



News from
12d Solutions



The Dirt Digger



Welcome

...to the **December 2016** issue of the **Dirt Digger**. Another action-packed issue!

This edition will feature:

- **Update: 12d Model 12 and 12d Synergy 3**
- **Three Waters Month**
- **12d International Conference 2016**
- **New 12d Training courses**
- **12d Innovation Awards 2016**
- **Case Study: NorthConnex**
- **Webinars**
- **Credit card facilities**
- **Holiday Season office closures**

We look forward to hearing any feedback or news you might have.

Regards,

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Update: 12d Model 12 & 12d Synergy 3

All users on maintenance are now eligible to download the Release version of **12d Model 12** from the 12d Model Forum.

12d Synergy 3

New functionality includes File Replication Servers (FRS) for multi office collaboration. Web Drops enable non-12d Synergy users to upload files via a web browser. New rule types enforce naming conventions on projects. Enhanced features for email management and issuing data (AKA document transmittals). Connectors allow automated data transfer with popular products such as Abtrac, MYOB, Xero, WorkFlow Max and Microsoft Dynamics. Data Sync for Surveyors and Contractors streamline transfer of Central Database Model data to tablets for work in the field.



Three Waters Month

October saw the launch of our Spotlight campaign. With [Three Waters](#) Month proving such a success, we'll be highlighting a different aspect of 12d products regularly...stay tuned for our Spotlight on 12d Synergy this coming February!

The idea behind this campaign is to draw together the many great resources we have available, into easy-to-find areas—we feel that a product suite as diverse as is offered by 12d warrants a 'guided tour' sometimes!

12d International Conference 2016 - Silver Jubilee Celebration

From humble beginnings in the Gregory household's basement, 12d Model has evolved over the last 25 years into the market leading product throughout Australasia, and we couldn't be prouder.

Our 2016 Conference highlighted this Silver Jubilee of the first release of 12d Model (then 4d Model), and it really went off with a bang!

It was again held at the Brisbane Convention Exhibition Centre - on Sunday 24th, Monday 25th and Tuesday 26th July, 2016.

Feedback has been overwhelmingly positive, with delegates declaring this our best Conference yet!

Comments from delegates' feedback surveys included:

I loved having the opportunity to see how others are using 12d Model on their various projects, [and the] opportunity to speak directly to developers.

It was great being brought up to date with the latest and best practices using the software.

I particularly enjoyed the previews of features in the new version.

Everyone was so open and helpful!

The best aspect was seeing the uses made of 12d to streamline user needs, and taking away ideas for improving [my] own systems/processes.

We've put together a fantastic [playlist](#) of some of the videos of talks from the Conference, and more videos are being added regularly! [Subscribe](#) to our 12d Model YouTube Channel to stay in the loop!



Presenting...12d's new training courses!

We've been working hard to give our training courses a complete overhaul, so they'll not only provide the most efficient way to package the multitude of information we can offer about 12d products, but also be consistent across all regions!

We're very excited to announce that the first of these new format courses will be held in January 2017! Public courses will be run across most capital cities in Australia and New Zealand.

In-house training for clients is also available to reduce travel costs and downtime. Our new courses are modular, so in-house courses can be customised for your specific requirements. Inquire about in-house training at your office today.

[Contact us](#) or see the [web page](#) for more information!

2016 12d Innovation Awards

Our 12d International Innovation Awards 2016 - the third such Awards we've held - was another great success, with many great entries.

Prizes were awarded at the Conference Dinner on 25th July; we loved the opportunity to show off what our innovative 12d users had been up to! This time we added a category for 12d Synergy, so there were even more opportunities to win!

Congratulations to all our winners, especially our two Overall Winners, David Mares of Lendlease Bouygues Joint Venture and Joshua Allison, Michael Bozikis and Arvind Chovatia of SMEC!



[Click here](#) to view a summary of the 2016 winning/Highly Commended entries (you can also click through to read some of the entries themselves!).

