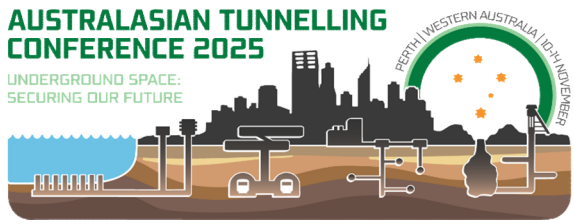


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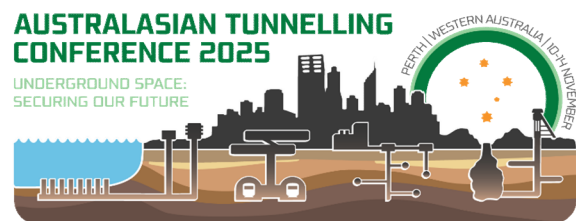
Monday 10 November 2025				
08:30	Registration			08:30
	Meeting Room 1	Meeting Room 9	Meeting Room 10	
09:00	Meaningful Quality Control for Shotcrete <i>Des Vlietstra, Glen Maclellennan, Caroline Bierne, Arnold Dix, Stefan Bernard and Tony Cooper</i>	Risk Management for Underground Works <i>Bill Newns, Alex Gomes, Arnold Dix, Roger Irvine, Tom Roper, Randy Essex, Rob Nievergelt, Phil Clark and Ted Nye</i>	Geospatial Applications in Tunnelling and Underground Spaces Carl Falkner, Steve Wilson, Matt Jarvis, Brett Growcock, David Ibbotson, Luke Moffat, Lewis Walsh, Blanca Payas and Steven Langley	09:00
10:30	Morning Tea			10:30
10:45				10:45
11:00				11:00
11:15	Meaningful Quality Control for Shotcrete (continued)	Risk Management for Underground Works (continued)	Geospatial Applications in Tunnelling and Underground Spaces (continued)	11:15
12:30	Lunch		Lunch	12:30
13:00			Geospatial Applications in Tunnelling and Underground Spaces (continued)	13:00
13:30	Meaningful Quality Control for Shotcrete (continued)	Risk Management for Underground Works (continued)	Afternoon Tea	13:30
14:30				14:30
15:00	Afternoon Tea		Geospatial Applications in Tunnelling and Underground Spaces (continued)	15:00
15:30	Meaningful Quality Control for Shotcrete (continued)	Risk Management for Underground Works (continued)		15:30
17:00	Workshops Conclude			17:00
17:30	Conference Sundowner BelleVue Ballroom 1 + Foyer			17:30
19:30	Day 1 Conclude			19:30



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Tuesday 11 November 2025				
07:30	Registration			07:30
	ACCIONA Room (BelleVue Ballroom 2)			
08:30	Opening Ceremony			08:30
09:15	Keynote Presentation			09:15
	Chinese technological developments and innovations in the tunnelling industry Jenny Yan (ITA Immediate Past President - China Railway Academy Group Co., Ltd)			
10:15	Morning Tea			10:15
	ACCIONA Room (BelleVue Ballroom 2)	Meeting Room 1	Meeting Room 2	
	Linings and TBMs	Underground mining	Tunnelling systems	
10:45	Efficient design in the Alkimos intake and outfall tunnels Kamalachandran Katpakanathan, Michael David	Hydropower, mature and proven mechanized technology for tunnel and shaft construction supporting the implementation of sustainable clean energy transition Karin B��ppler	Split ventilation systems for road tunnel Cristian Biotto	10:45
11:00	Design challenges on Western Harbour Tunnel mega TBM segment and cross passages Harry Asche	Integrative feedback loops: Optimised tunnelling with digital platforms to improve efficiency, safety, and sustainability through a paperless Permit-To-Tunnel process Kaylah Macintosh	Ventilation challenges and opportunities at tunnelling construction operation – Snowy 2.0 powerhouse complex ventilation Murray Jamieson	11:00
11:15	Autonomous tunnel boring machines in action Daniel Boylan	Influence of strain-softening behaviour of fissured clays on deep shaft excavations Ardie Purwodihardjo	A study of mitigation strategies against excessive trackway depressurisation in stations with full-height platform screen doors Kerem Oguz, Ozgur Ceylan	11:15
11:30	Design of deep undrained tunnels for groundwater pressure using Australian Standards Hamid Alaeddini	A cutting pick for tunneling roadheaders to improve sustainability Warren Roach	GNSS repeater trial at the Cooks River crossing tunnel, Sydney NSW Phil Clark	11:30
