12d® Tech Forum 2021

Event Agenda

Online Event
19 – 21 October 2021

Theme: Beating the Project Clock

12d Tech Forum 2021 — Day 1 Schedule

Time (AEDT)	Mainstage	Speaker/s	Design	Speaker/s	Survey	Speaker/s	Water	Speaker/s	Data Management	Speaker/s	Training	Speaker/s	Time (AEDT)
	Free with the Industry Pass						A paid Training Pass is required for these streams						
9:00 am	Welcome to the 12d Tech Forum 2021	Lee Gregory & Joel Gregory											9:00 am
9:10 am	CEO Keynote: 12d Synergy	Joel Gregory											9:10 am
9:30 am	12d Model Keynote	Lee Gregory											9:30 am
10:00 am											I've Installed 12dM... What Now?	Steve Kostakis	10:00 am
10:10 am	12d Synergy Product Update	Richard Stoliar											10:10 am
10:30 am	Slaying Dragons with 12d Model 15	Lee Gregory											10:30 am
10:40 am											Snaps in 12d Model	Ben Crawford	10:40 am
10:50 am	Keynote: Piritahi Case Study	Mat Tucker, Ryan Healey, Iain Billington, Kane Willcox (Piritahi)											10:50 am
11:00 am											Basic Trimeshes	Ben Crawford	11:00 am
11:10 am											Live Q&A	Steve Kostakis & Ben Crawford	11:10 am
11:20 am													11:20 am
11:30 am	An Overview of the 12d Model 15 Themes	Dylan Revell									Getting Started with Super Alignments	Steve Kostakis	11:30 am
11:40 am													11:40 am
11:50 am	12d Model Federated Project Process	Allan Walker (SMEC)											11:50 am
12:00 pm			A Detailed Investigation into the Design Theme	Dylan Revell	A Detailed Investigation into the Survey & 12d Field Themes	Dylan Revell	A Detailed Investigation into the Water Theme	Dylan Revell	12d Synergy Web & Mobile Edition	Richard Stoliar	Element Method for Super Alignment Design	Cameron Lowe	12:00 pm
12:10 pm	Cadastral CAD MPS	Lane Irwin	New Super Alignment Tool	Hanh Cao	V15 12d Field Overview	Graham Wirth	Enhancing Water Setups for Easier BIM Integration with Polymeshes	Dylan Revell					12:10 pm
12:20 pm			New Pavement Manager	Peter Taynton					Data Collaboration in a Civil Alliance	Ryan Healy (Piritahi)			12:20 pm
12:30 pm							Creating Catchments from Design Strings	Owen Thornton					12:30 pm
12:40 pm											Live Q&A	Steve Kostakis & Cameron Lowe	12:40 pm
12:50 pm	GDA 2020 Overview	Lee Gregory	Live Q&A	Hanh Cao & Peter Taynton	12d Field V15 New Functions & Workflows	Stuart Holloway (Alliance Surveying)	Live Q&A	Dylan Revell & Owen Thornton					12:50 pm
01:00 pm									Hosting 12d Synergy in the Cloud	Iain Billington (Piritahi)	Design Fundamentals	Rod Burns	01:00 pm
01:10 pm	Taking A Leap: Adopting GDA2020 at Mackay Regional Council	Megan Dillion & Luke Cimpa (Mackay Regional Council)	Make Your Design Faster	Tim Brooks	Live Q&A	Graham Wirth	How 12d Software Can Help Solve New Zealand's Housing Crisis	Kane Willcox (Piritahi)					01:10 pm
