

VIBRANT FUTURES SOLID FOUNDATIONS

International Public Works Conference
HOBART • TASMANIA • 25-29 AUGUST 2019



Conference program

Hotel Grand Chancellor
Hobart, Tasmania

#IPWC2019
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KOMATSU

Day 1 – Sunday 25 August 2019

9:00 - 2:00 PM	IPWEA Joint Meeting
12:30 - 4:30 PM	YIPWEA Professional Development Workshop – Personality Types with Craig Chappell
5:00 - 6:00 PM	International and Young Delegates Welcome – Grand Chancellor (By Invitation)
6:00 - 8:00 PM	Welcome Reception and Welcome to Hobart from Mayor of Hobart – Grand Chancellor

COMPLETE

Day 2 – Monday 26 August 2019

7:30 - 8:15 AM	Breakfast – Trade Display	
Session 1 (Plenary) Concert Hall Please be seated by 8:30am 8:30 - 10:30 AM	Official Opening Ceremony & Welcome MC Robyn Moore Welcome to Country Governor Tasmania, Her Excellency Professor the Honourable – <i>Kate Warner AC</i> IPWEA Australasia President Address IPWEA Leading the way in public works – <i>Matthew Greskie</i> IPWEA Australasia CEO Address – <i>Cathy Morcom</i> Komatsu Platinum Sponsor Address – <i>Tim Freestone, Tasmanian State Manager</i> Engineers Australia President Address – <i>Hon. Trish White, National President and Chair, Engineers Australia</i> IPWEA Individual Awards (Keith Wood Medal, Public Works Leader and Young Emerging Leader) IPWEA Excellence Awards Finalist's Celebration Keynote Address: “The Power of the Word in Creating Vibrant Futures from Solid Foundations” – Robyn Moore	
10:30 - 11:00 AM	Morning Tea – Trade Display	Sponsored by LG Focus



Session 2 11:00 - 12:30 PM	2A: Asset Management State of Play	2B: Water / Wastewater I	2C: Smart Street Lighting & Smart Communities	2D: Pavement Materials	2E: Transport Planning	2F: Emergency Management
	Concert Hall	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Harbour View 1	Harbour View 2
Chair	Chris Champion	John Roydhouse	Bill Woodcock	Ben Clark	Ian Daniels	Adela Parnell
11:00 - 11:30 AM	Explaining Asset Management to decision makers Chris Champion IPWEA	Wastewater Inlet Works Structural Condition Assessments – Lessons Learned Janice Wilson, Whitsunday Regional Council	IPWEA Street Lighting & Smart Controls Update Graham Mawer, Next Energy Implementing the smart city with smart lighting controls, communications networks and multi-function poles Robert Matchett, ENE-HUB Nathan Pillai, Light Source Solutions Keith Henry, Telensa	Emerging Technologies and Innovation – Who will Deal with Them? Kym Neaylon, Center for Pavement Engineering Education	Gold Coast: A City Embracing Transport Disruption Matthew Tilly, City of Gold Coast Council	10 May 2018 Hobart Flash Floods: An Emergency Management Response Geoff Lang, City of Hobart
11:30 - 12:00 PM	Can Small to Medium Sized Local Councils Ever Be Sustainable? Tim McCarthy, Morrison Low	Win-Win with Waste-Water Peter Porch, Northern Areas Council		Can Marginal Materials Matter? You Bet! Malcolm Styles, Engineering Management Styles	Preparing Local Government for Driverless Vehicles Peter Damen, Level 5 Design Pty Ltd	Emergency Management and Prioritisation of Tasmanian Bridge Infrastructure Through Rapid Multi-Criteria Assessment Sally Fracalossi, Jacobs
12:00 - 12:30 PM	Are Things Getting Better, Staying the Same, or Getting Worse...? Stephen Verity, IPWEA Australasia	Trusting Your Expert Gut in Wastewater Network Renewal Planning James Thorne, WSP Opus	Sean Fleming & Jeff Libis, LED Roadway Lighting Christian Mildner Sylvania, Connected Solutions Panel and Q&A suppliers Moderator, Graham Mawer	Asphalt Reinforcement with Polyester Grids: Practical Experience in Roads & Airfields Simon Ouk, Huesker	Brisbane Valley Rail Trail – Australia's Longest Trail Andrew Johnson, Somerset Regional Council	Can't Stop the Floods, but Aim High During Restoration and Recovery Tim Mackney, Tweed Shire Council