11:45	Comparative analysis of crack width calculation methods for tunnel lining design Nima Shafiei, Chun Ng	Assessment of seismic wave velocity in underground mines using optimized learning algorithms Hanan Samadi, Fidelis Suorineni	Thermal properties of the Triassic rock formations across the Sydney region for the use in tunnel ventilation design James Davidson	11:45
12:00	A comparative study on 2D numerical modelling methods for tunnel junctions Catherine Chan	Effects of in-situ principal stress magnitudes on unloading strength Abtin Farshi Homayoun Rooz	Muck discharge technology and application through slurry circulation system on the EPB TBM Zhiguo Zhang	12:00
12:15	Shallow urban tunnelling method in complex geological conditions; Case study: Naghsh-e-Jahan Station-Line 2 Metro of Esfahan Hanan Samadi	Temporary slender pillar design in low strength sandstone: A theoretical study on enhancing stability of temporary deep caverns Soroush Salari, Hansaja De Silva, Manjesh Narayana	Advanced belt conveying systems and processing plants for tunneling projects – Insights from Gotthard spoil management Lot 111 Pierre-Alain Scherwey	12:15
12:30	Lunch			12:30
13:30	ACCIONA Room (BelleVue Ballroom 2)			13:30
	Keynote Presentation			
	Smart monitoring of tunnels Wout Broere (Professor of Underground Space Technology - Delft University of Technology)			



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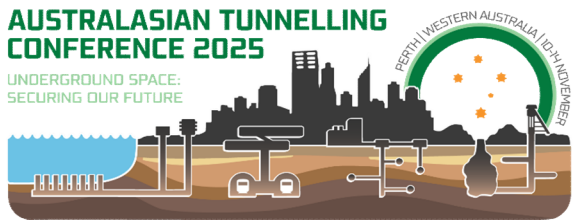
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Tuesday 11 November 2025				
	ACCIONA Room (BelleVue Ballroom 2)	Meeting Room 1	Meeting Room 2	
	Linings and TBMs	Caverns <i>Proudly sponsored by Jacobs</i> Jacobs	Tunnelling systems	
14:30	Melbourne North East Link – TBM launch temporary works David Kubik	Design and construction of the ASI shaft within the Albert Street station cavern, Cross River Rail, Brisbane Alexander Rogan, Ben Swinn	Validation of plume dispersion modelling for approval/acceptance against CASA requirements Conrad Stacey	14:30
14:45	North East Link segmental lining lessons learnt - from design to construction Michael Behrens, Renee Shi	Design and testing of BA anchors for temporary support of reinforcement in the cavern linings of the Cross River Rail project Strath Clarke	The critical velocity saga Conrad Stacey	14:45
15:00	Sydney Metro West – Eastern Tunnelling Project – TBM temporary works David Kubik	Design and construction challenges for the TBM traverse through Brisbane's partially excavated Albert Street Station cavern Michael Habte	Enhancing operator enclosure air quality in tunnelling operations: addressing silica dust exposure and compliance through AS/ISO23875 Simon Rooney, Jeffrey Moredock, Kate Cole	15:00
15:15	Repurposing Roma Street station’s temporary access adit as an emergency egress tunnel Maria Lecina Moraleda	Design and construction of the Woolloongabba station caverns for Brisbane’s Cross River Rail project Bernard Shen	Challenges implementing AS61508 on infrastructure projects Peter Kroon	15:15
15:30	Afternoon Tea			15:30
	ACCIONA Room (BelleVue Ballroom 2)	Meeting Room 1	Meeting Room 2	
	Linings and TBMs	Caverns <i>Proudly sponsored by Jacobs</i> Jacobs	Asset management	
16:00	Impact of construction phase on the interaction between lining and rock mass in pressure tunnel and shafts Mahdi Zoorabadi	Investigations for tunnels and storage caverns Ian Gray	Durability design for tunnels and approaches Frank Papworth	16:00
