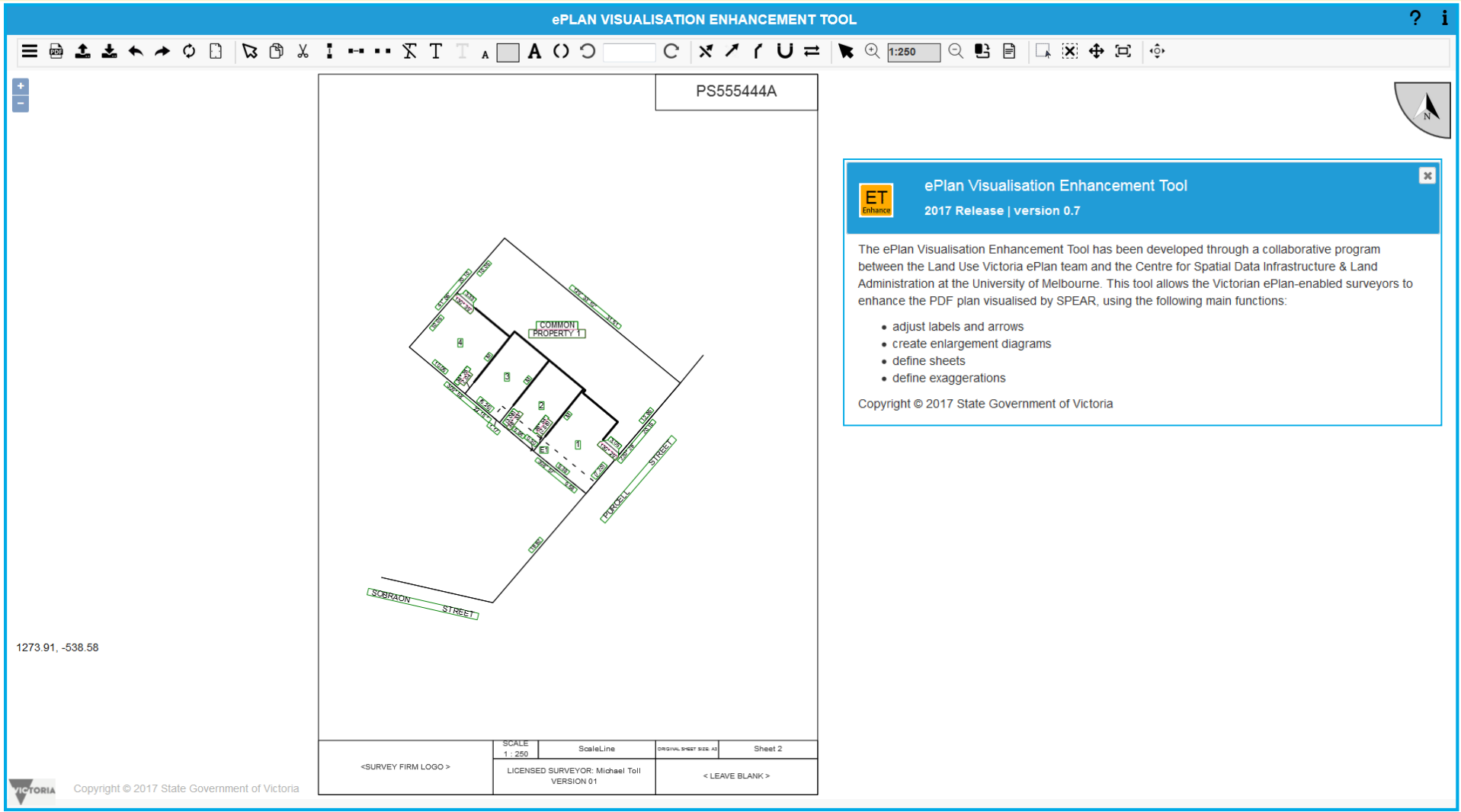


Release 4.5 ePlan Enhancements

Development of an ePlan Visualisation Enhancement Tool

- In collaboration with the University of Melbourne the ePlan team has developed a new tool for surveyors to:
  - adjust labels and arrows
  - create enlargement diagrams
  - define sheets
  - define exaggerations
- SPEAR will be able to retain the enhancements for the next version of ePlan
- The surveyors' feedback is welcome to improve the quality and functionality of this tool

ePlan Visualisation Enhancement Tool Demo



Support the Submission of Compiled ePlans in SPEAR

- The submission of the Stage Plan in ePlan format was already supported in SPEAR
- This enhancement enables the ePlan-enabled surveyors to submit a Compiled Plan in LandXML format for Section 37 Stage 2+, 32 and 35 dealings
- SPEAR provides a **Validation Report** and a **PDF Plan** visualised from Compiled ePlan LandXML file

Some Minor Enhancements

- Supporting the stripping of the Owners Corporation information from the visualised ePlan PDF on registration of the Dealing in VOTS