Conference handbook



12:30 – 1:30 PM	Lunch – Trade Display	
Session 3 (Plenary) Concert Hall 1:30 – 3:00 PM	Silver Sponsor Address – Scott Williams, Founder & Director, Complete Urban “Beyond informed to transformed!” (human beings vs human reacting’s) <i>Registered delegate Partners Welcome</i> In this highly entertaining workshop, Robyn will take you on an unforgettable inquiry which will clear away the complaints, noise and distractions that steal so much time at work and at home...and which also steal leadership, excellence, professionalism, results, family and relationships.	Workshop presented by Robyn Moore
3:00 – 3:30 PM	Afternoon Tea – Trade Display	



Session 4 3:30 – 5:00 PM	4A: Asset Management Case Studies	4B: Water / Wastewater II	4C: Road Network	4D: Roads I	4E: Good Stuff I	4F: Stakeholder Engagement
	Concert Hall	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Harbour View 1	Harbour View 2
Chair	Samantha Gain	Oliver Heyward	Warren Sharpe	Randell Stott	Chris Champion	Mark Varmalis
3:30 – 4:00 PM	Strategic Asset Management, an Inconvenient Truth? Matthew Skirving, City of Launceston	Temuka Water Event (Asbestos) Ashley Harper, Timaru District Council	Taking the highway or the walkway? – How to make walking more competitive through integrated design - Two Tasmanian case studies Birgit Kruse, Department of State Growth	10 Year Performance Review of Insitu Stabilised Unsealed Roads Stuart Dack, AustStab	Alliance Contracting in Maintaining Public Areas in Helsinki Ville Alatyppo, City of Helsinki	Volunteers Providing New Infrastructure Paul Gallagher, Nambucca Shire Council
4:00 – 4:30 PM	Asset Management is Not as Hard as You Think Sarath Manatunga, Somerset Regional Council	Growing Pains – The Western Water Story Dan Stevens, Beca	Yamala Feeder Roads Options Study Gerhard Joubert, Central Highland Regional Council	Circular Economy: Benefits of Using Crumb Rubber from Tyres in Australian Roads Liam O'Keefe, Tyre Stewardship Australia	APWA's 2019 Top 5 Trending Technologies in Public Works Scott Grayson, APWA	Courageous Conversations when Engaging Stakeholders – How to Make Them Happen Michelle Feenan, Engagement Plus
4:30 – 5:00 PM	Useful Life of Infrastructure Assets – Understanding and Evidence in Practice Justin Weligamage, Toowoomba Regional Council & Graham Jordan, Lemmah	Remediating Treatment Plant Structures That You Can't Shut Down: A Case Study Josh Plummer, Hunter H2O	Utilising ADAC, the IPWEA BIM Standard Lee Gregory, 12d Solutions	Retrofitting MASH TL2/TL4 and TL5 Tested Bridge Crash Barriers The Experience in Belgium Dane Hansen, LB Australia	Data Visualisation – the New Currency of the Water Industry Shenan Daniels, TasWater	Beyond Roads, Rates and Rubbish-Innovation in Managing Community Expectations with Intense Growth and Major Arterial Roadworks Nitin Gupta & David Serpell, Wyndham City Council
7:00 – 10:00 PM	Monday Evening Hobart Waterfront Taste of Tasmania Evening at Princes Wharf 1					technologyone

Day 3 – Tuesday 27 August 2019

7:30 – 8:15 AM	Breakfast – Trade Display
Session 5 (Plenary) Concert Hall 8:30 – 10:30 AM	<p>IPWEA Excellence Awards Finalist's Celebration YIPWEA Chair Address – Ben Clark CSU Engineering: A New Chapter in Engineering Education – Professor Euan Lindsay, Foundation Professor of Engineering, Charles Sturt University Q&A A Graduate's Perspective – James Thompson, Cadet Engineer, Eurobodalla Shire Council Research - Opportunities and Risks for Today's Workforce Leaders – Geoff Webb, GR Webb Consulting Pty Ltd Panel Discussion: Ben Clark YIPWEA National Chair, James Thompson, Cadet Engineer, David Lawry President APWA Prof Euan Lindsay, Pam Wilson YIPWEA NZ Management by Millennials: As the baby boomer workforce ages and rapidly approaches retirement, the new wave of managers are all millennials. What changes to workplaces, structures, and decision making can we expect?</p>
10:30 – 11:00 AM	Morning Tea – Trade Display

