



Project Controls EXPO

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Key Features/Attractions



Partner Showcase and
Jobs Fair
@ Olympic Room B and
Betty Cuthbert Lounge



Masterclass Zone &
Awards Night
@ Members Dining Room



Case Studies Zone
@ Jim Stynes Room A



Megaprojects Zone
@Yarra Park Room



SME Panel/Zone
@ Olympic Lounge



Technology Zone
@ Olympic Room A



Innovations Zone
@Jim Stynes Room B

Day 1 - Drinks reception on 25th Nov in Percy Beames Bar. The Percy Beames overlooks the park and is in between the Members Dining Room and where the word Robert Flower Terrace is in map above. Delegates to approach the venue by gate 2 and turn right for the Awards night location.

Day 2 - Exhibition 26th Nov Evening beverage on day 2 to be in Betty Cuthbert Lounge and Olympic Room B – Same place as we have partner showcase to avoid movement.

Location

Melbourne Cricket Ground, Brunton Ave, Richmond VIC 3002, Australia



Social media and Web access

We are pleased to offer free Wi-Fi to our delegates. Please search by network: **MCG Network**

Spread the word on event and/or share your experience -



https://twitter.com/projconexpo_aus



<https://www.facebook.com/ProjectControlsExpoAUS/>



<https://www.linkedin.com/company/project-controls-expo-australia/>

Meals and Beverages

Expo 2019 offers complimentary all day beverages, buffet lunch and “evening social” (includes beer, wine and soft drinks) to all delegates.

Quiet Zones

Quiet Zones offers you peaceful areas with comfortable seating. Please keep your phones “switched off” or in “silent mode” to ensure you don’t disturb others. You can also access/view all the presentations from Quiet Zones if you wish to do so.

Please note: Considering the size of the event, Expo is spread across entire stadium so please make yourself fully aware of all the zones and plan your sessions accordingly. There is plenty of seating capacity (circa 250) in each zone to ensure you don’t miss any presentation if you get late due to travelling between various zones.

Social

Join us in the evening for a complimentary drink at our networking social.

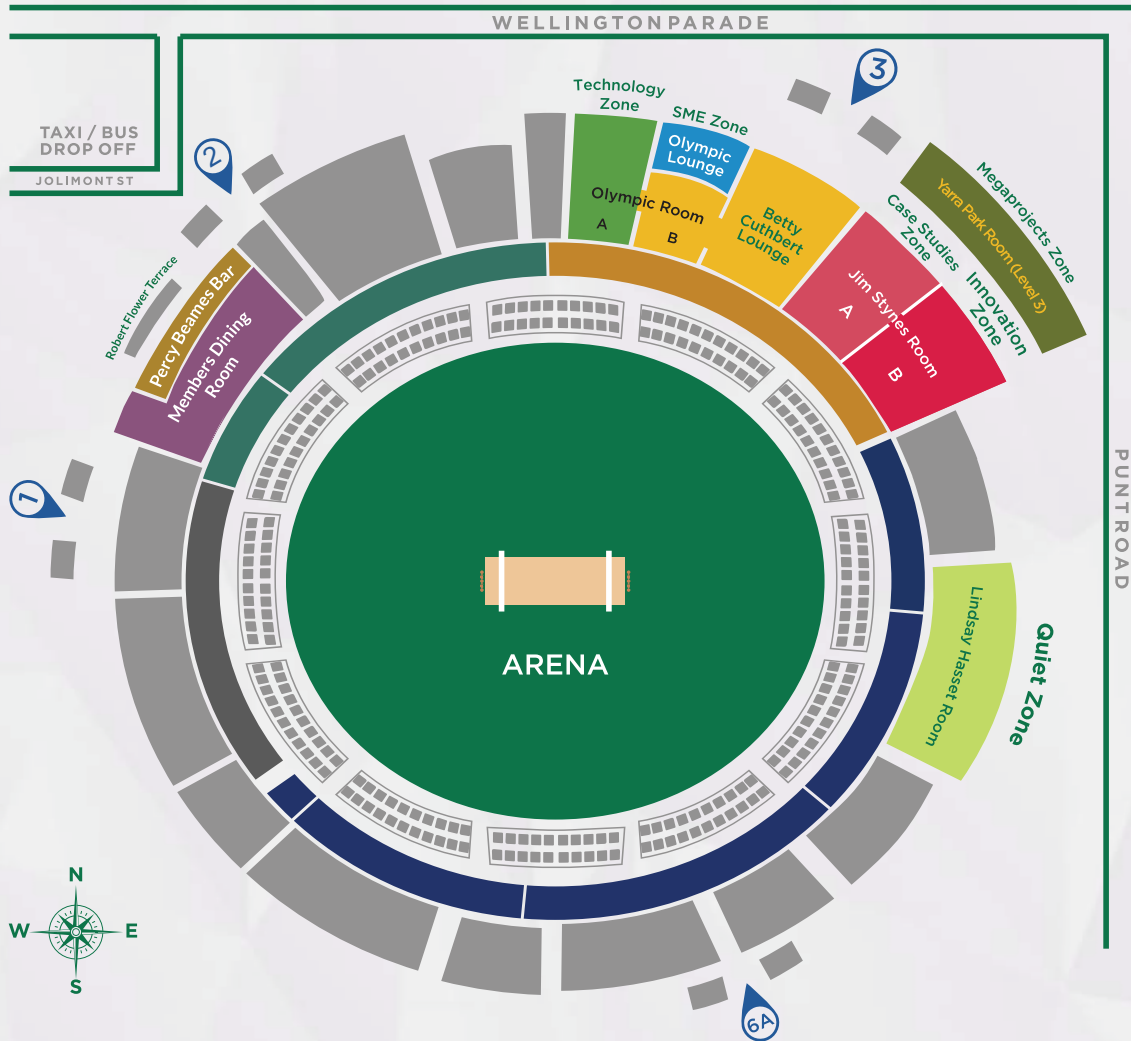
To ensure delegates have least problems with navigation, there is significant signage at venue and in addition to that we have our crew/stewards who can help you move across the stadium efficiently.

And Relax!

After an intense day of learning come and join organisers, delegates and leading Project Controls Expo Partners for some uninterrupted networking, re-acquaint yourself with old friends and make new contacts whilst enjoying a few drinks.



Overall Expo Layout (Bird's eye view)



- Partner Showcase and Jobs Fair @ Olympic Room B and Betty Cuthbert Lounge
- Masterclass Zone & Awards Night @ Members Dining Room
- Technology Zone @ Olympic Room A
- Case Studies Zone @ Jim Stynes Room A
- Megaprojects Zone @ Yarra Park Room
- Innovations Zone @ Jim Stynes Room B
- SME Panel/Zone @ Olympic Lounge
- Evening Social on 25th Nov @ Percy Beames Bar
- Evening Social on 26th Nov @ Olympic Room B & Betty Cuthbert Lounge

📍 3 Main Entrance/Gate 3

📍 2 Awards Night Entrance/Gate 2

Please Note: Delegates to approach the venue by gate 2 and turn right for the Awards night location.

📍 1 Exit/Gate 1

Please Note: After the end of EXPO, Gate 3 will be shut and guests will need to leave via Gate 1.

📍 6A Gate 6A

👤 Cloak Room

Please Note: There are no secure cloakroom facilities at MCG. Only bring valuables eg laptops and cameras if essential. Keep these possessions with you at all times. There is space to hang coats but this area is not supervised.

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Event snapshot and Layout

Five parallel tracks showcasing 30 educational presentations, case studies in addition to Partners Showcase and Job Fair

Awards Evening

In 2019 our EXPO dinner will take place on the night before EXPO on 25th November from 1800-2230. This will incorporate our Project Controls Expo Awards ceremony in the Members Dining Room at Melbourne Cricket Ground. This is an exciting feature of EXPO which will also have staged event and entertainment.

@ [Members Dining Room](#)

Partner Showcase and Jobs Fair

A number of long standing and new Partners, showcasing a range of cutting edge products, technologies and services for project controls. We also have several employers presenting exciting global project controls opportunities who can also discuss training and apprenticeship schemes.

@ [Olympic Room B and Betty Cuthbert Lounge](#)

Masterclass Zone

This is a fantastic opportunity to join the Masterclass Zone to study and discuss the theory and practice of project controls. Our highly experienced project controls professionals, from around the world, will provide seven educational presentations that will help you to build and enhance your knowledge and skillset.

@ [Members Dining Room](#)

Technology Zone

Presenting in-depth sessions of 40 minutes each where our technology partners will demonstrate the functionality and capabilities of their innovative products. The partners will provide industry case studies and some will be represented by their clients from industry. You will be able to visit these partners for further information at their stands following their presentations.

@ [Olympic Room A](#)

Case Studies Zone

"Real World" problems and issues are what brings the application of project controls alive. This case study zone enables you to discuss the application of project controls on addressing the problems in real life project environment. An opportunity to learn and share knowledge with others.

@ [Jim Stynes Room A](#)

Megaprojects Zone

Megaprojects are projects with budgets over >£1B. These temporary endeavors are characterized by large investment commitment, vast complexity and have the potential to make a long-lasting impact on the economy, environment and society. You will discover how to ensure governance over these initiatives and protect the investments.

@ [Yarra Park Room](#)

Innovations Zone

We are dedicated to self-improvement. Our Innovations Zone provides a space for our experts across the business to share new ways of thinking and concepts for managing projects. The Innovations Zone is an incubator for bold new project controls ideas, and a place where they can be openly discussed. In this way, 'best practice' rises to the top and new ideas are perfected.

@ [Jim Stynes Room B](#)

SME Panel/Zone

Meet our Subject Matter Expert (SME) in Programme Management, Earned Value, Cost Engineering, Risk and Forensic for 1:1 sessions of 10 minutes each for discussing your specific cases/queries in details. Delegates to register at event reception desk on arrival.

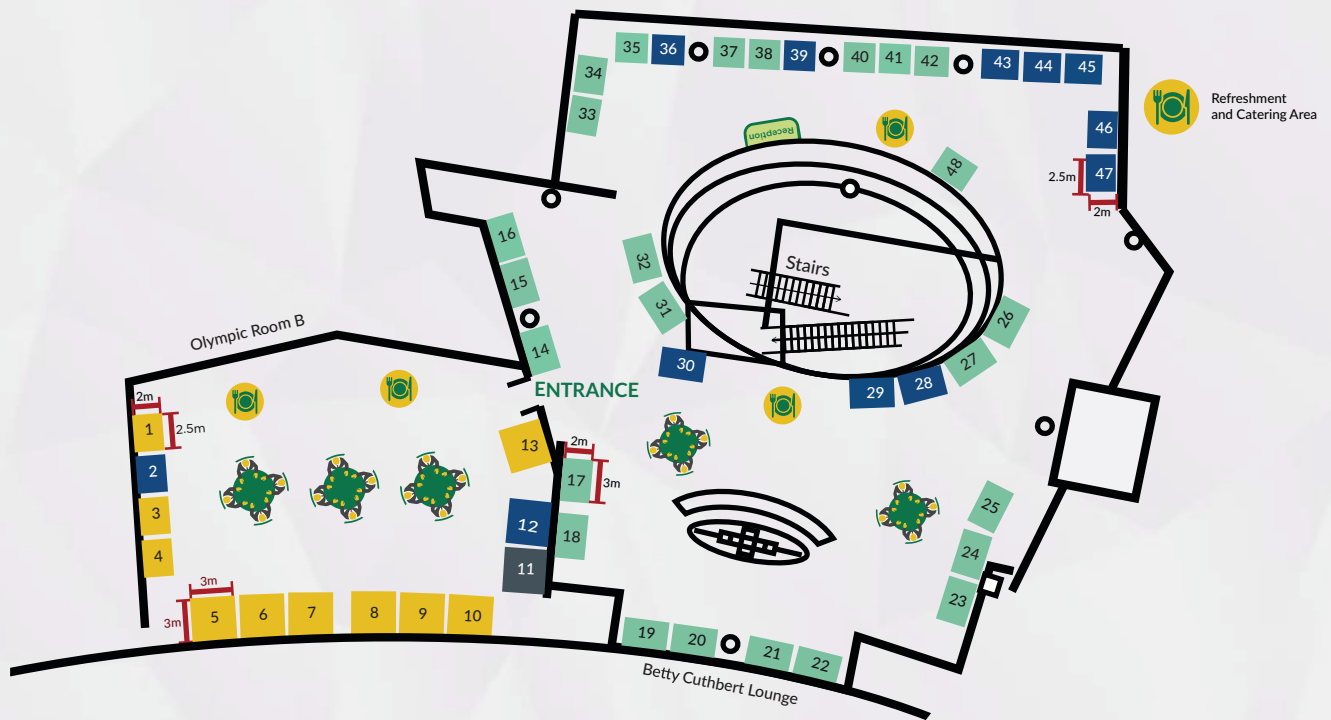
@ [Olympic Lounge](#)

