

# Welcome

...to the December 2016 issue of the Dirt Digger. Another actionpacked 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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Mr Alan Gray **Technical Director** alan.gray@12d.com

# 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.

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 of 12d different aspect 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.















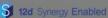












I particularly enjoyed the previews of features in the new version.

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 training new 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













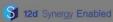














contacts or team roles, and linking the updated CDM data to the task. As users completed the download tasks, the manager was able to track the progress of distributing the data across their team.

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 <a href="here">here</a>.

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.

# Sales, Support & Training

#### **AUSTRALIA**

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Extra Dimension Solutions

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## FIJI

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lukemine@connect.com.fj

Ph. +679 337 0858 (Sales)

### **OTHER REGIONS**

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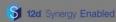












# Welcome Aboard to our New Licences and Upgrades from...

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 – 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 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 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
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 Dickson Enterprises – Qld Dimension Surveyors – NZ DMC QLD Enterprises – Qld Downer EDi Works – NZ DSC Group – NSW DPTI – SA 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 Ertech – WÄ
ESO Surveyors – NSW
EWFW Consulting Engineers – NSW
Farr Engineers Associates – Qld
Ferrovial York JV – NSW
FJA Consulting Engineers – NSW
FJAt Out Surveying — Vic
Focus Survey Group – Qld
Fulton Hogan Group – NSW, SA
Fyfe Pty Ltd – NSW, Qld
GCA – NSW
GD Survey – NSW GD Survey – NSW GenEng Solutions – Qld GEO Image Services – NSW 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 Fripp Surveyina – Old Halls Fripp Surveying – Qld Harrison Grierson – NZ Harrison Infrastructure Group – Qld 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, Jem Design (Australia) – NSW Jones Nicholson – NSW Julies Nicholson – NSV 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 -KLM Spatial – Vic Kenypens 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, 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 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 North Western Surveys – NSW
Northrop Engineers – NSW
02UDP – 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 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 Procivil 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) \_ NŹ Queensland Rail - Qld 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 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 Spaire – Vic SportEng – Vic Stakeout – NZ Subtera Subsurface Locating – WA Sunshine Coast Council – Qld Sunsnine Coast Council – Qia Sunstate Engineering Surveys – Qid Sure Search – NSW Survey Dynamics – WA Survey Dynamics Group – Qid Survey Insight – NZ SurveyOne – NZ SurveyOne – NZ Surveyors @ Work – Qld SurveyPro – NZ Taylors – Vic TGM Group – Vic The Surveying Company – NZ Tipec – Qld Tomlinson and Carruthers Surveyors – Tonkin and Taylor Group – NZ Tonkin Consulting – SA Tony Rose Surveying – NSW Toowoomba Regional Council – Qld Total Construction Surveyors – NZ 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 VIEKTA – 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 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...

AFCOM - NSW Ayson & Partners – NZ Áccess 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























