

National Asset Management Strategy update

November 2017

A number of NAMS Council items were reported at the recent meeting held on the 24th November 2017. Several of these as follows may be interest to readers and members:

1 Strategic and Business Planning

1.1 Strategic & Business Plan and Annual Report

The Strategic Plan, Business Plan and Annual Report were reviewed and endorsed to be considered by the IPWEA Board at their next meeting.

The CEO advised that IPWEA had signed a MoA with CT Management (13 Nov 2017) to promote a nationally consistent approach to managing public infrastructure assets. This will see IPWEA's NAMS (National Asset Management Strategy) and NAMS.PLUS tools be adopted and recommend by CT Management Group and their Associates.

2 Project Reports

2.1 Industry Liaison

The Director and Chair attended a Public Assets Collaborative Group (PACoG) meeting on the 6th November in Brisbane where the Queensland Auditor General provided an overview of the tasks ahead and advised of the release of an update to the Queensland Valuation Guide and outlined a number of pipeline projects in relation to the sustainability of Local Government and their capacity to undertake and report on Asset Management.

Other issues discussed, included: The IPWEA Asset Management Congress, IPWEA Practice Notes, ISO 5000, Progress on AIFMM update, WCEAM 2018 in Norway, Sustainable Cities, Ophan Street Lights, DILGP-SAMP Framework, Fair Value in the Public Sector

2.2 ISO Asset Management Standards

IPWEA continues to play an ongoing active role in the ISO AM Standards review process with Peter Way as Convenor of the Finance Working Group to address AM and Financial management linkages. This includes development of a new Technical Specification on Alignment between AM and Financial Management in organizations. This Technical Specification has progressed to Committee Draft stage and has recently been circulated for comment and feedback from Country National Standards Bodies. It is open for comment until 5 January.

A new final Draft Standard version of the ISO 55002 Guidance Standard has also recently been completed and is now open for a three-month ballot process closing in January. We are seeking ISO permission for that to be circulated to our AM interest groups in Australia as there are some copyright concerns that have been raised.

The next meeting of TC 251 will be in Paris in February with Standards Australia providing financial assistance for attendance by Australian delegates. We are promoting documentation like the IIMM, AIFMM on the global stage as part of this work.

The ISO TC 251 Website is now growing which will allow for better communication on a wide range of issues relating the Standards. Go to <https://committee.iso.org/tc251>

2.3 International Infrastructure Financial Management Manual

Work has now commenced on the development of an International version of the Infrastructure Financial Management Manual (IIFMM) based on the AIFMM. John Howard and John Comrie have kindly agreed to handle the major writing work and Peter Way will project manage this task with a small Steering Group overseeing.

International Accounting expertise is being sourced through John Comrie to ensure we cover the principle messages in the various International Accounting Standards. As previously reported, the intent is to focus more on the principles that should be applied in meeting good practice when it comes to financial management for infrastructure assets – e.g. the life cycle approach and need for long term financial planning to ensure financial sustainability.

At this stage, a first draft and is being reviewed. It is anticipated the finished document should be ready for release in the first half of 2018.

2.4 Resource Development

2.4.1 Asset Management 101 Manual

A first draft has been prepared and reviewed by the NAMS Council members. IPWEA is looking to finalise the manual in the first half of 2018.

2.4.2 National Approach to Electronic ‘As Constructed’ Drawings

A comparative summary of various systems has been undertaken and the IPWEA is looking to explore its options in current planning cycle.

2.4.3 Elected Member Training Resources

The elected member training course was developed using the WALGA Sustainable Asset Management course (developed by IPWEA) and updated to align with the IIMM 2015.

Previously, one short course combining Stewardship Responsibilities for Elected Members and Asset Management Planning basics was run for the Clarence Valley Council earlier this year and was well received. The idea of seeking collaboration with LGAs on a State by State basis around the time of elections, would seem to still have merit.

2.4.4 AM Graduate Programs

The Graduate Certificate and Bachelor of Technology (Professional Honours) in Infrastructure Asset Management is run in partnership with the Centre for Pavement Engineering Education (CPEE) at the University of Tasmania. Details are at: www.ipwea.org/GradCertIAM

Investigations continue on expanding the course to include modules on water/wastewater, parks and buildings. NAMS Council is seeking interest in these modules. Indicate your interest [HERE](#).

It was also resolved that the NAMS Council Chair seek further opportunities for collaboration with NZ NAMS, CPEE and others to explore the possible rollout of the NZ NAMS Diploma in Asset Management in Australia.

2.4.5 Training Programs

Professional Certificate in Asset Management Planning

The Professional Certificate in Asset Management Planning is delivered across the globe and supported by the American/Canadian Public Works Association, Canadian Network of Asset Managers, Finnish Association of Municipal Engineering and the International Federation of Municipal Engineering.

The course includes:

- 8 live webinar presentations held over 10 weeks
- Forum challenges
- Multiple choice questions
- Two assignments
- 'How to' videos and resources
- Qualification of Professional Certificate in Asset Management Planning

Details are available at <http://info.ipwea.org/professional-certificate-asset-management-planning> and Members are encouraged to promote the short YouTube video that is an excellent promotion of the Course.

The course is currently in its 4th year of operation with registrations totalling 852 participants to date. The average completion rate is 73%.

3 Information Exchange

3.1 The National AM Congress

Planning of the [2018 AM Congress](#) (13 - 16th August 2018 | Canberra) is well underway and members are encouraged to post ideas, issues and other initiatives to the [Congress Committee](#).

3.2 Asset Management Study Tour to New Zealand

Preliminary discussion has occurred with NAM.NZ on the timing of a 2018 NZ Study Tour. The NZ Asset Management Forum is scheduled for 5 & 6 November 2018 and would be a good fit to a NZ Study Tour.

This timing will allow Divisions and Foundations to consider the opportunity in preparation of their 2017/18 budgets.

3.3 NAMie National Asset Management Competition

A big thank you to the NAMS Council members who were able to assist with the 2017 Perth Conference NAMie judging. There were a range of papers covering many aspects of AM and the practical application of AM.

Ben Clark of City of Tea Tree Gully in South Australia was judged to be the winner of the NAMie for his paper titled "Managing Assets Through Capability and Knowledge (MACK)". Bens paper was about the continuous improvement journey that has been implemented at the City of Tea Tree Gully since

2013. The project looked at Asset Management through a holistic lens and explained how Tea Tree Gully undertook the implementation of a new Asset Management Information System while dealing with significant change management throughout the organisation.

