



News from
12d Solutions



The Dirt Digger



Welcome

...to another action-packed issue of the **Dirt Digger**—featuring:

- **12d International Innovation Awards 2020**
- **Product Updates**
- **12d View**
- **Innovative Solutions in Indonesia**
- **12d International Technical Forum 2020**

We look forward to hearing any [feedback](#) or news you might have.

Regards,

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Mr Alan Gray
Technical Director
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12d Synergy and Continuous Development

12d Synergy was born eight years ago after the 2011 Christchurch Earthquakes devastated the city. Starting as little more than a command line source control system for 12d Model, 12d Synergy has evolved into a fully-fledged data and document management solution.

User feedback is vital to the 12d Synergy team and is the most important driving force behind its development. As such, we have introduced patch releases which allow us to respond faster to feature requests and bug fixes without users having to wait for major versions.

Introducing 12d Synergy 4.2

12d Synergy 4.2 is the first patch release of Version 4 and introduces a set of new features and quality of life updates requested by you. 4.2 also includes a number of optimisations and improvements under the hood.

The exciting new features in 4.2 include:

- Download Dependencies
- Image Gallery
- File Watcher
- File Version Merging



12d Synergy

Upgrading to 4.2

All 12d Synergy users have access to the new patch releases, and they're cross-compatible with all Version 4 clients and servers, making upgrading simple! 12d Synergy 4.2 can be downloaded from the [12d Synergy website](#). Read more about 12d Synergy's new 4.2 features in our blog series.

12d International Innovation Awards 2020

The 12d Innovation Awards are on again!

There'll be categories, with a new twist: **BIM & Visualisation, Design, Water, Surveying & Construction, Customisation, 'Banishing the Drafting Demon', and 12d Synergy.**

And of course a giant prize pool worth \$17K!

The Business Categories will be: **Small Company, Medium Company, Large Company, and Government.**

Stay tuned for full details!

12d Model 14 and continuous development

As you probably already know, 12d Model 14 C1a was released late last year, and all users on maintenance are eligible to upgrade.

However, you may not be aware that after a 12d Model version is first released, the development continues and further sub-versions released (C2c, C2d, etc.) which not only contain bug fixes but also new functionality as well.

For example, 12d Model C2d was recently released and included new features such as:

Support for Laurenson Hydrology, reading and writing string attributes to CSV files, Longitude and latitude in Attribute manipulator, exploding drafting leaders, more \$variables and CSV drawing register in MPS, creating masonry block walls, more drag and drops, extra macro calls.

12d Model C2d and future sub versions are first posted on the [12d Model User Forum](#), and then on our [web site](#).



12d View

12d View is a free program that allows non-12d Model customers to view 12d Model projects and aggregate other industry data in a single 3D platform. 12d View is great for engineers, staff onsite who want to view civil data in 3D or anyone who doesn't have access to a full 12d Model licence and wants to view 3D data.

12d View opens most 12d Model projects and the 12d Model Inquiry options and Plan, Section and Perspective views are all available to examine the 3D data.

New data can also be read in from 12da and 12dXML files, ifc files, ADAC XML files, DWG, DXF and DXB, and Genio files, even if there is no existing 12d Model project.

12d View uses an existing 12d Model nodes file, or can be registered for a particular computer and client name, or even run unregistered.

12d View is free to all users – simply download the program from our [website](#).

Innovative Solutions in Indonesia

Some of you may be aware that 12d Solutions often lends software to groups doing charity and not-for-profit work. One such user is Shane Elson, a Bundaberg man, who is working in Kalimantan as the Director of Innovative Solutions Indonesia.



Shane recently updated us...

Because an extensive survey was unavailable for this project in Martapura, South Kalimantan, Shane and his team were unable to do full 2D drainage modelling but they were able to import the existing local survey into 12d Model and produce a solid 1D drainage model using ILSAX2 and some included basins.

To do the drainage properly data for the existing road was required but given the lack of existing road profile, Shane designed a new road at a very similar height to the current road, so pit levels were close to existing levels.

In the end, the design was approximately 4km of road and 6km of drainage network including pipes,

open channels, basins, etc.

It is safe to say that the city (and most likely, in fact, the state) has never seen a detailed design like this before. Shane's team used this project for education, and to open the locals' minds to what is possible.



Shane also commented that he is now "much more thankful for the access to high quality surveyors I had in Australia. A good survey is foundational to a good design!"

Shane also 'stretched himself' and learned to use the Visualisation module through the 12d Model YouTube channel, to the extent that he could give the government a sense of what this infrastructure could look like if it were built to a standard.