01:20 pm									Live Q&A	Richard Stoliar			01:20 pm
01:30 pm					Conformance Reporting V15: A Total Revamp	Greg Newman							01:30 pm
01:40 pm	**Meet the Founders Live Q&A**	Lee Gregory & Alan Gray	Quick Masonry Block Retaining Walls	Mal Peaker	Geoids with 12d Field V15	Greg Newman	Geometric Design of Pipelines	Mal Peaker	12d Synergy CAD Implementation at Premise	Andrew Langdon (Premise)			01:40 pm
01:50 pm					New Least Squares Analyses	Greg Newman			CAD Xref Management	Connie Butler			01:50 pm
02:00 pm			Live Q&A	Tim Brooks & Mal Peaker	Converting Water Strings to Super Strings	Tony Ingold	Concept Stormwater Design - Getting Started	Mal Peaker					02:00 pm
02:10 pm	Civil BIM & IFCs	Lee Gregory			Chainage Equalities	Tadgh Gunter			Setting Up & Configuring CAD Attributes	Connie Butler	Attributes and the Attribute Manipulator	Cameron Lowe	02:10 pm
02:20 pm			Super Alignment Computators & Components	Rod Burns	Live Q&A	Greg Newman & Tony Gunter	Live Q&A	Mal Peaker	Live Q&A	Connie Butler			02:20 pm
02:30 pm	Vietnam's BIM Standard & Application of 12d Model in the Ho Chi Minh City Metro Line 2 Project	Sau Pham Ngoc (Ho Chi Minh City University of Architecture)											02:30 pm
02:40 pm	Finding Simplicty in Complexity: Deliverying the TfNSW Digital Engineering Framework	Niall Brady (Digitise Consulting)			BIM Objects & Trimeshes	Peter Taynton	Practial Examples Automatic Pipe Regrading	Tony Ingold			Live Q&A	Rod Burns & Cameron Lowe	02:40 pm
02:50 pm							TUFLOW + 12d Model Update: SGS, Quadtree and more!	Rob Graham & Bill Syme (BMT Group)	The Who, Why, What & How of ISO 19650	Paul Shillcock (Operam Academy)			02:50 pm
03:00 pm	TfNSW Digital Framework - Deliverying with 12d Model	Tony Ingold	New 12d Model Customisations in 12d Synergy	Tim Brooks							Speed Tables, Superelevation and Widening	Cameron Lowe	03:00 pm
03:10 pm									ISO 19650 and 12d Synergy Overview	Blake Feehley (Cardno)			03:10 pm
03:20 pm			Live Q&A	Rod Burns & Tim Brooks									03:20 pm
03:30 pm	Digital Engineering Process in N2NS Project	Kamal Jarada (Trans4m Rail)			Cut Fill Trimesh and Producing BIM Data	Paul Hardwick	Live Q&A	Tony Ingold & Rob Graham	Workflows 101	Richard Stoliar			03:30 pm
03:40 pm					Live Q&A	Peter Taynton & Paul Hardwick					MTF Layers & Decisionals	Joel Allsop	03:40 pm
03:50 pm													03:50 pm
04:00 pm	CAD Management in 12d Synergy	Mitch McPherson											04:00 pm
04:10 pm	12d Synergy CAD Implementation at Premise	Andrew Langdon (Premise)							Live Q&A	Richard Stoliar	Live Q&A	Cameron Lowe & Graeme Winfield	04:10 pm
04:20 pm													04:20 pm
04:30 pm	**Drinks & Virtual Networking (60mins)**												04:30 pm

