

# Hypothetical on the 2036 Brisbane River Flood Agenda

Time	Topics and Tasks	Presenter
10:00-10:30	Arrival and Registration	
10:30-11:00	Welcome addresses from QUT and the Deputy Premier  Comment on Dutch –Aust collaboration  Scene-setting insights	<ul style="list-style-type: none"> <li>• Prof Carol Dickenson, Senior Deputy Vice-Chancellor, QUT</li> <li>• Hon Jacklyn (Jackie) Trad, Deputy Premier</li> <li>• Willem Cosijn, Consul General – Kingdom of the Netherlands</li> <li>• David Fagan and Prof George Cairns, QUT</li> </ul>
11:00-11:20	The weather in 2036	<ul style="list-style-type: none"> <li>• Dr Blair Trewin, Bureau of Meteorology</li> </ul>
11:20-11:50	Living on the Brisbane River Floodplain in 2036	<ul style="list-style-type: none"> <li>• Cathryn Chatburn, Urban Enquiry</li> <li>• Dr Mark Gibbs, QUT</li> </ul>
11:50-12:27	A major flood event in the Brisbane River	<ul style="list-style-type: none"> <li>• Michel Raymond, SEQ Water</li> </ul>
12:27-12:30	Acknowledgment from event sponsor QUU	Able Immaraj, Manager Services Strategies, Queensland Urban Utilities
12:30-13:30	Lunch	
13:33-14:00	Impacts on safer communities	<ul style="list-style-type: none"> <li>• Prof Axel Bruns, Dr Amisha Mehta and Emma Potter, QUT</li> </ul>
14:00-14:30	Impacts on critical infrastructure	<ul style="list-style-type: none"> <li>• Don Bletchley, DTMR</li> </ul>
14:30-14:45	Mini-Break	
14:45 – 14:48	Acknowledgment from event sponsor Water Technology	Steve Clark, Manager of Queensland Operations, Water Technology
14:45-15:15	Impacts on healthy environment	<ul style="list-style-type: none"> <li>• Dr Jim Smart and Prof Jon Olley, Griffith University</li> </ul>
15:15-15:45	Impacts on business continuity	<ul style="list-style-type: none"> <li>• Phil Cowling, Cromwell Projects and Technical Services</li> </ul>
15:45-16:30	Summary of outcomes and wrap up	<ul style="list-style-type: none"> <li>• Mara Bun, Green Cross Australia</li> </ul>
16:30-18:00	Networking and light refreshments	

Today you can join online discussions on your smart devices at both:

1. The Mind Hive site at <https://mindhive.org/issue/hypothetical-on-the-2036-brisbane-river-flood>. If you are a first time visitor select “Sign Up” and follow the prompts to register. The conversation is already underway;
2. A twitter conversation with a #BNE2036 hash tag

## Connecting to the QUT Conference Wireless Network

### Via a mobile device (phone/tablet)

1. Go to your device’s **‘Settings’** menu
2. Select **‘Wi-Fi’**
3. Select the network called **‘Events@QUT’**  
note – If you have used this service before you will have to “Forget this Network”.
4. When prompted for a password, enter: Qwhyfi01 (note – password is case-sensitive)
5. Open any web browser and a page titled **‘Welcome to Events@QUT’** will appear, displaying the service Terms and Conditions.
6. Select the **‘Click to Accept’** the Terms and Conditions option to commence using the conference wireless service.

### Via a laptop (PC / Mac)

1. Go to your wireless network connections, by clicking on the **‘wireless’** logo on your laptop.
2. Select the wireless network called **‘Events@QUT’**  
note – If you have used this service before you will have to “Forget this Network”.
3. When prompted for a password, enter: Qwhyfi01 (note – password is case-sensitive)
4. Open any web browser and a page titled **‘Welcome to Events@QUT’** will appear, displaying the service Terms and Conditions.
5. Select the **‘Click to Accept’** the Terms and Conditions option to commence using the conference wireless service.

### Need help?

Call the IT Helpdesk on **3138 4000**

## HYPOTHETICAL PRESENTERS

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*David Fagan - QUT*

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David Fagan is director of corporate transition at QUT, an adjunct professor in the Business School and a former editorial director of Queensland's largest media organisation, News Queensland. As a journalist, he covered the aftermath of the 1974 Brisbane floods and ran the state's largest news outlet, The Courier-Mail and The Sunday Mail, during the natural disasters of 2011. As a journalist and editor, he has pursued issues of urban development and growth for the past quarter century and is now very focussed on how the future will unfold for Brisbane and the university in particular.