Agenda Snapshot

AWARDS NIGHT & DINNER on 25th November					
Arrival and drinks 1800-1900hrs @ Percy Beames Bar Awards ceremony: 1900-2000hrs.					
Networking dinner: 2000-2130 hrs. After dinner cash bar: 2130-2200hrs. Event end: Approx. 2200hrs.					
MAIN CONFERENCE DAY on 26th November					
Time	Masterclass Zone @ Members Dining Room	Technology Zone @ Olympic Room A	Case Studies Zone @ Jim Stynes Room A	Megaprojects Zone @ Yarra Park Room	Innovations Zone @ Jim Stynes Room B
0800 - 0845	Registration, Coffee and light breakfast @ Olympics Room B & Betty Cuthbert Lounge (Partner Showcase Zone)				
0850 - 0900	Opening Remark by - Nick Stanton - Registrar for Engineers Australia				
0900 - 0930	Keynote Topic @ Olympic Room A: Project Controls as the foundation for successful relationships. Speaker: Luke Brown - Assistant Secretary Space and Communications for Defence for Department of Defence				
0940 - 1020	Session M1: The Art and Science of Independent Assurance in the Department of Defence Speaker: Teresa Blair - Department of Defence	Session T1: Collaborative Lean Scheduling Speaker: Matt Jenkins - Oracle Construction & Engineering	Session C1: Data, data, data: is there ever thing as too much? Speaker: Geoffrey Rea - Turner & Townsend	Session P1: Professionalising Project Control to enable the delivery of complex mega projects. Speaker: Simon White - BAE Systems	Session I1: Simplified Project Risk Profiling Speaker: Laurie Bowman - Synchrony
1025 - 1040	Mid-Morning Coffee Break @ Olympic Room B & Betty Cuthbert Lounge				
1045 - 1125	Session M2: Calculating project risk contingency – Expected Monetary Value (EMV) vs Monte Carlo analysis Speaker: Kazi Shiraji - Synergy Debra Wagner - Synergy	Session T2: How to Use AI When You Have Too Much Data but Not Enough Information Speaker: Rob Bryant - Ineight	Session C2: Project Controls Maturity Assessment and Roadmap: If You Can't Measure It, You Can't Improve It Speaker: Ali Dibaj - TBH, Jonathan Jacobs - TBH	Session P2: Megaprojects and Project Controls practices Speaker: Pelagia Markogiannakis - Major Road Projects Authority	Session I2: Transforming integrated project controls platform by engaging disruptive opportunities Speaker: Verghese Kochummen - Insynchro
1140 - 1220	Session M3: Evolution of project risk management: The Odyssey Speaker: Will Guthrie - HKA John Byrne - HKA	Session T3: The Future of Project Controls Speaker: James Crowell - Hexagon PPM	Session C3: Implementing Effective Project Systems and Tools Speaker: Loretta Bayliss - Prescience Group	Session P3: The Role of Risk Management in Success / Failure of Megaprojects Speaker: Santhosh Therakam - Jacobs	Session I3: Pushing the Boundaries of Cost & Time Speaker: Caitlin Shields - Mitchell Brandtman
1200 - 1230	Lunch Break (for Exhibitor ONLY) @ Olympic Room B & Betty Cuthbert Lounge				
1230 - 1300	Lunch Break (for Delegates ONLY) @ Olympic Room B & Betty Cuthbert Lounge				
1315 - 1355	Session M4: Critical Chain Project Management Speaker: Simon White - BAE Systems	Session T4: Project Management Maturity: Using Software to Setup Project Management Processes Speaker: Iulia Amariei - Ares	Session C4: Managing end-to-end business transformations in asset-intensive organizations Speaker: Vikrant Mulgund - EY	Session P4: Application of successful Project Controls and Earned Value Management (EVM) in Construction Mega Projects Speaker: Sangrah Bhatia - John Holland	Session I4: Benefiting from Industry 4.0 – Best practices for integration of IoT in construction Speaker: Matthew lickwar - Ynomia
1410 - 1450	Session M5: Experience forecasting realistic Time and Cost Contingencies for Large and Small Projects Speaker: Colin Cropley - RIMPL	Session T5: Software-based Project Cost Management & the application of Metrics and KPIs in the process	Session C5: Performance Measurement on a Connected Site Speaker: Rhys Craigie - McConnell Dowell Phil Henty - McConnell Dowell	Session P5: Risk Management on Mega-Infrastructure Projects: Combatting Complexity Underestimation Speaker: Jessica Schilling - HKA	Session I5: Why 4D is the New Standard for Project Planning? Speaker: Nishant Gujarati - SETU Projects
1455 - 1510	Afternoon Coffee Break @ Olympic Room B & Betty Cuthbert Lounge				
1515 - 1555	Session M6: How and why to run down your Contingency and methods to do this. Speaker: Romildo Votto - Turner & Townsend	Session T6: Improving Cost and Schedule Risk Analysis Maturity using Modern Quantitative Risk Analysis tools Speaker: Santosh Bhat - Australasian Project Planning	Session C6: Towards Smart Cities - Case Study For The Built Environment Lifecycle Speaker: Glenn Drew - SQUIZZ.COM	Session P6: Uncovering the Unknown Knowns Speaker: John Paterson - J D Paterson & Associates	Session I6: Improving Project Predictability with AI Speaker: Alan McFadyen - BitWinder
1610 - 1650	Session M7: Using an integrated suite to improve cost management across the Capability Life Cycle. Speaker: Stacey Wehmeier - Synergy Anthony Navarro - PRICE Systems International	Session T7: Projects controls using Microsoft 365 cloud, from process governance to cost control. Speaker: Laith Adel - pmo365	Session C7: The Complexities of Ultra Mega Project Risk Management in Ideation Phase Speaker: Abhijit Dubey	Session P7: Unlocking the Power of Project Data Analysis for Megaprojects Speaker: Darrin Kinney - Fluor Corporation	Session I7: Is innovation in PC heading in right direction and if not, whats missing. Speaker: Laurie Bowman - Synchrony, Alan McFadyen - BitWinder, Nishant Gujarati - SETU Projects, Caitlin Shields - Mitchell Brandtman
1700 - 1730	Panel discussion and Audience Q&A @ Olympics Room A : Present and future of Project Controls – in terms of profession and technology		Panel discussion member: Stacey Wehmeier - Synergy, Simon White - BAE Systems, Alex Wong - Sydney Metro, Keith Farrell - Manager – Jacobs, Loretta Hudson - EY, Melbourne, Australia		
1745 - 1845	Evening Social offering final opportunity to network with pint of beer, wine and soft drinks @ Olympic Room B & Betty Cuthbert Lounge. Open to ALL				
1805 - 1845	"Stadium tour" for pre-registered delegates.				

Partners' Showcase

Project Controls Expo is exhibiting its Partner Showcase at Highbury Suite



- Technology Service Partners
- Education, Training and Professional Bodies
- Networking Area
- Consulting & Advisory Services Partners
- NAWIC
- Pillar

Technology Services Partners	Stand			Consulting & Advisory Services Partners	Stand
Turbo Chart & Safran	14	ScheduleReader	42	Synchrony	02
Acuite	15	Shifting Media	48	Synergy	12
Risk Integration Management Ltd	16			Jacobs	28/29
Education, Training and Professional Bodies		Stand		Project Search	30
Elecosoft	17/18	Eastwood Harris Pty Ltd	01	TBH	36
Ares	19	PMI Melbourne	03	Sensei Project Solutions	39
Projection Group/Scenario	20	AIPM	04	BAE Systems	43
Hexagon	21/22	ICEC	05	Mace	44
Control Pro	23	AIQS	06	Turner and Townsend	45
Risk Decisions	24/25	AACE	07	EY	46
Autodesk (previously PlanGrid)	26/27	EA/SESA/EEA	08/09	HKA	47
BitWinder	31/32	ACES	10		
InSynchro	33	PCI	13		
EPM Partners	34				
Prescience	35				
Ineight	37/38				
Cleopatra	40				
Charity		Stand			
Oracle/Aconex	41	NAWIC	11		

Partners

Sponsorship Level - Supported By



AAACE International (Association for the Advancement of Cost Engineering) has 8,500 members in 100 countries, and has been serving the total cost management community since 1956. We are committed to the constructive exchange of ideas between members, development of technical guidance and quality education and recognition of subject matter experts. Our members work in a variety of disciplines and across all industries.

Members get free access to digital editions of AAACE's TCM Framework® (Total Cost Management Framework®).

Total Cost Management Framework® : An Integrated Approach to Portfolio, Program, and Process Management, 2nd Edition and the Recommended Practices (RPs) which are a series of documents that contain valuable reference information that has been subject to a rigorous review process and recommended for use by AAACE's Technical Board. Our members read the best in technical articles published in Cost Engineering journal or Source magazine. Our members also have free access to search over 5,500 of technical articles in AAACE's Virtual Library and they can also network with other professionals at the Annual Meeting, at local section events, or virtually within the AAACE Communities.

For over 40 years AAACE has been certifying individuals. AAACE offers the following certifications: Certified Cost Professional (CCP), Certified Cost Technician (CCT), Certified Estimating Professional (CEP), Certified Forensic Claims Consultant (CFCC), Earned Value Professional (EVP), Decision and Risk Management Professional (DRMP), Certified Scheduling Technician (CST) and Planning & Scheduling Professional (PSP). AAACE's CCP, CCT, CEP, EVP, and PSP certifications are independently accredited by the Council of Engineering and Scientific Specialty Boards.

Website: <http://web.aacei.org/>



The Australian Institute of Project Management has been Australia's peak body for project management for 42 years. It advocates for project leadership excellence across all industries and drives the professional development of project leaders.

It is the industry's voice to government at all levels.

AIPM engages with organisations to support the development of project leaders and with individuals to actualise their career ambitions in project leadership, through a range of competency-based training and development.

As organisations lift the bar on delivering projects on time and on budget, the roles of project managers and project leaders has never been more critical.

Website: <http://www.aipm.com.au/>



Australian Institute of Quantity Surveyors (AIQS) is a professional standards body. Through its leadership, standards and code of ethics, it ensures that practising Quantity Surveyors are dedicated to maintaining the highest standards of professional excellence.

AIQS is a national organisation with Chapters and Divisions in all States and Territories. It also has a strong overseas membership and is the Australian peak body to the International Cost Engineering Council and the Pacific Association of Quantity Surveyors.

AIQS welcomes members from all countries.

Website: <https://www.aiqs.com.au/>



The mandate of the Australian Cost Engineering Society (ACES) is to support professional development of the skills required to control time, money and change on major projects.

Our members have considerable experience in control of cost and time on all size projects but for some there is a particular focus on engineering construction projects of the \$100 million plus range. The specialist project control skills applied on large and mega projects are also applied by our members to other types of projects such as building, maintenance, software and other highly technical projects.

We have common cause with a number of other professional groups such as Quantity Surveyors, Project Management, and aspects of Chartered Accounting. However we bring specialist hands-on skills for reliable control of complex and significant projects to deliver a defined scope within cost and time targets. Some of these project control skills are generally known as planning, scheduling, estimating, budgeting, financial analysis, forecasting, contract management and change control. We bring an integrated and targeted approach to control of projects.

Website: <https://www.engineersaustralia.org.au>



Engineers Australia is the largest and most diverse body of engineers in Australia. As Australia's principal engineering association we serve and represent around 100,000 professionals at every level, across all fields of practice. We are committed to advancing engineering and the professional development of our members.

We are the trusted authority of a profession that shapes the lives of every Australian. With countless organisations, institutions and government agencies relying on our expertise to create, accredit and assess engineering programs and practitioners, our proven dedication to engineers and the Australian industry is unparalleled.

With a rich history and awards programs to highlight the dedication and accomplishments of engineers, we have created a legacy

for all to take part in. And with diverse groups and thousands of events each year, we have created a unified forum for engineers like no other.

Explore the pages below to find out more about Engineers Australia and gain a better understanding of its governance, advocacy and many regional facets.

Website: <https://www.engineersaustralia.org.au>



Founded in 1976, the International Cost Engineering Council (ICEC) is a not for profit organisation that promotes cooperation between national and multinational Cost Engineering, Project Controls, Quantity Surveying and Project Management professional associations around the globe.

ICEC is an umbrella organisation that represents these associations with its membership currently comprising 42 professional associations spread throughout the world. ICEC collectively represents more than 120,000 professionals from over 100 different nations in the fields of Cost Engineering, Project Controls, Quantity Surveying and Project Management. These professionals are all members of ICEC member associations.

The organisation is divided into 4 geographical regions: Region 1 - North and South America; Region 2 - Europe and the Near East; Region 3 - Africa; and Region 4 - Asia Pacific.

The mission of ICEC is to provide a global identity for these professional fields and an international network to share information, knowledge and best practices to help advance professional standards across the world

Website: <http://www.icoste.org/>



Founded in 1969, The Project Management Institute (PMI) is the leading membership association for the project management profession.

It is an international not-for-profit professional organisation dedicated to the advancement of project management excellence through professionalism. PMI delivers value for more than 2.9 million professionals working in nearly every country in the world through global advocacy, collaboration, education and research.

PMI advance careers, improve organizational success and further mature the profession of project management through our globally recognized standards, certifications, resources, tools, academic research, publications, professional development courses and networking opportunities.

Given the global reach of PMI, members have the opportunity to join local chapters to network and share knowledge amongst other things.

PMI's Melbourne Chapter serves the state of Victoria and was formed in 1995 and registered with the PMI on 1st January 1996. Chapter members are employed across all industries with a majority in the Information Technology, Telecommunications and Construction.

The Melbourne Chapter events are great forums for Project Management professionals to learn essential elements of succeeding in business and networking with other professionals.

Website: <https://www.melbourne.pmi.org.au/>

Sponsorship Level - Platinum Sponsor



InEight combines proven technology with a unified vision, delivering actionable insights and project certainty to more than 300,000 active users in more than 750 companies. Built on a history of construction and engineering excellence, InEight solutions help companies visualise, estimate, manage, control and connect all aspects of capital

and maintenance projects. With configurable, integrated and field-tested solutions, InEight customers have the visibility and predictability required for on-budget and on-time project completion. Based in Scottsdale, Arizona, U.S., InEight, an ISO 27001-registered company, is a subsidiary of Kiewit Corporation (Kiewit). Kiewit, through its subsidiaries, is one of North America's largest and most respected construction and engineering organisations.

Website: <https://ineight.com/>



Founded in 1999, Synergy has grown to become one of Canberra's leading professional services firms. We are government specialists delivering a truly collaborative approach to navigate important challenges and provide practical solutions.

Through partnerships with our clients, we offer guidance and support across a broad range of capabilities — operating independently and in unison. From a small project to a large scale transformation, we provide an end-to-end, whole-of-life service, from strategic planning to change management, creative, digital technologies, financial management, resourcing, and more. Our personable and experienced consultants comprise some of the best talent across a diverse range of disciplines with genuine depth of expertise and understanding of the unique challenges that impact government.

As a leading employer, we work hard to empower our people every day. We are values-driven, and purpose-led — caring for our staff, valuing the work they do, and offering every opportunity to develop individually and as a collective. We take the same approach with our clients, resulting in strong relationships underpinned by confidence, high performance, and results.

Website: <https://synergysgroup.net.au/>

Sponsorship Level - Gold Sponsor



ARES PRISM is an enterprise project controls software that manages the complete project lifecycle delivering dependable forecasts, cost control, and performance measurement. Organizations around the world rely on PRISM to manage projects, programs and portfolios of growing size and complexity in a variety of industries;

including infrastructure, engineering & construction, oil & gas, mining, utilities and aerospace. PRISM is a scalable, robust and intuitive system that harnesses industry best practices and integrates all aspects of the project, including cost and schedule, change management, estimating, earned value, contracts & procurement, and field progressing. Business intelligence reports and dashboards provide organizations with the transparency required to pinpoint potential problems and make strategic decisions. As an out-of-the-box solution, PRISM delivers benefits quickly with a fast implementation and knowledgeable team of experts dedicated to client success. Achieve superior project management with increased visibility and control, boosted accuracy and efficiency, and improved financial performance.

Website: <https://www.aresprism.com/>



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Website: <https://www.engineersaustralia.org.au>



At BAE Systems, we help our customers to stay a step ahead when protecting people and national security, critical infrastructure and vital information. We provide some of the world's most advanced, technology-led defence, aerospace and security solutions and employ a skilled workforce of more than 83,000 people in more than 40

countries. From state of the art cyber threat detection to flight control systems that enable pilots to make better decisions, we never stop innovating to ensure that our customers maintain their advantage. This is a long-term commitment involving significant investments in skills. We also work closely with local partners to support economic development through the transfer of knowledge, skills and technology.

Website: <https://www.baesystems.com/en-uk/home>



Cleopatra Enterprise offers an integrated Project Cost Management solution through the entire project life cycle by including Cost Estimating, Scheduling, Cost Management, and Benchmarking in one system.