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12d Tech Forum 2021 — Day 2 Schedule

Time (AEDT)	Mainstage	Speaker/s	Design	Speaker/s	Survey	Speaker/s	Water	Speaker/s	Data Management	Speaker/s	Training	Speaker/s	Time (AEDT)
	Free with the Industry Pass						**A paid Training Pass is required for these streams**						
9:00 am	Day 2 Welcome & Overview	Lee & Joel Gregory									12d Model Survey Fundamentals	Adam Eagle & Ben Murphy	9:00 am
9:10 am	Efficiency Through Innovation: SMEC's 6 Year 12d Model Macro Initiative	Joshua Allison (SMEC)											9:10 am
9:20 am													9:20 am
9:30 am											12d Field Tips: Beating the Project Clock	Graham Wirth	9:30 am
9:40 am	Full Project Delivery with 12d Software: Wanaka Land Development Project	Grant Wandel (Southern Land)									12d Field Pick Up Fundamentals	Ben Murphy	9:40 am
9:50 am													9:50 am
10:00 am													10:00 am
10:10 am											Live Q&A	Adam Eagle, Ben Murphy & Graham Wirth	10:10 am
10:20 am	Implementing 12d Synergy: A Local Government Engineer's Tale of Opportunity and Transformation	Richard Clarke (City of Newcastle)											10:20 am
10:30 am											Cadastral & CAD for Survey	Paul Hardwick	10:30 am
10:40 am													10:40 am
10:50 am	12d Synergy Web and Mobile Edition	Richard Stoliar									Conformance Reporting V15: A Total Revamp	Greg Newman	10:50 am
11:00 am			IFCs for Civil Design	Lee Gregory	TfNSW Road Asset Management System (RamS)	Tony Ingold	Inlet Capture Curve	Geoff Thompson	SMEC's 12d Synergy Revolution: North East Link Project	Josh Allison (SMEC)			11:00 am
11:10 am	City Rail Link Project: 12d Utilities Design, BIM Federation & Data Management	Sikander Malik, Wendy Cairns, Angelina Tan & Duane Rollo (Link Alliance)									Least Squares Analysis & Level Net	Greg Newman	11:10 am
11:20 am			BIM Objects & Trimeshes	Peter Taynton	MetaConnex: ADAC, Aspec, GIS, BIM	Paul Hardwick	Roadflow for V15	Rob Graham	Planning for Growth - Implmenting a Document Management in an Ever-changing Environment	Phil Byrum, Phillip Stoddart & David Healy (Orion Consulting)			11:20 am
11:30 am											Live Q&A	Paul Hardwick & Greg Newman	11:30 am
11:40 am													11:40 am
11:50 am							Live Q&A	Geoff Thompson & Rob Graham	12d Synergy and the Cloud	Bruno Indjic	12d Synergy Fundamentals	Tim Brooks	11:50 am
12:00 pm			Live Q&A	Lee Gregory & Peter Taynton	Live Q&A	Tony Ingold & Paul Hardwick							12:00 pm
12:10 pm	Common Data Environment in the ISO 19650 World	Mitch McPherson					Using an Access Database to Improve Designing Culverts in 12d	Philip Campbell (Aurecon)	Live Q&A	Bruno Indjic			12:10 pm
12:20 pm			CAD Plotting in MPS for Design	Dylan Revell	Pavement Manager for Construction	Peter Taynton					12d Synergy Collaboration Basics	Tim Brooks	12:20 pm
12:30 pm			12d Model and Google Earth	Rod Burns			Sewer Lot Controls and House Connections	Owen Thornton					12:30 pm
12:40 pm	The Who, Why, What & How of ISO 19650	Paul Shilcock (Operam Academy)					Converting Wate Strings to Super Strings	Owen Thornton	Implementing 12d Synergy: A Local Government Engineer's Tale of Opportunity and Transformation	Richard Clarke (City of Newcastle)			12:40 pm
12:50 pm											Live Q&A	Connie Butler & Tim Brooks	12:50 pm
01:00 pm	ISO 19650 and 12d Synergy Overview	Blake Feehley (Cardno)	Live Q&A	Dylan Revell & Rod Burns	12dM New Projection Panel	Lee Gregory	Live Q&A	Owen Thornton	Email Management in 12d Synergy	Andres Bedoya			01:00 pm
01:10 pm					Live Q&A	Peter Taynton & Lee Gregory					12d Synergy: Email Management	Arturo De Guia	01:10 pm
01:20 pm			12d Quantity Extraction	Damian McAuliffe (WSP)			Water Plots and MPS	Owen Thornton					01:20 pm
01:30 pm	Water Resource Infrastructure Design Overview	Tony Ingold			Common Data Environment for Surveyors	Mitch McPherson			Live Q&A	Andres Bedoya	Managing CAD in 12d Synergy	Connie Butler	01:30 pm
01:40 pm	TUFLOW + 12d Model Update: SGS, Quadtree and more!	Rob Graham & Bill Syme (BMT Group)	ADAC for Design Using MetaConnex	Peter Taynton							12d Model Management Basics	Tim Brooks	01:40 pm
01:50 pm									The Psychology of Time Management	Ed O'Leary (Abtrac)			01:50 pm
02:00 pm					Point Clouds Basics	Paul Hardwick	12d Model and Google Earth	Rod Burns					02:00 pm
02:10 pm									Small Business Case Study: A HARO Story with 12d Synergy	Luke Hart & Cameron Hewitt (Haro Civil Engineering)			02:10 pm
02:20 pm	Uniform Coding	Michael Connor (Fulton Hogan)	Live Q&A	Peter Taynton	Live Q&A	Mitch McPherson & Paul Hardwick	Live Q&A	Owen Thornton & Rod Burns	Automating your Small Projects with 12d Synergy	Sam Collison	12d Synergy System Administrator Training	Tim Brooks	02:20 pm
02:30 pm	TfNSW Steering Group	Michael Connor (Fulton Hogan)											02:30 pm
02:40 pm	Tales of the Underworld: A Focus on Underground Features	Danny Wilcox, Darren Stewart & Ryan Xu (Arup)							Live Q&A	Sam Collison & Mitch McPherson	Live Q&A	Connie Butler & Tim Brooks	02:40 pm
02:50 pm													02:50 pm
03:00 pm													03:00 pm
03:10 pm	Innovation Awards Presentation	Joel Gregory											03:10 pm
03:20 pm													03:20 pm
03:30 pm													03:30 pm
03:40 pm	Australia's Future on the Moon	Prof Alan Duffy (Swinburne University of Technology)											03:40 pm
03:50 pm													03:50 pm
04:00 pm													04:00 pm
04:10 pm	Guest Speaker (Q&A)	Prof Alan Duffy (Swinburne University of Technology)											04:10 pm
04:20 pm	Guest Speaker (Q&A)												04:20 pm
04:30 pm	Drinks & Virtual Networking (60mins)												04:30 pm