3.4 Policy Advice

Representations have been provided to the following Federal Government forums:

- Australian State Jurisdictions have formed the “National Digital Engineering Working Group” to coordinate a National Approach to the use of BIM in the delivery of major infrastructure projects. A submission to the working group was prepared by Murray Erbs highlighting IPWEA as the peak body representing the public works sector, IPWEA’s suite of Asset Management Tools including ADAC and our policy for a Nationally Consistent Approach.
- IPWEA were invited and provided a presentation to the inter-jurisdictional forum of State and Territory Agencies that was recently hosted in Brisbane. The group (comprising representatives responsible for the Local Government Sectors within their jurisdictions) discussed how to encourage Councils across Australia to embrace Asset Management and the tools that IPWEA has to assist.

3.5 National Alliances

Rob Fuller met with the new Chair of the Asset Management Council, Dave Daines and CEO Anne Gibbs recently and this provided some good opportunity for possible future collaboration. In particular, they explained their 4-level system of Certification and have provided further detail on how that compares with CPEng as administered by Engineers Australia.

We have previously considered there may be merit in IPWEA and AMC working together with a joint badging of a Certification system and it seems they are keen to pursue such an option. If so, we do need to understand more about how they currently assess applicants. It could also of course have implications for the popularity of our Professional Certificate Course.

Also, since our last NAMS Council Meeting, Peter Way and Murray Erbs have attended two meetings of the Public Assets Special Interest Group hosted by the Asset Institute in Queensland. These have provided us with insights on work by academia on strategic asset management and at the last meeting, a detailed presentation by the new Queensland Auditor General.

3.6 International Alliances

The following Report from Chris Champion (Director International IPWEA & Secretary General IFME) on International Affairs for asset management is presented to keep NAMS Council and IPWEA members informed on what is transpiring globally.

Major Activities Progress:

Canada

- IPWEA’s NAMS Canada (N/C) has been announced as an Implementing Partner with the Federation of Canadian Municipalities (FCM; like ALGA but stronger). This will see us deliver a standalone Professional Certificate course in Canada commencing Feb 2018.

- FCM will provide a government grant to N/C to subsidise 90% of the registration cost to train up to 200 participants. This reduces the registration fee which will greatly assist targeting small urban & rural communities.
- N/C is partnering with Asset Management Saskatchewan (AM-SK) to deliver an additional grant comprising a video, webinars & 1-day workshops.
- These grants represent 15% of the total offered to 22 Implementing Partners across Canada – so an excellent result. The N/C grant represents over 10% of the total funding offered. There were the same number again who were unsuccessful.
- The appointment of Allen Mapstone to IPWEA staff (formerly JRA) will provide additional technical capacity within IPWEA and provide much-needed support for NAMS Canada activities. It will result in cost savings to IPWEA and allow an expansion of technical programs and support. Allen is IPWEA's main presenter for asset management training.

United States

- IPWEA President Ross Goyne, IPWEA NZ President Sam Gain, CEO Robert Fuller and Director International Chris Champion attended the 2018 APWA Congress and PWX Expo held in Orlando, Florida immediately following the IPWEA Conference in Perth.
- IPWEA representatives attended many APWA meetings including International Affairs Committee, Asset Management Task Force, International Infrastructure Round Table, Awards & Recognition Ceremony, International Reception, APWA/IFME Committee, General Keynote & Education Sessions.
- The APWA PWX is an important event for developing and maintaining international networks and partnerships. APWA/CPWA is supporting IPWEA through the marketing of the Professional Certificate in North America, particularly Canada.

New Initiatives Planned

- The IIFMM will be able to form the basis of a new Professional Certificate in Infrastructure Financial Management for delivery in 2019.
- Chris Champion & John Comrie were invited as keynote speakers at InfraAssets Conference #3 held in Kuala Lumpur (30-31 Oct 2017); most costs covered by the conference; an opportunity to inform of IPWEA's AM activities.
- Other opportunities continued to be explored in China, USA, Finland, Canada.
- An International Study Tour is planned for the 2018 APWA PWX Conference in Kansas City with a focus on the USA and Canada reducing tour length/costs; possible topics include emergency disaster recovery, street lighting & smart controls.
- The 2018 PWX event is being held in conjunction with the IFME Triennial Congress of Municipal Engineering (previously hosted by IPWEA in Melbourne & Rotorua).

International Federation of Municipal Engineering (IFME)

The IFME Board Meeting was held in Perth in association with the IPWEA International Public Works Conference. A summary of IFME Board considerations included:

- There were 10 countries represented at the IPWEA IPWC held in Perth including Australia, Canada, Denmark, Finland, Malaysia, New Zealand, The Netherlands, South Africa, United Kingdom and the United States. There were 22 international registrations outside of Australia and New Zealand.
- An extensive schedule of IFME member country upcoming conferences were reported; these will be updated onto the IFME website at www.ifmeworld.org
- There is continued interest in IFME membership from Slovakia, Ukraine, Japan, UAE.
- An orientation information document for new members is nearing finalization

- An approach will be made to UNESCO offering for IFME to assist in its objectives
- Further international technical briefs are being added to the IFME website
- All countries have been encouraged to have members submit abstracts for the 2018 APWA PWX Expo and IFME World Conference on Municipal Engineering to be held in Kansas City (26-29 Aug 2018); possibilities mentioned included China submitting presentations on the Belt & Road Initiative and the Economic Benefits of Urban Development; submissions close October 15, 2017; Details can be found here: <https://www.cvent.com/c/abstracts/75e17950-abcd-4a25-b98f-ad9ecdb8c7ca>
- Excellence Awards are to be presented for IFME Municipal Professional of the Year and Project of the Year at the 2018 IFME Triennial Congress in Kansas City; award criteria are being developed; member country national award winners would be eligible
- The IFME Secretary General (Chris Champion) made presentations to the International City Underground Utility Tunnel Expo in Shanghai (June); International Congress and Convention Association “Power of Associations” Conference, Bangkok (July); Associations Forum Conference on IPWEA’s eLearning success, Sydney (July)
- Meetings were held in Beijing with the Vice Minister for Construction in the China Ministry for Housing and Rural Urban Development; and Associate Professor Gao Ang, China National Institute of Standardization (CNIS). A Communique was jointly issued.
- The draft IFME Strategic Plan has been adopted in principle for further consideration
- An additional early history of IFME will added to the archives on the IFME website
- The next IFME Board Meeting is to be held in Fiji (April 2018). The South Pacific Engineers Association is exploring holding an associated Infrastructure Conference with support from UNESCO, the World Bank and the Asian Development Bank.