16:15	Insights into the load transfer mechanisms of grouted rock bolts under tension Amin Emadi	Snowy 2.0 down stream surge shaft chamber geological/geotechnical hazards and design challenges Ana Palomo, Javier Sotomayor Miqueles	Advanced engineering methods to extend and expand the use of reclaim tunnels at Pilbara mine sites Govinda Pandey, Ji Wang Lee	16:15
16:30	Use of precast lining within the mined spurs on Sydney Metro West - Western tunnelling package Nick Lewis	Observational method for the deep powerhouse cavern construction of Snowy 2.0 project Ivan Ching, Kishor Acharya	Application of geospatial data and artificial intelligence in underground infrastructure development near existing structures Wei Wang	16:30
16:45	Robofactory: the future of large-scale TBM segments production Klaus Pini	Ground response for construction of fifteen caverns in diverse ground conditions in Sydney Michael Salcher, Mark Trim	Challenges in electrical and mechanical asset renewal in established tunnels Jaime Cadena Gomez	16:45
17:00	Overcoming space constraints in Australia’s Suburban Rail Loop East Tunnels South: umbilical and flying launch systems Valeria Tata, Jake Mackell	Innovations in strand anchor design as part of the support system for a deep underground cavern Sander Van Ameijde		17:00
17:15	Spoil reconciliation in slurry TBM tunnelling: a literature review and framework for field application Manuj Taneja, Massimiliano Terenzi	Modelling the impact of blasting on excavation perimeters Peter Dare-Bryan		17:15
17:30	Welcome Reception BelleVue Ballroom 1 + Foyer <i>Proudly sponsored by AusTunnel</i>			17:30
18:30	Young Members Boat Cruise Departs from Barrack Street Jetty			18:30
21:00	Day 2 Conclude			21:00

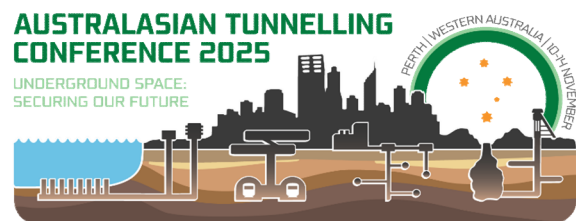




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Wednesday 12 November 2025				
08:00	Registration			08:00
08:30	ACCIONA Room (BelleVue Ballroom 2)			08:30
	Keynote Presentation			
	Recent developments in large scale subaqueous tunnels Ozturk Ozgur (Executive Director - AECOM)			
	ACCIONA Room (BelleVue Ballroom 2)	Meeting Room 1	Meeting Room 2	
	Temporary support	Geotechnics	Case histories	
09:30	Designing canopy tubes for tunnel stability in weak ground: a comparison of analytical and 3D numerical approaches Arun Sarathchandran	Tunnel nearshore ground investigation for Alkimos seawater desalination plant, Western Australia Tony Gourlay	Design and construction of the Sydney Metro West turnback tunnels Andrew Merritt	09:30
09:45	Effect of recycled fine waste glass powder on workability performance in sustainable backfill Mehdi Serati	Engineering geotechnical model and geotechnical interpretation, Alkimos seawater desalination plant, Western Australia Tony Gourlay	Tunnel collapse and recovery Thomas Cheung	09:45
10:00	The mined tunnels of the Sydney Metro West – Western Tunnelling package: large spans, narrow pillars and heritage sewers Jeremy Nethercott	Seawater intake riser and brine linear outfall diffuser geotechnical pile design and impacts from tunnel construction, Alkimos seawater desalination plant, Western Australia Peter Retsos	Design and construction of Te Ara o Te Ata - Mt Messenger bypass project tunnel Katerina Howard	10:00