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12d Tech Forum 2021 — Day 3 Schedule

Time AEDT	Mainstage	Speaker/s	Design	Speaker/s	Survey	Speaker/s	Water	Speaker/s	Data Management	Speaker/s	Training	Speaker/s	Time AEDT
	Free with the Industry Pass				*A paid Training Pass is required for these streams*								
9:00 am	Day 3 Event Introduction	Lee & Joel Gregory											9:00 am
9:10 am	SMEC's 12d Synergy Revolution: North East Link Project	Josh Allison (SMEC)											9:10 am
9:20 am													9:20 am
9:30 am	Premise Keynote: 12d Synergy Case Study	Colin Duff, Terry Tran, Glenn Brosnan & Matthew Aimes (Premise)											9:30 am
9:40 am													9:40 am
9:50 am													9:50 am
10:00 am	Project Resourcing & The Productivity Problem	Joel Gregory									Lessons Learnt by a Self-Taught 12d Designer and Project Case Study	Raoul Falkstrom (Samana Blue Engineering)	10:00 am
10:10 am													10:10 am
10:20 am											Introducton to Chains	Steve Kostakis	10:20 am
10:30 am	Autism: A Competitive Advantage (Specialisterne)	Kate Halpin											10:30 am
10:40 am	12d Synergy & GHD Enterprise Licensing Experience	Seb Woodland (GHD)											10:40 am
10:50 am	NX2 Project: Point Clouds & As-built Data Management	Liam Callaghan & Jonathan Kubiak (NX2 Project)									CAD Plotting and MPS Basics	Dylan Revell	10:50 am
11:00 am													11:00 am
11:10 am													11:10 am
11:20 am											Live Q&A	Steve Kostakis & Dylan Revell	11:20 am
11:30 am													11:30 am
11:40 am											Three Waters Fundamentals	Tony Ingold	11:40 am
11:50 am													11:50 am
12:00 pm	MetaConnex New Zealand: Overview	Charlie Latchford	Simplifying the Verfication of Through Sight Lines	Daniel Bykiw (WSP)	IFC Tools for Construction Setout Preparation	Graham Wirth	Flooded Widths for Dynamic Drainage	Rob Graham	12d Synergy Product Update	Richard Stoliar			12:00 pm
12:10 pm			12d Model Design Tips and Tricks	Graeme Winfield									12:10 pm
12:20 pm	Working With Point Clouds in 12d Model	Alan Gray			MetaConnex BIM - In Detail	Charlie Latchford			12d Model Project Templates	Tim Brooks	Concept Stormwater Design Basics	Geoff Thompson	12:20 pm
12:30 pm							Practical Examples for Drainage.4d	Tony Ingold					12:30 pm
12:40 pm							Live Q&A	Rob Graham & Tony Ingold	Let's Talk 12d Model Customisation in 12d Synergy	Tim Brooks			12:40 pm
12:50 pm	Drainage Modelling Using LiDAR Data in the Philippines	Cris Monjardin (Mapua Institute of Technology)	Live Q&A	Graeme Winfield							Live Q&A	Tony Ingold & Geoff Thompson	12:50 pm
01:00 pm					Live Q&A	Charlie Latchford & Graham Wirth	Time of Concentration Builder	Geoff Thompson	Live Q&A	Richard Stoliar & Tim Brooks			01:00 pm
01:10 pm	12d Synergy Enterprise Deployment & Data Management Across the Divide	Neil Foster & Mark Harris (Land Surveys)	Advanced Chains	Matt Stephens			Concept Stormwater Design: Refining and Running	Mal Peaker			The Rational Method: A Good Start	Owen Thornton	01:10 pm
01:20 pm					Risks of Using Consumer Cloud Solutions for your Survey Data	Sam Collison			12d Synergy Document & Email Management Case Study	David Hunter (Habitat Planning)			01:20 pm