The government now wants Shane's team to finish the design of the road and build it as well, but there are potential issues with local business owners that could make this next stage difficult due to illegal building in the road reserve.

Of their use of 12d Model on this project, Shane told us, "We are using 12d Model to catalyse vision and change for the people. As always there is some resistance but the government is very keen and already talking about buying a licence of their own. We are also talking with the largest university in the state about implementing 12d Model there."

Shane says it looks as though 2019 will bring even more opportunities to develop standards using 12d Model, with another drainage study needing to be done. His team's hope is to be able to do 2D drainage models, but it will again come down to survey. They are looking into a drone that can perform local LiDAR, and are talking to the local government about the possibility of doing this.

Shane's local business partner absolutely loves using 12d Model, and will be trained more comprehensively in it this year along with other local employees. To add to his credibility, Shane just received his Indonesian engineering accreditation at the highest level, to go with his CPEng, RPEQ and FIEAust.

This is such an exciting partnership, and both Shane's team and the team at 12d Solutions look forward to its continuation.

12d Technical Forum 2020—get in before it sells out!

It's hard to believe we're almost at the 'one year to go' countdown already! Because our 2018 event sold out, we've moved 2020 to a substantially larger space within the Brisbane Convention and Exhibition Centre—we'll be upstairs on the Plaza Level!

At this 3-day event, 12d Solutions will be highlighting new features in 12d Model 15 and 12d Synergy 5, as well as providing a plethora of tips for working with the current versions! We will, of course, continue the ever-popular 'Birds of a Feather' breakout sessions on Design, Surveying, Three Waters, & 12d Synergy.



This event will be an invaluable learning and networking experience for users of 12d products and other industry professionals, in all areas of civil design, surveying and construction, and data management and project collaboration.

More information [here](#) on what is set to be our biggest event yet!

The 12d International Technical Forum offers:

- A great opportunity to increase your 12d Model/12d Synergy skills
- The ability to interact with the developers of 12d products
- The chance to network with, and learn from, other 12d users

Pricing

The Full Conference Package for \$850 +GST (Early Bird pricing—get in quickly because the price goes up to \$950 + GST from 15th May 2020!) includes:

- Welcome Event (Add Guest for \$95 +GST)
- Conference Dinner* (Add Guest for \$200 +GST)
- 3 Full Days of Conference Main Sessions
- Conference 'Birds of a Feather' Sessions
- Morning/Afternoon Tea Breaks and Lunches
- 12d Polo Shirt and Other Goodies!

*Includes 12d International Innovation Awards 2020 Ceremony

Registrations are already rolling in—book your place [here](#)!

Day passes also available—[contact](#) us for details. Please note we can now accept credit card payments online for this event.

Dates Sunday 2nd, Monday 3rd and Tuesday 4th August 2020

Venue Brisbane Convention and Exhibition Centre (BCEC) – Plaza Level (please note new location—upstairs from Boulevard, in the bigger space!)

