

## Preliminary Program Outline

### Sunday 1 May 2022

5.00pm – 6.00pm

International and Young Delegates Welcome – Adelaide Convention Centre (by invitation)

6.00pm – 8.00pm

Welcome Reception – Adelaide Convention Centre Sponsored by 

### Monday 2 May 2022

7.30am – 8.30am


Conference Registration  
 Breakfast at Trade Display in the Exhibition Hall

#### Session 1 (Plenary)

8.30am – 10.00am

**Official Opening Ceremony & Welcome**  
**Keynote Address 1 – Shane Fitzsimmons**, Commissioner Resilience NSW. Topic: “Resilience in the Face of Adversity”

10.00am – 10.30am

Morning Tea Sponsored by 

**Session 2**  
 10.30am – 12.00pm

**2A:** Managing the Environment & Climate Change

**2B:** Asset Management – Introduction

**2C:** Road Pavements & Recycled Materials

**2D:** Good Stuff I

**2E:** TechnologyOne Workshop

Location                      Hall L                      City Room 1                      City Room 2                      City Room 3                      Gilbert Suite

Chair                              TBA                              TBA                              TBA                              TBA                              TBA

10.30am – 10.52am

Auckland’s Road to Electric Public Transport – Why So Bumpy?  
**Myles Lind**  
 Auckland Transport (NZ)

IPWEA’s Asset Management Pathways  
**Jonathon Jones**  
 IPWEA Australasia (NSW)

Austrroads Research on Recycled Materials in Road Pavements  
**Ross Guppy**  
 Austrroads (NSW)

‘Engineered’ Leadership  
**Nicole Newton**  
 City of Norwood Payneham & St Peters (SA)

10.52am – 11.14am

An Integrated Asset Management Framework for Green, Natural, and Gray Assets  
**Heather Himmelberger**  
 Southwest EFC (USA)

Climbing the Mountain – Achieving a Successful Audit Outcome  
**Timothy McCarthy**  
 Morrison Low (NSW)

From Landfill to Road Fill – How to Optimise the Use of Waste in Asphalt  
**Trevor Distin**  
 COLAS (NSW)

Stakeholder Engagement Lessons Learned from the Development of the Wunggurrwil Dhurrung Centre  
**Sylvia Janus**  
 Wyndham City Council (VIC)

  
 Program under construction


11.14am – 11.36am


Thames – Shall We Stay or Shall We Go?  
**Emily Walker**  
**Edward Guy**  
 Rationale Ltd (NZ)

A Revolutionary Digital Experience in Asset Management Planning  
**Piers Duggan**  
 City of Mitcham (SA)

Increasing the Use of Recycled Glass in Queensland Pavements  
**Lincoln Latter**  
 ARUP (QLD)

Public Facilities and their role in Community Resilience  
**David Spencer**  
 COMPLETE Urban (NSW)