4 Product & Publications Report

4.1 International Infrastructure Management Manual (IIMM)

The 2015 edition of the IIMM continues to be well received. Details can be found at: www.ipwea.org/iimm. The eBook version of the IIMM went on sale in March 2017 and is proving popular especially with International Users.

Peter Way also ran a 90-minute webinar at the same time that focused on both the application of the IIMM to meet ISO requirements and the maturity assessment available against the ISO requirements. Around 50 participated.

4.2 Australian Infrastructure Financial Management Manual (AIFMM)

The Australian Infrastructure Financial Management Manual 2015 edition was launched in October 2015 and continues to be well received. The Manual was developed by IPWEA in collaboration with the National Local Government Financial Management Forum.

A project has commenced on the development of an International version of the Infrastructure Financial Management Manual (IIFMM) based on the AIFMM.

The AIFMM 2015 Glossary is available as a free download at: www.ipwea.org/aifmm under *Supporting Material* as a reference point for national consistency.

4.3 NAMS.Plus – Online guided pathway for Asset Management Planning

NAMS.PLUS is a subscription service that provides access to tools, templates, maturity models and other online resources to develop and update asset management policy, strategy and plans based on the International Infrastructure Management Manual and ISO 55000.

At the end of October 2017 there are 377 subscribers to NAMS.PLUS, an increase of 24 (6.8%) since May 2017.

Access for registered users is via the IPWEA Single-Sign_On at: www.ipwea.org/namsplus

4.4 Buildings.PLUS

Buildings.Plus is a web-based software application designed for facility and property managers in any type of organisation that has a significant portfolio of buildings. It is also designed for managers of other assets including parks open spaces, play grounds, recreational centres, houses and educational facilities.

At the end of October 2017 there are currently 30 Australian local governments and 1 Housing provider subscribed to Buildings.PLUS.

A modified Buildings PLUS now writes an output file in a format that NAMS.PLUS can read and use (i.e. Form2 asset register extract).

4.5 Practice Notes

Current Practice Notes - see www.ipwea.org/PracticeNotes

Practice Notes in development

- PN 12.1 - Climate Change Impacts on Useful Life

IPWEA has partnered with the recently merged Northern Beaches Council (NBC), NSW (formerly Manly, Pittwater and Warringah) who were successful in a State government grant application to produce the Practice Note.

The lead author of the new Practice Note 12.1, Dr Jacqui Balston, has drafted most of the document which presents a 'decision tree' method for deciding, firstly, whether the useful life of an infrastructure asset is likely to be materially affected by projected climate change, and secondly, if it is, will provide a process for determining an appropriate adjustment to the useful life.

NBC intend to trial the methodology on several infrastructure projects and intend to complete the document before 31st March 2018

- Disaster Recovery Data Management

It has been proposed that IPWEA NZ could fulfil the role of developing this PN – as an umbrella organisation that leads best practice asset management across all asset types.

The concept is that IPWEA NZ would oversee the process and then call on specific expertise as and when required to address matters related to specific asset types.

Potential Future Practice Notes

- Data Management (In conjunction with work by NZ Division and Austroads on data harmonisation)
- Marine and Waterways structure
- Street Tree Management
- Natural Assets/Waterways
- Water Sensitive Urban Design (WSUD) operations and maintenance
- Coordination of works programs with spatial data
- Parks sub-note 'Water Resources and Irrigation'
- A Public Lighting PN.
- Boardwalks and Bridges Timber Longevity and Maintenance Practices in Australia.
- Life Expectancy, Design Consideration, and Maintenance of Plastics for Public Infrastructure Structures.
- Condition Assessment of Signs

4.6 AUS-SPEC

AUS-SPEC is a technical specification system that assists local government in the life cycle management of their assets providing a range of templates for preparing contract documentation. Managed by NATSPEC (a national not-for-profit organisation whose objective is to improve the construction quality and productivity of the built environment through leadership of information) it is developed by the industry, for the industry and IPWEA encourages local government to subscribe to any of the AUS-SPEC packages.

AUS-SPEC is available in seven packages, each consisting of a number of Worksection Templates. At the end of October 2017 there are currently 162 subscribers to the AUS-SPEC package.

The 2017 AUS-SPEC Update has been released to our subscribers. In addition to the Update, the following advertisement/brochures have been developed:

- AUS-SPEC advertisement published in The Australian Local Government Infrastructure Yearbook Volume 11, 2017
- AUS-SPEC Overview and Case studies (released at the 2017 IPWEA International Conference)
- AUS-SPEC - The necessity of Local Government specification.

4.7 ADAC

Asset Design As Constructed (ADAC) provides a robust data specification that supports asset design drawings and as constructed plans. It represents a strategic solution through quality data capture and management for government and utilities. Compliant data is captured during design and construction processes and used to populate asset component registers and Geographical Information Systems (GIS).

Details on ADAC are available from www.adac.com.au. IPWEA Qld Division manages the ADAC solution.

5 Consultant Supporters Group

The Consultants Supporters Group meet once a year to provide input to the direction of NAMS Council. Outcomes are listed in **Error! Reference source not found.** and added to the Projects List and considered in conjunction with the Strategic and Business Plan review.

At the May Meeting, it was resolved to:

Update the Consultant Supporters package, seek additional Consultant Supporters to join the Roundtable and report back to the next Meeting.

The Supporter Package has now been updated and is available to assist in inviting new Consultant participants.

6 Austrroads - Assets Task Force & Projects

The Assets Task Force is part of the Austrroads Assets Program and has representatives from state and territory road agencies, the National Transport Commission, the Commonwealth Department of Infrastructure and Regional Development, and the Australian Local Government Association.

The Task Force coordinates research that is working towards:

- integrating customer defined levels of service into asset management practice
- quantifying road and bridge wear under increased loads
- providing guidance on non-pavement asset management
- ensuring the Guide to Asset Management is up-to-date
- improving the efficiency of Asset Management intervention strategies.

