



**CitA** | **TECHLIVE**  
2022 Challenge, Change, Learn

# The Programme

15th - 16th June: **Lunchtime Webinar**

17th June: **In-Person, full day event at the Gibson Hotel, Dublin.**



## Organisation Committee

Enda Kirwan  
Paul Brennan  
John Whyte  
Davitt Lamon  
Pat Kirwan  
Stephen Foley  
Jonathan Reinhardt  
Emma Hayes  
Mary Flynn  
Ross O'Colmain  
Dan O'Gorman  
Ian fewer

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Collen Construction  
Diatec  
Digital Built Consultants  
Dublin City Council  
Enterprise Ireland  
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Archie O' Donnell  
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Cathal O'Donnell  
Martin Searson  
Mark Costello  
Ken Thomas  
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Irish Building Magazine  
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Welcome to the 3rd CitA Tech Live conference, Challenge, Change, Learn.

At no time has the challenge been so great for the Irish construction industry. In 2022, the combined impact of the continued threat of COVID-19, the impact of Brexit and the war in the east, means construction businesses are now having to adapt to a new norm in a very competitive and turbulent sector.

Things are slowly getting back to normal, but the market is extremely difficult to operate in competitively. Some issues are unique to the construction industry, and other issues are being faced across other business sectors.

Earlier this year, CitA challenged its members to identify their key challenges. While many issues were identified, the top concerns surrounded resource scarcity, increased costs, decarbonisation and procurement reform. These were also coincidentally identified by Mark Farmer, Cast CEO and Founding Director in an interview earlier this year in the UK Building magazine.

CitA Tech Live 2022 seeks to address how digitization can help tackle these key challenges throughout the three-day event with a world class line up of speakers.

CitA's flagship event in 2022 is a welcome return to in-person events. Day three of the conference on Friday 17th June taking place in the Gibson Hotel will look specifically at procurement reform. Wednesday 15th June will focus on the resource scarcity and increased costs whilst Thursday 16th June will address the urgent need to decarbonise our industry.

The CitA team are very grateful for all of the support that it has received from CitA members and sponsors over the past two years,. Now it is time to reconnect and say thank you to our delegates and supporters.

With your continued support, together we will make CitA Tech Live 2022 a great success by providing a beacon for a renewed smarter, greener and leaner Irish construction industry.

Sit back and enjoy! I look forward to meeting many of you at the conference.

**Dr. Alan Hore,**  
Dr. Alan Hore, TU Dublin and CitA  
Conference Chair





## Day One: Challenge

**Tackling resource scarcity and increased costs in construction.**

The industry is experiencing significant labour shortages, staff retention and ever increasing costs. Our speakers will include a multi-stakeholder perspective focusing on how automation specifically machine learning and artificial intelligence can help fill the labour gap and spiralling construction costs.

This lunchtime session also provides both a client and a contractor's perspective on how to manage the risk associated with these challenges today.

## Day Two: Change

**Seizing the decarbonization opportunity in construction.**

In this important session, delegates will hear of the significant cultural shift required by all stakeholders to decarbonise the sector. In addition delegates will hear how machine learning, digital twins and increased smart off-site solutions can lead towards a net-zero future.

This lunchtime session will leave delegates in no doubt not only of the significance of the climate action response needed by the sector but also provide a perspective of how digital is there to support the realisation of a decarbonized industry.

## Day Three: Learn

**Transforming the procurement landscape in construction for improved value and reduced risk.**

Following days 1 and 2, delegates will be aware of today's challenges and why we need to change to a more sustainable sector. Delegates will learn that these key challenges can only be achieved through urgent procurement reform.

A variety of perspectives from both national and international speakers on how procurement reform can provide the catalyst for a smarter, leaner, faster, healthier and greener sector.



