asset management
FOR CRITICAL INFRASTRUCTURE
SUMMIT 2017

16-17 August 2017 | Swissôtel Sydney

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LEARN
how to balance standards with innovation

EXPLORE
the benefits of IoT and drone technology

NETWORK
with industry experts

Bonne Ryan
Senior Manager, Trade, Transport & Heavy Industry, GST Australia

Michael Killeen
Asset Manager, NSW TransLink

Jonathan Avery
National Sector Manager, Standards Australia

Antony Sprigg
CEO, Infrastructure Sustainability Council of Australia

Steve Doran
Chair of the Sydney Chapter of the Asset Management Council

Andrew McAlpine
Asset Performance and Systems Manager, TransGrid

Ian Boake
Principal Consultant, Jacobs

Peter Harcus
General Manager Gas Strategy, Jemena

Greg Tyrrell
Executive Director, Australian Association for Unmanned Systems (AAUS)

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Editor, Infrastructure

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Managers of critical infrastructure, such as water, energy and transport networks, have more tools available than ever before to manage their assets. At the same time, public scrutiny of utilities and public infrastructure has never been higher.

With the advent of the Internet of Things, network digitisation, and an evolving regulatory and technical standards environment, asset managers need to keep pace with the rate of change and learn from colleagues in related or complementary sectors.

This is why we have created Asset Management for Critical Infrastructure, to bring together the utility and infrastructure industries to discuss the latest news and techniques in the sector and explore practical applications that can improve the way assets are managed, from water pipelines to electricity networks to railway lines.

With our experience publishing Utility and Infrastructure, we’ve been involved first hand in conversations with utilities and infrastructure businesses who are taking advantage of new technologies and methods in the asset management space.

This conference will bring these conversations to a live format where everyone from the industry can get involved and connect with asset management leaders.

We’re proud to bring you an expert line-up of speakers from different utility and infrastructure sectors who we believe will provide all delegates with information they can take away and implement in their own asset operation and management.

I look forward to seeing you there.

Chris Bland
Publisher
Utility and Infrastructure

WHAT YOU WILL LEARN

Experts from utilities, consultancies, infrastructure companies and government organisations will be presenting on all the key issues in the asset management space.

The two-day conference will cover:

- How the Internet of Things (IoT) is enhancing management processes
- Innovation – how organisations can apply innovative thinking to their asset management practices to boost their success
- ISO 55000 – the role of the asset management standard and how it is currently being implemented in the water, gas, electricity and rail sectors
- How drones/UAVs are changing the way we manage assets
- Big data and the neglected aspect of data analytics; data quality
- Predictive maintenance – the white knight of asset management
- The integration and improvement of sustainability
- Asset management planning best practices
In asset management, innovation has now moved from being desirable to necessary for meeting increasing stakeholders’ performance expectations amid tightening cost and risk constraints. Its benefits are well accepted, but now the risks of not keeping pace with a swift changing technological and socio-economic context hold a potentially heavy impact for organisations that have responsibility for key assets.

Leaders of asset management groups and organisations are depended on to make this innovation happen successfully. So, how can you as an asset management leader be equipped and equip your people to do this effectively?

This presentation will share lessons learned and approaches for successfully leading innovation in asset management through such sub-topics as:

- Defining “innovation” powerfully
- Why innovation in asset management is so vital now
- Case Study 1: A utility takes a different approach to risk monitoring
- New capabilities for asset management innovation: emerging and here
- Innovation & ISO 55000: Friends or Foes?
- Unique challenges to innovating in asset management and how to manage them
- Case Study 2: Remarkable savings identified for a large public development
- Ten principles for innovative thinking
- A six stage roadmap for leading an innovation
- Foundational and people/process/tool success factors
- Eight ways to empower your people to innovate
- Updates to ISO 55000: What the industry should know
- The role of an ISO 55000 Asset Management system in delivering pipeline safety

Jemena owns and operates some of Australia’s most important gas transmission pipelines, transporting gas across the eastern and northern regions of Australia. These pipelines are part of Jemena’s broader energy and water asset portfolio worth approximately $A10 billion and with annual turnover of around $A1.2 billion, supplying energy to 1.5 million customers. This presentation will share how Jemena is implementing an ISO 55000 Asset Management system and its role in delivering pipeline safety. The presentation will cover:

- How alignment to ISO 55000 delivers pipeline safety
- Pipeline safety regulatory obligations and the asset management system in delivering compliance
- Jemena’s asset management system overview
- The value to Jemena of a common asset management system
- Status of Jemena’s ISO 55000 implementation

Delegates have the chance to meet like-minded colleagues in their industries through this speed networking session. A structured and fun activity that will get conversations flowing and allow delegates to make new industry connections.