Using the state of the art technology, Cleopatra serves the process industry and is used by Owners, Contractors and EPC firms.

Over 20 years, Cleopatra has enabled more than 500 industry-leading companies in 75 countries to control large technical projects, improve their project performance and stay ahead of the competition.

Website: <http://www.costmanagement.eu>



Engineers Australia is the largest and most diverse body of engineers in Australia. As Australia's principal engineering association we serve and represent around 100,000 professionals at every level, across all fields of practice. We are committed to advancing engineering and the professional development of our members.

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Explore the pages below to find out more about Engineers Australia and gain a better understanding of its governance, advocacy and many regional facets.

Website: <https://www.engineersaustralia.org.au>



- Ernst & Young LLP is a professional services company. The company provides assurance, auditing, technology and security risk, enterprise risk management, transaction support, merger and acquisition, actuarial, and real estate advisory services.

- At EY, we are committed to building a better working world – with increased trust and confidence in business, sustainable growth, development of talent in all its forms, and greater collaboration.

- We want to build a better working world through our own actions and by engaging with like-minded organisations and individuals. This is our purpose – and why we exist as an organisation. When business works better, the world works better.
- Running through our organisation is a strong sense of obligation to serve a number of different stakeholders who count on us to deliver quality and excellence in everything we do.
- We want to use our global reach and scale to convene the conversation about the challenges facing economies and the capital markets.

Website: <https://www.ey.com/au/en/home>



Hexagon is a global leader in digital solutions that create Autonomous Connected Ecosystems (ACE). Our industry-specific solutions create Smart Digital Realities™ that improve productivity and quality across manufacturing, infrastructure, safety and mobility applications. Hexagon's PPM division empowers its clients

to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

Just one of Hexagon PPM's solutions is EcoSys, an Enterprise Project Performance (EPP) platform for Project Portfolio Management, Project Controls and Contract Management. Just like an ERP system delivers a singular view of your organisation's financial performance. Enterprise Projects Performance delivers the same for the entire lifecycle of your capital projects – effectively combining native data with that from any number of external sources. The result is organisation-wide transparency that changes negative behaviours, improves decision making, and drives timely corrective action.

Projects are a vital economic engine for your organisation. By rethinking the way you approach them, you can start a wave of change that propels you toward success. Whether you're an executive tasked with digitally transforming your entire business, or a project professional wrestling with ever-increasing project complexities and demands in a sea of point solutions and spreadsheets, an Enterprise Project Performance platform strategy will give you the consistency and clarity you've been dreaming about.

Partnering with Hexagon PPM to launch an Enterprise Project Performance (EPP) strategy will arm you with a centralized, standardised approach to improving the performance of every project. Achieve the efficiency, predictability, and control necessary to succeed in the face of today's complex challenges.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 19,000 employees in 50 countries and net sales of approximately 3.5bn EUR. Learn more at hexagon.com and follow us @HexagonAB.

Website: <https://hexagon.com/>



InSynchro has almost 2 decades of experience in designing, implementing and supporting highly effective integrated project controls solutions.

Our clients represent most industry sectors as well as government, and the solutions we have implemented range from controls for a single-project through to enterprise-wide systems for project intensive multinational organizations.

Our offering combines industry expertise with precise implementation skills which enables us to develop functional solutions that help our clients realize the full potential of each project, and simplify the process of maintaining control over multiple projects.

Whether you are implementing a world class integrated plan for linear projects or EPC projects or STO projects, inSynchro has been the partner of choice to help leading companies in their rollout of integrated planning and scheduling using its in-house developed Integration Manager. With more than 75 sites established worldwide, Integration Manager has been a key enterprise enabler across many Fortune 500 companies in the Construction, Oil and Gas, Mining, Aviation, Utilities, Telecommunications and other industries.

Another strong solution developed by inSynchro would be the Executive Eye. Designed by CEOs to present project progress updates to Executive and Senior Management Stakeholders, Executive Eye demystifies complex project performance reports into easy to understand visual and business friendly metrics. Developed for rapid absorption and mental project progress visualization, Executive Eye complements and augments progress reporting from MS Project Online or Oracle Primavera P6. Rich content feeds from project site, supplemented with additional project perspectives and historical trends give stakeholders a deeper understanding of present performance to gauge future performance with increased reliability.

In a dynamic environment, where new technologies continue to offer new possibilities, we continually build and refine our capabilities and work closely with partners and clients to ensure we are offering the best products and services, and delivering unequalled operational performance.

Website: <http://www.insynchro.com/>



Jacobs leads the global professional services sector providing solutions for a more connected, sustainable world. With approximately \$12 billion in revenue and a talent force of more than 50,000, Jacobs provides a full spectrum of services including scientific, technical, professional, construction and program management for business,

industrial, commercial, government and infrastructure sectors.

Our Project, Program and Portfolio Management (P3M) team provide a comprehensive suite of services that streamline, safeguard and add value to any collection of complex or complicated projects. We thrive on tough challenges and believe in creating collaborative, trusted relationships that deliver lasting benefits in partnership with our clients.

Our approach to delivering P3M services is a little bit different. Every client and project comes with a unique set of conditions, constraints and challenges. With these things in mind, we develop customised solutions that deliver the best for your projects, your customers and your organisation. Solutions are delivered by the right team of people, drawn from across our global P3M team, to ensure the right set of skills are brought to bear on your projects. In this way, we offer the benefits of a local team backed by the strength of our global operations, with real experience delivering some of the world's largest and most significant projects and programs for clients around the world.

Whether we are helping you migrate to an enterprise-wide program delivery model or establish a PMO, assuming responsibility for project and program delivery, supplementing your organisation with project services such as cost estimating, developing a business case or project controls or building you a bespoke project management information system – we take leading practice from around

the world and merge it with your own vision and objectives to provide you with a unique, customised solution that draws on the latest technology and industry leading practices.

Website: <https://www.jacobs.com/>



Drive Performance Across the Project and Asset Lifecycle: Asset owners and project leaders rely on Oracle Construction and Engineering software for the visibility and control, connected supply chain, and data security needed to drive performance and mitigate risk across their processes, projects, and organization. Feel confident in your digital transformation with modern cloud solutions that grow and scale with you at every step of your journey. Enable efficiency, collaboration, and change control for your teams that plan, build, and operate critical assets.

Website: <https://www.oracle.com/au/industries/construction-engineering/index.html>



PCI aims to offer blended learning program covering full spectrum of Project of Project Controls comprising all its base elements (Planning & Scheduling, Cost Engineering and Estimating, Change Management, Risk Management, Delay Claims and Forensic Schedule along with Contract Management) that leads to global accreditation. PCI's

USP is its unique content, delivery (blended approach) and Framework which allows candidates to map their learning/education to global certifications (eg., AACEI, APM, ECITB and PMI). The Programme participants are expected to achieve an improved level of competency through self-learning along with Handbook available to all the delegates.

Website: <http://www.projectcontrolsinstitute.com/>



pmo365 is a complete Project Portfolio Management (PPM) solution built on your own Microsoft 365 platform. It offers fully managed and supported packages, specific to your industry, size and project management maturity - as a monthly service.

pmo365 is the optimal way to digitise Project Portfolio Management (PPM) in your organisation. It will bring visibility to your fragmented project and program data, drive process consistency, and allows you to prioritise the portfolio. Deployed to your own Microsoft 365 platform using application such as Project Online, SharePoint, PowerBI, Planner and Teams, it becomes your centralised, single-source of truth: your PPM one-stop-shop.

Website: <http://www.pmo365.com/>



Prescience Technology is an award-winning consultancy, providing Project Management, Technology and Training services to support capital-intensive projects. We work collaboratively with clients to provide outstanding value every time.

For more than a decade we have helped deliver Australia's largest capital projects. With vast experience in PMO transformation, we provide a comprehensive portfolio of project controls technology solutions.

Our reputation for implementing and supporting Oracle Primavera, Deltek Acumen, Basis and InEight is unrivalled, with each of these solutions clear market leaders to help complete your projects on time and within budget.

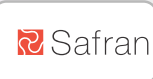
Website: <https://www.prescience.com.au/>



Risk Integration Management Pty Ltd (RIMPL) is a company specializing in Critical Path Method-based Integrated Cost & Schedule Risk Analysis (IRA). The RIMPL Team has been doing project Quantitative Risk Analysis work since 2003 and fully integrated cost & schedule risk analyses since 2008. Projects ranging in value from a few

million dollars to more than \$15 billion dollars have been quantitatively analysed by the RIMPL team from many industrial sectors, including the oil & gas, mining, manufacturing, engineering construction and infrastructure sectors. In the last two years, RIMPL has pioneered the assessment of Systemic Risk using Parametric modelling (based on multiple-linear regression, as developed by John K Hollmann from the work of John Hackney, Rand Corporation and others) combined with RIMPL's own IRA methodology. RIMPL is applying this combined methodology to assessing the cost and schedule risk in projects. RIMPL also represents John Hollmann's company Validation Estimating LLC (ValidEst) in Australia and New Zealand.

Website: <http://www.riskinteg.com/>



Safran Software Solutions has offices in London and Stavanger and operates through partnerships globally as a leading provider of Enterprise Project & Risk Management (EPRM) software solutions to project and asset intensive industries. Safran is recognized globally for streamlining the EPRM process while elevating project delivery

delivery confidence through its integrated project and change management capabilities, with a special emphasis on embedded and available risk management. Safran prides itself on the speed of user adoption and time to value achieved through its streamlined integrated approach.

Website: <http://www.safran.com>



Synchrony is a training organisation specialising in integrated Project Control and Assurance. We are passionate about improving the project control and risk management capability of our clients so that their portfolios, programs and projects are more successful and deliver value.

We specialise in delivering tailored project assurance, risk and performance management workshops, including coaching and supporting clients with frameworks for optimising portfolios and improving maturity in project controls.

Synchrony is a trusted adviser to leading organisations in industries such as Transport, Defence, Aerospace, Mining, and Oil & Gas. We combine the best practices in project planning, cost engineering, risk management and contract administration, to provide

support and advice that is in the absolute best interests of our clients. Through constant planning, coaching and communication we are able to deliver uncompromised value to our clients in the form of risk reduction, improved reporting and forecasting, reduced disputes, and improved cost and schedule performance.

Website: <http://synchrony.net.au>



Linear Project Software develops tools for owner and contractor organisations to visualise and improve their linear project scheduling outcomes, through the benefits of Time Location charting.

Turbo-Chart has been designed to work easily and quickly from your existing scheduling systems and is developed from over 20 years industry experience and knowledge in Infrastructure & Engineering Construction and Project Management software development.

Website: <http://www.turbo-chart.com/>



Founded in 1965, TBH is one of the most respected project management consultancies in Australia, with an international presence and a reputation for independent, objective and innovative professional services. With in-house expertise TBH is equipped to handle the diverse tasks of project management at any stage of a project's life

cycle. TBH can perform our specialist services either as a complete project management solution, in association with other specialists, or as an integrated part of our clients' team. Free from affiliations with external agencies or companies, TBH provide completely independent advice with the highest ethical and professional standards to clients across Australia, New Zealand, Asia and the Middle East. A specialist and expert consulting firm, TBH excel in planning and scheduling, integrated project controls, claims and dispute resolution, P3M, cost management, and project management.

Since our first major commission in 1977, when TBH undertook time and cost management of the \$200 million NSW SRA state-wide Track Upgrading Project in Australia, TBH has undertaken 1000's of projects both across Australia, and internationally in a range of different industries. We partner with our clients to empower their projects, by using the in-depth knowledge we have acquired to develop, implement and maintain the time, cost, risk and reporting functions across each stage of a project's lifecycle.

Website: <http://tbh.com.au/>



Turner & Townsend is an independent professional services company specialising in programme management, project management, cost management and consulting across the real estate, infrastructure and natural resources sectors.

With 108 offices in 45 countries and over 5,300 staff, we draw on our extensive global and industry experience to manage risk while maximising value and performance during the construction and operation of our clients' assets.

Website: <http://www.turnerandtowntsend.com/>

Sponsorship Level - Silver Sponsor



Acuite revolutionizes the managing and reporting of project performance by collecting critical data from across your platforms in real time against industry specific KPIs, such as Time, Cost, Quality, Health & Safety and Relationships. The smart application aggregates the data - analyzing trends to showcase all of the critical

information you need to understand risk via intuitive, easy-to-use customizable dashboards giving you the opportunity to report in real time, pinpointing areas of concern and forecasting outcomes."

Website: <https://acuitechq.com/>



Autodesk Construction Cloud combines next-generation technology, a robust network of professionals and firms, and powerful predictive analytics to help your business thrive across all phases of construction.

Trusted by more than 1M+ Autodesk Construction Cloud users in 143 countries. For more information please contact acs.apac@autodesk.com

Website: <https://www.autodesk.com/>



BitWinder is a technology startup company based in Brisbane, Australia, founded by Alan McFadyen. BitWinder, has conducted research and development into how artificial intelligence can improve the predictability of project time and cost outcomes. BitWinder's belief is that every dollar lost in the past has the power to prevent you losing the same dollar again in the future - if you can learn from it. BitWinder provides organisations with artificial intelligence-based tools they need to do just that - learn from their projects to improve project time and cost outcomes.

Website: <https://bitwinder.com/>



ControlPro is a cloud based tool that helps large projects visualise and manage cost and performance data. A stable and secure platform built to handle large volumes of data, ControlPro focuses on analysing data and optimising project outcomes by driving efficiency and managing/mitigating developing issues.

More than \$22bn of current infrastructure projects in Australia are being actively tracked with ControlPro.

By connecting and aggregating primary project data (cost, time, scope), ControlPro calculates project performance using Earned Value (EV) without the requirement to change existing systems. ControlPro keeps a baseline of all parameters, time-phased against planned start and finish dates for activities. As a project progresses, actual (historical) data can be plotted against baseline data and shown next to forecast data.

ControlPro gives Project Directors transparency on how a project is progressing against performance measurement baseline data, and how past performance compares against future forecast performance.

ControlPro has all the performance parameters Project Controls Managers require; time, cost, scope, quantities, EV and contingences. As well as performance metrics, CPI, SPI and productivity. All data is available via intuitive web dashboards that can be easily shared with project team members and/or external stakeholders. ControlPro allows users to drill into underlying data to discover what is driving performance at the click of a mouse!

For more information about ControlPro, please visit controlpro.cloud

At the 2019 Expo we are excited to launch RiskTrend, our new risk management tool. Designed for projects and project managers, RiskTrend has been developed in conjunction with industry partners specifically to manage financial risk in a project context.

RiskTrend allows project financial risks (threats and opportunities) to be tracked over time along with related Controls and Actions. It can be used as an addition to ControlPro, or as a standalone tool.

