

IPWEA South Australia Conference Standards Strategies and Sustainability

NAMS.AU – Leaders in Asset Management?



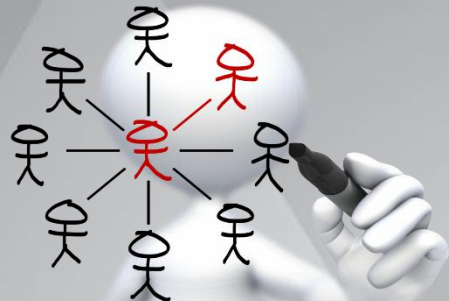
Peter Way PSM, Chair NAMS.AU



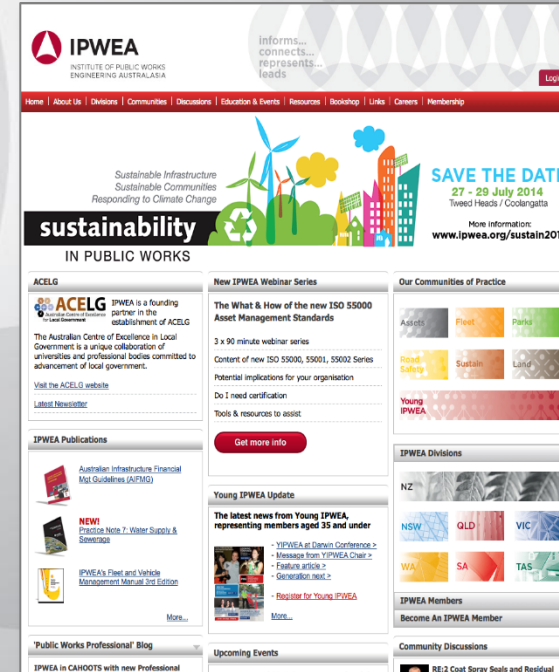
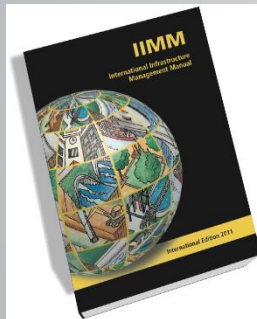
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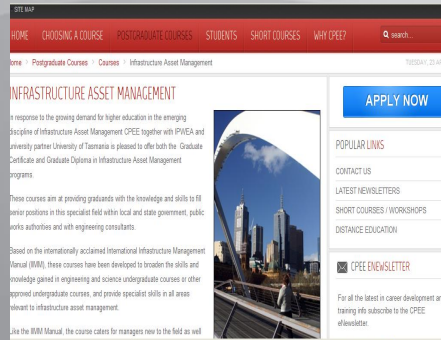
Asset Management Strategy