## Challenge: Tackling resource scarcity and increased costs in construction

Day One: Wednesday 15th June ONLINE event from 12.00pm to 14.00pm

Time	Speaker	Title of talk
12.00 - 12.05	<b>Dr. Alan Hore,</b> TU Dublin/Co-Founder CitA	<b>Welcome Address</b>
12.05 - 12.25	<b>Eoin McEnery,</b> Associate, Mitchell McDermott	Adapting to an inflationary market
12.25 - 12.45	<b>Stephen Foley,</b> Head of Bid Department, Collen Construction	Digitisation of Bid Risk Management in the Irish Construction Industry
12.45 - 13.05	<b>Ciaran Brennan,</b> CEO & Co-Founder, LiveCosts.com	Using technology to make informed buying decisions in today's material marketplace
13.05 - 13.20	<b>Dr. Ahmed Hassan,</b> Postdoctoral Research Fellow, TU Dublin	A-EYE Control Tower: AI-driven visibility platform to improve productivity on construction sites
13.20 - 13.40	<b>Dr. Sharon Richardson,</b> Data, AI & Decision Strategist, Databricks	(Near) Real-time AI: opportunities and challenges
13.40 - 13.55	<b>Q&amp;A</b>	
13.55 - 14.00	<b>Dr. Alan Hore,</b> TU Dublin/Co-Founder CitA	<b>Closing Address</b>



## Change: Seizing the decarbonization opportunity in construction

Day Two: Thursday 16th June ONLINE event from 12.00pm to 14.00pm

Time	Speaker	Title of talk
12.00 - 12.05	<b>Eamon Shiels,</b> Programme Manager Commercial Retrofit, SEAI	<b>Welcome Address</b>
12.05 - 12.25	<b>Zulkefly Abu Bakar,</b> BIM Coordinator, MCA Architects	Machine learning to support BIM-based material analysis for embodied carbon assessment
12.25 - 12.45	<b>Susan Pierce,</b> Research Consultant, Integrated Environmental Solutions Ltd	Achieving Limerick's 2050 Vision: How digital twin technology is supporting the drive towards net-zero cities
12.45 - 13.05	<b>Deborah Smyth,</b> Managing Director, Tempohousing Ireland Ltd	Using DFMA to deliver net-zero carbon
13.05 - 13.25	<b>Sean O'Dwyer,</b> AEC Division Manager, Procad	Managing the hybrid working model with Autodesk AEC & Naviate Tools
13.25 - 13.55	<b>Q&amp;A</b>	
13.55 - 14.00	<b>Eamon Shiels,</b> Programme Manager Commercial Retrofit, SEAI	<b>Closing Address</b>





## Learn: Transforming the procurement landscape in construction for improved value and reduced risk

**Day Three Morning:** Friday 17th June, LIVE event at the Gibson Hotel, Dublin

Time	Speaker	Title of talk
09.05 - 09.15	<b>John McGowan</b> , Tualatin/Chairman Cita	<b>Welcome Address</b>
09.15 - 09.35	<b>Dr. Paolo Giana</b> , Senior Information Management Consultant Buro Happold	Implementing the Gold Standard in construction procurement: a focus on the Integrated Information Management Contract (IIMC)
09.35 - 09.55	<b>Mairéad Phelan</b> , Head, National Building Control & Market Surveillance office, Dublin City Council	Building control management system as the preferred means of building control administration in Ireland managed by a remote paperless office in the cloud
09.55 - 10.15	<b>Ross O'Colmain</b> , Manager, High Tech Construction & Housing Enterprise Ireland	'Built to Innovate' An Enterprise Ireland Action under Housing for All
10.15 - 10.35	<b>Jonathan Reinhardt</b> , Autodesk Technical Consultant Diatec Group	Enhancing the Architecture to Construction Journey to Support Remote Working, Site Execution & Data Analytics
10.35 - 10.45	<b>Q&amp;A</b>	
10.45 - 11.05	<b>Tea &amp; Coffee and Networking</b>	
11.05 - 11.10	<b>Chairperson: Mary Flynn</b> , Dublin City Council / Cita Board Member	
11.10 - 11.30	<b>Cillian Kelly</b> , Head of Digital Project Delivery, John Sisk and Son <b>Dillon Johnston</b> , Senior BIM Engineer, John Sisk and Son	BIM Excellence in The Public Sector   Grangegorman Campus
11.30 - 11.50	<b>John Lacy</b> , Smart Building Solutions Lead, Siemens	Procure digitally enabled, smarter buildings to deliver improved operational value and an enhanced end-user experience
11.50 - 12.10	<b>Michael Galbraith</b> , Immersive Technology Specialist, Arup	The Four Pillars of Immersive Technology at Arup
12.10 - 12.30	<b>Seya Tansill</b> , Offsite Innovation lead - Modern Construction, BRE Group	How DFMA can drive the culture change needed to transform our industry
12.30 - 12.50	<b>Michael Murphy</b> , Digital Construction Operation Manager, BAM <b>Gregory Byrne</b> , Digital Construction Manager, BAM	Museum of the Future
12.50 - 12.55	<b>Q&amp;A</b>	