For more information about RiskTrend, please visit risktrend.com

Website: <http://controlpro.cloud/>



Eastwood Harris specialises in Microsoft Project, Oracle Primavera P6 and Asta Powerproject books, training and consulting by:

Publishing scheduling software books and training material

Running planning and scheduling training courses

Assisting companies to establish corporate scheduling systems.

Books and Training Material

Eastwood Harris publishes books and instructor PowerPoint slide shows which are Registered with the PMI. These books may be used as reference books, self-teach books or as training course handouts.

Training Courses

Eastwood Harris offers in-house or one to one training to get your new schedulers up and running quickly, without the delay waiting for the next course and at the same time build up you own project schedule.

Primaskills Pty Ltd uses Eastwood Harris Orical Primavera P6 books for their public P6 training courses that are available in Sydney, Melbourne, Brisbane and Perth.

Consulting and Implementation of Project Scheduling Systems

Eastwood Harris will write specialised training material and procedures that will roll in your organisation's methodology into the Eastwood Harris training manuals. We assist clients in the implementation of scheduling systems to ensure a smooth transition from your old system to your new system. This includes the installation and configuration of the software, designing coding

Website: <https://www.eh.com.au/>



Elecosoft provides a range of software solutions focusing on the architectural, engineering, construction and property management industries which help users with challenges ranging from interiors visualisation through architectural design and stair engineering, to project and site management and cost estimation, and more. The

company's core application, Powerproject, is a powerful, project, portfolio and resource management solution designed to support the way construction planners work. Since it launched in 1988, the software has evolved with users' input so that it specifically meets the needs of the industry. Used by large and small businesses alike, it is the preferred software of construction professionals throughout the world for managing projects as it combines easy to use drag and drop functionality with powerful feature rich capability. Powerproject has been used on construction projects around the world, including The Shard in London, First Direct Arena in Leeds, Warsaw Metro in Poland and the Bosphorous Bridge that links Europe to Asia.

Available in stand-alone, enterprise and cloud versions, Powerproject includes an integrated BIM module which brings 4D planning within affordable reach by combining 3D planning and scheduling in one application. Powerproject BIM can combine with Elecosoft's costing tool, Bidcon, to deliver a full 5D BIM solution to drive greater collaboration and efficiency benefits.

Website: <https://www.elecosoft.com>



Mace is an international consultancy and construction business. It shapes the cities and communities of the future by connecting clients, communities, suppliers and partners.

It is proud of its culture to champion people, whether as individuals or teams. Its people constantly strive for better and always go that extra mile, inspiring each other and clients to innovate.

The company challenges convention, applies a "can do" attitude and is committed to quality and service excellence.

Mace employs an open and collaborative approach with partners. This gives a better perspective on how cost-effective and beneficial outcomes can be delivered for all stakeholders on every project, no matter how complex or challenging it is.

Everyone at Mace strives to find better ways to deliver for clients, communities and the construction industry. The company constantly challenges the status quo, and makes the seemingly impossible, possible, and will always do so.

Website: <https://www.macegroup.com/>



Planning Planet is the worlds' largest on-line community of Project Control personnel including Planners, Schedulers, QS, Cost Engineers and Forensic Planners with in excess of 120,000 members. Founded more than 15 years ago the site has representation from 150+ countries throughout the world with members employed by the

worlds largest project delivery organisations across all industries from Oil and Gas to Transport, Heavy Civils, Construction, Pharmaceuticals and many more we are experiencing serious growth.

Planning Planet: Where the best planners, schedulers and project controllers network every day.

Website: <http://www.planningplanet.com/>

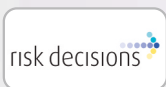


Whether it is keeping management informed, or connecting your teams, Scenario will manage your information and processes across your projects. Scenario acts as a common platform connecting your internal Team members with the wide range of external parties working together on your projects.

Scenario is proven software, with over 20 years of experience on large to mega Projects. Our software is designed for the Enterprise, a Portfolio, or a single Project. Our software and services are targeted at Project Delivery, Mining, Energy, Infrastructure and Property Development covering Information Management, Project Delivery and your Workforce.

We bring structure and control to your information, commercial and compliance processes. We provide control, visibility and confidence across your projects from concept to handover, and full operations. We recognise our real value is to work with you, grow and adapt as your business and industry changes, and collaborate with you in both a timely and cost effective manner. We look to engage in proactive relationships, not reactive – and work best with Clients to improve your bottom line performance.

Website: <https://projection-group.com/>



At Risk Decisions, we work with our customers to power growth and sustainability through risk management.

Our team of technical experts get the world you live in. We design the right risk strategies to transform risk to opportunity and drive your business's goals. It's why our customer community collaborates with us to help release their potential, create new growth pathways and connect their people's engagement with risk at all levels.

We understand your risk challenges. We care about shifting your risk journey.

We can lead your organisation to a new risk strategy.

Website: <https://www.riskdecisions.com>

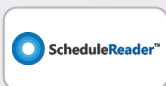


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Website: <https://projection-group.com/>



Seavus® is a software development and consulting company with a proven track-record in providing successful enterprise-wide business solutions. The company has over 900 IT experts worldwide and offers a variety of products and service options, successfully covering the European and US market from several offices in the world.

Their expanding portfolio covers: BSS/OSS, CRM, CEM, Business Intelligence solutions, ALM, embedded programming, business and consumer products, mobile and gaming solutions, managed services, as well as custom development, consultancy and resourcing. Seavus portfolio includes over 3,500 customers, among which leading worldwide telecoms and handset manufacturers, organizations from the banking and finance industry, consumer electronics, technology, education, government, health, etc.

Seavus® is a globally authorized master distributor for the following software solutions:

Seavus Project Viewer™ is a cost-effective software solution for viewing Microsoft® Project Plans. As the leading viewer for opening .mpp files, trusted by 6 million+ users, it offers variety of features for the people that don't have a need of a full Microsoft® Project license.

Website : <https://www.seavusprojectviewer.com>

ScheduleCleaner™ is a tool designed to allow project schedulers, planners, managers and other users to remove or anonymize sensitive and confidential data within XER project files, prior to sharing these schedules with different project stakeholders or uploading to any database.

Website : <https://schedulecleaner.com/>

ScheduleReader™ is a simple to use viewer for .XER, .XML and .XLS project schedules exported from Oracle® Primavera® P6®. It is a standalone application that offers greater control by providing each user with clear activity insights of project data.

Website: <https://www.schedulereader.com/>



Sensei Project Solutions is a customer focussed, world leader in Microsoft productivity solutions, providing a platform to help align organisational, team and individual goals in order to achieve business goals by bringing clarity to all levels of your Project, Portfolio and Work Management.

Sensei achieves this with our team of passionate experts: highly experienced subject matter experts and our leading edge Microsoft focussed technical team. Sensei also has a dedicated professional training team and an Australia based Customer Care team to

provide on-going support and advice to our customers.

The solutions Sensei delivers are based on industry standards and best practise where users can use the most suitable tools for them to do their job, collaborate with their team while ensuring governance is adhered to and data is trustworthy, reportable and visible to Executives.

Website: <https://www.senseiprojectsolutions.com/>



Shifting Media SHIFT is an innovative design and media agency with a passion for Visual Design Solutions and Virtual Construction. Through years of experience our team have the skills and knowledge to bring your projects and procedures to life. Working to global standards, we use the latest technology to create accurate and reliable drawings, conversions, animations and sequencing ready for use in tenders.

Gantt - At Gantt we are building Australia's largest network of independent programmers for construction and development to connect easily with builders.

Website: <https://www.shifting-media.com/>

Sponsorship Level - Supported non for profit volunteer association



NAWIC is a not-for-profit organisation, run by volunteers, formed to promote and improve the construction industry by the advancement of women. NAWIC offers members an opportunity to expand personal networks, maintain awareness of industry developments, improve skills and knowledge, and make a contribution to women in the construction industry. This is achieved through a variety of professional events, awards, educational series, and scholarships. NAWIC ACT is aligned with key advocates who share the NAWIC mission and values, this achievement affords our members guaranteed support and opportunity and gives them a voice on key issues.

Website: <https://www.nawic.com.au/>

Bronze Sponsor



HKA is one of the largest providers of advisory, consulting and expert services in our markets; firmly establishing itself as a leading strategy, program management, project development, project delivery, commercial claims consulting, and expert firm.

HKA understands the pressures associated with delivering successful projects, whatever their size and complexity, wherever in the world. HKA's worldwide operation consists of more than 960 professionals in 42 offices across 22 countries. We have the ability to draw on our global network so our clients can rapidly access a team of qualified, specialist staff with international experience to assist with meeting any local project challenge.

Employing the leading professionals in our industry, we continue to invest in our workforce and technology to ensure we always offer a market-leading knowledge base. This, combined with our unbiased and passionate dedication to every project, ensures that we deliver a service that always exceeds expectations.

HKA has a long track record of involvement with some of Australia's largest projects; working closely with clients and projects of all sizes and nature – from non-profit organisations to government departments, and from some of Australia and the world's largest companies to boutique firms. As trusted independent advisers, consultants and experts, HKA finds solutions amid uncertainty, dispute and overrun, and provides the insight that make the best possible outcomes a reality for public and private sector clients worldwide.

HKA has designed, established and operated a very significant number of project, program and portfolio management offices globally. PMO's are a core product of HKA which means that we bring a tried and tested toolkit of processes, procedures and documents as well as the know-how in establishing and managing lean, high performing PMOs.

Website: <https://www.hka.com/>



John Holland is up for the challenge of transforming lives. From humble beginnings almost 70 years ago, John Holland has been driving positive change in Australia, and is now one of the nation's leading integrated infrastructure and property companies. From Parliament House to the Alice to Darwin Rail Link, from the MCG's Great Southern Stand to Sydney Metro, we've had a hand in the Australia we all know today. We are currently involved in delivering many of Australia's largest infrastructure projects, as well as significant property and urban renewal projects. Whatever we face, the heart of what we do is creating people-centred solutions to complex challenges and opportunities. We think deeply about what we do and how it affects communities. We push boundaries and innovate, gain trust through our actions and whatever the project, we're in it for the long, long term. Object Management professionals to learn essential elements of succeeding in business and networking with other professionals.

Website: <https://www.johnholland.com.au/>



5D Quantity Surveyors – We Estimate from Models

Mitchell Brandtman is a home grown Australian company that was launched in 1970 with a mission to provide our clients with comprehensive, quantity surveying and construction expert opinion services. Throughout the years, our company has gained extensive experience from more than 24,000 projects of many types, sizes, locations, procurement methods and construction techniques and grown to service the construction industry in Australia and globally.

With offices along the East Coast and regional representatives throughout Australia, we are well positioned to work with clients to provide significant cost savings through our market knowledge, unique thinking and extensive experience with projects across the country.

Through advances in design and measurement technologies, Mitchell Brandtman has embraced BIM (Building Information Modeling) and 5D estimating and cost planning. Our team advocates collaborative design to create cost certainty and more easily achieve high performance and sustainable buildings.

The 5D Cost Management Methodology we apply follows the traditional QS project pathway and leverages modern 5D QS techniques, allowing for accurate and timely cost and time analysis at any point throughout the design process, during construction and post construction. Mitchell Brandtman can create quantity take-offs and cost plans that are automated and revised endlessly throughout all phases of design, which we see as imperative to any project to provide you with an updated cost of the project which can be used for budget purposes, financial investment decisions and comparison to tenders and quotations.

Website: <https://www.mitbrand.com/>



Setu Projects is a Project Advisory Consultancy. From concept to completion, we resolve problems and harness opportunities to add value and enhance bottom-line success of the project and Client. Our services range from one-off advisory and task management to full project management through sense of ownership. We provide Project

Advisory for Strategic advice, Transaction Management, Claims and Dispute Resolution; Programming & Scheduling, 4D Planning, Program diagnostics & forensic investigation.

Website: <https://www.setuprojects.com/>

Jobzone Partner



We connect people to projects and organisations across the infrastructure, engineering & construction sectors.

Project Search has an unmatched understanding of the market for engineering and project services talent which is competitive and one where candidates are selective of their moves and timing. There are limited quality “passive” candidates who are not actively searching which need to be found, engaged, articulated to and persuaded.

We have 14 years’ experience recruiting on major capital works infrastructure programmes for client side, consulting and contractor organisations. As well as an impressive track record within engineering, project management and cost management across Australia, UK, Europe, The Americas and The Middle East.

Our capability and searches have included Project Directors, Programme Controls/Planning, Commercial/Contracts Management, Alliance Leaders, Delivery Managers, General Management, Pre-Contracts, Construction, Engineering & Systems Leaders, Project Advisory Consultants, Transport Economists, Infrastructure Advisory, Civil Engineering Managers/Engineers.

We implement research-based search processes designed to uncover talent in the skill shortage areas. Our market expertise and our unique risk mitigation methodology ensures every candidate is fully referenced, vetted and resulting in successful outcomes being achieved, every time.

Over the next 10 years, the Australian Government is investing near \$300 billion toward transport infrastructure across Australia. Victoria has \$47 billion already funded with \$50+ billion at planning stage with NSW similar and Queensland Circa \$26 billion.

These projects are about meeting the challenges of the present and the future. As such, they require the cooperation of governments, investors, advisors, specialist consultants, construction companies as well as the relevant communities.

As a result, project and engineering professionals with infrastructure experience, specifically rail, are increasingly difficult to source, due to competition amongst multiple authorities, contractors and consultancies.

Project risk mitigation and front-end planning has never been as diligent as it is today.

We’re seeing significant shortages of candidates with large scale project leadership experience (D & C, Alliancing, EPCM) and skills in business case development & writing, optioneering, planning, contracts management, governance, project health checks, project delivery, civil engineering and specific rail engineering disciplines.

We look forward to supporting you with your needs within today’s busy infrastructure market.

Website: <http://www.projectsearch.com.au/>

Detailed Agenda

Opening Remarks



Mr Nick Stanton - Registrar for Engineers Australia

Nick Stanton is a Chartered Professional Engineer and the Registrar (RE: Chief Engineer) of Engineers Australia. He is responsible for a wide range of aspects within Engineers Australia including the application of professional engineering standards, Registration matters across all Australian States and Territories, international engagement for mobility of professional Engineers, training needs, education and auditing for professional development just to name a few

He is a recently retired senior Army Officer who served over 36 years in the Australian Army as a Soldier, Commander and Engineer including in combat zones in the Middle East. Nick is also a highly experienced Project Manager, Leader and Innovator having been associated with several large and successful Defence Projects over the years. He was awarded the Conspicuous Service Cross (CSC) for his leadership and innovative solutions in 2009 in the field of advanced technical training.

Nick cares passionately about the engineering profession and assisting others on their professional journey. He always regards a problem as an opportunity awaiting an Engineer to address, preferably over coffee. Please note that after many years of drinking substandard coffee in cold, wet and remote locations around the globe, he is always appreciative of a good coffee and a chat in a dry venue.