Networking/Collaboration ISO AM Standards Conferences/Study Tours

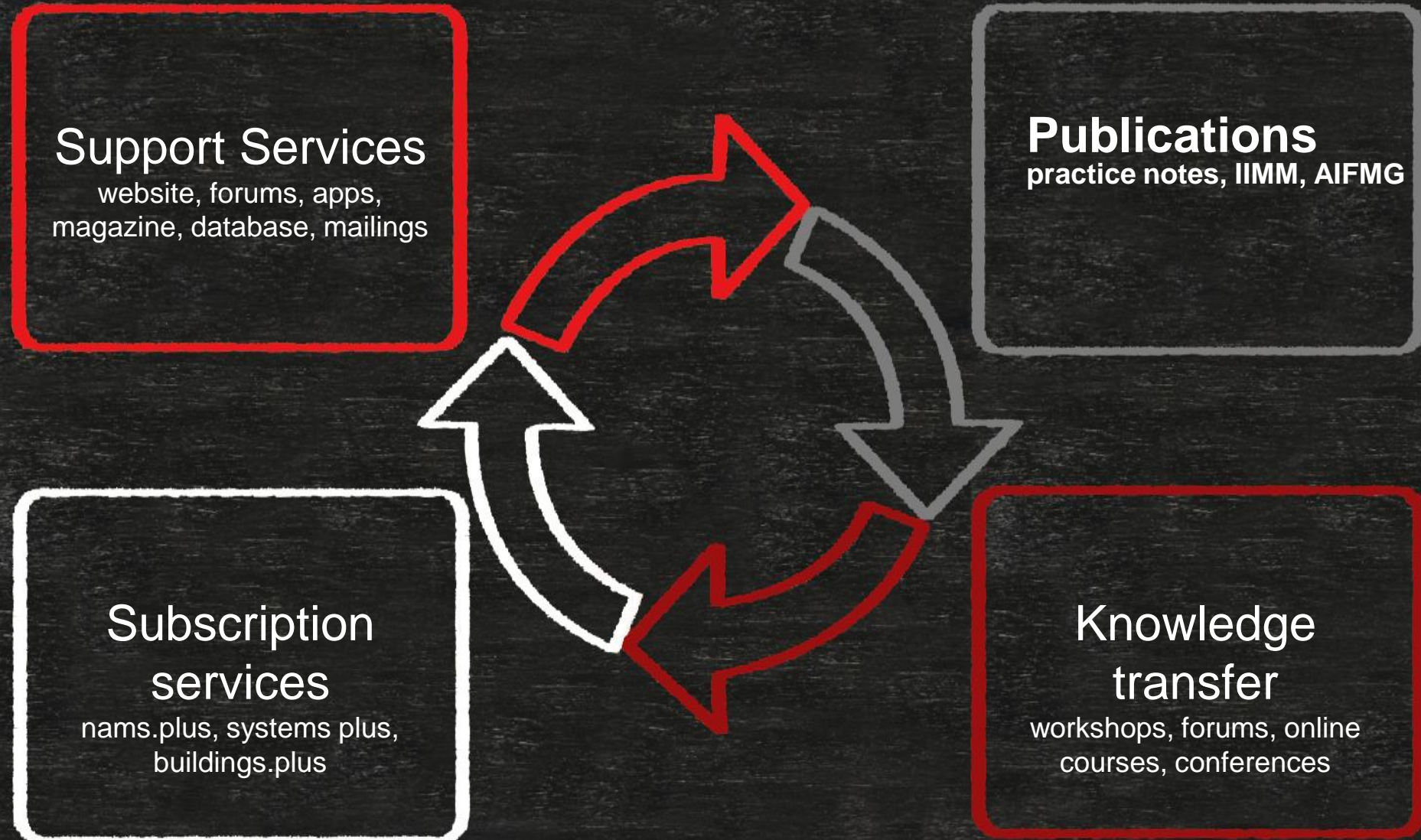


Tools and Resources

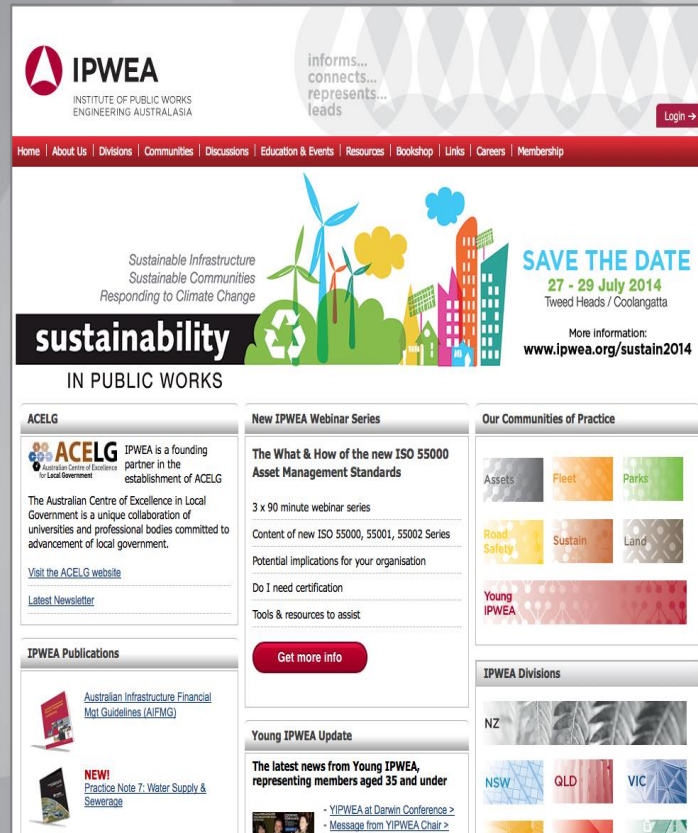