The last meeting of the Assets Task Force (ATF) was held in Cairns on 20-21 July 2017. Topics discussed that will be of interest to NAMS included:

6.1 **Austrroads Board**

The strategic priority projects identified by the Board include:

6.2 **Data Harmonisation**

A revised business case has given a strong platform to build an initial implementation program for the Assets Data Standard. A core data set of items has been identified and analysis indicates that focusing on harmonisation of a smaller subset of data, primarily related to informing maintenance activities, will give the strongest benefit and minimise costs.

An Implementation Plan has been produced which provides a road map for staged adoption. The Standard will be available over the web and a pilot project will be undertaken in Christchurch. Close engagement with industry and local government is required to support integration of the Data Standard with existing systems.

6.3 **Safety at Road Worksites**

Safety at road worksites is a strategically important issue for Austrroads member agencies and industry. The project comprises of several components including:

- The development of a Guide to Temporary Traffic Management Practice that will deliver a nationally harmonised approach to temporary traffic management guidance and practice in Australia. There will be 11 parts to this new Austrroads Guide and Aurecon has been

appointed to prepare the first three parts. The Guide will be maintained as a dynamic and responsive document subject to regular reviews and updates. These reviews will mirror the current practices used in the New Zealand Code of Practice for Temporary Traffic Management which is reviewed and updated on a near annual basis.

- A registration scheme for traffic controllers and the establishment of a national training portal for industry. The portal will be open to all of industry without barriers to entry based on membership or affiliation.

6.4 Community Service Obligations for Roads

The project is now complete and will inform land transport market reform. The research report (AP-R545-17) from this project examines the application of community service obligations to the roads sector and provides an overview of the potential options which could be utilised in the development of a Community Service Obligations framework. The report is available from the Austroads publications website.

6.5 Key Interventions to Reduce Road Trauma - Forecasting Potential Road Safety Gains

The aim of the project is to identify key initiatives that will assist in achieving Australia and New Zealand's 2020 road safety targets. This is a very significant project and will inform ongoing road safety strategies and supplement the current programs being undertaken by jurisdictions. The Board discussed national messaging, safe systems, safety interventions, and national safety data analysis.

6.6 Road Cross Section Design for Road Stereotypes (including Network Safety Plans) and a Safe System

A key output of this project will be world first performance based road design standards. The project is jointly managed by the Road Design and Safety Task Forces, and will incorporate local government and public consultations.

A consultant has been engaged to deliver a scoping workshop and literature review and to collate information for the agreed road stereotypes. The first practitioner workshop was held in May involving specialists in the various road stereotype component fields. A second workshop is planned for late August/early September.

6.7 Mitigating the Growing Drug and Distraction Driving Risks

This project is driven by the need to address the growing road safety challenge. The project will undertake a quick scoping stocktake of possible opportunities to mitigate these risk areas and make recommendations to facilitate further research or development which can be utilised by all authorities in the short-term and partner with existing Cooperative Research Centre (CRC) research activities.

Austroads and the Commonwealth are working together on this challenging area, with the Austroads project being split into two phases. As part of Phase 1, the consultant has commenced working with the Commonwealth and their consultant CARRSQ to produce their scoping work. Phase 2 will identify and outline subsequent Austroads research for the Board to complement Commonwealth activities, support the strategic policy role of the Austroads Road Safety Task Force and assist Australian and New Zealand jurisdictions in this growing challenge for road safety.

6.8 Australia and New Zealand Roads Capability Analysis 2017-2027

This project will undertake a workforce capability analysis for member agencies on the planned and forecasted infrastructure development requirements in Australia and New Zealand over the next ten years. This project will focus on the traditional and importantly also future skills and capabilities required by road agencies of their engineers. The project is due to start in July 2017.

6.9 2017-18 Research Work Programs

The Board reviewed the proposed 2017-18 work programs and endorsed those of the Safety and Connected and Automated Vehicles Programs.

6.9.1 **Network Program** to focus on network management, movement of people and freight and maximising the efficiency and productivity of the existing network. A project is to be included building on the previous Congestion and Reliability work and the Program also needs to expand the scope of a project examining emerging technologies in arterial road management

6.9.2 **Assets Program** to refocus the work program to incorporate a priority project related to the national harmonisation of technical standards and investigations into road construction requirements for connected and automated vehicles.

6.10 Austroads Online

Austroads is currently engaging with IT companies to review the Austroads website and transform the Austroads Guides into an online resource. The key priorities of this project are improved user experience, knowledge sharing, communication of benefits, use of digital technology and administrative efficiency gains. Austroads is also building an online tool portal to provide easy access to an ever-increasing range of operational data tools coming out of Austroads projects.

6.11 Assets Task Force (ATF)

Guide to Asset Management (GAM)

- The required case studies and new graphics are now coming together for the GAM.
- Work is being undertaken to complete this project.
- The new Guide will be made available electronically with MasterDocs being the preferred platform.

Data Standard Implementation Project

Since the last update on the Data Standard project, several activities have progressed:

- Further refinements have been made to the Data Standard and the Priority Harmonisation Subset (PHS) to reflect Assets Taskforce feedback
- Reviewed findings in relation to the current alignment of the Data Standard with Industry Foundation Class (BIM) Standard
- Updates to the Business Case to reflect stakeholder comments.
- Consultation with local government stakeholders about piloting harmonisation activities.
- Project alignment discussions with 'Data to Support Heavy Vehicle Road Reform' project
- Preparation of project briefs that support the 2017-18 program

7 Next NAMS Council Meetings

Schedule for the next two meetings:

Consultant Supporters Group Workshop
NAMS Council May meeting
NAMS Council November meeting

Thursday 10th May 2018, Melbourne
Friday 11th May 2018, Melbourne
Friday 30th November 2018, Melbourne

8 Around the Divisions

8.1 New South Wales Division

NSW Local Government reform

Reports have been presented to the NAMS Council over the last 2 years outlining the NSW State Government reform across NSW Local Government called “Fit for the Future Program” At the May NAMS Council meeting it was advised that the new Premier had announced that any merger that was not implemented or subject to the legal challenge will no longer occur and the Councils that have merged under the former Premier will be retained.

IPWEA NSW has taken a neutral position on amalgamations and this has allowed them to participate in most forums and be viewed as assisting all parties.

The reform around the ratios for sustainability are still relevant and nonnegotiable, and the Councils who did not meet the ratio’s must still demonstrate how they will meet them, and those LGA’s that were deemed fit must ensure their compliance by 2020.

The NSW Auditor General is now auditing all of the NSW LG entities. IPWEA NSW Division has maintained a working relationship with the OLG and the NSW Auditors Advisory Group to develop the appropriate templates, definitions and guidelines to assist in this process.