Keynote : Project Controls as the foundation for successful relationships.
 This presentation will draw on the speaker’s extensive program and project delivery experience, using project controls as the foundation for successful relationships leading to successful delivery. The ability to use project controls to support project management brings challenges when detail is the focus, rather than using the detail to support strong relationships and decision making. This presentation will discuss approaches to using project controls to build strong relationships from a pragmatic perspective, based on the delivery of Complex Major Capital Equipment Projects.



Luke is the Assistant Secretary Space and Communications Branch at the Department of Defence. Luke’s role is to lead the delivery of space and communications capabilities to the Australian Defence Force. Luke has specific responsibilities for Position, Navigation and Timing and beyond line of sight communications as well as a general role to help coordinate broader Defence Space Capabilities. Luke has extensive experience across Emerging Projects, Program Management and Engineering Management.

Luke’s qualifications include:

RMIT University Degree Name Bachelor of Engineering (B.Eng.)
 Field Of Study: Aerospace, Aeronautical and Astronautical Engineering

Luke Brown
Assistant Secretary
Space and
Communications
 Department of Defence

Queensland University of Technology
 Degree Name Executive Master of Business
 Field Of Study: Complex Project Management

Loughborough University
 Degree Name Master of Science (M.Sc.)
 Field Of Study: Aerospace, Aeronautical and Astronautical Engineering

Master Class Zone @ Members Dining Room

M1: The art and science of independent assurance in the department of defence.

An overview of: -

- The evolution of Independent Assurance in the Department of Defence
- The First Principles Review and Defence's Capability Life Cycle
- The role of Contestability within the Defence organisation.

Deeper analysis of:

- Challenges (unique and universal)
- Examples and/or a brief case study
- Tailoring independent assurance to achieve different organizational effects
- The relationship between codified independent assurance and project control functions



Teresa Blair - Assistant Secretary Maritime Analysis, Department of Defence

Teresa is a project, program and portfolio management specialist with over twenty years' experience in the Defence environment. A former Navy officer, she has also held Project Control and Senior Project Manager roles in Defence industry, as well as inside the Department of Defence in the roles of Director Major Program Control, and Director Investment Portfolio Management.

As the current Assistant Secretary Maritime Analysis in Contestability Division, she delivers independent assurance of the Navy's major projects and programs in terms of scope, budget, schedule and strategy. She is also responsible for the contesting and assuring of Defence Force Design, and Strategic Cost Analysis.

Teresa holds a Project Management Professional accreditation, undergrad qualifications in Management, English and Information Systems, and a Masters in Politics and Policy. She resides in Canberra with her husband and five-year old daughter.

M2: Calculating project risk contingency – Expected monetary value (EMV) vs monte carlo analysis.

This presentation will focus on the speakers' experiences and challenges they had encountered when providing advice to projects on how to calculate risk contingency. Some risk and cost practitioners argue large and complex projects should apply Monte Carlo technique while others promote the use of EMV method.

Drawing from their experience, the speakers will propose some approaches to bridge the gap, leading to improved understanding of Quantitative Risk Analysis, supporting enhanced project delivery.



Kazi Shiraji - Senior Manager, Synergy

Kazi is an ambitious and conscientious finance and costing professional, with experience in complex environments; delivering in the areas of cost estimation, budgeting, pricing, analysis, business improvements and reporting. Kazi focusses on the enhancement of controls to effectively and accurately capture costs, recognise risks and financial obligations to facilitate enhanced business decision making.

He has deep experience in reporting and improving the quality of information, by identifying ways to streamline processes and systems to maximise efficiency.

Kazi's qualifications include:

Certified Practising Accountant (CPA).

Bachelor of Commerce, University of Canberra.

Advanced Diploma in Applied Business and Information Technology.

Certificate IV in Training and Assessment.



Debra Wagner - Senior Manager, Synergy

Debra is a certified Project Management and Risk Management Professional (PMP, RMP) and Supplier Relationship Management Practitioner (SRMP) with over 20 years of experience. Debra's Project Management career spans across various industry segments (Defence, Telecommunications, Energy sector) and reflects diverse project experiences. Debra has consistently provided recommendations for

improvement of Project Management processes particularly in the areas of Project Controls and Governance. She works closely with Cost and Schedule Analysts in order to integrate Cost & Schedule analysis into the Risk Management processes.

She pioneered the Quantitative Risk Analysis and the 3-point estimate approach (Monte Carlo simulation) with the intent to determine the overall Program risk exposure and realistic and achievable cost and schedule targets on a Major Defence project.

During her career with Ericsson, Debra managed telecommunications projects locally and towards Ericsson customers in Asia Pacific and Africa. Debra holds a Postgraduate Diploma in Industrial Relations from the University of Melbourne and Bachelor's degree in Political Sciences.

M3: Evolution of project risk management: The odyssey

In a career that spans some 25 years, John has experienced the significant shifts in Risk Management theory and practice in this period, and the consequences for risk management “at the coal face”.

This has ranged from introduction of new standards, megaprojects that have introduced a level of complexity not previously experienced, and a new generation of risk managers with holistic approaches.

This anecdotal “qualitative” presentation looks at where we have been in Project Risk Management, and based on his experiences where we are likely to be going.



William Guthrie - Consultant at HKA, HKA

William is a Structural Engineer with over 5 years' experience working in both in civil infrastructure and transport. He has worked in construction, project management and design on major infrastructure projects in both Queensland and New South Wales. With a background in both structural design and construction, William is able to apply practical experience to his approach of project management and

project controls.



John Byrne - Senior project and business resilience professional, HKA

John is a senior project management and risk professional with over 25 years' experience. He has successfully delivered and managed projects in the infrastructure sector, with workforces of up to 2000 people and budgets up to USD1.5 Billion. In senior management roles and in more “hands on” or line management roles, John has successfully ensured the operating resilience of organisations in the oil and

gas, infrastructure, logistics and Government sectors while having direct management of diverse and complex workforces.

M4: Critical chain project management.

Critical Chain is not ‘the new Rock and Roll’. Nor is it a magic pill or a silver bullet.

Critical Chain is a relatively new methodology in the field of Project Management. It was developed and popularised by Dr. Elihayu M. Goldratt in his book *Critical Chain* (1997), which is written as a novel but outlines the methods used to ensure that projects complete on time.

The method is similar to Critical Path, in that it is a logic-based representation of the longest path of tasks to achieve project completion. The fundamental difference is the processes used to reach the Critical Chain, which focus far more on the human element, acknowledging the behaviour of people in the ‘People, Processes & Tools’.

It attempts to counteract some of the behavioural tendencies of people: that we leave tasks to the last minute, that we may slow down to meet the expected duration, and by accepting too much work we attempt to multi-task, thereby starting tasks without completing them, losing focus and a commitment to completion.

The combined impact of these behaviours causes schedule delay. The next time we estimate a body of work we remember the schedule delay, and include more safety time – and then potentially repeat the same behaviours and lengthen schedules unnecessarily.

The method attempts to counteract these behaviours by removing individual safety from tasks, setting it aside for total system protection of the due date. It attempts to reduce the negative aspects of multi-tasking by focusing on completion, starting tasks that can be finished. It also attempts to focus on flow of work, rather than details of individual tasking.

It also attempts to counteract the negative aspects of a Performance Metric, which by definition is historical and retrospective. It does this by implementing the Buffer Index, a live Operational Metric utilised to understand current state, future impact, and required management action. The earlier the warning, the more timely the response.

Many hundreds of global organisations, including most of the major global defence contractors, have reported improvement in meeting their goals, by using this methodology.



Simon White - AERO Project Controls Manager at BAE, BAE Systems

Originally an aircraft mechanic for C-130 Hercules and the F18-Hornet fighter jet, Simon White now ensures that the Aerospace Business Unit for BAE Systems has reliable, repeatable Project Controls.

He is passionate about 'evolution by enquiry', asking questions, and applying solutions that are fit for purpose, whether they be conventional or not.

He believes in breaking the rules, because if you always follow the process, you will never do anything different. And if you never do anything different, you will never change or evolve, so once in a while, breaking the rules is a must.

M5: Experience forecasting realistic time and cost contingencies for large and small projects.

This presentation describes RIMPL's experiences in developing and implementing a methodology for combining Parametric and CPM-based ICSRA modelling (P+IRA) to produce realistic assessments of time and cost contingencies. In addition, it reports on RIMPL's experience using the John K Hollmann Parametric + Expected Value (P+EV) methodology to forecast contingencies for smaller projects and earlier project development phase assessments, compared with parallel SRAs in a couple of instances. These hybrid methodologies are highly recommended and the reasons for recommending them are explained.



Colin Cropley - Managing Director, RIMPL

Colin Cropley has over forty years' experience of project management, project controls and risk management. He has experience in project and risk management consulting, software development, training and lecturing, in sectors including infrastructure, oil & gas, minerals processing, IT, power and defence. He has conducted risk management processes, schedule and cost risk analyses and training

for companies including BHP Billiton, BP Australia, Downer EDI, Leighton Contractors, Oman LNG, Origin Energy, Santos, Tenix Defence, Thiess and Woodside Petroleum. Colin is a chemical engineering graduate of the University of Melbourne and was chairman of the Victorian Primavera Users Group from 1997 to 2009. He has guest-lectured in project management at universities between 1991 and 2018 and has delivered presentations at many project management and controls-related conferences, including AACE International's Annual Meetings, the International Cost Engineering Council's World Congress, PMI's PMOz & PMICoS. He is a member of AACE International, the Australian Cost Engineering Society (currently on the National Committee) and the Australian Risk Engineering Society (both Technical Societies of Engineers Australia). In 2016, Colin contributed a chapter titled "The Case for Truly Integrated Cost and Schedule Risk Analysis" to a book "Handbook of Research on Leveraging Risk and Uncertainties for Effective Project Management".

M6: How and why to run down your contingency and methods to do this.

The importance of Risk Management in the consistently delivery of successful business outcomes cannot be overemphasised; hence the increasing reliance on Risk Based Estimating standards and principles across various sectors and industries. This is the Basis for Contingency Generation.

Romildo will be presenting some insights on Risk Based Estimating process and Contingency Management in the infrastructure, energy and resources industry. He will showcase the best practices used on major projects and programmes globally - typically through an integrated approach combining Schedule, Cost and Risk which minimises Risk and Maximises Value.



Romildo Votto - Director, Turner & Townsend

A Mechanical Engineer and accredited Project Management Professional with over 25 years' experience working across Australia, Asia Pacific and South America.

Romildo is a Director for Turner & Townsend. He manages the Infrastructure, Energy and Resources sector in South Australia generating businesses opportunities and leading the team while delivering a range of advisory and risk management services.

He works with large local and international organisations, employing his global experience to maximise performance. Romildo works with blue-chip clients in his portfolio including BHP, BP, BAE Systems, Santos, Anglo American and Inpex to name a few.

Romildo has been on the Board of Directors of the Project Management Institute in Adelaide for many years, holding positions in finance, events and marketing. Romildo also lectures Risk Management for the University of Adelaide and was responsible for developing the entire subject as part of their Bachelor of Project Management degree. He also serves on three committees for SACOME, the South Australian Chamber of Mine and Energy.

M7: Using an integrated suite to improve cost management across the capability life cycle.

This presentation will discuss the capability offered by the Price Systems International Suite to estimate and manage cost and manage and improve business processes end to end across the Capability Life Cycle. This presentation will explore the realisation of:

An improvement in the ability to estimate and manage cost across the CLC

Efficiencies in the processes around Concept Definition, Requirements Setting and Risk Mitigation, Acquisition and In-Service

A much improved ability to maintain an audit trail of decisions and outcomes across the CLC

This presentation will demonstrate how the PSI Suite can support the delivery of artefacts and analysis to support decision making at in the management of cost for the IIP, at Gate 0, Gate 1 and Gate 2, as well as during the Acquisition and In-service phases and will particularly focus on support to tender evaluation and ongoing cost management.



Stacey Wehmeier - Executive Director Project Controls, Synergy

Stacey has over 18 years of experience in Defence, following on from a 9 year career in the banking, electricity and insurance sectors.

She has led teams undertaking quality assurance, software estimation, project controls, reform implementation and policy development.

Prior to joining Synergy, Stacey led a large team implementing major reform in Project Controls in CASG.

She has led major initiatives such as the implementation of the Cost Estimation, Analysis and Modelling Tool (CEAMOT), the development of the 12 Step Cost and Schedule Estimation process, and the development of the Software Estimation Program in Defence.

Stacey also leads broader activities such as Mindfulness and United Leadership Programs, focussed on the development of high performing teams and individuals.



Anthony Navarro - Business Developer and Project Manager, PRICE Systems International

Anthony Navarro is the Business Developer and Project Manager for PRICE Systems International. As part of his mission he is responsible for the pre-sales and implementation phases within the key PRICE Systems' accounts both for government institutions and industries. Anthony contributed to the PRICE Systems' offer evolution. Prior to joining PRICE Systems International in March 2017, Anthony was the

Cost Estimation Framework solution within Airbus Defence and Space for a Bid Process Improvement project. As part of his mission, he was responsible for the specification, the development and the deployment of a global estimation solution across France, Spain, Germany and the United-Kingdom countries within the same organization. Anthony was responsible for the parametric methodology development supported by the software TruePlanning on Earth Observation Satellites systems and used to perform Rough Order of Magnitude (ROM) cost estimation and analysis of alternative architectures for space systems. In parallel, Anthony was part of a bidding team and responsible for the financial data consistency for Institutional, Commercial and Export businesses (bid management, cost consolidation, price elaboration and negotiation support). Anthony possesses a master's degree in mechanical and sensory engineering. In his free time, Anthony used to be the captain of a basketball team for more than thirteen years and frequently practices snowboarding in the French high mountains.

Technology Zone @ Olympic Room A

T1: Collaborative Lean Scheduling

The next generation of scheduling practices has arrived. This cloud-based, mobile-enabled solution unites lean construction and critical path method (CPM) approaches for complete coordination and more successful and profitable projects. If you are interested improving your project management practices through better collaboration across your supply chain then this is the session for you.



Matt Jenkins - Master Principal Sales Consultant, Oracle Construction & Engineering

Matt has over 20 years experience supporting, implementing and architecting Enterprise and Cloud software. He has worked across multiple industries including Public Sector, E&C and Oil & Gas. At Oracle, Matt has been instrumental in leading some of the largest project management deployments throughout Australia & New Zealand.

T2: How to use AI when you have too much data but not enough information.

Large capital projects are by their very nature, extremely complex endeavours. They involve multiple stakeholders over extended periods, typically presenting competing project objectives. This can lead to risk as parties seek to balance the optimal time to completion versus minimal cost.

For owners, on-time and on-budget delivery is a prerequisite. However, visibility of progress and realistic measures of planning and performance are most often based on assumptions. The contractor's challenge is to create and track to a sound and achievable forecast. Despite this being the premise for construction project management, achieving it is still quite difficult. Hence the advent of technology and applications.