11.36am – 12.00pm	Public Works and the Effect on Climate Change <b>Christie Nguyen</b> COMPLETE Urban (NSW)	Fit for Purpose Specifications for Managing Community Assets <b>Nandini Mehta</b> NATSPEC (NSW)	Using Recycled Plastic in Asphalt Pavement – Which Practice to Practice? <b>Ivan Mihaljevic</b> Kamen Engineering (NSW)	Registration of Engineers: Coming Soon to a State Near You! <b>David Hallett</b> IPWEA (VIC)	
<b>12.00pm – 1.00pm Lunch – Sponsored Roundtable</b>					
<b>Session 3</b> 1.00pm – 2.30pm	<b>3A:</b> Managing the Environment & Climate Change	<b>3B:</b> Asset Management / Decision Support	<b>3C:</b> Bridges	<b>3D:</b> Smart Parking Forum	
Location	Plenary Hall	E1	E2	E3	
Chair	TBA	TBA	TBA	TBA	
1.00pm – 1.22pm	Summary findings of the 2021 IPCC Sixth Assessment Report on climate change science, impacts, adaptation and mitigation <b>Jacqueline Balston</b> IPWEA (SA)	Information Management System for Road Network and Smart Assets – South Australia Experience <b>Nabin Pradhan</b> DM Roads (NSW)	Bridge Network Analysis Program <b>Hai Le</b> Bridge Network Analysis (QLD)	 <b>See separate breakout program</b> <i>Open to all delegates</i>	
1.22pm – 1.44pm	Managing Urban Heat Under Climate change <b>Fahim Tonmoy</b> BMT (QLD)	Challenges in Long Term Road Renewal Planning <b>Justin Weligamage</b> Toowoomba Regional Council (QLD)	Pultruded Fibre Reinforced Polymer Composite Bridge Deck <b>Ali Mohammed</b> Wagners CFT (QLD)		
1.44pm – 2.06pm	IPCC Q&A Session	Building Blocks to Success: Rebuilding Asset Management at City of Ryde <b>Daniel Carneiro</b> City of Ryde (NSW) <b>Nicola Daaboul</b> Assetic (NSW)	Widening and Strengthening Innovations on the Eunony Bridge <b>Irene Scott</b> Pitt & Sherry (VIC)		
2.06pm – 2.30pm	IPCC Q&A Session	Sticky Stones – Linking Laboratory Testing to on Road Performance of Unsealed Road Materials <b>Rod Ellis</b> Tonkin Consulting (SA)	Creating a Bridge to Greener Building <b>TBA</b> Austeng		
<b>2.30pm – 3.00pm Afternoon Tea</b>					
<b>Session 4</b> 3.00pm – 4.30pm	<b>4A:</b> Climate Resilient Assets Workshop	<b>4B:</b> Asset Management / Decision Support	<b>4C:</b> Road Pavements	<b>4D:</b> Smart Parking Forum	
Location	Plenary Hall	E1	E2	E3	
Chair	TBA	TBA	TBA	TBA	
3.00pm – 3.22pm	Launch of IPWEA Practice Note 12.2: Climate Resilient Materials for Infrastructure Assets <b>Jacqueline Balston</b> IPWEA Director of Sustainability (SA)	A Risk-Based Maintenance Prioritisation for South Australia Rail Structural Assets <b>Vandad Kadkhodayan</b> Dept for Infrastructure & Transport (SA)	Proven Methods to Double the Life of Asphalt Roads <b>Ross Ioakim</b> ASI Solutions (UK)		

3.22pm – 3.44pm	Accounting for Climate Change Risks in Asset Management Planning <b>Greg Baker</b> <b>Donald Gibson</b> Northern Beaches Council (NSW)	Transformation of a City's Asset Management from Renewal/Condition Assessment Based Asset Management to Community Asset Management <b>Dameon Roy</b> City of Salisbury (SA)	Project Level Pavement Deterioration Rate Estimation: Algorithms, or Historical Direct Measurement <b>Edward James</b> Highway Asset Services (NSW)	 <b>See separate breakout program</b> Open to all delegates
3.44pm – 4.06pm	Resilient Materials for Designing and Managing Assets Under a Changing Climate <b>Fahim Tonmoy</b> BMT (QLD)	Road Network Management with Artificial Intelligence <b>David Paine</b> Fulton Hogan (VIC)	Caltrans Gap Graded Asphalt Technology Transfer with Onsite Blended Crumbed Rubber Binder <b>Rod McArthur</b> Topcoat Asphalt	
4.06pm – 4.30pm	A hands-on demonstration and workshop in the use of PN12.2 <b>Jacqueline Balston</b> IPWEA Director of Sustainability (SA)	Asset Health Check – The Diagnostic Tools & What They Mean <b>Michelle Walker</b> City of Greater Geelong (VIC)	Road Maintenance Contracts 2020 – It's all in the prep <b>Angela Farnell</b> Baw Baw Shire (VIC)	

7.00pm – 10.00pm

**Monday Evening Function – Adelaide Oval**  
Sponsored by **COMPLETE**

**Tuesday 3 May 2022**



7.30am – 8.30am




Conference Registration  
**Breakfast at Trade Display in the Exhibition Hall**










**IPWEA Address – David Jenkins**, CEO IPWEA. Topic: “The Road Ahead”  
**Young IPWEA Address – Ben Clark**, Chair YIPWEA.  
**Session 5 (Plenary)** 8.30am – 10.00am **Keynote Address 2 – Marcos Arizti**, CEO StalkIT. Topic: “Asset Tracking in the construction, utility & waste management industries: optimizing processes and fighting loss & theft”  
**Keynote Address 3 – Felicity Furey**, Award-winning Business Leader. Engineer. Entrepreneur. Aspiring Aviator. Topic TBA.