IPWEA NSW is consistent in promoting the linkage and use of;

- Australian Accounting Standards
- ISO 55000 Asset Management Standards.
- International Infrastructure Management Manual (IIMM). Institute of Public Works Engineering Australasia (IPWEA)
- IPWEA NAMPLUS Advanced Risk Register Template
- IPWEA NAMSPLUS Asset Management Plan Template

NSW Asset Management Working Group Panel (AMWGP)

The reform within NSW Local Government continues and to ensure IPWEA NSW remains at the table an Asset Management Working Group Panel (AMWGP) was established by resolution at the April 2016 IPWEA (NSW Division) Board meeting to enhance the work undertaken by the IPWEA (NSW Division) Board with the Office Local Government (OLG).

The panel has now met six times since the inaugural meeting in October 2016 as a prelude to the state conference. Each panel member has been given a series of tasks to investigate and report back to the panel and we have had guest attend from JRA and the OLG.

Standard AM Policy: The OLG would like to see a standardised policy across NSW LG. The panel acknowledged the NAMS template was the primary template and determined that a standard asset policy template would not work for all entities as each Council had morphed the NAMS template to accommodate their individual entities.

The consensus was to further investigate the content of existing policies across NSW and ensure they referred to all of the relevant standards which would be a high-level statement about the service delivery and commitment of the journey which also considered additional and disposal of assets and not the guidelines or procedures. A cheat sheet has been developed and will be put to

the February 2018 Board meeting for formal endorsement. Then Panel will place a recommendation via the Board to the OLG about the key elements of the intention of the Asset Management Policy.

Presentation on Dashboards: The OLG are seeking direction from the IPWEA on the use of a standard template or dashboard style information list that could be used to compare and also convey in layman's terms the function and capacity, level of service and asset condition of infrastructure.

The concept of dashboard reporting is not a new concept and there are a number of Councils well advanced in their asset journey using the dashboards to convey the state of play with finance and asset management. The discussions with OLG are to have the dashboards unique for NSW with particular reference to the reporting ratios and also convey in layman's terms the function and capacity, level of service and asset condition of infrastructure.

The AMWGP recognised that the IPWEA Practice Note 8 "Levels of service and community engagement" is a very good reference tool. Consensus was to investigate how IPWEA could assist or develop further the implementation of Practice Note 8 "Levels of service and community engagement" across the state in particular providing some form of assistance for the Councils not using any dashboard reporting (or where staff resources are limited), or the development of a simplistic dashboard.

The AMWGP undertook a "beta" test of the template at the recent conference to gauge the level of support and content on the dashboard and have now developed a revised dashboard template that will be put to the February 2018 Board meeting for formal endorsement and released through the regional forums commencing in March 2018.

Asset Management Audit Preparedness Assessment

As part of the "Fit for The Future" local government reforms the Audit of Council annual reports was extended to include the special schedules that report on Infrastructure. The OLG undertook an Asset Management Audit Preparedness Assessment and the results will not be released. The objective of the assessment was to assess how well the Councils within NSW are prepared for an audit of Councils Asset management information, seek whether they are able to meet the audit requirements and assist Councils to improve their systems. The discussions with the OLG did however reveal that there is inconsistent reporting within our industry and at varying levels of implementation.

A component of the assessment was orientated at;

- Asset knowledge and data
- Strategic asset planning processes
- Operation and maintenance work practices
- Information systems

Division activities

Local Roads Congress set for June

The 2017 Local Roads Congress was a success with good attendance of both Council and Politicians attending. Planning on the 2018 Congress is underway.

IPWEA NSW State Conference 2017

The 2017 State Conference was held in Cessnock in the Hunter Valley of NSW. Overall the feedback received from participating delegates and exhibitors at the conference and in all post-conference communication has been very positive and the 2018 conference will be held at the same venue.

Industry Leaders Luncheon at Board meetings

The Industry Leaders luncheon at the Board meetings continues to grow. The Boardroom Lunch provides a relaxed format for the Board and Parliamentary representatives and other Industry Leaders to engage in key discussion topics.

We have now hosted both sides of the political arena whilst taking the opportunity to advocate Local Government Reform to address:

- Management of public risk, health and safety
- Future funding for infrastructure, renewal and maintenance (not just new)
- skills and capacity within local government
- Recognition of Engineers through the Local Government Act and mandatory registration
- Reduction of regulation and red tape (IPART Submission)
- Concerns of Productivity Commission recommendations to not fund Disaster Relief funding for Local Govt infrastructure
- IPWEA's standing as the peak industry body for technical advice, leadership and stewardship of Public works and services

Regional Forums

The 2018 Regional Forums conducted by the IPWEA NSW team and sponsors are set to commence in March 2018. The feedback has been extremely positive and we have continued the practise of inviting a local MP, and or Mayor to the welcome of each Regional forum. This has encouraged a greater awareness of IPWEA and its activities to the elected community. Some instances have witnessed some great discussion and understanding of challenges facing our membership.

'Pocket Sally'

Pocket Sally is being seen wide and far including out and about with various NSW State Ministers. Sally has been tweeted wide and far with specific attention to promoting diversity in the Public Works Engineering space, and in particular, promoting women in engineering.

8.2 New Zealand Division

CONFERENCES

Fairly quiet on the conference front. The IPWEA NZ conference was held in Dunedin in June and was a great success. Rob Fuller and Ross Goyne represented IPWEA Australasia.



Road Infrastructure Management (RIMS), Infrastructure Decision Support (IDS) and New Zealand Utilities Advisor Group (NZUAG) are continuing with this two day event, driven by the success of

the previous forums. We are proud to be supporting regional New Zealand and hosting the forum at the Palmerston North Convention Centre, Wednesday 21 March & Thursday 22 March, 2018.

Draft Programme outline

DAY ONE: Plenary presentations aimed at the broad roading infrastructure management industry. It will have a strong focus on sharing asset management good practice examples, data collection, works management, transforming data into intelligence and the use of systems and data in optimised decision making and the management of assets. Throughout day one we will be showcasing ngenuity, with examples of leading best practice and thinking around adapting to current issues, innovation and managing better than we have.

DAY TWO: Three concurrent, focused theme streams that will go in to more detail on [1] Rooding Optimised Decision Making and [2] Corridor Management and [3] Procurement and Performance Monitoring. The streams on day two will host more detailed technical talks and will also include workshops for sharing difficulties & learnings, debating and digging further into key issues in these parts of the industry. An important goal of day two is to provide a forum for professionals in different sectors of the industry who do not often get the opportunity to meet as a community to come together and make contacts/network.