Despite their ever-increasing number, what tech solutions seem to do best is drive up the creation of project information. Arguably, technology has done very little in comparison to help develop insights. Interpretation of data into actionable insights still relies heavily on individuals. This prevents organisations from leveraging the true value of data when bidding, planning and executing on a project. When you lack insights from all the data that's been collected, you miss opportunities for improvement.

Organisations that recognise the difference between data and knowledge are the ones that will have the potential to minimise risk. And those that actually advance from data to knowledge will do it with artificial intelligence (AI). AI and machine learning help capture and classify organisational and project data to then interpret knowledge from it. The result is better planned and executed projects—a win-win for both owners and contractors.



Rob Bryant - EVP Asia-Pacific, InEight

Rob joined InEight in March 2018 at Executive Vice President, Asia Pacific. Rob is responsible for sales and general operations of InEight throughout the Asia Pacific region.

Before joining InEight, Rob was Director of Operations for ECI Solutions, leading sales and operations for their Australian business. Previous to that he was Chief Operating Officer with TeamBinder, as they

secured the use of their system on over \$100b worth of projects, including numerous Government infrastructure projects and contractors from across the Globe. Prior to that Rob was General Manager for IBISWorld Business Information. Rob started his career in London, working in marketing and public relations, following an education that saw him switch from database and systems management to marketing and communications.

Rob has led sales and operations for a range of cloud based product and service organizations, with significant experience in leading high growth software business servicing the construction and engineering sector.

Away from the office Rob enjoys trail running over short course and ultra-distance events, as well as being a father of three young and quickly growing children.

T3: The future of project controls.

The project controls industry is evolving. What began as a practice of looking backwards to better understand what has happened to a project, project controls methods now include advanced analytics that leverage artificial intelligence and forecasting techniques that measure project predictability. Shelves full of business process documentation and paper reports have been replaced with an enterprise project performance system that acts as an enabling platform to ensure best practices are followed while executing today's increasingly complex projects. Budget and schedule outcomes are boosted because actionable information is now presented in interactive dashboards that identify early warning indicators, so problems can be easily visualised and acted upon. This session will start by taking a look at how far we've come as an industry and discuss the latest trends gaining momentum today.



James Crowell - Industry Consultant, Hexagon PPM

James is an Industry Consultant for Hexagon PPM, based in Singapore. He is PMP certified with international experience implementing project management systems. His project controls experience spans the entire project life cycle from initiation and planning to execution and closeout. James has a proven track record of working with leading project delivery companies to eliminate disparate

spreadsheets and point solutions in favour of an enterprise projects performance system that provides a consistent platform to standardize processes and boost project outcomes. In this role at Hexagon PPM, James is the subject matter expert on all things project management and supports companies in their evaluation of EcoSys, Hexagon's enterprise project controls software.

T4: Project management maturity: Using software to setup project management processes.

Some argue that project controls software can only be used by organizations that already have mature processes in place to support them. But that is simply not the case. Implementing a scalable, robust, and intuitive system can harness industry best practices and support new and improved processes. Join this session to discuss what project management maturity looks like at different organizations. Learn about the common difficulties present when introducing a project controls system in an immature project management environment as well as the benefits of using the implementation of software to drive project management maturity.



Iulia Amariei - Director Business Development & Customer Care ANZ & APAC, Ares

Iulia has more than 25 years' experience in technical sales, solution design, implementation and software support. Her comprehensive knowledge extends to Project Controls and Project Management Systems and procedures. She's helped build solutions and add value to software processes and procedures for many clients both domestically and internationally. Her work includes implementations across many market sectors including oil and gas, infrastructure, mining, engineering and construction. Iulia brings with her broad experience. She has worked with both private and government clients, from small projects all the way up to megaprojects.

T5: Software-based project cost management & the application of metrics and KPIs in the process.

Nowadays, many organizations are looking to improve their project performance. Completing projects on time and within budget is the holy grail for successful project delivery. The only way to keep up with this challenge is by leveraging today's technology and making use of the rich project data that are collected by companies.

With this presentation, will shed light on the common question of project professionals: "How do I make sense of all this data?" by following 3 steps.

Zooming in on the possibilities that software tools, such as Cleopatra Enterprise, bring in collecting and structuring project data.

How big data analytics leads to a continuous improvement process.

How it is possible to really be "in control" by properly using metrics and KPIs (Key Performance Indicators) – the intelligence of modern technology.

T6: Improving cost and schedule risk analysis maturity using modern quantitative risk analysis tools

Project risk analysis can improve project outcomes, such as offering more realistic forecasts of cost and time, identification of the risks that drive these outcomes, challenging underlying assumptions and, facilitating the determination of mitigation or contingency measures. While the benefits of undertaking project risk analysis seem apparent, the methods in achieving these benefits is determined by the maturity level of project risk analysis being undertaken. This presentation provides a framework for determining the current level of maturity, and offers a Journeymap for improved maturity, towards the goal of integrated cost and schedule risk analysis using modern Quantitative Risk Analysis tools.



Santosh Bhat - Director, Australasian Project Planning

With over 18 years' experience in Planning and Scheduling, Santosh is an independent consultant to projects or organisations looking to improve their capabilities and deliver results through improved Project Planning, Scheduling and Risk Analyses. Co-founder and CEO of Linear Project Software and Director of Australasian Project Planning.

T7: Projects controls using Microsoft 365 cloud, from process governance to cost control.

Project planning, cost estimation, risk and contract management, have been re-envisaged in Microsoft's new Power Platform. Using a very new but critical design concept, Microsoft is moving away from MS Project-based project management and introducing its Common Data Service (CDS) to enable organisations to redefine their business applications (like project management) in a way that's aligned with a new design guideline: 'data driven design of the digital landscape'. I will demonstrate the New Project Service from Microsoft, then use it to prepare cost estimations for a project, interact with contracts for progress payments (for example), then wrap it all up in PowerBI reports and dashboards with its cutting edge AI capabilities. The application that I will demonstrate are:

1. Project Online (the old way)
2. New Project Service
3. Common Data Service (CDS)
4. PowerApps
5. Teams
6. PowerBI



Laith Adel - General Manager, pmo365

Laith Adel is a principle Consultant with pmo365 in Australia. With a strong background in engineering, project management and information technology, Laith provides consulting (both business and technical) and management services to customers, helping them to successfully implement and deploy project portfolio management solutions within their organisations.

He has worked with Microsoft's Enterprise Project Management (EPM) product set since its early versions and has been involved in many Microsoft EPM solution implementation projects around the world. His strong hands-on experience comes through his involvement with a number of professional services organisations including Microsoft Consulting Services (MSC) and Strategic Data Management (SDM). Through pmo365, Laith has successfully implemented PPM applications to tens of organisations with different maturity levels.

His approach focuses on the realisation of the business objectives of the implementation of the technology by integrating it with the organisation's process and ensuring the end-users' adoption. Laith provides a unique style of consulting that challenges the status quo, and shares valuable insights and lessons learned from other organisations.

Case Studies Zone @ Jim Stynes Room A

C1: Data, data, data: is there ever thing as too much?

Data equals power but only if we know what to do with it.

The benefits of data are enormous but there's a danger we're not using it to make intelligent, informed decisions within project controls.

Geoff Rea's talk gives real world problems and issues from large, complex projects and programs such as Western Sydney Airport, Sydney Metro, Hinkley Point C, Nuclear Decommissioning and other government programs to show how powerful data can be if harnessed correctly.



Geoff Rea - Director, Turner & Townsend

Geoffrey has over 25 years experience Providing Strategic Direction, Advisory and Leadership advising at board level on; business cases, risks and program performance. Leading regulatory reviews, ensuring projects and programmes adhere to best practice standards. An expert in building strong, diverse, high performing teams, developing capability within the organisation and leading on diversity.

Leading the provision of Program Management, Technical Services, PMO, Integrated Project Controls, Commercial and Procurement with a demonstrable track record of delivering great outcomes.

Geoffrey has the ability to integrate into organisations quickly, obtaining results by strong leadership linking up with

C2: Project controls maturity assessment and roadmap: If you can't measure it, you can't improve it.

The key to achieving successful project controls is through continued development of People, robust Processes for individual project controls disciplines and integrated Technology to provide the organisation with One Source of Truth.

The purpose of the Maturity Assessment is to analyse the current processes with regard to project controls and determine what a practical end state looks like. The evaluation state begins with Diagnosis and Scoring using key best practices that are organised around a range of project controls and project management fundamentals. This is the benchmark for assessment and assesses and identifies best practice gaps.....



Ali Dibaj - Associate Director, TBH

A degree qualified Civil Engineer with extensive experience in Planning Management, Programming & Scheduling and Project Controls across highly complex multi-disciplinary portfolios and projects.

Initially started career as a Project Engineer based on site, working on a major construction project, gaining excellent understanding of the technical aspect of construction. This exposure to the

construction process, enables the development of accurate schedules and controls that can be practically implemented on site.

Demonstrates excellent technical ability and analytical skills to extract schedule data and provide accurate insight to enhance performance, overcome delivery problems and manage risk.

In recent years has worked on major capital works programmes including building, civil, rail components, involving multiple delivery partners and complex interfaces. This includes working on exceptionally high profile projects in compressed timeframes, requiring the ability to update and re-engineer the program on the fly to overcome challenging delivery problems.



Jonathan Jacobs - Director, TBH

Jonathan is an experienced planner and project controls specialist who has worked extensively in both the United Kingdom and Australia.

Prior to joining TBH, he provided planning and cost management services on the £10b West Coast Route Modification Project in the United Kingdom and then later with SMEC on the \$1.5b M7 Westlink Project. Jonathan has a broad range of skills gained on a variety of projects valued between \$1m and \$50b across a diverse range of industries including major resources, oil and gas, transport infrastructure, power, water, health, commercial and residential construction. Since moving back to NSW Jonathan has predominantly been engaged to provide client side advice on large infrastructure projects with the focus on master scheduling, constructability, program and portfolio management.

C3: Implementing effective project systems and tools.

In an era of digital transformation, where the rate of change is challenging traditional project delivery models, the effective implementation of project controls systems and tools is critical to organisational and project success.

From the simplicity of aligned terminology to more complex concepts of reporting frameworks, integration architectures and process improvement, this paper will address the questions of:

1. What constitutes “effective” project management systems and tools?
2. What are the critical systems selection criteria and considerations?
3. Are different systems required at different stages of the project lifecycle?
4. What are the common pitfalls and how can we avoid them?

Offering insight gathered over twenty years of successfully implementing enterprise systems, and in particular project management and controls systems, this paper will provide pragmatic and relevant information for everyone from the new to veteran project controls professional.



Loretta Bayliss - Chief Executive, Prescience Group

Loretta Bayliss is an internationally experienced IT executive recognised for working closely with clients to achieve high-value, project-focused business and technology solutions.

Known for her drive, energy and passion, as well as her frank and forthright approach, Loretta has an unrelenting commitment to the pursuit of excellence and a constant thirst for knowledge. Highly structured in her thinking, Loretta leaves nothing to chance and makes sound judgement calls that are in the best interests of Prescience Technology's clients.

Loretta possesses a proven ability to inspire, motivate, and manage exceptionally energized, focused and highly performing teams in challenging project conditions and environments. She has a talent for making rapid assessments of diverse situational and technical challenges and developing and leading the resulting action plans.

Loretta is committed to her support of Act for Kids, a Brisbane headquartered organisation that improves the lives of abused children across Australia. She has hiked through central Australia and the Southern Alps of New Zealand to raise funds for this outstanding cause, and will hike a significant section of Western Australia's iconic Bibbulmun Track in 2018 to raise further awareness for the work that Act for Kids does for Aussie kids and families.

In her spare time, Loretta enjoys playing taxi driver to her three children, regularly runs half marathons and also squeezes in the occasional trail run, cycle, swim or hike.

C4: Managing end-to-end business transformations in asset-intensive organizations

Organizations in asset intensive industries are re-thinking the way they do business in response to changing market conditions, evolving business models, productivity challenges, rising costs and market disruptors driven by new technologies. Transformation of business and operating models is seen across all players in the value chain - project developers, owner-operators and service providers like engineering & construction companies, operations & maintenance providers and equipment manufacturers.

Managing business transformations requires a deliberate & systematic approach to ensure that the intended benefits are realized across the organisation in accordance with strategic objectives. We present a perspective on transformative journeys in asset-intensive industries and a proven approach to managing business transformations using EY's Transformation Hub and related solutions.



Vikrant Mulgund - Director, EY, Sydney, Australia

Vikrant Mulgund leads EY's Capital Infrastructure and Asset Management solutions across the Asia Pacific region. Over a career approaching 2 decades, he has developed a speciality in megaprojects development and delivery and complex operations in asset-intensive industries; having worked in operational leadership and strategic advisory roles across Asia Pacific, Middle East and North America

His megaproject leadership experience includes - Head of Program Office for the Western Sydney Airport for the Federal Government over 3 years, project management roles on Gladstone LNG over 3 years, Final Investment Decision advice on Snowy Hydro 2.0, among others.

He holds a Bachelor of Engineering (Chemical) and MBA from the Australian Graduate School of Management.

C5: Performance Measurement on a Connected Site.

The Connected Site initiative allowed three unlikely allies to collaborate in a way that has not been seen before. Government joined forces with Technology and Construction in an initiative to prove the concept of a rapidly deployable 'connected site' that would capture, record and present real time information and attempt to shift the paradigm in an industry not known for objective data-based decision making. The approach was simple. Rather than being technology-led, we identified the problems and used technology to aid in solving them. Problems and questions were varied and included:

1. Needing to know and manage noise levels for local residents
2. Where is my crane?



Rhys Craigie - Information Systems Manager, McConnell Dowell

Rhys is an information systems manager who began as an estimator, moved to engineering across both mechanical and civil and then found himself in information technology with combined experience of almost 14 years. As an analyst, Rhys specifically managed the development and implementation of worldwide group solutions down to the project and/or task related Business improvements. In the past

12 months his focus has been on the Level Crossing Removal Projects (LXRP) working for the Western Program Alliance (WPA) to implement initiatives to ultimately deliver value for money to the state. This is being achieved through the optimisation of value-add activities with a longer-term strategy to create a fully integrated project site. One key initiative during this time has been the management for WPA the 'Connected Sites' through the Pilot phase and now beyond.



Phil Hendy - Authentic Transformation Leader, McConnell Dowell

Phil is an authentic transformation leader with a focus on team collaboration, continual improvement and innovation. He has 15 years of experience working across the civil engineering industry. In project and engineering management roles he has led teams on a variety of projects throughout Australia and New Zealand, including in the rail, roads, marine and telco sectors. After 5 years in McConnell Dowell's

engineering team, Phil joined the Western Program Alliance (WPA) in 2017 to lead Innovation & Continuous Improvement. In this role he has led a transformative agenda of innovation and improvement that has shifted the Alliance culture and is now impacting and benefiting more widely across the Level Crossing Removal Project and broader industry.