10:15	Primary support for the Albert Street Station cavern and main station entry shaft intersection, Cross River Rail, Brisbane Robert Elliott	Research on the monitoring technology of the Qingdao Jiaozhou Bay second subsea tunnel project Wenbo Zhang	The Blue Mountains Route clearance project - Tunnel lining modifications for the Zig Zag Ten Tunnel deviation Christian Bodner	10:15
10:30	Morning Tea			10:30
	ACCIONA Room (BelleVue Ballroom 2)	Meeting Room 1	Meeting Room 2	
	Temporary support	Geotechnics	Case histories	
11:00	Numerical analysis and design of an SEM tunnel through jet-grouted Coode Island silt Ashkan Shafee, Erich Kaese	Evaluating deterministic and probabilistic seismic hazard assessments for a tunnel project in Sydney: insights and comparisons Ching Dai	Research and application of key technologies of 15m super-large diameter single shield TBM in complex geological highway tunnel Zhiguo Zhang	11:00
11:15	Research on the mechanism of shotcrete support based on the combined effect of rock-shotcrete Yisan Deng	Vibration impacts of roadheader excavations in Hawkesbury sandstone on underground structures Mark Sheffield	Delivering Watercare's Central Interceptor project, Auckland, New Zealand Jon Sickling	11:15
11:30	Stability analysis of a nozzle headwall considering interaction with adjacent piles: Insights from Sydney Metro West – Western Tunnelling Package Ivy Zhang	Towards reliable UCS inputs for tunnel design: learnings from Snowy 2.0 Albert Chen	Southern Tunnel Works – A case history Noah Mackintosh, Thomas Bentley, Kenji Teruya	11:30
11:45		Dyke encounters in the Sydney basin: insights from 30 km of mined tunnel excavations Nick Lyons	Brisbane Metro - Surface monitoring of the Urban Canyon Drew Coulthard	11:45
12:00	Lunch		Diversity in Tunnelling Lunch Panellists: Alex Atkins, Arjun Shivasami, Isolde Piet	12:00
13:30	ACCIONA Room (BelleVue Ballroom 2)			13:30
	Keynote Presentation			
	The management of subsurface risks – GBR lessons learned and forgotten Randy Essex (Tunnelling and Risk Management Consultant - R J Essex LLC)			



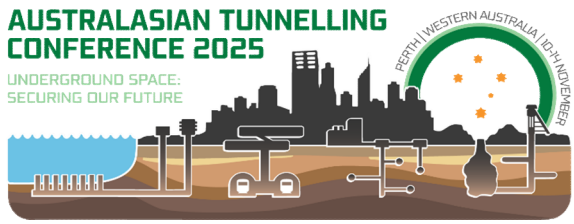
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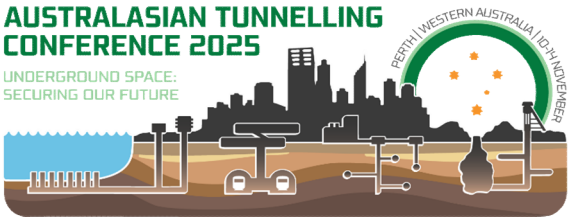
Wednesday 12 November 2025				
	ACCIONA Room (BelleVue Ballroom 2)	Meeting Room 1	Meeting Room 2	
	Sprayed concrete and ground support	Geotechnics	Planning, procurement and risk management	
14:30	Shrinkage cracking in slender shotcrete tunnel linings Erik Bernard	Tunnels and the geologist – are we using geologists effectively? Thoughts and case studies from a 20 year career Helen Baxter-Crawford	Important considerations when assessing options to manage ground risk on tunnelling and underground works Stephen Barrett	14:30
14:45	High temperature bond behaviour of Spray Applied Waterproof Membranes (SAWMs) Matthias Reinhold, Gokarna Bhatta	Tunnelling in hydrothermally altered Silurian sedimentary rock on Melbourne’s North-East Link Project Denis Tepavac	Methodology for comparing dangerous goods risks in road tunnels to those on alternative routes Conrad Stacey	14:45
15:00	Practical shotcrete design approach based on full-scale load-deflection tests using numerical analysis Joung Oh	Reducing cost and carbon emissions through rapid design optimisation during construction Thomas Roper	The novel approach to major tunnelling fire safety during the construction phase Luke Haines	15:00
15:15	Evaluating the setting behaviour of shotcrete with crushed waste glass as sand replacement Xuanyu Zhu	Effect of moving train load on tunnel deformation and track-tunnel interaction Hafsa Farooq	Selection of different arch shapes rock mass opening for underground space development – from use of rock reinforcement technique and excavation volume point of view Keith Kong	15:15