Building NorthConnex: Managing Australia's largest tunnelled motorway project

The NorthConnex project, to be completed in 2019, will deliver twin nine kilometre tunnels linking the M1 Pacific Motorway at Wahroonga to the Hills M2 Motorway at West Pennant Hills (in Sydney, NSW). Built by a joint venture between Lendlease Engineering and Bouygues Construction Australia (LLBJV), early work started in February 2015 and the first tunnelling work started in April 2016.

The scale of the NorthConnex project, and the densely-populated region in which it is situated, presented a number of unique challenges throughout design, surveying and construction. LLBJV found traditional data management tools had substantial gaps in functionality and flexibility that would limit the way data could be used and managed on the project. Selecting 12d Synergy allowed LLBJV the flexibility to streamline the collection, management and distribution of large volumes of data and efficiently manage their data through tailored workflows and, most importantly, robust file synchronisation.

Recognising the flexibility and adaptability of 12d Synergy, LLBJV successfully eliminated several issues they experienced with their initial third-party file synchronisation software. By customising 12d Synergy's 'Data Sync' tool to align more closely to its unique surveying workflows, LLBJV were able to automate data management and avoid the conflicts that tend to arise when large data sets are being used simultaneously by many users across a range of sites. By doing so, the project was able to ensure the integrity of files and data being collected and distributed. They also gained the ability to synchronise folders of files (rather than just single items) and provide project managers with powerful access and version control capabilities that delivered detailed insight into all activities being undertaken.

Furthermore, survey managers were able to control the dissemination of updated data from the Central Data Model (CDM) across the project. End-users were relieved of the need to perform manual updates or constantly chase the latest data, instead being automatically notified when updates to the CDM were available. Centralising the update of the CDM also reduced network traffic, eliminated duplicated downloads and allowed surveyors to focus on more critical parts of their role. The survey managers created specific synchronisation tasks within 12d Synergy, assigning them to particular



contacts or team roles, and linking the updated CDM data to the task. As users completed the download tasks, the manager was able to track the progress of distributing the data across their team.

These capabilities have proven particularly significant due to the sheer number of surveyors required throughout the duration of the NorthConnex project. The surveyors, from a wide range of backgrounds, had a high variation in skill level, survey coding standards, file and model naming conventions, data management procedures, and plotting and reporting methods. 12d Synergy provided an innovative and effective way of turning a

diverse surveying workforce into a cohesive team ensuring consistently high-quality and time-efficient output by all.

By integrating 12d Synergy as the key component for data management within their CDM, LLBJV were able to safeguard the data being used and generated during each phase of the project. Previously disparate processes were streamlined, boosting the productivity of its surveyors and the [NorthConnex](#) project as a whole.

Webinars

2016 saw the launch of two very successful webinar series - Industry Solutions and Training. Both have been very popular, as evidenced by attendance and YouTube views.

Industry Solutions Webinars provide insights into overcoming challenges in an evolving industry in more effective and efficient ways. These sessions are shorter and less technical than the Training sessions, and are suitable for managers and non-users of 12d products.

12d Training Webinars are more in-depth, each focussing on training users in a specific topic. They showcase common industry challenges and take a close look at industry best practices and how these can be implemented using 12d Model Software. The aim of these webinars is to upskill 12d Model users and broaden their understanding of the capabilities of 12d Model.

Got an idea for a future webinar topic, or want to be involved/demonstrate a case study? [Contact us](#) today with your ideas!

View the 12d Training Webinars playlist [here](#).

View the Industry Solutions Webinars playlist [here](#).

Credit card facilities

Most of our customers are using Direct Deposit for invoice payments but we also accept credit card payments, especially for smaller amounts such as 12d Conference registrations and Training Courses.

This is just a reminder that we can now accept credit card payments for Visa, Mastercard and Amex for a nominal surcharge.

We will be adding the facility to www.12d.com but before then, please contact us if you'd like to use your credit card.

Holiday Season Office Closures - Sydney

Our Sydney Head Offices of 12d will close for the holidays at lunch time on Friday 23rd December 2016 and re-open the morning of Monday 9th January 2017. The Support lines will re-open from Tuesday 3rd January.