C6: Towards smart cities - case study for the built environment lifecycle.

The built asset environment is stuck between a rock (legacy data stored in millions of silos) and a hard place (no agreed way of moving asset data across commercial boundaries). Emerging concepts such as BIM and Digital Twins have elicited new ways of creating and managing built projects, but who owns the data and how is it shared with those allowed to access throughout the built asset lifecycle? In 2018, Glenn Drew CEO of SQUIZZ.com, founded the Smart Cities Innovators Round table to identify problems, develop new paradigms of thinking and work with industry thought leaders to solve key challenges. Glenn will present the outcomes through developed case studies using next generation platforms that will reshape the built asset lifecycle and deliver enormous benefits for project management, delivery and operations.



Glenn Drew - CEO, SQUIZZ.COM

Glenn Drew is the CEO of two software companies notably TOTECS.com that offers integrated eCommerce and SQUIZZ.com that is the world's first Connected Commerce platform. Glenn is a passionate thought leader and develops technology solutions that tackle some of the greatest IT challenges in modern times. As a Computer Science Engineer, his work centres around key topics such as

information security, relatedness & trust, data sovereignty, data engineering, AI, BIM, project management & controls, secure social networks, business intelligence, scalable cloud architecture, devops, ERP, intelligent systems, universal systems integrations and digital governance. Glenn chairs the Smart Cities Innovators Round Table think tank located in Melbourne and is affiliated with other initiatives such as the Digital Built Legal Environment (DBLE) and BIMMEPAUS. Glenn's current focus is to design an open Smart Asset specification that can be harnessed to integrate the secure relationship framework of SQUIZZ.com with Smart Assets. Integrating the commercial relationship landscape is paramount for interconnected Smart Cities to thrive.

C7: The complexities of ultra mega project risk management in ideation phase.

The case-study identifies and quantifies interesting elements of Risks in Ultra-mega Power Project in ideation and feasibility phase of advanced supercritical coal plants. During the course of the case study full life-cycle; technical and economic risks have been considered; which can impact project in terms of environmental issues and escalate project delivery costs, if not mitigated during initiation phases. Project planning and control play a vital part during the early commission of the supercritical plant. In relation to making future coal-fired plants in developed economies, planning and control provide guidelines to the primary objective of identifying risk elements and their mitigating solutions. Firstly, Plant performance risks based on using coal quality and the impact of ambient conditions on advanced supercritical plants. Secondly, the economics of advanced supercritical technology which is one of the prominent risks that has been outlined and specifics has been discussed in the case study by considering the examples in the Indian Power market. Ore conditions are different in India and Australia. As a result, the costs associated with plant design will considerably be reduced if the supercritical plant is used in Australia leading to reduction of overall Operation & Maintenance costs. Additionally, as a result of the Kyoto Protocol, it provides economic benefits with the Clean Development Mechanism (CDM) in regards to mitigating the risk. It has been highlighted as one of the mitigating measures for ultra-mega power projects. CDM has been carefully identified and studied thoroughly for supercritical projects, which gives the opportunity to use as an advantage to plant commissioning where it can receive financial incentives.



Abhijit Dubey - Project Control Professional for TBC

Abhijit Dubey (Avi) is focused and result-driven Project Management professional and passionate about improving project outcomes through robust Project Planning and Risk Management methodologies. He enjoys creating sustainable value for the clients and improves business processes through effective and flexible Project Management approaches, tools and techniques. He enjoys working closely with

stakeholders and clients in order to understand time and requirement management. He helps to negotiate risk appetite levels related to financial risk, innovation risk, operational risk and other types of risk that are specific to the organisation. Essentially, he capitalizes and translates his interest in assessing, analysing and researching Project Risks and digs deeper into the project challenges and constraints that could potentially impact the project as a whole in terms of schedule and costs, if not calculated and mitigated at the early stage of the project. He has experience within the mining industry in Australia where he provided consulting services and carries extensive experience in EPC and unit-rate contract type in India where he worked closely with the client during the ideation and initiation phase to identify risk appetite and tolerance. Outside work likes playing indoor cricket or spending time in the gymnasium, doing yoga, listening to instrumental music and engage in professional development activities such as workshops-Dale Carnegie of Queensland and volunteering service with PMI. He exercises Emotional Intelligence during the decision-making process across various levels and types of relationships. Supplementing his broader and deeper Project Management knowledge, Avi is an active member of Project Management Institute-USA, Australian Cost Engineering Society and Australian Institute of Mining and Metallurgy(AusIMM). He is currently studying to obtain the PECB Certified ISO 31000 Risk Management.

Megaprojects Zone @ Yarra Park Room

P1: Professionalising Project Control to enable the delivery of complex mega projects.

Simon will highlight the improvement initiatives that have been, and continue to be, implemented across BAE Systems to professionalise Project Control and support delivery of complex mega projects. He will outline how the drive to standardise Project Control needs to be balanced alongside its application across project, programmes and portfolios of varying size, scale and complexity. With a strong emphasis on knowledge sharing Simon will share the challenges that have been faced in making the step change to ensure Project Control is recognised as a career in its own right. Simon will talk through the journey that Project Control has been on within BAE Systems and showcase the resulting successes of the function as a profession.



Simon White - AERO Project Controls Manager at BAE, BAE Systems

Simon is a risk management consultant with over 20 years' experience in helping organisations to understand and manage risk to their projects' schedule and cost.

He has worked in a wide variety of industries and major projects, and spent two years as UK Risk Analyst for ConocoPhillips, before which he was Senior Consultant and trainer for Pertmaster, Primavera and Oracle.

Simon is recognised as one of the leading practitioners of risk management and analysis, and strives for clarity and pragmatism in his work. He uses methods that allow probabilistic models to be interrogated and understood by project teams and senior management, which helps ensure that risk assessments are reasonable representations of reality, and that they add value by setting and justifying reasonable expectation and positive management action

P2: Megaprojects and project controls practices.

The project controls practices in any project is imperative as it supports an organisation's ability to make timely decisions on data from a single source. This will explore the differences between Project Management Office (PMO) and Project Controls (PC). How Project Controls supports projects regardless of complexity or size. What could be considered innovations and cross over between PMO and PC, client vs vendor. How organisation's need to be an active client and how vendors (contractors) can become active vendors. Most importantly how in the future they must work collaboratively to succeed.



Pelagia Markogiannakis - Director of Project Controls, Major Road Projects Authority

Pela has been in our Navy for over 34 years holding the rank of Lieutenant Commander. She has held bold transformational executive roles in engineering, infrastructure, asset management and project management. She is a trusted advisor to CEOs, executive teams, and boards of directors on development, project planning and infrastructure design, controls and delivery. Pela is often considered the company "conscious", always ethical with an unwavering commitment to innovation and continuous improvement. She has led PMOs and Project Controls departments. Pela has significant commercial experience particularly in infrastructure and the defence industries and joined MRPV in late 2018 as Director Project Controls.

P3: The role of risk management in success/failure of megaprojects.

According to the Oxford Handbook of Megaproject Management, "Megaprojects are large-scale, complex ventures that typically cost \$1 billion or more, take many years to develop and build, involve multiple public and private stakeholders, are transformational, and impact millions of people".

McKinsey estimates that the world needs to spend about \$57 trillion on infrastructure by 2030 to enable the anticipated levels of GDP growth globally. Of that, about two-thirds will be required in developing markets, where there are rising middle classes, population growth, urbanization, and increased economic growth.

So Megaprojects are important drivers for societal changes and to foster its economy. These benefits will come to fruition only when they are delivered successfully on time and within budget or they will diminish substantially.

According to Bent Flyvbjerg, 9 out of 10 Megaprojects go over budget. Standish Group International's research has revealed that only 16% of the projects were delivered successfully.

Despite the best practices all around the globe, numerous external and internal challenges can move a megaproject from a 'programmed success' to a 'designed to fail' scenario. If a task fails, there are ways to correct it, for example, by reallocating resources and get it back on track. But a systemic failure creeps in, it derails the whole project. This becomes compounded in a complex Megaproject environment.

Current strategies fail to address the root causes and focus only on the symptoms as the risk leadership is allegedly ineffective and / or outdated. Business as usual attitude and reactive business culture are not helping the organisations in learning and leveraging from successes and/or failures. There is no alignment between the strategy and culture. There is a growing consensus among the practitioners that the current conventional industry practices are inadequate and unsuitable for a complex and irrational environment.

In this paper the author examines the role of risk leadership in success / failure of Megaprojects. Based on his vast global experience, he suggests radical changes to the risk leadership to enhance the probability of success rate.



Santhosh Therakam - Technical Director for Risk, Jacobs

Santhosh is a seasoned engineer and a strategic thinker, with over 35 years of hands-on experience and a proven track record of delivering several megaprojects globally, holding senior executive level roles as a client, consultant and as an EPC contractor. He is currently working as a Technical Director for Risk at Jacobs across Asia Pacific and the Middle East. He has project managed and provided governance and

risk leadership on many multi-billion dollar megaprojects / programs including complex infrastructure schemes for motorways, tunnels, heavy rails / light rails, ports and airports, dams and pipelines, oil and gas and CSG, mining, process plants and power plants, defence, renewable energy to name a few.

Santhosh holds MTech in Civil Engineering and is currently pursuing his CPA. He is a Certified Practising Project Director, FIEAust, CPEng and an RPEQ. He is a regular speaker at National and International events.

P4: Application of successful project controls and earned value management (EVM) in construction mega projects.

Earned Value Management is an integral part of delivering successful mega projects and is a way of capturing a project's scope and expressing its progress as money – relating to the cost budget – and phasing it over time. An effective Earned Value Management system provides an early warning system for developing project issues, facilitates proactive

management and project optimization and drives the achievement of progress “volume”, month by month. It is very effective in eliminating project ‘surprises’. Delivering a mega-project is highly dependent on achieving progress and spend targets month in and month out. For a mega-project, having objective data to challenge project delivery teams with respect to what has been achieved and the work going forward is critical. Explore how John Holland adopts a robust and consistent Earned Value Management approach to its mega projects, how the organisation produces robust and strong Earned Value data and meaningful, value adding outputs which can help project leadership understand what has been achieved, the challenge going forward and help shape their decision making on the project.



Sangrah Bhatia - Project Controls Manager, John Holland

Sangrah is a delivery focused, results oriented and versatile Project Controls Manager with over twelve years of experience in the Oil & Gas, Mining, Utilities, Infrastructure, Building, Defence and Rail industries working for leading Engineering & Construction organisations.

Sangrah's primary area of focus has been in the successful management and delivery of Project Controls and Earned Value Management on projects and portfolio of projects ranging from \$1m to \$2bn in value across multiple sectors and industries.

Delivering best practice Project Controls and Earned Value Management systems, processes and methodologies has given Sangrah valuable experience in understanding how to apply and execute Project Controls and Earned Value Management on real life mega projects successfully to produce meaningful and value adding outputs that help influence and inform project decision making.

Sangrah is a Member of Engineers Australia, Australian Cost Engineering Society (ACES) and the Australian Institute of Project Management (AIPM) and holds a Bachelor of Engineering (Honours), a Graduate Certificate in Engineering Maintenance Management from Monash University and a Master of Business Administration (MBA) from Deakin University.

P5: Risk management on mega-infrastructure projects: Combatting complexity underestimation.

The increasing scale of construction and technology are key drivers of complexity on mega-infrastructure projects today. The challenge is how we adapt existing risk management methodology to new degrees of uncertainty. By observing the trend of cost overrun and schedule delay on rail megaprojects, this paper explores whether cost underestimation is a key concern for risk management; or whether there is scope to argue that complexity underestimation is increasing cost and time pressures for project controls professionals. A systems-thinking approach is employed to weigh existing risk methodologies against the interconnected nature of nodes in a complex system. To combat causation complexity, this paper acts as a call to action for those in risk management to probe over predict, seeking to understand the interactions and interfaces within a system. Ultimately the evolution of risk management will require the next generation of risk managers to experiment with agile methodologies and technologies in order to transform and future-proof the practice.



Jessica Schilling - Management Consultant, HKA

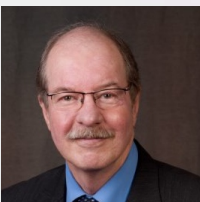
Jessica is an entry-level risk champion based in Sydney, Australia. For just over a year she has been working in project controls for Sydney Metro City & Southwest, as a management consultant through HKA. She has observed the practices and processes of project management professionals with her early career curiosity and enthusiasm, harnessing insights through on-the-job exposure and experience.

The unique complexity of mega-infrastructure projects has sparked her interest in contributing to delivery innovation. Before this, she worked in partner operations at Uber and studied a double degree in Communication and Creative Intelligence and Innovation at the University of Technology Sydney.

P6: Uncovering the unknown knowns.

The cause of well known engineering failures resulting in fatalities and huge financial loss can be traced to the lack of scrutiny in uncovering the unknown knowns. An unknown known is a risk known by a stakeholder but overlooked by the project team.

Seven risk categories are identified that have repeatedly caused overruns in cost and time on major engineering projects. Tools, methods and processes are described to investigate, identify, and treat unknown knowns and the leadership required to make the process successful.



John Paterson - Director, J D Paterson & Associates

Civil construction engineer with over 30 years of experience in construction contracting on projects including road, rail, bridge, dam, airports and utility services.

Highly developed skills in the analysis and valuation of construction project cost and time from pre-

tender, through detailed planning, estimating, construction, operation and maintenance to contractual resolution. Successfully adopted innovative methods to save time and cost and avoid pitfalls, while boosting continual improvement through the risk management and value management processes.

P7: Unlocking the power of project data analysis for megaprojects.

The business world is undergoing a seismic shift in data consumption. This has been enabled by new data analytics tools such as Spotfire, Tableau and PowerBI. Within the project controls environment the way we create and edit data has not kept up with the pace of change and significant opportunities exist to enable efficiencies in data management.

Darrin Kinney will walk you through the key aspects of project control system setup. We will dive into how data is captured on projects and the reports that current project systems can provide. PowerBI examples will be showcased to highlight some key issues with interfaces and source data. In conclusion we will look into the future for how new technologies can be used in the project environment.



Darrin Kinney - Project control manager, Fluor Corporation

Darrin Kinney is a senior project controls professional with over 20 years of experience in project cost control, planning, and finance. Darrin has worked for Fluor, Bechtel, Jacobs and Samsung C&T. He has had extensive international exposure having held positions in Asia, the Middle East, the United States and Australia. Serving mostly the EPCM and EPC business, Darrin's job experience runs the full spectrum

from all sides of project controls and almost all businesses. He has worked at Oil Refineries, Infrastructure, Rail, and Mining both on site and in home office locations.

Innovations Zone @ Jim Stynes Room B

I1: Simplified project risk profiling.