15:30	Afternoon Tea			15:30
	ACCIONA Room (BelleVue Ballroom 2)	Meeting Room 1	Meeting Room 2	
	Sprayed concrete and ground support	Groundwater control	Planning, procurement and risk management	
16:00	Optimizing artificial ground freezing design for cross passage construction: innovations and practical considerations Chin Fung Tsang	Using the Lugeon test in tunnelling groundwater control - analysis and interpretation Harry Asche	Study on the cross-section layout scheme for the longmenshan Ultra-long Highway Tunnel Xie Tang	16:00
16:15	Laboratory test methods and results for double shear performance of Australian CT bolts in simulated strata Simon Worrall	Waterproofing system selection for tunnel linings Ulrike Pelz	Evaluating progress: trends in respirable crystalline silica exposure in tunnel construction (2016–2024) Kate Cole	16:15
16:30	Characterization of fiber-reinforced concretes activated at very early ages Nicolas Leclere	Exploring innovative groundwater control methods and waterproofing techniques in Sydney tunnels Andrew Talos	Importance of risk mitigation for a live tunnel refurbishment project An-Tzu Chang	16:30
16:45	Stress analysis of composite shell lining interfacesurface in hard rock tunnel Shuyi Wen	Optimum pressure for rockmass grouting between TBM segmental linings of a twin tunnel Iris Yim	Using AI agents for risk mitigation a case study - the Lane Cove tunnel collapse Ted Nye	16:45
17:00	Evaluation of rockbolt performance using field testing and monitoring Subhash Soni	Water ingress into UECP-2A tunnel – its mitigation and control David Lees		17:00
17:15	Low-carbon fibre reinforced concrete in sprayed, precast & cast-in-situ concrete underground ppplications in Singapore Cheng Chian Gan	Groundwater control in tunnelling using injected polymer barriers Ron Colman		17:15
18:30	Conference Dinner Fraser's Kings Park - 60 Fraser Avenue, Kings Park WA 6005 Proudly sponsored by CPB Contractors			18:30
22:30	Day 3 Conclude			22:30



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Thursday 13 November 2025				
08:30	Registration			08:30
9:00	ACCIONA Room (BelleVue Ballroom 2)			9:00
	Keynote Presentation			
	Advances of trenchless technology for underground infrastructures Albert Shou (Chairman of ISTT - National Chung-Hsing University)			
	ACCIONA Room (BelleVue Ballroom 2)	Meeting Room 1		
	Pipe jacking and trenchless technologies	Shafts and cut and cover		
10:00	XXL pipe jacking: technological aspects of large-diameter and long-distance drives Ben Hayes	Design and construction of a non-conventional elliptical shaft to support efficient TBM operations Lorenzo Facibeni		10:00
10:15	Mechanized cross passage construction in tunnelling projects Maximilian Bischoff	Multi-criteria analysis of construction methodologies and lining options for deep bored shaft excavations Peter Booth		10:15
10:30	Gold Coast Light Rail: an example of capitalising on underground space to deliver above ground infrastructure Dan Keating, Andrea Edney	Geotechnical design and performance of a cut and cover structure in Sydney Dimitra Zografou		10:30
10:45	Morning Tea			10:45
	ACCIONA Room (BelleVue Ballroom 2)	Meeting Room 1	Meeting Room 2	
	Linings and TBMs	Shafts and cut and cover	Digital engineering	