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*Adjunct Professor George Cairns – QUT Business School*

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George Cairns is Adjunct Professor at QUT Business School, Brisbane. With others, he has worked on development of scenario methods since the 1990s; applying them in a wide variety of contexts in the UK, Europe, Asia and Australia. He has led workshops on scenario development with UK agencies, including National Air Traffic Services and South-East England Development Agency. In Australia, he has delivered Masterclasses and keynote conference presentations for the Risk Management Institution of Australasia. He has also run scenario workshops on post-carbon futures for the Latrobe Valley, farm futures in Western Victoria, and he is currently involved in a large ARC Discovery project, facilitating scenario workshops on regional regeneration in North West Tasmania.

George has been invited to appear on Australian national television and radio on various occasions, to consider scenarios for topics including the future of the workplace, Melbourne futures, and the future for Qantas during its period of high uncertainty.

He has co-authored two books and numerous journal articles on scenario theory, method and application and has led development of several scenario method augmentations specifically to explore the impacts of business decisions and actions on remote and often excluded stakeholders. George originally trained and worked as an architect and completed his PhD on architectural history at Glasgow School of Art and the University of Glasgow.

*Dr Blair Trewin – Bureau of Meteorology*

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Blair Trewin is a climate scientist with the Bureau of Meteorology, specialising in the assessment of extreme events and the development of long-term data sets. He is the lead author of the World Meteorological Organization's Statement on the Status of the Global Climate for 2011-15, and was the President of the Australian Meteorological and Oceanographic Society in 2012-14.

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*Cathryn Chatburn – Creative Industries Faculty QUT*

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Cathryn is an enthusiastic and creative designer, and effective project director with a diverse portfolio of project experience gained over 23 years of practice across the United Kingdom and Australia.

She has worked across a wide variety of project scales and with diverse clients. Her portfolio including significant involvement in large--scale urban regeneration, from which she has extensive experience effectively engaging professionals, stakeholders and the general public in the process of visioning and design development.

Cathryn actively pursues her passion to engage people more actively in shaping the future of our urban environments as Vice President of the Brisbane Development Association, through her involvement in Brisbane Open House, specifically the Speaker Series and Children's programme, and through her contributions to the education of Urban Design and Architecture.

Until recently Cathryn led the AECOM Australia and New Zealand Master Planning and Urban Design team.

Cathryn left AECOM in November 2014 to establish Urban Enquiry, her own consulting brand and commence research via a PHD part--time.

Her area of research focuses on addressing the challenges of 'Delivering the Cities of the Future' and is drawn from experience in practice delivering large--scale master planning frameworks to guide sustainable urban change.

*Dr Mark Gibbs – Institute of Future Environments – QUT*

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Mark holds the role of Director: Knowledge to Innovation at QUT. Prior to this role, Mark held the role of Technical Director at AECOM and prior to AECOM was the Deputy Chief of CSIRO Division of Marine and Atmospheric Research. Mark is a graduate of the Institute of Company Directors, and holds an MBA in addition to a PhD in mathematics and a Bachelor of Engineering. Mark's core expertise is in coastal management and climate risk assessment.

Mark won the 2012 Engineers Australia Medal, the 2012 Silver Medal from the International Climate Change Business Journal, the Best Paper Award in 2011 from the International Society for Risk Analysis and the 2013 AECOM Global Excellence Award.

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*Michel Raymond – SEQ Water*

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Michel Raymond is senior operations engineer at Seqwater. He completed civil engineering degree at QUT in 1989 and has since had 25 years experience in flooding, water resources and major dams.

His projects roles have involved urban development, transport, industry, mining, catchment management, and land planning. Michel has worked extensively throughout Queensland and also across Australia, NZ, Asia Pacific region.

His current role at SEQ Water includes directing operations of gated dams during floods, forecasting models, flooding assessments for dams, and contributions to safety assessments and emergency plans. Michel has lived in South East Queensland for over 40 years and has considerable knowledge and experience of floods in the region's catchments.

*Prof Axel Bruns – Creative Industries Faculty QUT*

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Prof. Axel Bruns is an Australian Research Council Future Fellow and Professor in the Digital Media Research Centre at Queensland University of Technology in Brisbane, Australia, and the Vice-President of the international Association of Internet Researchers.

His research interests address the impact of new and social media on public debate, the public sphere, news, and journalism, and he is an internationally recognised expert in the development of new research methodologies for incorporating 'big data' from online media into media and communication research. Bruns is the author of *Blogs, Wikipedia, Second Life and Beyond: From Production to Prodsusage* (2008) and *Gatewatching: Collaborative Online News Production* (2005), and a co-editor of the *Routledge Companion to Social Media and Politics* (2016), *Twitter and Society* (2014), *A Companion to New Media Dynamics* (2012) and *Uses of Blogs* (2006).