Training

The IPWEA NZ Working Group meet October 2017 and considered reports on the seminar tracking, training report to date, and an analysis of past training over the past 5 years.

NZ is seeking to compare a snap shot of some observations relating to training over the past 5 years with what is observed in Australia.

There is concern that we are not getting the attendance at some training that was expected. This was in areas that we had anticipated more interest – such as Better Business Case and Valuations. It was felt that this may have been a timing issue that related to local government processes.

There are a number of future focus areas including;

- Strategic Asset Management for ICT
- Asset Management for Buildings
- Asset Management Maturity for LG (ICR) 101 & 102& Audit

The Working Group suggested themes for the upcoming Local Government Infrastructure Management Forum.

- Changing Business model
- Changing population demographics
- Review of NOC contracts – are they delivering now & the future legacy
- Social benefits
- Service delivery models

There was also a discussion on whether there was an opportunity to promote (including training) the central government approach of Investor Confidence Rating (Asset Management Maturity) to local government.

NAMS Partners Meeting 8 September 2017 (held twice yearly)

NAMS Committee, and Partners (GHD, Opus, Beca, SPM Assets, Aecom, Waugh Infrastructure).

Topics covered:

-
- a) NAMS Council Update incl report on NAMS Council Mtg May 2017
 - b) NAMS NZ / NAMS COUNCIL Relationship – great to have Murray Erb present to talk to this.
 - c) NAMS NZ Project Update – covered as item
 - d) Training Update
 - e) Review of the Advanced Asset Management Forum (2016) Outputs

The list of actions coming out of the 2016 Advanced Asset Management Forum were reviewed and the following feedback was noted:

- *Identify training & learning opportunities for business case development to help tell the story* – concern that not seen as peak body in this area – promote training rather than develop it.
- *Develop valid and clear pathways for Asset Managers* – Kathy working with Christchurch CC identifying capabilities.
- *Development of a repository for asset managers to share information* – providing this through RIMS Body of Knowledge & Ask Your Mates. Require one source and not duplicating information for members to access. Potential for a joint NAMS AU/NZ approach.

It was also noted that NAMS NZ need to make people aware of what they can provide – require mini summary (appetite report) of what workshops are available.

- f) Advanced Asset Management Forum – 2018 Planning/Committee

Scheduled for 5 & 6 November 2018 at the Intercontinental in Wellington.

Key Priorities:

- Need to get Committee together – require volunteers for Forum Organising Committee
- Require planning and planning around Study Tour
- Require more participation from Australia

- IPWEA President (Sam Gain) provided feedback on the below key areas, noted at Partners meeting of 8 February 2017:
 - Training; needs to be more tailored, “E” learning, webinar events, work with NZTA (BBC), need to be responsive to rapidly changing sector needs.
Training Working Group established - currently developing training to be more agile.
 - NAMS needs ensure alignment with central government needs, e.g. asset maturity and evidence based.
E Books; automatic billing, expand to agencies such as World Bank.
Developing.
 - Partners; need to include Parks and Property organisations.
No further progressed - need to give consideration.
 - Web site needs to be worked on and tidied up. Links not working.
Project underway to make improvements – work in progress.
 - Confusion with IPWEA professional certificate and NZ Diploma in Infrastructure.
Working with Training Working Group and NAMS Council.
 - Preliminary results of NAMS Forum attendee survey.
Positive feedback received.

There was a discussion around training and the need to review of what is being offered:

- Valuation training cancelled from lack of interest

- Funding the Gap training, not successful

The following was noted:

- Require good communication plan around training
- What is our role within the community to explain our careers
- Missed opportunity in getting involved with Councils
- Benefits from bringing in outside consultants
- A need to be more collaborative
- Asset Managers, not seen as “sexy”
- Need to think about how we work with organisations on where the overlaps are
- Need to look at Information Management systems, Quality Management & Risk Management
- Opportunity to develop IIMM into French, including e-manual

Asset Management Improvements projects

A review of the 12 asset management projects currently “underway” has been undertaken with use of a prioritisation tool and considered subjective evaluation at NAMS Committee and IPWEA Board members.

A good alignment was achieved between the respective methods and will see a rationalisation of the projects based on resources, funding and current relevant priorities as summarised below.

Project	Description	Status
1	Review Existing IPWEA Material	Complete
2	Review Australian Infrastructure Financial Management Manual (AIFMM)	Complete For NZIFMM. To Consider as IFMM with Supplement for each Country.
4	Asset Management Maturity	
7	Update Optimised Decision Making Manual	
8	Support Meta Data Standards Development	Watching brief at present
11	Simplify Guidance Material	
12	Asset Management 101	Underway supported by NAMS AU
13	Fostering Our Future Talent	Underway

Opportunities for Collaboration with NAMS Council

A number of current and new opportunities for collaboration on development of new material – training, manuals etc have been identified and are underway or consideration.

Development of AM 101 or IIMM 101 – Lisa Roberts has been engaged to undertake this and the project is underway.

AM Maturity Assessment – NZ have assisted in a comparison of the NAF tool with the IIMM one as part of the review of all IPWEA NZ material.

As noted above it was great to have Murray Erbs attend the NAMS NZ Partners meeting and subsequent NAMS Committee meeting.

8.3 Queensland Division

Asset Management continues to be a major focus for Queensland Local Governments in 2017/18.

The following is a summary of major Asset Management happenings in Queensland over the past six months:

- Queensland Audit Office continues to apply pressure to Local Authorities to improve their Asset Management practices. Audits have a detailed Asset Management. Component that Councils must respond to. QAO have foreshadowed that they will be doing a performance audit on Local Authorities strategic asset management planning in 2018/19.
- Queensland Treasury Corporation has been holding a number of financial management workshops across the state highlighting good Asset Management practices.
- NAMSQ held its first meeting at the IPWEAQ State Conference on the 26/10/17. A copy of the minutes is attached.
- IPWEAQ State Conference was held in Townsville from 24-26 October 2017. There was a good separate Asset Management stream, which received good attendance. There was also a Financial Management forum held with Local Government representatives, QAO and QTC.
- The Public Assets Collaborative Group met on 6th November. The meeting was informative, however highlighted to me that there is not a lot of project collaboration occurring using NAMS. There are still other entities out there reinventing the wheel. We just need to keep reinforcing the good work done previously by NAMS.
- A meeting was held with the Qld Department of Local Government and Infrastructure Planning to promote the use of NAMS within Qld. The government is looking at ways that it can assist Local authorities improve their Asset Management practices, we are suggesting that subsidising NAMS membership for all Qld Councils is a good start.
- The Qld Government has started allowing rehabilitation work on assets as being eligible for funding, this is a real positive step in the right direction.
- The Qld Government also provided funding for asset condition surveys for the first time.