11:15	Comparative study on waterproofing and drainage design and lining water pressure calculation methods for tunnels in China and Europe Ning Wang	Westmead metro station excavation: design challenges and ground performance Howard (Yit Haw) Toi, Chia Weng Boon	Automated extraction of geotechnical data from core photography for tunnelling projects using artificial intelligence Sam Johnson	11:15
11:30	Assessing the geotechnical feasibility of shallow TBM launch in India’s urban landscape: a focused case study Gowtham Sri Sai Mallavarapu	Ground anchor design considerations and installation challenges within saturated Sydney Basin alluvium: A case study for Sydney Metro - The Bays Station Fernando Ceballos Martinez	Digital Engineering - lessons learnt from a major Sydney tunnel project Mark Sheffield, Chloe Williams	11:30
11:45	Research on rock breaking tests and efficiency evaluation of cutter disk hobs for TBM with large taper face Jianbin Li	Impact of deep underground station excavation on existing assets in Sydney, Australia Sujatha Manoj	Image recognition and numerical output extraction in tunnelling using convolutional and artificial neural network Nick Mirsepassi	11:45
12:00	Pioneering innovations for tunnelling Massimo Franceschi, Mark Fox	Large secant piled temporary peanut shaft for the Alkimos Desalination Plant in Perth Jose Ramon Bombin Saiz	Use of photogrammetry to assess overbreak in tunnels Matthew Smith	12:00
12:15	Design criteria for underground structures – structural verifications of waterway concrete linings in pumped storage power plants Massimo Cadenelli, Federico Cippà	Melbourne’s Metro Tunnel – City Square rock pillar replacement wall Alistair Watson	Enhancing tunnel design and construction through Building Information Modeling (BIM): a case study approach Anne Sherin Arokia Gnana Rajesh	12:15
12:30	Lunch			12:30
13:30	ACCIONA Room (BelleVue Ballroom 2)			13:30
	Keynote Presentation			
	Milestones, challenges and opportunities for tunnelling and underground infrastructure in Australia Ulrike Pelz (Senior Technical Director – Tunnels & Major Projects - GHD)			



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Thursday 13 November 2025					
	ACCIONA Room (BelleVue Ballroom 2)		Meeting Room 2		
	Linings and TBMs		Digital engineering		
14:30	Real-time geological prediction technology based on TBM rock-breaking seismic source HSP method and engineering practice Song Lu, Xu Wang		Advancing geotechnical construction phase workflows: leveraging digital tools for improved construction outcomes Harry Buchanan	14:30	
14:45	The use of optical televiewer and endoscope imaging methods in TBM tunnels to predict ground conditions Kara Stariha		The hidden engine of project success: Best practices for managing large 3D models and 2D documentation in infrastructure projects Elnaz Saminfar	14:45	
15:00	To jamb or not to jamb: evaluating cross passage permanent support systems Thomas Cheung		Automation of tunnel modelling for enhanced project efficiency Fernando Ceballos Martinez	15:00	
15:15	Artificial ground freezing for cross passage construction Chor Kin Tsang		Automatic and real-time positioning of vault and full round tunnel shutters using camera sensor units. Matt Jarvis	15:15	
15:30	Comparison of the effects of new and existing building developments on large tunnels Duorina Duorina			15:30	
15:45	Afternoon Tea			15:45	
16:15	ACCIONA Room (BelleVue Ballroom 2)			16:15	
	Closing Ceremony				
16:45	Day 4 Conclude			16:45	