**10.00am – 10.30am** **Morning Tea**

<b>Session 6</b> 10.30am – 12.00pm	<b>6A:</b> Asset Management – Lessons learnt	<b>6B:</b> Road Pavement Enhancements	<b>6C:</b> ARRB Workshop	<b>6D:</b> Asset Tracking & Monitoring
Location	Plenary Hall	E1	E2	E3
Chair	TBA	TBA	TBA	TBA

10.30am – 10.52am	Australia's Local Government Infrastructure – Where are we at? <b>Steve Verity</b> IPWEA Australasia (NSW)	A Practical Approach to Rehabilitate Thin Existing Pavements using Basegrade Stabilisation <b>Scott Young</b> Stabilised Pavements of Australia (QLD)	 Program under construction	 <b>See separate breakout program</b> Open to all delegates
10.52am – 11.12am	“Nice-to-Have” or “Silver Bullet”? – Challenge Facing Local Government in BIM Adoption <b>John Jiang</b> Hastings District Council (NZ)	Evaluation of Geosynthetic Stabilised Pavements over Reactive Clay Subgrades in Metropolitan Adelaide South Australia <b>Rod Fyfe</b> Geofabrics (SA)		

<p>11.12am – 11.34am</p>	<p>Small Model Canadian Communities &amp; Financial Needs Assessment</p> <p><b>Jamie Davignon</b> Stantec (CANADA)</p>	<p>Enhancing Pavement Durability Using a Sustainable Asphalt Reinforcement Geogrid: Practical Experience in Roads and Airfields</p> <p><b>Zehra Kaya</b> Huesker (QLD)</p> <p><b>Peter Levett</b> City of Sydney</p>	 <i>Program under construction</i>	 <p><b>See separate breakout program</b></p> <p><i>Open to all delegates</i></p>
<p>11.34am – 12.00pm</p>	<p>Rethinking Asset Management Through Innovation and Collaboration on the West Coast</p> <p><b>Edward Guy</b> Rationale Ltd (NZ)</p>	<p>Subgrade Lime Stabilisation – An Investigation into Design, Field Performance &amp; Quality Control</p> <p><b>Trent McDonald</b> Pavement Management Services (QLD)</p>	 <i>Program under construction</i>	
<p><b>12.00pm – 1.00pm</b> <span style="float: right;"><b>Lunch</b></span></p>				