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OTHER REGIONS

12d Solutions

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Welcome Aboard to our New Licences and Upgrades from...

- 360 Surveying – NSW
 3D Engineering Surveys – Qld
 AAM Group – NSW
 Acor Assets – NSW
 Acor Consultants – NSW
 Adamson Shaw – NZ
 Adelaide Civil Design – SA
 Advanced Civil Solutions – Qld
 AECOM – NSW, Qld, WA; China
 Aerodrome Management Services – WA
 AF Engineering – WA
 Afflux Consulting – Vic
 AJC Surveys – Qld
 Alexander and Symonds – SA
 Alliance Surveying – WA
 Allroads – Qld
 APH Contracting – WA
 Aquascapes Australia – Qld
 Arcadis – NSW, Qld; Philippines
 Arup – NSW, Qld
 AT & L – NSW
 Ausenco – Qld
 Auspat Australia – NSW
 Australian Consulting Engineers – NSW
 Ayson & Partners – NZ
 Banana Shire Council – Qld
 Barwon Water – Vic
 BC Survey – Qld
 Beca – NZ
 Bennett + Bennett – Qld
 Bert Kroon & Associates Consulting Engineers – NZ
 Beveridge Williams – Vic
 BG & E Consulting Engineers – Qld, NSW, WA
 BGC Contracting – WA
 Birch Surveyors – NZ
 Blacktown City Council – NSW
 Bligh Tanner – Qld
 BMD Group – Qld
 Bouygues Construction Australia – NSW
 Brazier and Motti – Qld
 Breese Pitt Dixon – Vic
 Brookfield Rail – WA
 Burchills Engineering Solutions – Qld
 Byrne Consultants – Qld
 Byrne Surveyors – Qld
 CADS Survey – WA
 Calculated Surveys – SA
 Calibre – NSW, Qld, WA; NZ
 Callaghan and Toth – Qld
 Candor3 – NZ
 Cardno – NSW, Qld, Vic, WA; NZ
 Catherine Santos – Vic
 Cato Bolam Consultants – NZ
 CDAM Survey – Qld
 Central Surveys – NZ
 Charter Keck Cramer – Vic
 City of Busselton – WA
 City of Gold Coast – Qld
 City of Port Adelaide Enfield – SA
 City of Ryde – NSW
 Civil Edge Contracting – WA
 Civil Perspective – Qld
 Civil and Water Design – Qld
 CivilPlan Consultants – NZ
 CKL Surveys – NZ
 Clarence Valley Council – NSW
 Cogswell Surveys – NZ
 Complete Urban – NSW
 Construction Surveys – Qld
 CPB – NSW, NZ
 CR Hutchison & Co.
 Craig and Rhodes – NSW
 Crescendo Corporation Berhad – Malaysia
 Cuttriss Consultants – NZ
 Cyient – India
 D & M Consulting – NSW
 D-CEM Co. – Thailand
 Dalton Consulting Engineers – Vic
 Daracon Group – NSW
 David Cook Design – NZ
 Dempsey Wood – NZ
 Department of Natural Resources and Mines – Qld
 Department of Primary Industries – Lands – NSW
 Department of Transport and Main Roads – Qld
 Detail Survey – ACT
 Development Solutions – Vic
 Dickson Enterprises – Qld
 Dimension Surveyors – NZ
 DMC QLD Enterprises – Qld
 Downer EDi Works – NZ
 DSC Group – NSW
 DPTI – SA
 Dungog Shire Council – NSW
 Eagle Surveys – Qld
 Eliot Sinclair & Partners – NZ
 Elite Survey – NSW, Qld
 Empire Surveys – Qld
 Engineering and Mining Surveys – Qld
 Engineering Studio – NSW
 Engineering Subdivision Solutions – NZ
 Engineering Surveys – SA