8.4 South Australia Division

2018 IPWEA (SA) State Conference & Excellence Awards Dinner

The 2018 IPWEA (SA) State Conference and Excellence Awards Dinner will be held on Friday 25th May 2018 in Adelaide.

The Conference will be followed by the celebration of IPWEA SA's Gala Dinner, including the presentation of the 2018 Excellence Awards to recognise innovation and excellence in the public works field.

Development Engineering Committee (SA)

IPWEA (SA) has had a development engineering committee working on a myriad of issues confronting councils in the area of contributed assets and development engineering approval since 2010. The committee is made up of a group of our members from the local government sector who meet regularly to discuss various issues, exchange ideas and network on all matters relating to Land Division Management.

The purpose of the Interest Group is to establish a forum for discussing common issues in the land division process and to provide recommendations for improvements on a number of issues to assist local government staff, developers and others involved in the land development process.

Infrastructure Guidelines: Standards and Requirements for the Design and Construction of Infrastructure Assets in South Australia

Over the past few years, IPWEA SA has been progressing the development of Infrastructure Design Guidelines for South Australia with funding from the Local Government Research and Development Fund.

The guidelines started as Land Division Design guidelines and quickly moved to Infrastructure Design guidelines as it became evident that works completed by Councils and developers should be to similar standards. Over time, the Infrastructure Design Guidelines will include standard drawings, specification references, checklists and proformas. The guidelines are intended to be a live document and will be updated over time as required.

We are now pleased to announce that the Infrastructure Guidelines are now available for use and a copy can be obtained in the Library section of ipwea sa website

A hard copy will shortly be sent to all Councils in South Australia.

Planning, Development and Infrastructure Act 2016 (PDI Act) - Infrastructure Schemes and Pilot Project Reference Group

The Planning, Development and Infrastructure Act 2016 (PDI Act) represents the blueprint for South Australia's new planning system. To kick off the staged introduction of the new Act, the SA Parliament has now passed transitional legislation (Statutes Amendment (Planning, Development and Infrastructure) Act 2016).

The PDI Act will now be brought into effect, in stages, over the next 3 years.

As part of this contemporary planning system new financial tools will be developed to ensure the infrastructure supporting new developments is appropriately funded and delivered.

The Basic and General Infrastructure Schemes will supplement existing schemes such as planning conditions, deeds and bonding arrangements.

These schemes replace the need for complex infrastructure agreements with individual landowners, which has slowed administration processes considerably. They will also ensure that those who serve to gain from works contribute their fair share of infrastructure costs.

IPWEA (SA) is represented on a Pilot Project Reference Group which aims to

- Provide support and advice to the Pilot Project Infrastructure Scheme Coordinator and the Department in establishing and running the pilot program.
- Provide advice to the Department on opportunities for improvements to the Infrastructure Scheme framework based on the outcomes of the pilot program.
- Provide advice on and represent the interests of the respective organisations in the development of Design Standards model framework.

The South Australian Local Government Asset Management Network - SALGAMN

The South Australian Local Government Asset Management Network is an Asset Management Special Interest Group based in South Australia. The active network has been established by a group AM Practitioners, and has a fair representation across the state.

They have a basic Terms of Reference and currently meet approximately 4 times per annum (every 3 months) whereby a Council will nominate to host the meeting and also present on an asset management topic or projects being undertaken at their Council.

8.5 Tasmania Division

2017 Tasmanian Works & Engineering Conference

This year's conference was held on 3 November at the Hobart Show Grounds. This year's conference theme is 'Getting the Job Done, Right' and was co-hosted in partnership with the Tasmanian Association of Municipal Supervisors and IPWEA Tas division. This event is a major event in Tasmania for works and engineering and was well supported this year. This included 35 trade exhibitors which provided an opportunity for the larger space at the Show Grounds to be used to cater for greater number of exhibitor sites. This year's conference covered a wide range of topics including on project management/delivery, open space, public buildings, roads and transport, stormwater/flooding, asset management and infrastructure planning.

Regional Financial and AM Meetings

The next regional Asset Management Group meeting for northern Tas will be held on 29 November. This is the first meeting for 2017, as end of financial year commitments has interrupted meeting planning during the second and third quarter of 2017.

The agenda for this meeting includes the adoption of a Strategic Plan for the group, NAMS Council update and NAMS.PLUS, Elected Member Engagement, standard AM documentation for auditing, a proposal to rename to NAMS Tas (state wide member base supported by NAMS Council), an updated from LGAT and possibly Department of Premier and Cabinet (DPaC). An open invitation has also been made to John Howard and as always John is willing to offer his time if required.

Tas Division AGM

The IPWEA Tas Division AGM was held on 8 September in Launceston. As is customary at the AGM a report on NAMS Council for 2016/17 was presented to our members. This update included details on; succession planning; e-version of the IIMM; Professional Certificate and Professional Honours training; NAMS.PLUS; National AM Practices; 2018 AM Congress and the Austroads data harmonisation project.

Tas Audit Office

Just to wrap up, a note regarding Jara Dean Deputy Auditor General who has left the Tas Audit Office. Jara has worked closely with John Howard and the Northern Asset Management Group to improve AM practice in Tasmania. A major project overseen by the TAO was the Report of the Auditor-General No.5 of 2013-14 that focused on providing guidance for AM practices and helped set a benchmark for all Tasmanian councils. Jara was a major contributor to this

project and his ongoing support has been greatly appreciated. I would like to take this opportunity to thank Jara for his efforts and support and wish him well in his new role.

8.6 Victorian Division

Regional Group Input and IPWEA Feedback:

IPWEA Vic has set up arrangements with the Victorian Regional Groups to discuss Public Works issues, opportunities to provide feedback on asset management issues and how NAMS can support them. The May NAMS report and Strategic Plan was distributed to the Groups to seek feedback. Feedback is still being sought from the Groups.