His research blog is at <http://snurb.info/>, and he tweets at @snurb\_dot\_info. See <http://mappingonlinepublics.net/> for more details on his research into social media.

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*Dr Amisha Mehta – QUT Business School*

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Dr Amisha Mehta specialises in risk and crisis management and organisational change at the QUT Business School. Her research shows how communication can organisational and individual decision-making in the context of risk and uncertainty. She has worked on a number of industry projects that investigate risk perception and the management of drones and risk and crisis decision-making practices of communities and small business owners. Amisha's advice to industry is evidence-based and draws on interdisciplinary research principles. Amisha is an executive board member of the QUT Centre for Emergency and Disaster Management. Prior to joining QUT, Amisha worked in communication for organisations in Brisbane and

*Emma Potter – Creative Industries Faculty QUT*

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Emma Potter is a PhD candidate in the Digital Media Research Centre at Queensland University of Technology. Her research investigates how emergency management organisations use social media and involves an ethnographic study of the Queensland Fire and Emergency Services (QFES), observing and participating in their use of social media.

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*Don Bletchley – Department of Transport and Main Roads*

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Don leads the Transport Network Security (TNS) Office working closely with all areas of TMR, stakeholders and authorities associated with risk and resilience, transport security and emergency management services, to enhance the security and resilience of the transport network (for the community of) in Queensland.

The TNS priorities are to:

- Enhance risk and resilience culture in TMR and across the transport network.
- Administer the Transport Security (Counter-Terrorism) Act 2008, Intergovernmental Agreement on Surface Transport Security (2005) and Queensland Counter-Terrorism Strategy.
- Effectively manage the Queensland Disaster Management Arrangements within TMR.
- Apply the Critical Infrastructure Resilience Strategy to ensure the continuity of essential services provided by critical infrastructure to businesses, governments and the community.
- Apply the Queensland Public Security Policy Framework to the transport network.

Don has more than 30 years' experience in public administration and in 2011 received the state and national awards for the Transport and Logistics 'Professional of the Year' from the Chartered Institute of Logistics and Transport Australia. Don was also awarded the National Emergency Medal for sustained service during the 2010–11 Queensland Floods.

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*Dr Jim Smart – Griffith University*

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Jim Smart is an experienced environmental and resource economist with research and teaching interests in resource management, ecosystem services assessment and environmental valuation. Jim has a particular interest in water quality management and has undertaken water-related research for the UK and Danish governments and private sector water companies.

Jim has strong expertise in hydro-economic modelling, cost function estimation, cost effectiveness analysis and non-market valuation using choice experiments, contingent valuation and hedonic pricing. He has published 24 peer reviewed research papers, together with book chapters and consultancy reports for a wide variety of clients.

Fields of Expertise

- Cost effectiveness analysis; cost benefit analysis
- Non-market valuation: choice experiments, contingent valuation, hedonic pricing
- Cost function estimation
- Hydro-economic and bio-economic modelling

*Phil Cowling – Cromwell Property Group*

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Phil is a Chartered Engineer with over 30 years experience in building design facilities and property management in Australia and the United Kingdom. Before joining Cromwell he undertook roles as a consultant working on a range of projects for clients including QIC.

As director of Cromwell Projects and Technical Solutions, Phil is responsible for all new major development projects and renovation projects across the portfolio. Philips team are also responsible for the development and delivery of the Groups capital works strategy.

Phil's other responsibilities include the technical due diligence on acquisitions, managing the Groups sustainability and energy policy

Phil has been involved in over \$2.5 billion of property acquisitions for Cromwell as well as delivering over \$600 million in major projects and capital works.

Industry representative roles include:

- Previous Qld Chairman of the Chartered Institute of Building Services Engineers
- Member of the Property Council of Australia National codes committee

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*Our MC for the day - Mara Bun – Resilience Consultant*

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Mara Bún began her career as a Financial Analyst with the international investment bank Morgan Stanley, spending five years in their New York and San Francisco practices where she specialized in high technology corporate finance. In 1989 she joined a World Bank Nepali earthquake reconstruction project in Kathmandu, then moved to Australia embracing leadership roles with Greenpeace Australia and CHOICE in the 1990s.

Mara returned to investment banking as Senior Internet Equities Analyst at Macquarie Bank in 1999, covering Internet equities during the dotcom boom and its demise. She was a Director in the Allen Consulting Group's Sydney public policy economic consulting practice, and later joined CSIRO as Director of Business Development and member of CSIRO's Executive Management Council.