- Adding the registration and approvals data to the ePlan LandXML on registration prior to imaging of the Plan

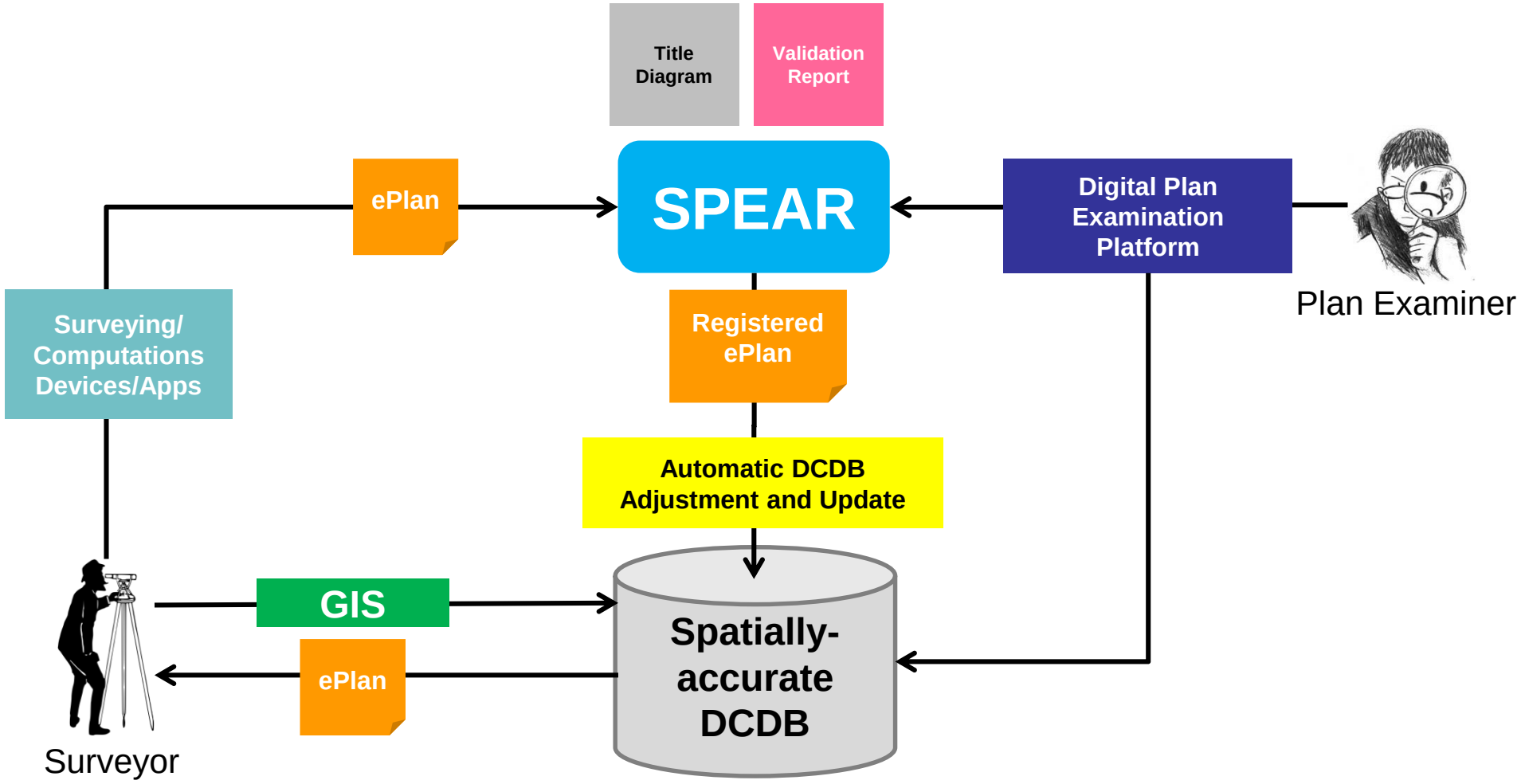
Release 4.6 ePlan Enhancements

Development of a Database to Store Registered ePlan Data

- Collaboration with the University of Melbourne to develop a database to store and manage registered ePlan LandXML files

- Other aims of this enhancement are:
  - Making queries and reports over ePlans
  - Data interaction with the State DCDB (VICMAP)
  - Incorporation with other GIS applications

ePlan – Future Workflow



Back Capture Pilot Project Update

- Land Use Victoria, through the Office of Surveyor-General (OSGV) and the Electronic Subdivisions Unit (ePlan), is coordinating a pilot project to determine the best approach to upgrade the spatial accuracy of Victoria's cadastral map base
- Pilot project investigations include:
  1. Back-capture of survey information from paper plans and CAD drawing files in ePlan LandXML format
  2. Suitable methodology for the establishment and maintenance of the cadastral map base via least squares adjustment of the back captured information
- The project is still underway with three areas selected - Chiltern, Whittlesea and North Melbourne