

12d[®] Tech Forum 2021

Event Agenda

Online Event
19 – 21 October 2021



Theme: Beating the Project Clock

#12dTechForum



12d[®] Model



12d[®] Synergy



Time	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												AEDT	
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 12d Model... 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	12d Field V15 Overview	Graham Wirth	Enhancing Water Setups for Easier BIM Integration with Polymeshes	Dylan Revell	Data Collaboration in a Civil Alliance	Ryan Healy (Piritahi)			12:10 pm	
12:20 pm		Quick Masonry Block Retaining Walls	Mal Peaker					Creating Catchments from Design Strings	Owen Thornton					12:20 pm
12:30 pm		Live Q&A	Hanh Cao & Peter Taynton										Live Q&A	Steve Kostakis & Cameron Lowe
12:40 pm													12:40 pm	
12:50 pm	GDA 2020 Overview	Lee Gregory			12d Field V15 New Functions & Workflows	Stuart Holloway (Alliance Surveying)	Live Q&A	Dylan Revell & Owen Thornton	Hosting 12d Synergy in the Cloud	Iain Billington (Piritahi)	Design Fundamentals	Rod Burns	12:50 pm	
01:00 pm													01:00 pm	
01:10 pm	Taking A Leap: Adopting GDA2020 at Mackay Regional Council	Megan Dillion & Luke Cimpa (Mackay Regional Council)			Live Q&A	Graham Wirth, Michael Gunter	How 12d Software Can Help Solve New Zealand's Housing Crisis	Kane Willcox (Piritahi)	Live Q&A	Richard Stoliar			01:10 pm	
01:20 pm													01:20 pm	
01:30 pm			Make Your Design Faster	Tim Brooks	Conformance Reporting V15: A Total Revamp	Greg Newman							01:30 pm	
01:40 pm	Meet the Founders Live Q&A	Lee Gregory & Alan Gray			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 Part 1: 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													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)	Super Alignment Computators & Components	Rod Burns	Live Q&A	Greg Newman, Tony Ingold, Michael Gunter & Tadgh Gunter			Live Q&A	Connie Butler			02:30 pm	
02:40 pm	Finding Simplicity in Complexity: Delivering the TfNSW Digital Engineering Framework	Niall Brady (Digitise Consulting)			BIM Objects & Trimeshes	Peter Taynton	Practical 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)	Speed Tables, Superelevation and Widening	Cameron Lowe	02:50 pm	
03:00 pm	TfNSW Digital Framework - Delivering with 12d Model	Tony Ingold	New 12d Model Customisations in 12d Synergy	Tim Brooks					ISO 19650 and 12d Synergy Overview	Blake Feehley (Cardno)			03:00 pm	
03:10 pm													03:10 pm	
03:20 pm			Live Q&A	Rod Burns & Tim Brooks									03:20 pm	
03:30 pm	Digital Engineering Process	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									Live Q&A	Richard Stoliar	Live Q&A	Cameron Lowe & Graeme Winfield	04:10 pm	
04:20 pm	12d Synergy CAD Implementation at Premise	Andrew Langdon (Premise)											04:20 pm	
04:30 pm	Drinks & Virtual Networking (60mins)												04:30 pm	



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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 Stolar											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)	Conformance Reporting Basics Training	Greg Newman	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)											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 - Implementing a Document Management System in an Ever-changing Environment	Phil Byrum, Phillip Stoddart & David Healy (Orion Consulting)	Least Squares Analysis & Level Net	Greg Newman	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											12d Synergy and the Cloud	Bruno Indjic	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									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	Using an Access Database to Improve Designing Culverts in 12d	Philip Campbell (Aurecon)	Implementing 12d Synergy: A Local Government Engineer's Tale of Opportunity and Transformation	Richard Clarke (City of Newcastle)	12d Synergy Collaboration Basics	Tim Brooks	12:20 pm		
12:30 pm													12:30 pm		
12:40 pm	The Who, Why, What & How of ISO 19650	Paul Shilcock (Operam Academy)											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)	12d Model and Google Earth	Rod Burns	12d Model New Projection Panel	Lee Gregory	Live Q&A	Owen Thornton	Email Management in 12d Synergy	Andres Bedoya	12d Synergy: Email Management	Arturo De Guia	01:00 pm		
01:10 pm														01:10 pm	
01:20 pm													01:20 pm		
01:30 pm	Water Resource Infrastructure Design Overview	Tony Ingold	Live Q&A	Dylan Revell & Rod Burns	Common Data Environment for Surveyors	Mitch McPherson	Water Plots and MPS	Owen Thornton	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)											01:40 pm		
01:50 pm			12d Quantity Extraction	Damian McAuliffe (WSP)	Point Cloud Basics	Paul Hardwick	12d Model and Google Earth	Rod Burns	The Psychology of Time Management	Ed O'Leary (Abtrac)	12d Model Management Basics	Tim Brooks	01:50 pm		
02:00 pm													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	Mitch McPherson & Paul Hardwick	Live Q&A	Owen Thornton & Rod Burns	Automating your Small Projects with 12d Synergy	Sam Collison	12d Synergy: 12d Model 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			Live Q&A	Peter Taynton										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													04:20 pm		
04:30 pm	Drinks & Virtual Networking (60mins)												04:30 pm		

