

Surveying Alert



Digital Data Capture Trial

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The Department of Natural Resources, Mines and Energy is determining a new environment for Queensland's land, property and addressing information. [Cadastral QLD Transformation](#) aims to deliver a secure, collaborative digital environment where users can easily access, improve and share accurate land, property and addressing information.

Preparing our data for the future and leveraging it now

As part of the program, the Department intends to capture data from selected paper survey plans and store the data in a repository for future access. This data can then be used as a foundation to create a Numeric Cadastre for the future digital environment, and to improve the spatial accuracy of the current upgraded graphical Digital Cadastral Database (DCDB) in the short-term.

Representation of the Cadastre – Levels of Maturity

Graphical Cadastre	A representation of the cadastre derived from digitised cadastral maps. The accuracy is directly related to the scale of the source maps. A <i>Graphical Cadastre</i> provides low absolute and low relative spatial accuracy.
Upgraded Graphical Cadastre	Introduction of survey control to improve the absolute spatial location of the <i>Graphical Cadastre</i> . An <i>Upgraded Graphical Cadastre</i> requires available connections between the control and the cadastre.
Numeric Cadastre	Introduction of the dimensions of individual lots from the survey plan. A <i>Numeric Cadastre</i> is characterised by improved absolute and relative spatial accuracy.

Extract: Peter Todd, Matt Higgins & George Williams. *Levels of Maturity for Survey Infrastructure*. 2000

We are also working with representatives from the surveying industry to determine how the digital information could be leveraged for surveying processes.

Digital Capture Operating Model

The Department has appointed an organisation to help define a digital capture operating model. The model will be based on what has already been trialled in New South Wales and Victoria, but modified to suit Queensland's needs and objectives.

LandXML will be the preferred digital format for transferring the data to the Department. It is the nationally agreed format for ePlan and is widely used in other jurisdictions, including New Zealand and Singapore.

Digital capture trial

The organisation working to define the operating model will conduct a trial of the capture process before 1 July 2018. This will involve capturing a small sample of paper survey plans. The plans have already been identified, and work to define the business and validation rules that will inform the quality assurance processes is well underway.

The trial will also identify opportunities for process improvement, which will help inform the operating model and any future multi-year digital capture program.

Industry contribution

We value the contribution from members of the [Surveying Focus Group](#) in developing this model and look forward to working with more surveying firms as we progress with the trial.

The creation of a Numeric Cadastre cannot be done in isolation. It requires the support and involvement of the surveying profession. A number of surveyors have expressed their interest in providing digital data files, 3D survey information, and assisting in increasing the density of the survey control network. We welcome the opportunity to collaborate on areas of interest to help shape the accuracy of the digital cadastre, and will provide

more information on how and where this may be required as we move past the trial.

For more information on this initiative, please visit the [Department's website](#). You can also contact your local Principal Surveyor or Spatial Information Officer or email cadastreql@dnrme.qld.gov.au.