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Session 6 11:00 – 12:30 PM	6A: Buildings	6B: Stormwater I	6C: Roads II	6D: ARRB Transport Safety	6E: Project Management I	6F: YIPWEA I
	Concert Hall	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Harbour View 1	Harbour View 2
Chair	Paul Kellick	Martyn Glover	Julie Kerr	Peter Higgs	Ian Daniels	Hannah Atkins
11:00 – 11:30 AM	Service-Led Asset Management – It's Not Only About Condition Russell Caird SPM Assets	Simpson Street Tunnel Rehabilitation and Lining Stage 1 Rohan McKinnon, Warrnambool City Council	Breaking Barriers: Connecting Engineering and Finance in Tasmanian State Roads Asset Valuation Nataliya Katsman, Department of State Growth	ARRB Introduction and Current Research Activities Dr Richard Yeo ARRB Chief Operating Officer	Aquatopia – Fairfield City Council Journey from Public Pool to Community Water Park David Niven, Fairfield City Council & Jordan Fisher, COMPLETE Urban	Stormwater Pipe Condition Assessment – if Only Animals Could Talk Clarissa Campbell, Moreton Bay Regional Council
11:30 – 12:00 PM	Improving Building Asset Management Data – Allocating Funds for Capital & Maintenance Projects Ashay Prabhu Assetic	Simpson Stormwater Management System Stage 2 Luke Coughlan, Warrnambool City Council	SMARTCONSTRUCTION Integrated Management of Project Design, Construction, QA and Completed Assets Aaron Marsh, Komatsu		Does Local Government Want to Make Road Safety a Priority? (What Can Help Unlock the Potential in Your Road Infrastructure?) David McTiernan, ARRB	Aquatic Centres and Splash Parks: Design and Management for Sustainability Sally Jeavons, @leisure Planners
12:00 – 12:30 PM	Resurrecting an Australian Icon: Rebuilding the Waltzing Matilda Centre in Outback Queensland Brian Jackson Peak Services (Part of the LGAQ)	A Contractors Experiences in Stormwater Asset Data Collection for Australian Council's Sean Rice, Proterra Group	Townsville City Council, From Condition Data to Informed Decisions Using PARMMS-Horizons Management Tool Ernesto Urbaez, Pavement Management Services (PMS)		Sports Complex Design Evan Heugh & Jared Pearse Complete Urban	Desperate and Data-less: Our Asset Management Journey Post-amalgamation Campbell Pfeiffer, Northern Beaches Council
12:30 – 1:30 PM	Lunch – Trade Display					