## HYPOTHETICAL PANEL MEMBERS

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### *Brendan Moon – Queensland Reconstruction Office*

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Brendan Moon was appointed to the role of Acting Chief Executive Officer of the Queensland Reconstruction Authority in November 2015. Prior to this, he was Deputy Chief Executive Officer and has been at the QRA since 2011 as General Manager, Operations.

Brendan is an accomplished senior executive and has substantial experience across the public and private sector. He has managed the State's \$80 million Betterment Fund, helping to improve the State's infrastructure resilience and has been led a multi-disciplinary team to in the assessment, delivery and acquittal of the more than \$13 billion program of reconstruction works being administered by the QRA.

Brendan received a highly commended award for Project Manager of the Year at the 2015 Australian Institute of Project Management awards.

Brendan previously held the role of General Manager, Environment, Biodiversity and Sustainability of Wyaralong Dam Alliance, responsible for the procurement and delivery of what was, at the time, the largest vegetation and carbon offset project in Queensland.

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### *Iain MacKenzie – Inspector General Emergency Management*

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Iain was formally appointed as the Queensland's inaugural Inspector-General Emergency Management in July 2014 and has over 35 years' experience in counter disaster and fire service roles, serving for over 7 years as the Deputy Commissioner for the Queensland Fire and Rescue Service. Iain holds a Master's Degree in Leadership and Management in Policing and has represented Queensland on various National bodies regarding issues of security, emergency operations and workforce management.

The Disaster Management Act in Queensland authorizes the Inspector-General to make disaster management standards and to undertake reviews and assessments of the effectiveness of disaster management. To support this, the office of IGEM, in close collaboration with all DM stakeholders, has developed an Emergency Management Assurance Framework (EMAF). The EMAF is comprised of Principles, the Standard, and Assurance Activities which form the basis for performance improvement and the assessment of the effectiveness of disaster management in the State.

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*Ann Clark – Oxley Creek Catchment Association*

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Background:

- Completed her tertiary education at James Cook University and undertook a Diploma of Education at University of Queensland.
- Taught Science and Mathematics at several secondary schools in both State and Private Systems
- Hon. Sec of Australian Littoral Society (ALS), from 1990 to 1999. In 1996, ALS became the Australian Marine Conservation Society.(AMCS)
- One of the Contributing editors to the publication by AMCS, “The Brisbane River Story Meanders through Time” authored by Helen Gregory.
- In 1995, with the support of others, formed the Oxley Creek Catchment Association (OCCA).
- In 2008, was awarded A Medal of the Order of Australia for her services to the environment and education and to the planning and management of urban waterways.
- Chairman of OCCA from 2001 to 2011, with a short break in 2005-06.
- Currently, Executive Officer, OCCA

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*Mike Foster – SEQ Water*

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Mike Foster is a former APN and News Ltd journalist who worked in Queensland and South Australia over 10 years covering consumer affairs and environment through to industrial relations and politics. Mike worked for two South Australian premiers as principle media advisor and media director before joining national government relations and strategic communications consultancy CPR Communications. His work covered a range of industry sectors including IT, telecommunications, construction, investment banking and airports and included issues and crisis management advice. For the past nine years Mike has worked for South East Queensland’s bulk water provider, Seqwater, as a communication manager/adviser including through the Millennium Drought and the 2011 flood event. Mike is currently seqwater’s Manager for External Relations reporting directly to the Chief Executive Officer.

*Tony McAlister – Independent Water Management Consultant*

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Tony has considerable Australian and International water engineering expertise in the areas of numerical flood and water quality modelling, field data collection and assessment, diffuse source pollution assessment and mitigation, water quality management, catchment land-use considerations and sewerage and water supply management. His expertise has been gained through working with the Queensland Water Quality Council for a number of years, advanced University studies, a one year work period at HR Wallingford in the UK and twenty seven years international experience with BMT WBM where he was Managing Director for many years.

Recently Tony has worked with a group of prominent national water specialists under the guidance of Queensland's Chief Scientist, Dr Geoff Garrett, to prepare the 'Understanding Floods' publication which sets a vision for future flood management in the state and has he has also assisted the QRA with editing a book chapter relating to Disaster Management in Queensland. He is heavily involved with the Healthy Waterways movement in SEQ and sits on the Partnerships' Executive Scientific Advisory Committee or ESAC.

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*Herman van der Most – Deltares, The Netherlands*

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Mr. Herman van der Most is an experienced policy analyst and strategic advisor on integrated water resources management and flood risk management. He has studied civil engineering at the Delft University of Technology and has over 30 years of experience in studies for integrated water resources management, both in The Netherlands and abroad. As a policy analyst he has contributed to the development and application of methods and tools to support interactive planning processes, including decision support systems. The last 15 years his work has focused on flood risk management and on adaptation to climate change.