 Engenuity – WA
 Ergon Energy – Qld
 Ertech – WA
 ESO Surveyors – NSW
 EWFW Consulting Engineers – NSW
 Farr Engineers Associates – Qld
 Ferroval York JV – NSW
 FJA Consulting Engineers – NSW
 Flat Out Surveying – Vic
 Focus Survey Group – Qld
 Fulton Hogan Group – NSW, SA
 Fyfe Pty Ltd – NSW, Qld
 GCA – NSW
 GD Survey – NSW
 GenEng Solutions – Qld
 GEO Image Services – NSW
 Geo-Metric Surveying – NSW, Qld
 GeoSync – NZ
 GHD – WA
 GJCM Surveys – Qld
 GM-CCS – Qld
 Graham Surveying – NZ
 Greenhaven Projects – Qld
 Gundagai Council – NSW
 Halls Frupp Surveying – Qld
 Harrison Grierson – NZ
 Harrison Infrastructure Group – Qld
 Hornsby Shire Council – NSW
 Incitus – Vic
 J. Wyndham Prince – NSW
 JAC Civil – Qld
 JAC Surveyors – Vic
 Jacobs Group – NSW, Qld, SA, Vic, WA; NZ
 Jem Design (Australia) – NSW
 Jones Nicholson – NSW
 JR Land Development – NZ
 Judge Surveys – NSW
 Juta Consulting – NZ
 K & K Blanchard Engineering Surveys – Qld
 K F Engineering – Vic
 Kellogg Brown and Root – Qld, WA
 Kevin Lodge Engineering – WA
 Keystone Survey – NSW
 Kimbriki Resource Recovery Centre – NSW
 King and Campbell – NSW
 Kirk Roberts Consulting Engineers – NZ
 KLM Spatial – Vic
 Koppens Developments – Qld
 Kramer Ausenco (Pacific) – Qld
 Kumpulan Liziz – Malaysia
 Laing O'Rourke – WA
 Land Design – NSW
 Land Surveying Dynamics – Qld
 Land Surveys No Problems Just Solutions – Qld, WA
 LandLink – NZ
 Landmark Surveys – NSW
 LandPartners – Qld
 Lands and Survey – NZ
 Legacy Engineers – Qld
 Lend Lease Bouygues JV NCX LLBJV – NSW
 Lend Lease Engineering – NSW, Qld, Vic
 Lim Surveyors – NZ
 Linders Meten & Peilen BV – Netherlands
 Lindsay Dynan – NSW
 Liverpool City Council – NSW
 Livingstone Shire Council – Qld
 Locaters – NSW
 London Underground – UK
 Lustot – NSW
 Lycopodium Engineering – WA
 Lynton Surveys – NSW
 Lysaght Consultants – NZ
 Mackay Regional Council – Qld
 McConnell Dowell – Qld; NZ
 Macmahon Contractors – WA
 McFarlane Geomatics – NSW
 McMullen Nolan Group – WA
 McMurtrie Consulting Engineers – Qld
 Marshman and Fields – Qld
 Martens & Associates – NSW
 MAS Construction Services – UK
 Matt Monk – NSW
 MCM Design and Management – Vic
 Megex Civil – NSW
 Millar Merrigan – Vic
 MinStaff Survey – Qld
 MLEI Consulting Engineers – SA
 Mortons Urban Solutions – Qld
 Mott MacDonald – NSW
 Mouchel Australia – NSW
 Murray Hislop Surveyors – NZ
 MVR Surveys – Vic
 Nelson Surveys – SA
 Nexus Surveys – WA
 North Western Surveys – NSW
 Northrop Engineers – NSW
 O2UDP – Qld
 Opus – Qld; NZ
 Origin Engineering Surveyors – Qld
 Ostwald Bros – Qld
 Owen Roberts Surveying – Qld
 Pacific Survey – NSW
 Palmer Bruyn Surveys – NSW
 Paroissien Grant & Associates – Vic
 Parsons Brinckerhoff – NSW, Qld, Vic
 Paterson Pitts Partners – NZ
 PB Survey Solutions – NZ