Session 7 1.00pm – 2.30pm	7A: Stormwater Management	7B: Good Stuff II	7C: ARRB Workshop	7D: Asset Tracking & Monitoring	7E: Adelaide Walking Tour
Location	Plenary Hall	E1	E2	E3	<p>1.00pm – 4.30pm</p> <p>City of Adelaide Walking Tour</p> <p>'A Place for People'</p> <p>Partner's welcome</p> <p>Delegates &amp; partners must register for this tour</p> <p>No extra cost</p> <p>Capacity max 15 people</p> <p>Includes afternoon tea</p>
Chair	TBA	TBA	TBA	TBA	
	Auckland's Citywide Road Stormwater Prioritisation Programme Delivering Safe Waterways and Harbours <b>John Tetteroo</b> GHD (NZ)	Local Government is No Longer the Three "R's" Roads Rates & Rubbish <b>Paul Gallagher</b> Nambucca Valley Council (NSW)	 Program under construction	  program	
	WSUD Research Shows Integrated Design Can Improve Infrastructure Performance <b>Tim Johnson</b> City of Mitcham (SA)	Making Decisions to Use Alternative Material in Public Works – Multi-Criteria Decision Analysis <b>Mayuri Wijayasundara</b> Deakin University (VIC)	 Program under construction	Open to all delegates	
1.44pm – 2.06pm	Port Pirie Council and PPS Stormwater Condition Assessment Project <b>Richard Powell</b> Plumbing & Pipeline Solutions (SA)	Emergency Markers – Saving Time, Saving Lives <b>Lyn Terrett</b> Rapidmap Global (VIC)	 Program under construction		
2.06pm – 2.30pm	Exploring the Effect of Urban Development on Stormwater Runoff in Growth Areas of Melbourne <b>Md Aftabuzzaman</b> Melbourne Polytechnic (VIC)	Road Authority Capability Requirements for Road Safety <b>Kenn Beer</b> Safe System Solutions (VIC)	 Program under construction		
2.30pm – 3.00pm	<b>Afternoon Tea</b>				
Session 8	8A: Project Management & Delivery	8B: Asset Management – Tools	8C: ARRB Workshop	8D: Asset Tracking & Monitoring	
Location		E1	E2	E3	
Chair	TBA	TBA	TBA	TBA	
3.00pm – 3.22pm	Surely It Can Only Get Simpler? Can Australian Projects Be Harmonized? <b>Matthew Bradbury</b> McCullough Robertson (QLD)	Using GIS to Deliver a Needs-Based Maintenance Grading Program <b>Kathryn Johnson</b> City of Port Pirie (SA)	 Program under construction	  See separate breakout program	
3.22pm – 3.44pm	Resident-Centric Worksite Experience – Development Case from Helsinki, Finland <b>Ville Alatyppo</b> City of Helsinki (FINLAND)	Using Artificial Intelligence to Enhance Condition Assessment of Drainage and Wastewater Pipes <b>Quentin Bechet</b> Veolia (VIC)	 Program under construction	Open to all delegates  Session live streamed	
3.44pm – 4.06pm	Multi-Objective Operational Forward Works Programme Optimization Using a Meta-Heuristic Algorithm <b>Fritz Jooste</b> Lorix Ltd (NZ)	Artificial intelligence and road asset management: the good, bad and the ugly <b>John Yeaman</b> Pavement Management Services (QLD)	 Program under construction		

4.06pm – 4.30pm	Rockingham Beach Foreshore Revitalisation – a Painful Success Story <b>Michael Wilson</b> City of Rockingham (WA)	360° Mobile Mapping – Map Once, Use Multiple Times <b>Peter Terrett</b> Rapidmap Global (QLD)	 Program under construction		
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Delegates free night to explore the dining delights of Adelaide  
Young IPWEA Pub Night

**Wednesday 4 May 2022**



7.30am – 8.30am      Conference Registration  
**Breakfast at Trade Display in the Exhibition Hall**

**Session 9 (Plenary)** 8.30am – 10.00am      **Keynote Address 4 – Romilly Madew**, CEO Infrastructure Australia. Topic: “Sustainable Asset Management”  
**Thought Leaders – Ashay Prabhu**, Co-Founder Assetic & **John Comrie**, Director at JAC Comrie will address the Keynote topic from their perspectives followed by a panel discussion

**10.00am – 10.30am      Morning Tea**

**Session 10** 10.30am – 12.00pm      **10A:** Good Stuff III      **10B:** Project Management & Delivery      **10C:** Traffic Management & Road Safety      **10D:** Street Lighting & Smart Controls Forum

Location	Plenary Hall	E1	E2	E3
Chair	TBA	TBA	TBA	Graham Mawer

10.30am – 11.00am	How Emerging Technologies Can Compliment Public Assets <b>Ian Hatton</b> COMPLETE Urban (NSW)	Asset Management Transformation: Strategic Project Management to Ensure Continuity and Success <b>Jean-Pierre Koekemoe</b> City of Port Lincoln (SA)	School Transport Framework – City of Salisbury <b>David Boothway</b> City of Salisbury (SA)	Sponsored by  
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11.00am – 11.30am	ISO55000 Update <b>Ross Goyne</b> IPWEA Australasia (VIC)	Capital Works Transformation <b>James Mitchell</b> City of Unley (SA)	Fairbanks Drive – Community Centric Road Upgrade <b>Jordan Ward</b> City of Salisbury (SA)	See separate breakout program Open to all delegates
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11.30am – 12.00pm	Delivery of Envision Innovative Solutions to Infrastructure Projects in Virtual Reality <b>B Zhang</b> BE Engineering Solutions (SA)	Taking Back Condition Assessments <b>Jeremy Rudd</b> Regional Project Consulting (VIC)	TGSI – Means to Assist <b>Nick Tytler</b> ALLTAC (VIC)	Session live streamed Forum commences 08.30am
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**12.00pm – 1.00pm      Lunch – Sponsored Roundtable**