**Learn: Transforming the procurement landscape in construction  
for improved value and reduced risk**

**Day Three Afternoon:** Friday 17th June, LIVE event at the Gibson Hotel, Dublin

Time	Speaker	Title of talk
13.55 - 14.00	<b>Chairperson Dr. Alan Hore,</b> TU Dublin/Co-Founder CitA	
14.00 - 14.20	<b>Donal Daly,</b> Founder & CEO, Future Planet	How to be a Sustainability Leader in Construction (using technology)
14.20 - 14.40	<b>Matthew Egan,</b> CEO & Founder, Modularize Ltd	Practicalities of designing for modular manufacturing procurement
14.40 - 15.00	<b>Andrew Bellerby,</b> Managing Director, Solibri	Quality Assets, Quality Data ... It Starts With You!
15.00 - 15.20	<b>Dr. Housseem Jerbi,</b> Founder & CEO, Smart PMO	AI platform for maximising efficiency and outcome of construction projects
15.20 - 15.35	<b>Ryan Forde,</b> BIM Coordinator & Trainer, ArcDox	The Importance of the Project Information Manager
15.35 - 15.50	<b>Robert Moore,</b> Project Lead, Build Digital Project	How the Build Digital Project will make a difference
15.50 - 15.55	<b>Q&amp;A</b>	
15.55 - 16.00	<b>Dr. Alan Hore,</b> TU Dublin/Co-Founder CitA	<b>Closing Address</b>



## The Programme: Our speakers



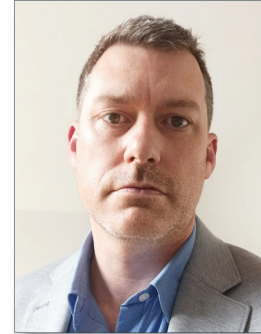
**Zulkefly Abu Bakar**  
BIM Coordinator  
MCA Architects



**Andrew Bellerby**  
Managing Director  
Solibri



**Ciaran Brennan**  
CEO & Co-Founder  
LiveCosts.com



**Greg Byrne**  
Digital Construction Manager  
BAM



**Donal Daly**  
Founder & CEO  
Future Planet



**Matthew Egan**  
CEO & Founder  
Modularize Ltd



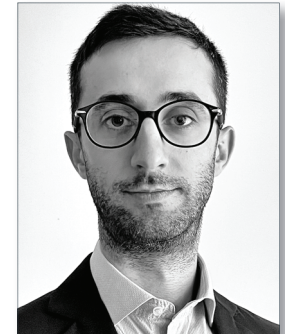
**Stephen Foley**  
Head of Bid Department  
Collen Construction