- A presentation to the IPWEA Board by Steve Verity was planned for its November meeting but it now clashes with a NAMS Council meeting so has been deferred until the February Board meeting. The objective is to better engage the IPWEA (Vic) with the NAMS so the Victorian Division can more meaningfully contribute.
- IPWEA (Vic) has curated a Summer Asset Management Intensive (see draft SAMI flyer attached) based on three of IPWEA's in-house training courses. The program is based on five Councils participating and at this stage it is expected to go ahead as planned.
- The Regional Group has suggested a guide line should be developed for managing Heritage assets.
- Works is continuing in finalising the next Vic IPWEA conference which will be held in May 2018. The Conference will focus on the following themes:
 - Theme 1 - Building Communities
 - Theme 2 - The Discipline of Delivery
 - Theme 3 - Disruptive Technology
 - Theme 4 - Performance Enhancement

State Issues:

A recent Facility Management Luncheon had speakers from VAGO, ASSETICS and MACDONALD LUCAS discussing Local Government asset management.

Key Themes presented:

- VAGO: Presented findings and issues that VAGO have identified when auditing Local Government Asset Management Plans and Financial Accounts. VAGO still support straight line depreciation of assets.
- ASSETIC: Provided a good presentation that highlighted the importance for Local Government to invest in good asset management practices and how this will support Council to make sound financial decisions on provision of services in a rate capped environment.
- MCDONALD LUCAS: Presented on how good Facility Practices assist in better Asset Management Practices as well as providing efficient FM services.

Accreditation for Professional Engineers will be in force soon. The model will be similar to that in place in Queensland. The details have yet to be finalised.

The Victorian Government is close to appointing a Chief Engineer for the State.

Significant investment is being made into major rail and road infrastructure works.

A VAGO report has noted that Vic Roads have not been investing sufficiently on road maintenance over the years. This has allowed the State road network to deteriorate significantly and to extent that some sections of roads are unsafe to use.

8.7 Western Australian Division

The Asset Management Team worked on four objectives through this year:

- Connect to asset management practitioners in every local government authority in WA,
- Record the status of asset management maturity in WA to inform training, development and support needs,
- Actively promote asset management through a focus subject every two months, and
- Promote asset management through a communication program.

The first objective has proven difficult to achieve, as team members have not been able to find the time needed to follow through with the contacts. With only eight core team members, the objective required contacting 140 local governments. As a result, objectives 2 and 4 have also not progressed. The team is considering alternative methods of making contact and collecting the information.

The team was able to initiate a focus subject in June, July, and October, delivered through breakfast seminars. With a format of three presentations in an hour, following a hot breakfast, the seminars were well attended, attracting over 40 each time.

Enhancing the Asset Management of Paths

This seminar started with the experiences in the City of Melville on the use of the Practice Note 1 Footpaths and Cycleways by Paul Handcock. Then followed a presentation by Doug Bartlett on planning to expand the path networks in the City of Mandurah, covering the criteria and methodology used. Last was a presentation by Lalinda Karunaratne and Craig Fitzgerald on the asset management practices in the City of Kalamunda, where scenario modelling was used to determine the optimum funding level for paths.

Enhancing Asset Management by Using Proven Technologies

This seminar by Luke Matthews showed the latest in CCTV camera inspection technologies for drainage pipes, being used in the City of Stirling. The City has a dedicated van and inspection equipment that is used to check all gifted drainage infrastructure, ensuring quality control before taking responsibility for the assets. Francois Finette from Pavement Management Services then presented on road condition surveys using photo imagery and analysis technologies, enabling detailed condition and photo imagery to be used to identify and map defects, and understand road condition. Last was a presentation by Henk Degraf from Industrial Automation Group on control systems for parks irrigation and lighting. This showed how updating irrigation control cabinets and using smart systems management saves significant time and enables better water resource management.

Flow on Effects of Developments

This seminar started with a very brief overview of the latest addenda to the IPWEA WA Local Government Guidelines for Subdivisional Development, by Martyn Glover. The latest addenda will improve the range of standards and underlying expectations between local governments and subdivision developers. Changes covered many areas such as: erosion control, defects liability bonds, retention of vegetation, design traffic volumes, geotechnical reports, and drainage of battle axe legs.

Towards a Common Road Condition Assessment

This will be a workshop as part of the IPWEA WA Training Week at the end of November. The workshop will include a very brief introduction to Practice Note 9 Condition Assessment and Asset Performance Guidelines for Road Pavements. A set of road data from Pavement Management Services will then be presented, and three local government practitioners will discuss how they use and interpret the data, relative to the guideline of the Practice Note. Workshop attendees will then be given the opportunity to assess some further road data and attempt to align their practices with the Practice Note.

The significant event on the WA calendar this year was the International Public Works Conference in Perth from 20-23 August. The conference program included a dedicated stream on Asset Management. Members of the NAMS Council assessed the papers and presentations to select the winning paper, being Ben Clark's "Managing Assets through Capability and Knowledge". Using the acronym "MACK", Ben presented the story of his organisation's journey in asset management and how the activity was promoted across the organisation of the City of Tea Tree Gully.

The IPWEA WA Asset Management Team has gained two further members through the year, and is now setup to continue to promote asset management practices in 2018.

NAMS Council is an initiative of the IPWEA.

The NAMS (National Asset Management Strategy) Council support the IPWEA to be the peak professional association that enhances the quality of life in communities by providing consistent leadership, advocacy and best practice in the sustainable management of public works infrastructure, community assets and services.

NAMS Council members are:

Chair

Murray Erbs, murray.erbs@ipwea.org

Division Delegates:

Paul Gallagher, NSW,

paul.gallagher@nambucca.nsw.gov.au

Al Monro, NZ Alastair.Monro@ghd.com

Stephen Hegedus, Qld, Stephen.hegedus@y7mail.com

Angelo Catinari, SA, acatinari@wtcc.sa.gov.au

Robert Little, Tas, Robert.Little@mvc.tas.gov.au

Vito Albicini, Vic, valbicini@gmail.com

Doug Bartlett, WA,

Doug.Bartlett@kalamunda.wa.gov.au

IPWEA Australasia Office:

Robert Fuller, CEO, robert.fuller@ipwea.org

Steve Verity, Project Manager,

steve_verity@technologyonecorp.com

IPWEA Australasia

Level 12, 32 Walker St, North Sydney NSW 2060

T 02 8607 0485

E admin@ipwea.org

W www.ipwea.org