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AEDT	Free with the Industry Pass		A paid Training Pass is required for these streams										AEDT
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													10:00 am
10:10 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)	10:10 am
10:20 am											Introducton to Chains	Steve Kostakis	10:20 am
10:30 am													10:30 am
10:40 am	Autism: A Competitive Advantage (Specialisterne)	Kate Halpin											10:40 am
10:50 am	12d Synergy & GHD Enterprise Licensing Experience	Seb Woodland (GHD)									CAD Plotting and MPS Basics	Dylan Revell	10:50 am
11:00 am	NX2 Project: Point Clouds & As-built Data Management	Liam Callaghan & Jonathan Kubiak (NX2 Project)											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			Simplifying the Verification 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 Stolar			12:00 pm
12:10 pm	MetaConnex New Zealand: Overview	Charlie Latchford	12d Model Design Tips and Tricks	Graeme Winfield									12:10 pm
12:20 pm					MetaConnex BIM - In Detail	Charlie Latchford			12d Model Project Templates	Tim Brooks	Concept Stormwater Design Basics	Geoff Thompson	12:20 pm
12:30 pm	Working With Point Clouds in 12d Model	Alan Gray					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			Live Q&A	Graeme Winfield							Live Q&A	Tony Ingold & Geoff Thompson	12:50 pm
01:00 pm	Drainage Modelling Using LIDAR Data in the Philippines	Cris Monjardin (Mapua Institute of Technology)			Live Q&A	Charlie Latchford & Graham Wirth	Time of Concentration Builder	Geoff Thompson	Live Q&A	Richard Stolar & Tim Brooks			01:00 pm
01:10 pm			Advanced Chains	Matt Stephens			Concept Stormwater Design Part 2: Refining and Running	Mal Peaker			The Rational Method: A Good Start	Owen Thornton	01:10 pm
01:20 pm	12d Synergy Enterprise Deployment & Data Management Across the Divide	Neil Foster & Mark Harris (Land Surveys)			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			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	Beat the Project Clock: Why Choose 12d Model Survey and 12d Field	Graham Wirth					Concept Stormwater Design Part 3: Results and Review	Mal Peaker	EVM 101: Simple Project Monitoring and Reporting Techniques	Paul Hemmings (Total Synergy)			01:40 pm
01:50 pm			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	Public Works Standards Installed with 12d Model	Tim Brooks			12d Field Multi Coding in SDR Pickup	Graham Wirth					Match Your Nodes to the Roads	Tony Ingold	02:00 pm
02:10 pm			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	Public Works Standards: Plotting Files	Owen Thornton	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	12d Synergy Document & Email Management Case Study	David Hunter (Habitat Planning)			BIM Processing	Alan Gray	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													02:40 pm
02:50 pm	Meet the Founders Live Q&A	Joel Gregory & Richard Stolar							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					Quick Start (Simplified SDR Function Creation)	Graham Wirth					Rail Fundamentals	Alisdair McCrudden	03:10 pm
03:20 pm	The Future of 12d Model Training	Cameron Lowe			Google Earth for Survey	Rod Burns							03:20 pm
03:30 pm	12d Model Data Management Overview for Civil Professionals	Shane Machon					Live Q&A	Geoff Thompson & Mal Peaker			Live Q&A	Owen Thornton, Rod Burns & Alisdair McCrudden	03:30 pm
03:40 pm									System Attributes (incl. Attribute Constraints)	Florence Joseph			03:40 pm
03:50 pm	Why Choose 12d Model	Matt Stephens			Live Q&A	Alan Gray, Graham Wirth, Rod Burns & Michael Gunter			A Guide to Using Maps in 12d Synergy	James Irwin			03:50 pm
04:00 pm									Live Q&A	Flo Joseph & James Irwin			04:00 pm
04:10 pm	Western Sydney International Airport Case Study	Pat Cavanagh, Michael Huan & Richard Russell (Arcadis Aurecon JV)											04:10 pm
04:20 pm													04:20 pm
04:30 pm													04:30 pm
04:40 pm	Event Round Up	Lee & Joel Gregory											04:40 pm
04:50 pm	Drinks & Virtual Networking (60mins)												04:50 pm

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