**Ryan Forde**  
BIM Coordinator & Trainer  
ArcDox



**Michael Galbraith**  
Immersive Technology  
Specialist, Arup



**Dr. Paolo Giana**  
Management Consultant  
Buro Happold



## The Programme: Our speakers



**Dr. Ahmed Hassan**  
Postdoctoral Research Fellow  
TU Dublin



**Dr. Housseem Jerbi**  
Founder & CEO  
Smart PMO



**Dillon Johnston**  
Senior BIM Engineer  
John Sisk and Son



**Cillian Kelly**  
Head of Digital Project Delivery  
John Sisk and Son



**John Lacy**  
Smart Building Solutions Lead  
Siemens



**Eoin McEnery**  
Associate  
Mitchell McDermott



**Robert Moore**  
Project Lead,  
Build Digital Project



**Michael Murphy**  
Digital Construction  
Operations Manager  
BAM



**Ross O'Colmain**  
Manager, High Tech  
Construction & Housing  
Enterprise Ireland



**Sean O'Dwyer**  
AEC Division Manager  
Procad





## The Programme: Our speakers



**Mairéad Phelan**  
Head National Building Control  
& Market Surveillance Office  
Dublin City Council



**Susan Pierce**  
Research Consultant  
Integrated Environmental  
Solutions Ltd



**Jonathan Reinhardt**  
Autodesk Technical Consultant  
Diatec Group



**Dr. Sharon Richardson**  
Data, AI & Decision Strategist  
Databricks



**Deborah Smyth**  
Managing Director  
Tempohousing Ireland Ltd



**Seya Tansill**  
Offsite Innovation Lead  
BRE Group



## ARUP

Founded in 1946, Arup has been active in Ireland for 76 years and has grown to become one of the largest multi-disciplinary consultancy firms in Ireland working across every aspect of today's built environment. We are an independent firm with over 650 designers, planners, engineers, project managers, consultants and technical specialists across our four offices in Dublin, Cork, Limerick and Galway. Working to deliver a sustainable future, we have built a reputation for bringing global expertise to an increasingly broad range of projects across all sectors in the construction industry.

From designing buildings and infrastructure, to harnessing digital insights and providing strategic advice backed by our technical expertise, we work with our clients to solve their most complex challenges and turn exciting ideas into tangible reality. With an enduring set of values, our unique trust ownership fosters a distinctive culture and an intellectual independence that encourages collaborative working. Arup is the creative force at the heart of many of the world's most prominent projects in the built environment and across industry. By bringing together architecture, engineering and an ever-expanding roster of specialisms, our philosophy of Total Design has been at the heart of our most ambitious work. Globally, we're more than 16,000 specialists, working across 90+ disciplines, with projects in over 140 countries.

We are committed to using our expertise, creativity, and innovation to make this world a better place for all.



The Diatec Group is a leading Autodesk partner focused on digitalisation of the Construction Industry. As Ireland's largest Autodesk Platinum Partner & a top 10 European partner, we are focused on helping customers with technology adoption, implementation, development, training & consultancy.

Diatec leverages its highly skilled industry teams to deliver integrated solutions based on Autodesk's Construction Cloud Unified digital project delivery platform together with AEC design tools including Revit, Navisworks, Plant 3D & Civil 3D software to our clients in Architecture, Engineering & the Built Environment. We deploy & deliver Autodesk software, instructor led & eLearning training & offer more advanced Building Information Modelling (BIM) consultancy & Integrated Project Delivery (IPD) services aligned to the client's specific needs or project requirements. Our ICT systems & cloud compute capability is focused on helping clients with the latest digital workflows for our customers in Design & Construction project delivery. We provide cloud-based Autodesk Collaboration & remote working tools together with secure alternative complementary remote, cloud & hybrid cloud Citrix & SteelHead deployments. These business-centric deployments allow remote users to work in a more controlled productive way, than simple remote desktop enablement. From design, design collaboration through to documentation & reviews, to pre-construction, & through to quality, safety, handover & operations, Diatec are there to guide & assist in delivering value & unparalleled customer service to our clients.

Established 1993 & with staff of 50 & offices in Dublin, Galway, Cork & Belfast.



John Sisk and Son is an innovative, International, construction and engineering company. With a 160 year history spanning three centuries, our family business has stayed true to John Sisk's vision of providing exceptionally high levels of construction expertise and customer service by employing, training, and motivating capable staff.

John Sisk & Son Ltd. aims to continuously drive value and efficiency for our projects & clients through our collaborative working processes. SISK decided to drive Building Information Modelling (BIM), Information Management (IM) and the use of Innovative Technology centrally through our Digital Project Delivery (DPD) Strategy. This process is underpinned by the amalgamation of our people, digital tools, and management procedures.



Procad – Autodesk Platinum Partner are the leading provider of 3D design, manufacturing, engineering, and construction software solutions delivering solutions to the Irish market for the last 25 years. An established and trusted advisor to some of Ireland's largest manufacturing, construction and architectural organisations.

Procad, now part of Symetri, work with companies to tailor digital BIM, product design and lifecycle solutions to help them work smarter and do more with less. Procads partnership with Symetri means they have extensive knowledge and expertise around the Autodesk portfolio, in addition to a comprehensive range of its own IP, training and support solutions. Procad prides themselves on superior customer service and support. The company vision is to inform, inspire and empower their customers to work smarter.



Solibri is the leader in BIM Quality Assurance and Quality Control in digital construction, they develop and market quality assurance solutions that improve digital designs and make the entire design and construction process more productive, cost-effective and with risks mitigated.