In this presentation, Paul Higham will focus on the considerations Sydney Water takes into account when it comes to planning their asset management program. For the organisation, a key priority is ensuring that its asset management achieves customer outcomes. In his presentation, Paul will focus on the development of new assets, with particular emphasis on the organisation’s recently announced $2.2 billion growth planning projects.

These include a $300 million program in Lower South Creek that will provide new and upgraded wastewater infrastructure; a new biological nutrient removal plant at the Quakers Hill Water Recycling Plant; investment of $800 million in catering for growth across greater Sydney; investment of more than $130 million to provide water and wastewater services for around 20,000 new dwellings in western precincts of the North West Priority Growth Area; construction of a $27 million wastewater pumping station and the installation of around 8km of wastewater pipelines at Oran Park; as well as major upgrades to existing infrastructure to ensure the continued reliability of the water and wastewater system.
Establishing the desired balance of cost, risk and performance
Michael Killeen
Asset Manager
NSW TrainLink

While an outcome-focused view of asset management is the desired approach for the rail industry, there is little practical guidance provided on what this really means and how it can be done.

Michael will explore what companies need to be doing to balance cost, risk and performance — and deliver an asset management program that is truly outcome-driven.

GIS clash detection and machine learning analysis of proposed asset routes
Josh Symonds
Spatial Data Specialist
Arup

This presentation will explore a new, automised system to detect potential clashes with existing underground infrastructure when planning routes for new assets. The system uses a machine learning algorithm to reduce manual assessments and achieve significant savings in engineering hours.

Predictive maintenance panel
A selection of utility and infrastructure asset managers will discuss key predictive maintenance techniques and explore the best ways these can be implemented into a business’ asset management program.

Morning tea
Lessons learned from an ISO 55001 journey – challenges and pitfalls
Andrew McAlpine  
Asset Performance and Systems Manager  
TransGrid

TransGrid is on a journey to improve its asset management maturity through the certification and continued application of the ISO 55001 standard to its Asset Management System. Critical to the success are:
• The value of asset management maturity is people making the best decisions about the asset to achieve the business outcomes
• The Asset Management System is not a layer on top of business as usual, it is our business as usual

The process of moving to certification has generated benefits for the business. Moving forward to recertification in 2017, TransGrid will look to target asset management maturity in areas which bring greatest value to the business.

The importance of standards for identification and marking of parts & components to support effective asset management
Bonnie Ryan  
Senior Manager  
Trade, Transport & Heavy Industry  
GS1 Australia

The rail industry has been working together for over two years to agree on standards to be implemented for the common identification and marking of parts and components. This session will cover the detail of this industry wide initiative and what the recently released Call to Action means for the sector both locally and globally, including:
• What was the compulsion for this project
• What has been done to date
• What are the benefits
• What is the global roadmap

Innovative use of drones in management of critical infrastructure
Greg Tyrrell  
Executive Director  
Australian Association for Unmanned Systems (AAUS)

The commercial operation of drones in Australia dates back to the early 1990s and has evolved rapidly in recent years with the introduction of low cost, highly capable systems. The industry has witnessed many uses for drone technology, with the most successful applications occurring when the end-user uses drone technology as a tool to provide cost-effective data.

In this presentation, Greg will provide a snapshot of current drone technology and uses, and look at case studies where the technology has been employed to provide data for the management of critical infrastructure. He will also provide commentary on the benefits and challenges of using this technology, and explore the current regulatory environment, and risks and constraints for drone operation in Australian airspace.

Demystifying the Internet of Things
Ian Boake  
Principal Consultant  
Jacobs

There is a new set of technologies that are causing substantial interest and investment from many large organisations. Known as the Internet of Things (IoT), this technology has brought into question the high costs of traditional machine-to-machine (M2M) control and automation systems. How has this come about?

A key driver of IoT has been the relentless miniaturisation of computer chips, sensors, actuating devices, and radio transceivers in microcontroller ICs. This trend has now reached a tipping point where embedded systems can now be built into things and devices of almost any size at an affordable cost with sufficiently low power to enable batteries to operate them for up to 10 years. In effect, you can now cost effectively monitor virtually anything.