Session 7 1:30 – 3:00 PM	7A: Good Stuff II (Asset Management)	7B: Stormwater II	7C: Road Network Management	7D: ARRB Sustainability and Developments in Pavement Technology	7E: Project Management II	7F: YIPWEA II
	Concert Hall	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Harbour View 1	Harbour View 2
Chair	Paul Di Iulio	Anna Wilson	Renai Clark	David Hallett	Will Barton	Adela Parnell
1:30 – 2:00 AM	Native Title/ Aboriginal Cultural Heritage Compliance System for the Public Works Sector Mark Lamont, IPWEAQ	Case Study: The Importance of Development Compliance from an Asset Managers Perspective Shannen Whitfield, Sunshine Coast Council	Hydro Tasmania Road Network Management Norm Cribbin, Hydro Tasmania	Sustainable Road Materials Reuse and Repurposing of Waste Streams in Pavement Innovation Melissa Lyons, ARRB New Developments in Pavement Technology Including Structural Design, Rehabilitation Design, Laboratory Performance Evaluation and Full Scale Accelerated Performance Testing Findings Dr Didier Bodin, ARRB	Innovation Case Study in Sewewater Lee Foster, WSP	Partnering with the Enemy to Advance Asset Management Blair King & Raj Suppiah, Tararua Alliance
2:00 – 2:30 PM	Building Asset Management and GIS Capabilities Within Regional Australia Patrick McGuire, Shepherd Services	Waterways as social assets: Filling the gap in waterway design guidelines Katie Fletcher, Arup	Successful Implementation of ISO 55001 Standard for Road Network Management Nabin Pradhan, Downer		Engineers are Bad Project Managers Jeremy Rudd, Colac Otway Shire Council	Robot Walking School Bus Using Modified Footpaths Edmond Lascaris, City of Whittlesea
2:30 – 3:00 PM	Co-existing with Telecommunication Carriers Austin Morris & Jason Ip, Riverina Water County Council	Long Term Continuous Simulation: Lessons Learned from Real-Life Applications Martin Jacobs, Pitt & Sherry Consulting Engineers	Restoring Kunanyi / Mt Wellington's Great Short Walk, Hobart, Tasmania Alister Clark, City of Hobart	Using Emerging Data Sources to Measure Road and Travel Performance and Automated Vehicles (CAV) Road Readiness – Automated Assessment of Speed Signs and Lines Anthony Germanchev, ARRB	Changing the Focus: Providing an Equity Lens Over Capital Works Delivery Anthony Kyrkou, City of Whittlesea	MACK - Return on Investment Ben Clark, City of Adelaide
3:00 – 3:30 PM	Afternoon Tea – Trade Display					
Session 8 3:30 – 5:00 PM	8A: Good Stuff III (Asset Management)	8B: Stormwater III	8C: Road Safety / Traffic Management	8D: ARRB ARRB Local Government Guides to Best Practice Workshop	8E: Urban Renewal	8F: YIPWEA III
	Concert Hall	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Harbour View 1	Harbour View 2
Chair	Paul Kellick	Alan Millard	Randell Stott	Peter Pikor	Bill Woodcock	Callum Pearce-Rasmussen
3:30 – 4:00 PM	Procurement for Innovation – Making Innovation a Reality Aaron McGlade & Chris Marston, City of Greater Geelong	Development of a Critical Assets Database for the Sunshine Coast Council Andrew Priest, Sunshine Coast Council	The Evolution of Road Safety Auditing in Western Australia Kimberly Brosztl, City of Melville	Local Government Guides to Best Practice Workshop: - Sealed Roads - Unsealed Roads - Bridge Management - Materials for Road Construction Samantha Taylor, Melissa Lyons & Gareth Thomas, ARRB	Parramatta Road – “A New Identity for a Byword for Urban Blight” – or are we Dreaming? Paul Knox, Complete Urban	Journal of a Young Leader in Public Works – A Progressive Pathway Thomas Franzen, Eurobodalla Shire Council
4:00 – 4:30 PM	Organisational Integration of Drone Technology - Practical Lessons Joel Spencer, The Institute for Drone Technology	Waterbodies & Bio-Retention Asset Management - A Growing Concern Darren Carlson, Moreton Bay Regional Council	Local Government Experiences with Traffic Management in Local Communities Peter Damen, Level 5 Design Pty Ltd		Bayswater Streetscape - 6 to 4 Lanes - from Concept to Reality Matthew Hanrahan, Knox City Council	What Makes an Engineer Today? Cate Fennell, Parkes Shire Council
4:30 – 5:00 PM	Aerial Drone-Based Thermal Imaging to Detect Leakage from Sewage Lagoons Paul Davis, TasWater	Smart Linings for Longer Pipe Life James Gardner, Water Services Association of Australia	The Inveresk Intersection Project - Roundabouts V Traffic Signals Nigel Coates, City of Launceston		Challenges of City of Hobart Precinct Upgrade Works Mao Cheng, City of Hobart	The Tyranny of Distance’ - Challenges of Infrastructure Delivery in Remote Indigenous Communities Jo O'Brien, Tonkin Consulting

**Delegates free night to explore the dining delights of Hobart
YIPWEA Pub Night**

Meet outside Hotel Grand Chancellor at 6.30pm. Please note this event is at delegates own expense.

Day 4 – Wednesday 28 August 2019

7:30 – 8:15 AM	Breakfast – Trade Display
Session 9 (Plenary) Concert Hall 8:30 – 10:00 AM	Gold Sponsor Address – Gordon Sterling, Product Director, TechnologyOne IPWEA Excellence Awards Finalist's Celebration Keynote Address: The State of Waste – Mike Ritchie, Managing Director of MRA Consulting Group Q&A Improving Service and Reducing Costs Using a “Service Transformation Approach” Through Technology, Data Analysis and Service Re-engineering – Garry Brown, Managing Director - Asia, Serco Citizen Services Q&A
10:00 – 10:30 AM	Morning Tea – Trade Display