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OTHER REGIONS

12d Solutions

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

12d Model

2 Develop Urban – Qld
 Aaron Hick – Qld
 Ace Contractors Group – Vic
 Acor Group Services – NSW
 Active Survey – NZ
 Adamson Shaw – NZ
 ADG Engineers (Aust) – Qld
 Advanced Surveys Australia – Qld
 AECOM – NSW, Qld, WA
 Aerialsmiths – NZ
 Affinity Surveys – NSW
 Agustin Consulting – Vic
 Alexander and Symonds – SA
 All Terrain Surveys – Qld
 Alliance Surveying – WA
 Allspec & Partners – NSW
 Alta Projects – Qld
 ALTURA Spatial – NSW
 Amey – Vic
 Andrew Ackerman – WA
 Anthony Marshall – WA
 AR & Associates – NZ
 Arcadis – Qld, WA
 Arkhill Engineers – NSW
 Arup – NSW, Qld
 AT & L – NSW
 ATC Williams – Qld
 Auckland Land Surveys – NZ
 Auspat Land Survey Australia – NSW
 Axiom Spatial – NSW
 Ballina Shire Council – NSW
 Barry Hunt Associates – NSW
 BCE Surveying – NSW
 BCS Consulting Engineers – Vic
 Beca – NZ
 Benchmark Surveys – WA
 Bennett + Bennett – Qld
 Beveridge Williams – Vic
 BG & E – Qld, WA
 BG Group NT – NT
 BGC Asphalt – WA
 Birzulis Associates – NSW
 Blacktop Consulting Engineers – WA
 Bloxam Burnett and Oliver – NZ
 Blue Barn Consulting – NZ
 BM Engineering Surveys – WA
 Bonacci Group – Vic
 Bonisch Surveys – NZ
 Breede Valley Surveys – NSW
 Brefni Group – NSW
 Brewer Surveying Services – WA
 Brisbane City Council – Qld
 Brown Design and Engineering – Vic
 Buckton Consulting Surveyors – NZ
 Bundaberg Regional Council – Qld
 Burchills Engineering Solutions – Qld
 Cadence Consulting Surveyors – NSW
 Cairns City Council (Design) – Qld
 Calder Surveying – NZ
 Calibre – NSW, WA
 Cameron Gibson Wells – NZ
 Capital Consulting Engineers – NSW
 Cardno – NSW, Qld, NZ
 Cato Bolam Consultants – NZ
 Central Coast Council – NSW
 Central District Surveys – NZ
 Cessnock City Council – NSW
 Cheal Consultants – NZ
 Chester – NZ
 Chris Smith & Associates – Vic
 City of Charles Sturt – SA
 City of Gold Coast – Qld
 Civil Design Services – NSW
 Civil Engineering Assignments – UK
 CivilPlan Consultants – NZ
 CivilTEC – NZ
 Civix – NZ
 CMS Surveyors – NSW
 Cogswell Surveys – NZ
 Coleman Rail/Lendlease Engineering – Vic
 Conson Consulting – NT
 Construction Survey – NZ
 CPB Contractors – NSW, Qld, Vic, NZ
 Creo Consultants – Vic
 CTI Surveying – Qld
 Cuttriss Consultants – NZ
 D & C Civil – Qld
 DA Surveying – NSW
 Dalton Consulting Engineers – Vic
 Dana ECPM – NSW
 Daracon Group – NSW
 Degotardi Smith & Partners – NSW
 Dept of Primary Industries (Lands) – NSW
 Dept of Transport & Main Roads – Qld
 DHC Consulting – NZ
 Dormway – Qld
 Dougherty Surveys – NSW
 Doval Constructions – Qld
 Downer Group – NSW, NZ
 Downer Utilities Australia – Qld
 Downes Group – Qld
 Drafting Solutions Australia – WA
 Drive Consulting – Qld
 Durkin Construction – NSW
 E2Designlab – Qld

EDMP – WA
 Element IMF – NZ
 Elite Survey – NSW
 Empire Engineering – Qld
 Engeny – Qld, Vic
 Engineering Surveys – SA
 Engineering Testing Services – Qld
 Enspire Solutions – NSW
 Environment Location Systems – Vic
 ESO Surveyors – NSW
 Farrelly Construction Services – NSW
 Fatuvalu Surveyor – Fiji
 Ferroval York JV – NSW
 Fiji Roads Authority – Fiji
 Flat Out Surveying – Vic
 FORM Engineers – Vic
 Formation Civil – Qld
 Fortescue Metals Group – WA
 Fraser Thomas – NZ
 Fulton Hogan Group – NSW, Qld, SA
 Fyfe – Qld
 Gandy & Roberts – Tas
 Gassman Development Perspectives – Qld
 GC Surveyors – NSW
 GDC Consultants – NZ
 GenEng Solutions – Qld
 Geodezja Survey and Spatial – NSW
 Geosurv – NSW
 Gertzel – Vic
 GM-CCS – Qld
 GMS Surveys – NSW
 Good Earth Matters Consulting – NZ
 Green Lagoon Technology – Malaysia
 Green Square Consulting – Qld
 Greenfield Technical Services – WA
 Greenhill Engineers – SA
 Ground Developments – UK
 Grounds and Services – NZ
 Haigh Workman – NZ
 Halis Fripp Surveying – Qld
 Haro Designs – Qld
 Harrison Grierson – NZ
 Harrison Infrastructure Group – Qld
 Hatch – Qld
 Hawkesbury City Council – NSW
 HDR – Qld
 Henry and Hymas – NSW
 Hollier Greig – NZ
 Housing Authority – Fiji
 Hughes & Associates – NZ
 i Consulting – Qld
 IDC Group – NZ
 Infrastructure and Civil Surveys – NSW
 Inovo Projects – NZ
 Insight Survey – Qld
 InsitesJC – Qld
 Integral Surveys – NSW
 Ipswich City Council – Qld
 J. Wyndham Prince – NSW
 J Swap Contractors – NZ
 JAC Surveyors – Vic
 Jacobs Group – NSW, Qld, Vic, WA
 Jeremy Benn Pacific – Qld
 JJ Barber Holdings – NZ
 John Holland – NSW, Qld, Vic
 Joshua Lynch – Qld
 Jurovich Surveying – WA
 Jurukur T&T – Malaysia
 KA Civil Design – NZ
 Kapitol Group – Vic
 Kellogg Brown and Root – Qld
 Kier Australia – NSW
 KiwiRail – NZ
 Klohn Crippen Berger – Qld
 KR Surveys – WA
 Land Dynamics Australia – NSW
 Land Surveys No Problems Just Solutions – NSW, Qld, Vic, WA
 LandLink – NZ
 Lands and Survey – NZ
 LD Eng – Vic
 Lee Civil – Qld
 Leigh Surveyors – Qld
 Leith Consulting – NZ
 Lend Lease – NSW, Qld, Vic
 Lend Lease Engineering Acciona Coleman Rail JV – Vic
 Lend Lease Samsung Bouygues JV – NSW
 Lindsay Dyan – NSW
 Linke and Linke – NSW
 Locaters – NSW
 LOM Engineering – WA
 Lonergan Surveying – ACT
 Lycopodium Minerals – WA
 Lynton Surveys – NSW
 Lysaght Consultants – NZ
 McCracken Survey – NZ
 McFlynn Surveying – NZ
 McKenzie & Co. Consultants – NZ
 MacroVentures – NZ
 Mark Paterson – Qld
 Matt Monk – NSW
 Meinhardt Urban – Qld
 Megawide Construction DMCC – India
 Michael Bale & Associates – Qld
 Mine Earth – WA
 MinStaff Survey – Qld