**Session 11** 1.00pm – 2.30pm      **11A:** Good Stuff IV      **11B:** Project Management & Delivery      **11C:** Traffic Management & Road Safety      **11D:** SLSC

Location	Plenary Hall	E1	E2	E3
Chair	TBA	TBA	TBA	Graham Mawer

1.00pm – 1.22pm	Sustainability; Life, Liberty and the Pursuit of Negative Entropy, Part 3 <b>John Milne</b> Clark County Public Works (USA)	Gladstone Regional Council Gets Mobile with Online Works Program <b>Darren Shepherd</b> Shepherd (QLD)	Improving Road Safety with All Weather Pavement Markings <b>Kosta Karagiannopoulos</b> 13M Australia (NSW)	Sponsored by 
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1.22pm – 1.44pm	Why Tomorrow's City Must Be Green and Inspired by Nature <b>Germain Briand</b> Urban Canopee Australia (VIC)	Connecting Stakeholders to Deliver Efficient Public Works Projects <b>Carl Lundborg</b> City of Marion (SA)	Conversion of Local Government Owned Assets – MV to LED Street Lighting <b>Anna Scantlebury</b> City of Canning (WA)	  <b>See separate breakout program</b>  <i>Open to all delegates</i>  <i>Session livestreamed</i>  <b>Forum concludes 4.30pm</b>
1.44pm – 2.06pm	Mobility in the Evolving City <b>Nathan Parish</b> COMPLETE Urban (NSW)	Using AI for Sealed Road Maintenance Management – A Roads Alliance Initiative <b>Stephen Hegedus</b> Shepherd (QLD)	The Effects of Road Geometry and Posted Speed Limits On Driver Speed Selection <b>Jason Deller</b> Campaspe Shire Council (VIC)	
2.06pm – 2.30pm	Hynds Best Paper from the IPWEA NZ Conference <b>Presenter / Topic TBA</b> (NZ)	TBA	TBA	
<b>2.30pm – 3.00pm</b> <b>Afternoon Tea – Trade Exhibition Closes</b>				
<b>Session 12 (Plenary)</b> 3.00pm – 4.30pm	<b>Keynote Address 5 – Ainsley Simpson</b> , CEO Infrastructure Sustainability Council. Topic: “Sustainability for Local Governments - Ensuring long term dividends from local infrastructure” <b>Closing Address and Invitation to Melbourne 2024</b>			
4.30pm	Conference Closes			
6.30pm – 11.00pm	<b>Gala Awards Dinner</b> Sponsored by  <b>IPWEA Australasia Excellence Awards</b> Sponsored by 			
<b>Thursday 5 May 2022</b>				
9.00am – 5.00pm	<b>Technical Tours</b>			

## Smart Parking Forum

IPWEA is expected launch its new smart parking program in 2022. This new program will help engineering practitioners understand the case for widely deploying smart parking systems at carparks and on streets and introduce them to the growing array of technologies and suppliers that can help them successfully deliver these systems.

### Forum starts after lunch Monday 2 May

12:00pm – 1:00pm	<b>Lunch – Visit Smart Parking Forum Exhibition Hall F</b>
	Intro to Smart Parking
1:00pm – 2:30pm	Smart Parking Supplier Panel
	Adelaide City Council On-Street Smart Parking Case Study
2:30pm – 3:00pm	<b>Afternoon Tea – Visit Smart Parking Forum Exhibition Hall F</b>
	Victorian Council Smart Parking Case Study
3:00pm – 4:30pm	Queensland Council Smart Parking Case Study
	NSW Council Smart Parking Case Study
	Closing Remarks

## Asset Tracking & Monitoring Forum

IPWEA will publicly launch its new asset tracking and monitoring program at the conference. This new program will help engineering practitioners understand the case for widely installing tracking and monitoring devices on assets such as their fleet, other small plant, higher value stock items, key pieces of infrastructure and for monitoring access (e.g. on doors, gates, hatches and stormwater covers). IPWEA intends to release its first documents and training packages following this Forum.