Session 10 10:30 – 12:00 PM	10A: Good Stuff IV	10B: Pavement Surfaces	10C: Asset Management Decision Support	10D: Pavement Management	10E: Environment	10F: IPWEA Best Practice
	Concert Hall	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Harbour View 1	Harbour View 2
Chair	John Kersnovski	Geoff Webb	Mark Varmalis	Tom Franzen	Gavin Harris	Samantha Gain
10:30 – 11:00 AM	Implications of Fluvial Debris on the Long Term Serviceability of Bridges Martin Jacobs, Pitt & Sherry Consulting Engineers	Crumb Rubber in Asphalt Roads – Where the Rubber Hits the Road William Brown, City of Mitcham	Gravel Road Asset Management – Prioritising Maintenance Work David Bremert, Rockhampton Regional Council	Best Practice for the Management of Local Government Concrete Pavements John Earls, City of Canada Bay	Coastal/ Foreshore Works for Remote Townships Australia Wide Specifically ONSLOW, Western Australia Mark Lee, Shire of Ashburton	Whats Happening in the ISO Asset Management World Peter Way, IPWEA
11:00 – 11:30 PM	Out of The Box - Breathing New Life Into Structural Asset Design Through Hybrid Structures and New Age Building Materials Joseph Ash, Wagner CFT	Microsurfacing – a Cost Effective Treatment for Low Trafficked Surfaced Roads Trevor Distin, Colas Australia	Digital Engineering for Local Government Infrastructure Planning and Management Ashish Shah, Logan City Council	Structural Modelling of Expansive Clay Subgrades Treated with Lime Scott Young, Stabilised Pavements of Australia	Strategy for Management of Former Landfills Within an Urban Area Nigel Brown, City of Whitehorse	The Jungle of Soft and Green Assets Implementing the IPWEA Practice Notes Paul Handcock, City of Melville
11:30 – 12:00 PM	Parking in the Future: Virtual Parking and Technology to Make Informed Decisions Craig Covich, Mosman Council	Fine Asphalt Trials for Low Traffic Volume Urban Roads in South Australia Rodney Ellis, Tonkin Consulting	We are Responsible - Understanding how Decisions Today will Impact Infrastructure Inter-generational Benefits Dejan Kovacevic, Assetic	Effective Life Cycle Management of Rural Roads Using AUS-SPEC Nandini Mehta, NATSPEC	Bio-infiltration Basin and Detention Basin Retrofit Design-Build Process and Techniques in Suburban Chicago Karen Kase, Hampton Lenzini and Renwick Inc	Conducting a Plant & Vehicle (Fleet) Management Health Check Ross Moody, IPWEA
12:00 – 1:00 PM	Lunch – Trade Display					

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Session 11 1:00 – 2:00 PM	11A: Good Stuff V	11B: Capital Works Delivery	11C: Asset Management The Game Plan	11D: Smart Cities	11E: People and Culture
	Concert Hall	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	Harbour View 1
Chair	Warren Sharpe	Alan Millard	Elspeth Moroni	Bill Woodcock	Doug Pearson
1:00 – 1:30 AM	Where did the Quality in Quality Assurance go? Geoff Webb, GR Webb Consulting Pty Ltd	A Hybrid Capital Works Delivery Model for a Regional Council Gerhard Joubert, Central Highlands Regional Council	Are you Audit Ready? Steve Hegedus, QLD NAMS Council Member	Generating Real Outcomes from Smart City Initiatives David Johnstone, Pitney Bowes Australia	Changing the Safety Culture Justin Menzies & Troy Anderson, Clarence Valley Council
1:30 – 2:00 PM	Customer Service Transformed Using Innovative Video Technology from Waste Collection Vehicles Peter Tatterson, Yarra Ranges Council Matthew Schoemaker, J.J Richards	Capital Works Interactive Map and Resident Updates Jeanette Williams & Jay Spare, Central Coast Council	Staying Fit and Nimble Murray Erbs, Chair NAMS Council	Innovations in Public Lighting Inspection and Asset Management Nathan Spencer, Structural Lines	The Challenges of Running a Paperless Office Raad Jarjees, Ipswich City Council
2:00 – 2:30 PM	Afternoon Tea Trade Exhibition Closes				
Session 12 (Plenary) Concert Hall 2:30 – 4:15 PM	Final Keynote Address: The Circular Economy and its Application in Public Works – <i>Ashleigh & Jaine Morris, Coreo</i> A Circular Economy is an economic performance-based model that relies on decoupling growth from the consumption of finite resources whilst designing waste out of the system and it's finally gaining momentum in Australia. Learn how this model is transforming systems and public infrastructure to create social, environmental and economic capital. Downer Reconomy Program – <i>Jim Appleby, General Manager Downer – Reconomy Transport and Infrastructure</i> Circular Economy Panel Discussion: <i>Ashleigh Morris, Jim Appleby, Mike Ritchie</i> Closing Address and Invitation to 2021 Conference in Adelaide – <i>Rod Ellis, Vice President IPWEA SA</i>				
4:15 PM	2019 Conference Closes				
6:30 – 11:30 PM	Komatsu Grand Platinum Conference Dinner Wrest Point IPWEA Australasia Excellence Award winners announced Transfers: Ferry departure at 6.00pm from Brooke Street Pier Return coach transfers from 10.00pm				