 peakURBAN – Qld
 Peritas Civil – WA
 Pinnacle Engineering Group – Qld
 Pitt and Sherry – Vic
 PLC Consulting – Vic
 Polban Jurusan Teknik Civil – Indonesia
 Pritchard Francis – WA
 Procvil Consulting – Vic
 Proteus EPCM Engineers – WA
 PT Excelcomindo Pratama – Indonesia
 PT Macmahon Mining Services – Indonesia
 PT Pama Persada Nusantara – Indonesia
 PT Sri Rahayu Agung – Indonesia
 Pulver Cooper and Blackley – NSW
 Quality Roading and Services (Wairoa) – NZ
 Queensland Rail – Qld
 Reeds Consulting – Vic
 Resolute Project Services – WA
 Reyburn and Bryant – NZ
 Riley Consultants – NZ
 Rio Tinto – WA
 Roads and Maritime Services – NSW
 Robert Friend Surveys – NSW
 Rose Atkins Rimmer – NSW
 RPC – NZ
 RPS – NSW, Qld
 RTN Drafting Services – Vic
 RTS Civil Consulting Engineers – Qld
 Ruby Developments – Qld
 Samana Blue Engineering – Qld
 Sayoung Enterprises – Qld
 SCS Engineering Surveyors – NSW
 Shadforths Civil Contractors – Qld
 SMEC – NSW, Qld, Vic
 Solid Energy NZ – NZ
 Spatial Technologies – NSW
 Spiire – Vic
 SportEng – Vic
 Stakeout – NZ
 Subterra Subsurface Locating – WA
 Sunshine Coast Council – Qld
 Sunstate Engineering Surveys – Qld
 Sure Search – NSW
 Survey Dynamics – WA
 Survey Dynamics Group – Qld
 Survey Insight – NZ
 Survey Planz – NZ
 SurveyOne – NZ
 Surveyors @ Work – Qld
 SurveyPro – Work – NZ
 Taylors – Vic
 TGM Group – Vic
 The Surveying Company – NZ
 Tipec – Qld
 Tomlinson and Carruthers Surveyors – NZ
 Tonkin and Taylor Group – NZ
 Tonkin Consulting – SA
 Tony Rose Surveying – NSW
 Toowoomba Regional Council – Qld
 Total Construction Surveyors – NZ
 Traffic Design Group – NZ
 Triaxial Consulting – SA
 Trinity Engineering & Consulting – Qld
 Triple Star Management – NZ
 Turnbull Engineering – NSW
 Underground Services Australia – WA
 Urban Civil – Vic
 VEKTA – NSW
 Vision Surveys – Qld
 VKL Consulting – Qld
 Volker Stevin – UK
 VT Consulting Engineers – Qld
 Wainui Environmental – NZ
 Wallbridge and Gilbert – SA
 Warren Smith & Partners – NSW
 Watsons – Vic
 West Coast Engineering – WA
 Wood and Grieve – WA
 Wood & Partners – NZ
 Woodside Energy – WA
 WorleyParsons – Qld, WA; India
 WRM Water and Environment – Qld
 WW Surveys – Qld
 Wyong Shire Council – NSW
 Xcel Surveying – WA
 Yass Valley Council – NSW
 York Civil – SA

And from little acorns,
 great trees grow -
 'Welcome Aboard' to our
 new 12d Synergy
 licences and upgrades
 from...

AECOM – NSW
 Ayson & Partners – NZ
 Access Land Surveyors – NZ
 Aurecon – NSW, Qld
 Bennett + Bennett – Qld
 CPB CIMIC – ACT; NZ
 Dalton Consulting Engineers – Vic
 GM-CCS – Qld
 Horizon Survey – WA
 J. Wyndham Prince – NSW
 Jacobs – Australia-wide
 Lend Lease Bouygues JV – NSW
 McKenzie & Co. Consultants – NZ
 Milton Services – SA
 Pitt and Sherry – Australia-wide
 Todd Property – NZ
 VFT – NSW