### Forum starts after morning plenary session on Tuesday 3 May

10:00am – 10:30am	<b>Morning Tea – Visit Asset Tracking &amp; Monitoring Forum Exhibition Hall F</b>
	Intro to IPWEA Asset Tracking & Monitoring Program
10:30am – 12:00pm	Network Provider Supplier Panel
	Fleet Tracking & Monitoring Case Study
12:00pm – 1:00pm	<b>Lunch – Visit Asset Tracking &amp; Monitoring Forum Exhibition Hall F</b>
	Fleet Tracking & Monitoring Supplier Panel
1:00pm – 2:30pm	Success in Tracking Lower Value Assets
	Access Monitoring & Control
2:30pm – 3:00pm	<b>Afternoon Tea – Visit Asset Tracking &amp; Monitoring Forum Exhibition Hall F</b>
	Monitoring the Structural Health of Bridges
3:00pm – 4:30pm	Low-Cost Remote Area Asset Tracking with Satellites
	Every Asset Tracking Question You Ever Wanted to Ask
	Closing Remarks





**City of Adelaide (CoA) Walking Tour**  
**'A Place for People'**

**Street Lighting & Smart Controls Forum**

The established and successful IPWEA [Street Lighting & Smart Controls Program](#) is accelerating the efficient adoption of LED street lighting and smart controls technologies. It involves high-level government and industry engagement, the development of robust industry standard documentation and training. The SLSC full day Forum builds on four highly successful previous SLSC conferences. Entry to the Forum is available to all full-time registered delegates as well as all day delegates.

Session Chair	Graham Mawer
<b>7.30am – 8.30am</b>	<b>Registration – Breakfast in the Exhibition Hall</b>
	Introduction & IPWEA SLSC Summary
8.30am – 10.00am	LED Supplier Panel Q & A
	Rethinking How We Use Utility Poles to Help Build the Smart City
<b>10.00am – 10.30am</b>	<b>Morning Tea – Visit the SLSC Forum Exhibition Hall F</b>
	5G Masterclass for Councils & Other Infrastructure Managers
10.30am – 12.00pm	The Growing Role of Multi-Function Poles in the Smart City
	Smart Poles and Energy Efficient Lights in Brisbane Harmonized
<b>12.00pm – 1.00pm</b>	<b>Lunch – Visit the SLSC Forum Exhibition in Hall F</b>
	Smart Controls Supplier Panel Q & A
1.00pm – 2.30pm	Lessons from Australia's Largest LED & Smart Controls Deployment
	Australia's Smartest Street Lighting Deployment
<b>2.30pm – 3.00pm</b>	<b>Afternoon Tea – Visit the SLSC Forum Exhibition in Hall F</b>
	Protecting our Night Time Environment
	Zhaga-Enabled Luminaires & the Smart City
3.00pm – 4.30pm	Optimising the Use of Smart Lighting Controls
	Standards Update
	Closing Remarks

The City of Adelaide are offering an opportunity to view their city through a different lens.

The Adelaide Riverbank, known to the Kurna as Karrawirra Pari – the Redgum Forest River – is the geographic and spiritual heart of Adelaide. The picturesque banks of the River Torrens are home to many of the iconic landmarks and stories synonymous with the city and the State of South Australia. The Riverbank Precinct and environs are being reinvented to become a highly connected physically as well as thematically and spiritually important place to residents and visitors.

Behind all of this is of course how this aspiration is brought to life which includes collaboration between Local, State Government, traditional owners and private agencies to agree on a vision and then make this come to life. This tour will ask you to consider how we can play vital roles in creating places for people to want to be in, visit and own as theirs.

The tour will include the new City Skate Park, an Aboriginal Cultural Experience and afternoon tea, a look under the Adelaide Bridge and a tour of the new Lot Fourteen development. All the while being informed and updated via an interactive app.

Tour guides will be staff from the CoA, Renewal SA and traditional owners. Numbers are limited.

**Date:** Tuesday 3 May 2022

**Time:** 1.00pm – 4.30pm

**Capacity:** Maximum 15 people