Day 5 – Thursday 29 August 2019

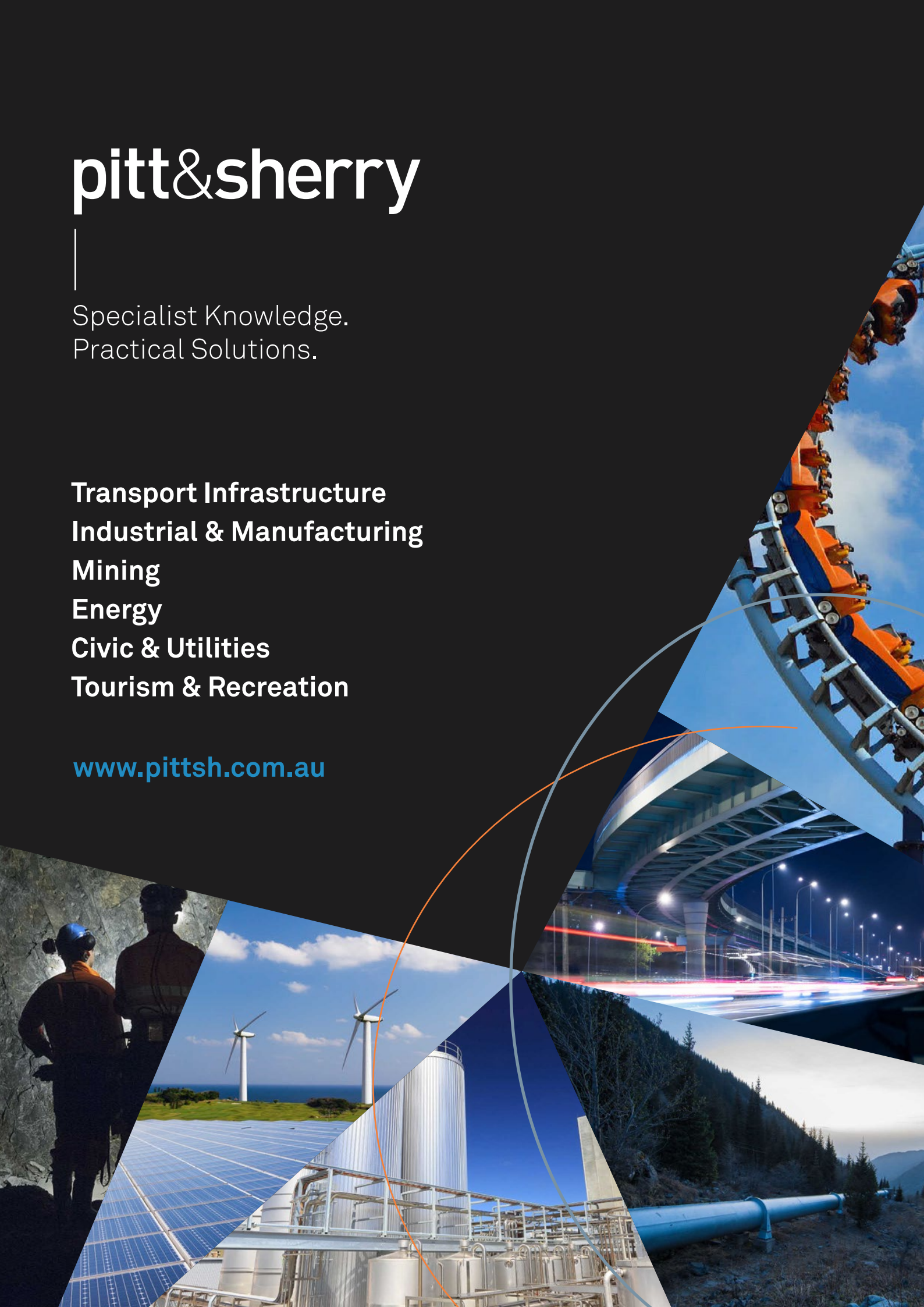
9:00 AM	Technical Tours
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