Misura – NZ
 MK Surveying – NZ
 MLEI Consulting Engineers – SA
 Moreton Bay Regional Council – Qld
 Mott MacDonald – NSW, Vic
 Motus Consulting – Qld
 MPF Surveying – NSW
 Murphy Surveys – Ireland
 Muswellbrook Shire Council – NSW
 MVR Surveys – SA
 Nacap – Vic
 NCTIR Alliance – NZ
 Neilly Group – Qld
 Nexus Surveys – WA
 Northern Hills Drafting – Qld
 Northrop Engineers – NSW, Qld
 NorthSurf – NZ
 NorthTec – NZ
 Onsite Surveying – NSW
 Onyx Projects – WA
 Orange City Council – NSW
 Orion Consulting Engineers – NSW
 Orion Spatial Solutions – Qld
 Orogen – NZ
 Owen Consulting – Qld
 Pacific Survey – NSW
 PanAust – Qld
 Paterson Pitts Partners – NZ
 Paul Jacuba – Qld
 peakURBAN – Qld
 Pilbrow Surveying – NZ
 Pipeline Construction Services – NSW
 Pitt and Sherry (Operations) – Vic
 PLANIT Engineering – NSW
 Precise Positioning Solutions – Qld
 Precise Spatial Services – NSW
 Premise Group Services – Qld
 Procivil Consulting – Vic
 PT Batutua Tembaga Raya – Indonesia
 PT Bayan Resources TBK – Indonesia
 PT Kideco Jaya Agung – Indonesia
 PT Padang Karunia – Indonesia
 PT Pama Persada Nusantara – Indonesia
 Queensland Rail – Qld
 R2 Consulting – NZ
 Rafiki Surveys – NSW
 Rapid Earthworks – NZ
 Rapid Surveys – WA
 Reeds Consulting – Vic
 Regional Management Group – Vic
 Rennie Gollidge – NSW
 Results Based Surveying – NSW
 Reyburn and Bryant – NZ
 RGH Consulting Group – NSW
 Rhelm – NSW
 Rider Levett Bucknall – Qld
 Rio Tinto – WA
 RMA Consulting Engineers – Qld
 Road and Civil Surveys – NSW
 Road Construction Surveys – Vic
 Roads and Maritime Services – NSW
 RPS (Gold Coast) – Qld
 Salini Impregilo (NRW JV) – WA
 Sasan Safari – Vic
 SCP Consulting – NSW
 Seymour Whyte – Qld
 Shadforth's Civil – Qld
 Shawmac – WA
 Shire of Campaspe – Vic
 Shire of Toodyay – WA
 Sim Prall Engineering Surveys – WA
 Sino Iron – WA
 Sirius Consolidated – NSW
 SKL Group – Qld
 SMEC – NSW, Qld, Vic
 Southern Land – NZ
 Spiire – Vic
 Spvye Surveying Solutions – NSW
 Staig and Smith – NZ
 Startec – NZ
 Steven Chambers – Qld
 Stewart Group – NZ
 Stewart Surveying – NZ
 STP Consultants – Qld
 Summit Survey – NZ
 Suncoast Civil Design – Qld
 Sunshine Coast Council – Qld
 Survey Dynamics – WA
 Survey Group – WA
 Survey Insight – NZ
 Survey Waitaki – NZ
 Survey Work – NZ
 Surveyors @ Work – Qld
 Synergy Positioning Systems – Qld
 TABEC – WA
 Taggart Earthmoving – NZ
 Taylor Miller Consulting – Vic
 Technical Spatial – Qld
 Terra Consultants – NZ
 Terrafec Engineering Consultants – India
 Tetra Tech Proteus – WA
 TGM Group – Vic
 The Surveying Company – NZ
 Thomas Consultants – NZ
 Thornley & Associates – NZ
 Tipec – Qld
 TL Survey Services – NZ