This presentation aims to demystify the field and the vernacular used, and aims to show how it will change traditional asset management systems and, in particular, draw attention to the benefits to be realised for critical infrastructure. Two conceptual models are introduced: the Cognitive Extension (CogEx) Model and the IoT Supermarket Model.
WHO WILL ATTEND?
- Asset owners from across the utility and infrastructure industries
- Senior managers and their colleagues from Australian water, gas, and electricity utilities
- Asset managers in the rail sector
- Technology and solutions providers servicing the asset management community

WHAT CAN YOU EXPECT FROM ASSET MANAGEMENT FOR CRITICAL INFRASTRUCTURE?

EXPERT PANELS
Both days include expert panel sessions, which will feature a strong line-up of speakers and moderators who will discuss key industry problems and solutions, as well as reflect on the conversations from that day’s program. This is also a key opportunity for delegates to ask the panel questions.

NETWORKING OPPORTUNITIES
The program features a speed networking session, with guaranteed introductions to at least five colleagues from your industry, as well as multiple opportunities to connect with other utility and infrastructure employees during the networking lunches and breaks.

LEARN FROM INDUSTRY LEADERS
The featured speakers have been chosen based on industry experience and expertise, which will help delegates develop their own strategies for better managing their assets.

CLASSROOM STYLE LEARNING
The conference offers an intimate setting for real engagement between speakers and delegates to get the most out of the program.

INTERESTED IN SPONSORING?
If you wish to discuss sponsorship opportunities head to www.assetmanagementforcriticalinfrastructure.com.au or email Chris Bland at chris.bland@monkeymedia.com.au.
REGISTRATIONS NOW OPEN

GET YOUR TICKET EARLY AND SAVE

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<th>CORPORATE TICKET</th>
<th>UTILITY/ASSET OWNER* TICKET</th>
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Book by 16 June

Book by 21 July

*For attendees that are currently employed by a utility company or asset owners

GROUP DISCOUNTS ALSO AVAILABLE. BUY 3 TICKETS FOR THE PRICE OF 2.

DO YOU WORK FOR A UTILITY OR ASSET OWNER?

Select utility companies and asset owners may be eligible for $500 tickets. This special offer is limited to the first 25 tickets so get in fast.

FIND OUT IF YOU ARE ELIGIBLE AT

www.assetmanagementforcriticalinfrastructure.com.au
## Booking Form

**16-17 August 2017 | Swissôtel Sydney**

### Organisation Name

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<tr>
<th>Address</th>
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### Delegate 1

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### Delegate 3 – Free!

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### Corporate ticket

- **Standard**
  - **$2950**
- **Early bird – ends 21 July**
  - **$2250**
- **Super early bird – ends 16 June**
  - **$1880**

### Utility/asset owner ticket

- **Standard**
  - **$2250**
- **Early bird – ends 21 July**
  - **$1580**
- **Super early bird – ends 16 June**
  - **$1360**

### Special Bonus Offer

- **Enter qualifying unique code:**
  - **$500**

All prices are in Australian Dollars (AUD) and include GST.

### Payment Details:

- **Cheque Enclosed for $___________** (Please make Payable to Monkey Media)
- **Please Invoice me. Purchase Order No # ______________**
- **Credit Card**

  - **Card Number**
  - **Full Name as on Card __________________________________**
  - **Cardholder’s Contact Number __________________________________**
  - **Expiry __/___**
  - **Amount $____________**
  - **CCV __________**

Email this form to: events@monkeymedia.com.au
Post this form to: Monkey Media, PO Box 1763, Preston South VIC 3072
Phone: 03 9988 4950

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**Terms and Conditions:** If you are unable to attend this event, you may send a substitute delegate in your place at no additional cost. Please advise us of any substitutions as soon as possible. Cancellations received on or before 2 August 2017 will be refunded in full. No registration refunds will be made after this date.

**Privacy Statement:** Your name, organisation and country/state may be published in the delegate list which is provided to delegates, sponsors at the event. We may also use this information for the promotion of future events of this type. By providing your email address on the registration form you consent to be contacted by Monkey Media in relation to this and future events of this type. You may opt out at any time by emailing the event managers: events@monkeymedia.net.au

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