01:30 pm	Beat the Project Clock: Why Choose 12d Model Survey and 12d Field	Graham Wirth	Processing of Super Alignment Styles	Owen Thornton	Let's Talk 12d Model Customisation in 12d Synergy	Tim Brooks					Dynamic Drainage Using Laurenson Hydrology	Geoff Thompson	01:30 pm
01:40 pm									EVM 101: Simple Project Monitoring and Reporting Techniques	Paul Hemmings (Total Synergy)			01:40 pm
01:50 pm	Public Works Standards Installed with 12d Model	Tim Brooks	Live Q&A	Matt Stephens & Owen Thornton	Grid Volumes	Greg Newman	Let's Talk 12d Model Customisation in 12d Synergy	Tim Brooks	Data Migrations and Custom Workflow Activities	Jatin Yadav			01:50 pm
02:00 pm					12d Field Multi Coding in SDR Pickup	Graham Wirth					Match Your Nodes to the Roads	Tony Ingold	02:00 pm
02:10 pm	Public Works Standards: Plotting Files	Owen Thornton	Chainage Equalities	Tadgh Gunter			Live Q&A	Mal Peaker & Tim Brooks	Adding Your Company Branding to 12d Synergy	James Irwin	Live Q&A	Owen Thornton, Geoff Thompson & Tony Ingold	02:10 pm
02:20 pm	12d Synergy Document & Email Management Case Study	David Hunter (Habitat Planning)	Regression (Best Fit) Inside the Super Alignment	Alisdair McCrudden	Live Q&A	Sam Collison, Tim Brooks, Greg Newman & Graham Wirth							02:20 pm
02:30 pm							Water Quality with MUSIC	Geoff Thompson	Live Q&A	Jatin Yadav & James Irwin	Pre-processing Data for Services Co-ordination and Plotting	Owen Thornton	02:30 pm
02:40 pm	Meet the Founders Live Q&A	Joel Gregory & Richard Stoliar			BIM Processing	Alan Gray							02:40 pm
02:50 pm									Working Remotely from India, COVID Epicentre	Florence Joseph	Creating Super Alignments from Non-3D Sources	Rod Burns	02:50 pm
03:00 pm			Live Q&A	Tadgh Gunter & Alisdair McCrudden	12d Model 15 SDR Improvements	Alan Gray	Dynamic Water Supply	Mal Peaker	Premise Keynote: 12d Synergy Case Study	Colin Duff, Terry Tran, Glenn Brosnan, Matthew Aimes (Premise)			03:00 pm
03:10 pm	The Future of 12d Model Training	Cameron Lowe			Quick Start (Simplified SDR Function Creation)	Graham Wirth					Rail Fundamentals	Alisdair McCrudden	03:10 pm
03:20 pm	12d Model Data Management Overview for Civil Professionals	Shane Machon			Google Earth for Survey	Rod Burns							03:20 pm
03:30 pm							Live Q&A	Geoff Thompson & Mal Peaker	System Attributes (incl. Attribute Constraints)	Florence Joseph			03:30 pm
03:40 pm	Why Choose 12d Model	Matt Stephens							A Guide to Using Maps in 12d Synergy	James Irwin	Live Q&A	Owen Thornton, Rod Burns & Alisdair McCrudden	03:40 pm
03:50 pm					Live Q&A	Alan Gray, Graham Wirth & Rod Burns			Live Q&A	Flo Joseph & James Irwin			03:50 pm
04:00 pm	Western Sydney International Airport Case Study	Pat Cavanagh, Michael Huan & Richard Russell (Arcadis Aurecon JV)											04:00 pm
04:10 pm													04:10 pm
04:20 pm													04:20 pm
04:30 pm	Event Round Up	Lee & Joel Gregory											04:30 pm
04:40 pm	Drinks & Virtual Networking (60mins)												04:40 pm

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Event Partners

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12d® Model   12d® Synergy