TMK Consulting Engineers – SA
 Tomkinson Group – Vic
 Tomkinson and Carruthers Surveyors – NZ
 Tonkin and Taylor Group – NZ
 Tonkin Consulting – NSW, Qld
 Town of Port Hedland – WA
 TR Baillie Consulting Surveyors – Qld
 Tripp Andrews Surveyors – NZ
 TSS Total Surveying Solutions – NSW
 Turnbull Engineering – NSW
 UBCIVILS – UK
 UDY Contracting – NZ
 University of NSW (Canberra) – ACT
 University of Newcastle – NSW
 Urban Circus – Qld, Vic
 Urban Design and Management – Vic
 Utec Solutions – NSW
 Veris Australia – NSW, Qld, Vic, WA
 Verve Projects – Vic
 VFT Engineering Surveyors – NSW
 Vision Surveys – Qld
 Vitruvius – NZ
 Wairoa District Council – NZ
 Watson Civil Surveys – Qld
 Wave International – WA
 WBHO Infrastructure – NSW, Vic
 Western Earthmoving – NSW
 Whitsunday Regional Council – Qld
 WMG Engineering Surveyors – NSW
 Wolter Consulting – Qld
 Wood & Partners – NZ
 Wood Group PSN Australia – Vic
 WorleyParsons – Qld, WA
 WRM Water and Environment – Qld
 WSP – NSW, Qld, NZ
 WW Surveys – Qld
 Wyndham City Council – Vic
 Zenviron – NSW

12d Synergy

AECOM – Australia
 Arcadis – NSW
 Ayson & Partners – NSW
 Bloxam Burnett and Oliver – NZ
 Bennett + Bennett – Qld
 Bereza Civil Surveys – ACT
 BG&E Cardno JV – Qld
 Blue Barn Consulting Engineers – NZ
 BMD Group – Qld
 Buckton Consultants – NZ
 Byrne Consultants – Qld
 Cameron Gibson and Wells – NZ
 Cardno – Qld
 Cato Bolam Consultants – NZ
 Cheal – NZ
 CKL – NZ
 Cogswell Surveys – NZ
 Cook Costello – NZ
 CPB Contractors – Qld
 DA Surveying – NSW
 Dalton Consulting Engineers – Vic
 Daly Smith – NSW
 Darby Partners – NZ
 Dempsey Wood Civil – NZ
 Eliot Sinclair & Partners – NZ
 Engineering Solutions – Qld
 Fraser Thomas – NZ
 Fulton Hogan – NSW
 GHD – Australia
 Habitat Planning – Vic
 Harrison Grierson – NZ
 Harrison Infrastructure Group – Qld
 HDR – Qld
 i Consulting – Qld
 John Holland – NSW
 Land Development Engineering – Vic
 Land Surveys – Australia
 Landlink – NZ
 Landmark Surveys – ACT
 MC Data Prep and Survey – Vic
 McCaffrey Engineering Consultants – NZ
 McKay Knarston – NZ
 McKenzie & Co. Consultants – NZ
 MinStaff Survey – Qld
 Ngati Tuwharetoa Geothermal Assets – NZ
 Orogen – NZ
 Paterson Pitts Group – NZ
 Pirihahi Project – NZ
 Premise – Qld
 Premise Group Services - Australia
 RCS Group – NSW
 Rider Levett Bucknall – Qld
 RPC – NZ
 SMEC – Australia
 Southern Land – NZ
 SportEng – Vic
 Surveying Services - NZ
 Terraco – Vic
 Terramark – NZ
 Tonkin and Taylor – NZ
 Turnbull Engineering – NSW
 Verve Projects – Vic
 Woods – NZ
 WSP – Australia