By understanding the risk profile of a project, decision makers are best informed how to manage risk and deliver value. Would it help your project if you had a simple method for profiling risk that considers various impacts - such as Safety, Environment, Financial Performance, Reputation and Customer Experience - together in an integrated manner? What if this integrated approach also combined your quantitative and qualitative risk processes and streamlined your risk reporting for project, executive and board level? This presentation will provide an overview of how to do this for your project.



Laurie Bowman - Principal, Synchrony

Laurie Bowman, CCP DRMP EVP PSP is passionate about improving the professionalism of project controls and risk management on complex projects. Laurie is the Principal for training organisation Synchrony, where his focus is on helping clients achieve successful project, program and portfolio management outcomes through training, coaching and certification. Synchrony is an Approved

Education Provider (AEP) for AACE International and is an Accredited Training Organisation (ATO) for APMG International. Laurie has over 20 years' experience as an engineer and manager on a variety of complex, multidisciplinary engineering and construction projects having worked with government, owners, consultants and contractors. Laurie is a registered mentor with both AACE International and Engineers Australia and currently serves on the committee for Engineers Australia's College of Leadership and Management in the Australian Capital Territory and serves as the AACE International Regional Director for Asia Pacific (Region 8).

I2: Transforming integrated project controls platform by engaging disruptive opportunities.

Establishing an integrated project controls platform for schedule, cost and revenue in a disconnected eco-system often come with challenges that make you question the 'norm'. Some of these challenges however, do present the opportunity to drive innovations that better deliver what really matters to the business.

Many organizations invest heavily in industry-leading technologies and applications with the promise of overcoming their operational challenges and increase enterprise level productivity. They typically adopt industry standards and practices with the primary intent to keep up with their competing peers. However, conforming blindly to industry norms and practices sometimes 'numb' these organizations from seeing spin-off opportunities that could significantly drive their business growth.

In this session, I will be sharing some 'field-notes' from some of our engagements on setting up an integrated project controls platforms and how some of these opportunities were uncovered and used to good advantage.



Vergheese Kochummen - Solutions Architect, inSynchro

Vergheese Kochummen is a project management consultant with over 15 years of experience setting up enterprise solutions for construction and infrastructure project control teams. Vergheese is the principal architect of Executive-Eye, a stakeholder management platform designed for busy project Executives needing to be updated on their project progress within 'Executive-Time'.

In his work with industry leading infrastructure and construction companies, Vergheese has had the opportunity to closely interact with Executive teams whose needs often go above and beyond conventional project control practices. Today, he works closely with owners of mega infrastructure projects to ensure they get accurate view of their project progress and empower them with the tools to conduct Executive level briefings to other stakeholders.

13: Pushing the boundaries of cost & time.

Advanced 5D+4D BIM workflows are breaking down traditional barriers of how cost and time is understood and managed on projects. Today's software and technology allows us to move from reactive to proactive, opening up new ways to identify and solve complex problems without the old 'rules of thumb' we are sadly so accustomed to.

Follow the 5D+4D implementation journey Mitchell Brandtman delivered for the KVMRT rail project in Kuala Lumpur. Applying custom workflows on a \$5B scale produces clear, impressive results. And to apply them in a live project environment within a massive project team you need a unique perspective of the opportunities and hurdles and a deep appreciation of internal politics, change management and business process management.

The case study details all phases of the implementation role including discovering current business workflows and how to identify opportunities to overlay advanced BIM workflows to a familiar way of working.



Caitlin Shields - Associate and 5D Quantity Surveyor for Mitchell Brandtman

Caitlin's expertise in 5D Quantity Surveying combined with her in depth knowledge of the construction and development industry has seen her play an integral role within the Mitchell Brandtman 5D Cost Planning team on some of the company's largest and most challenging projects.

In her career, Caitlin has been involved in the delivery of projects varying in range from local townhouse developments through to major aged care facilities, multi-residential developments, public and private hospitals, helicopter maintenance facilities and more recently led the delivery of MB's 5D+4D BIM implementation role on the \$5B+ KVMRT rail project in Kuala Lumpur for construction international giant, Gamuda.

With over 15 years with the firm, Caitlin has a wealth of knowledge to share and is regularly invited to provide guest lectures and presentations on the subjects of Cost Planning, BIM (Building Information Modeling) and 5D Quantity Surveying at various national universities and industry bodies.

Caitlin is a recognised and respected leader amongst her peers for her knowledge and use of technology to drive positive industry change.

14: Benefiting from Industry 4.0 – best practices for integration of IoT in construction.

Embedded construction technologies have exploded in recent years and promise a whole new way to use internet of things (IoT) enabled solutions for productivity and safety improvement. But they also mean another technology decision for project and construction teams to understand, implement and manage. This discussion will share some best practices for scoping, approaching and managing the IoT journey for construction project teams from an IoT construction technology startup's point of view. We'd like you to understand how best to confidently control project cost and timing delivery by unlocking daily site and supply chain activity data.



Matthew Lickwar - COO & Co-Founder, Ynomia

Engineering, technical operations and process specialist with over 17 years experience in international management roles in the USA, Europe, Asia and Australia. A significant portion of my experience comes from over 10 years in the automotive industry expanding the footprint of a top 20 global supplier; implementing products and lean operations on an international scale.

My role at Ynomia has been leading and supporting the IoT software and hardware technology roadmap alongside CSIRO's Data61, our technology development partner.

15: Why 4D is the new standard for project planning?

4D is an extension of 3D with the time, included in addition to other three dimensions. Setu's 4d simulation helps all the project participants, including the architects, contractors, designers and the owners to visualize the whole series of construction events and understand the progress of construction activities throughout the lifetime of the project. The

project construction sequencing or the schedule to BIM model is linked to show the real time simulation of construction sequence in an animated video. The clients can compare the planned vs. the actual construction schedule throughout the project life cycle, based on 4D presentation. They can explore 4D simulation for supporting construction planning and can assess the impact of proposed design on construction schedule and work process. State of the art software enabling project teams to plan construction operations effectively by identifying potential problems and evaluating alternatives. Using BIM models, construction planners are able to simulate construction activities in their planned sequence, detect clashes and interference problems, improve construction schedules, track materials and can manage supply chain. 4D phasing acts as a powerful communication tool between project team and clients, resulting in better understanding of project milestones and improved construction plans. Delays and construction rework are minimized as project managers can carefully plan and coordinate construction operations down to the last detail both in time and space through 4D Phasing. All design elements are collaborated onscreen in 4D and thus the construction team can improve accuracy in construction sequencing.



Nishant Gujarati - PMP | Director for SETU Projects

Nishant is a qualified project manager, engineer and planner with over 20 years' of experience on projects of value exceeding \$ 9.52 billion delivering services of project management, project planning & program interrogation; program delivery strategy formulation and contractual claim assessment/ defence. His work exposure covers large and complex multi-disciplined building & infrastructure works; with

varied forms of procurement from Managing Contractor and Early Contactor Involvement, design & construct and construct only forms; covering project delivery phases: master planning & feasibility programs, design program management, procurement advisory, delivery & controls, handover and transition to operations. He has represented the interests of clients and contractors on public and private sector projects.

16: Improving project predictability with AI

Poor predictability in projects is destroying value unnecessarily. With poor predictability, we blindly follow our forecasts until the evidence suggests otherwise. Yet, improved predictability allows our project teams to take early corrective action, when its least expensive and when options are plentiful. Artificial intelligence can significantly improve upon the current situation. Unlike us, artificial intelligence can learn from huge datasets giving it thousands of years of experience from which to draw upon when making forecasts. In this presentation, Alan McFadyen shares the results and new possibilities of using artificial intelligence to make projects more predictable.



Alan McFadyen - Founder & CEO, BitWinder

Alan is a chartered engineer with 25 years' experience in project management and engineering across the Technology and Infrastructure sectors. His career began in Scotland where as an engineer, he first discovered and studied artificial intelligence. As his career progressed, he developed a passion for project and people management. His experience includes senior management roles on multibillion-dollar mining projects and the management of large project portfolios in excess of one billion dollars. Most recently he led a technology project delivery function for BHP's Coal business. Alan continued to maintain a keen interest in artificial intelligence, leading him to identify an opportunity for its use in project management. The result was BitWinder, the company which Alan founded to innovate with artificial intelligence in project management.

17: Is innovation in PC heading in right direction and if not, whats missing.



Laurie Bowman - Principal for Synchrony

Laurie Bowman's degrees are CCP DRMP EVP PSP

Laurie Bowman, CCP DRMP EVP PSP is passionate about improving the professionalism of project controls and risk management on complex projects. Laurie is the Principal for training organisation Synchrony, where his focus is on helping clients achieve successful project, program and portfolio management outcomes through training, coaching and certification. Synchrony is an Approved Education Provider (AEP) for AACE International and is an Accredited Training Organisation (ATO) for APMG International. Laurie has over 20 years' experience as an engineer and manager on a variety of complex, multidisciplinary engineering and construction projects having worked with government, owners, consultants and contractors. Laurie is a registered mentor with both AACE International and Engineers Australia and currently serves on the committee for Engineers Australia's College of Leadership and Management in the Australian Capital Territory and serves as the AACE International Regional Director for Asia Pacific (Region 8).



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Panel discussion and Audience Q&A @ Olympic Room A : Present and future of Project Controls – in terms of profession and technology



Loretta Hudson
Victorian Portfolio & Program Management Partner for EY, Melbourne, Aus



Stacey Wehmeier
Executive Director Project Controls for Synergy



Simon White
AERO Project Controls Manager for BAE Systems



Alex Wong
Associate Director Project Control for Sydney Metro

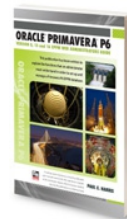


Keith Farrell
Manager – Project Planning and Controls for Jacobs

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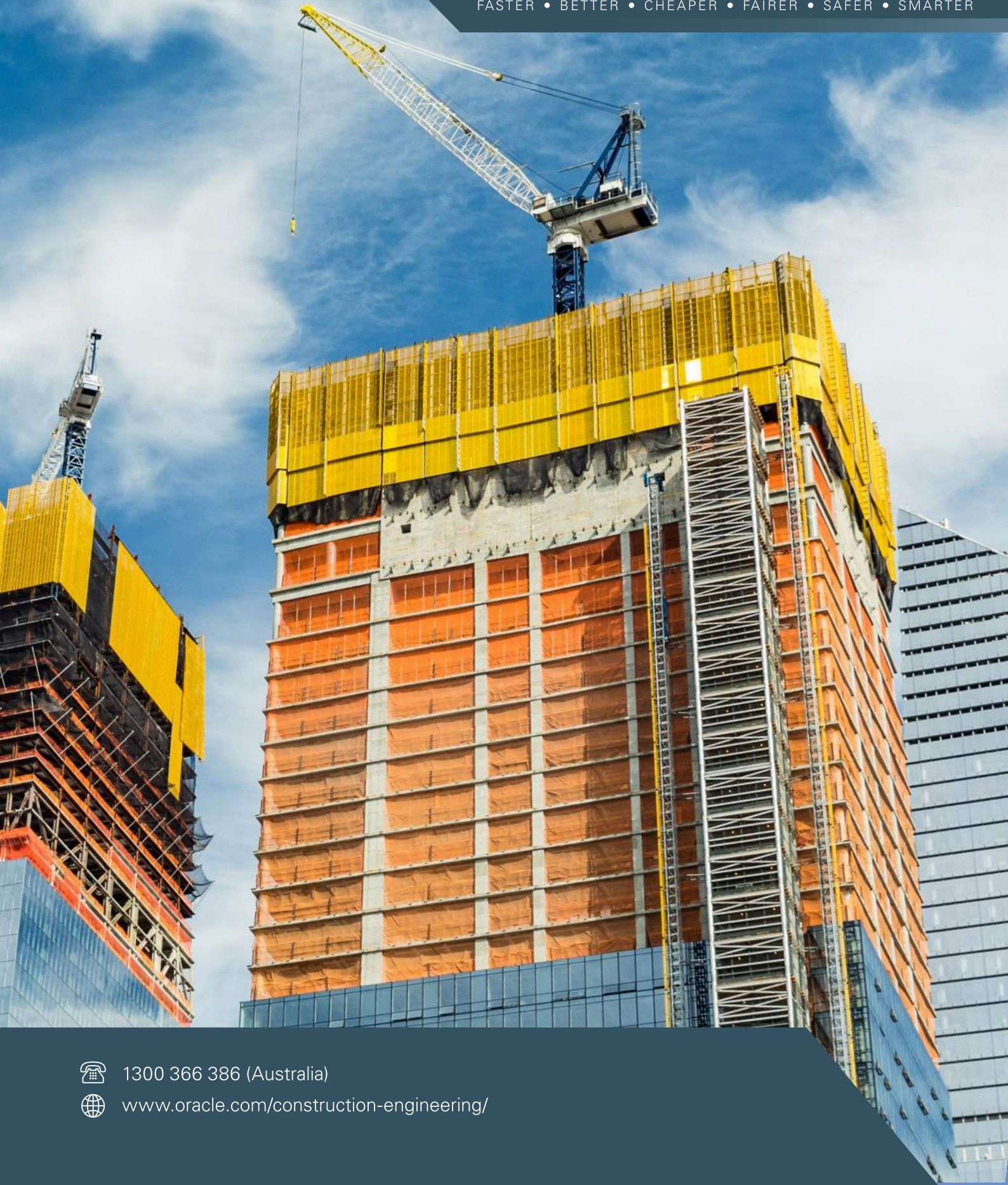
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About us



Project Controls Expo is organised by ProjectControlsOnline.com (PCO) also popularly referred to as "Global Home of Project Controls".

PCO is the largest Project Controls central repository and knowledge base with presence in all 7 continents and over 150 countries. We are first choice of all Project Controls stakeholders (providers and consumers) as a venue for informational exchange across all industries that apply Project Controls principles.

Visit PCO to explore its Premium features such as Video Training Modules and Premium Library along with many other services i.e., White Papers and Presentations, Glossary, Conference Presentations, Free Library, Paperback Literature, Practitioners Guide, Blogs, Tools and JobZone, for the benefit of Project Controls Community.

PCO is managed by a global network of Senior Project Controls professionals who come from a variety of different industries. PCO leadership consists of "Core Team" together with a "Board of Advisors" from around the world. Under this leadership team, PCO boasts an impressive band of subject experts whose expertise spans the full spectrum of Project Controls. We are independent and not biased towards any technology, process, software or company.

PCO is a non-profit organisation and the revenue generated from its features is invested into its maintenance and further enhancement. All the team members are volunteers and working towards achieving our following vision

- To be the first choice of all Project Controls stakeholders -- providers and consumers
- To promote an universal understanding of Project Controls value and processes
- To develop a central repository of data on Project Controls
- To generate awareness and offer expert guidance on Project Controls tools & practices.
- To build the first exclusive network of genuine Project Controls practitioners and their customers.

Hope you enjoy your meet at Expo and we always look forward to your suggestions to help us improve.


Thanks,

PCO & Expo Team



Project Controls

EXPO

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