Providing out of the box tools for clash prevention, BIM and data validation, compliance control, design review and code checking as well as fire safety. Solibri's customers include major building owners, construction companies, architects, and engineering firms in more than 100 countries.

They are part of the Nemetschek Group and based in Helsinki, with offices in the US, UK, Netherlands, Germany, and Spain. Solibri continues to work to save you time, money, and the environment.



## The Programme: Our sponsors & Exhibitors

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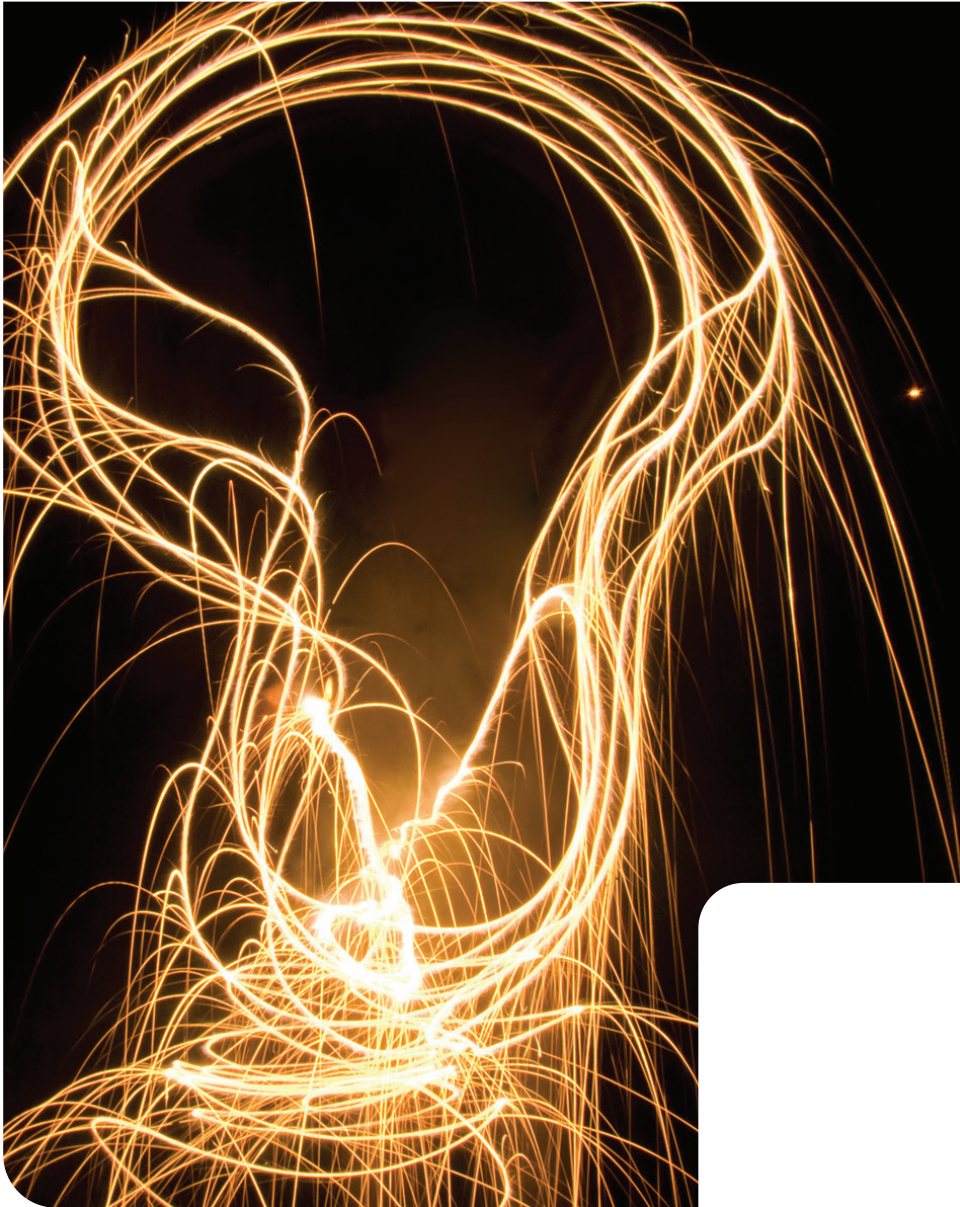
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