Education/Training

Operating model

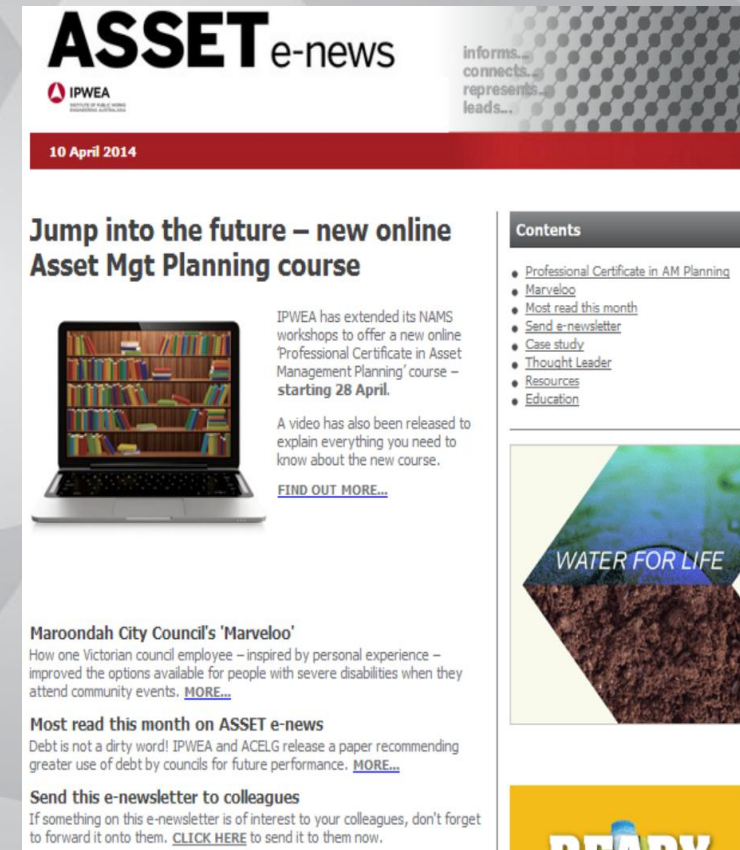


Website and Newsletters

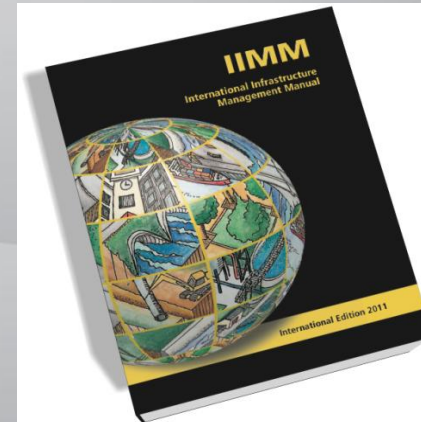
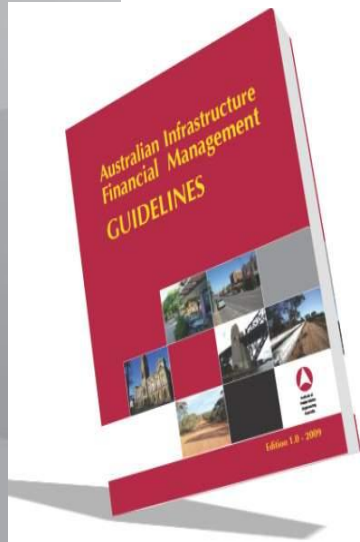
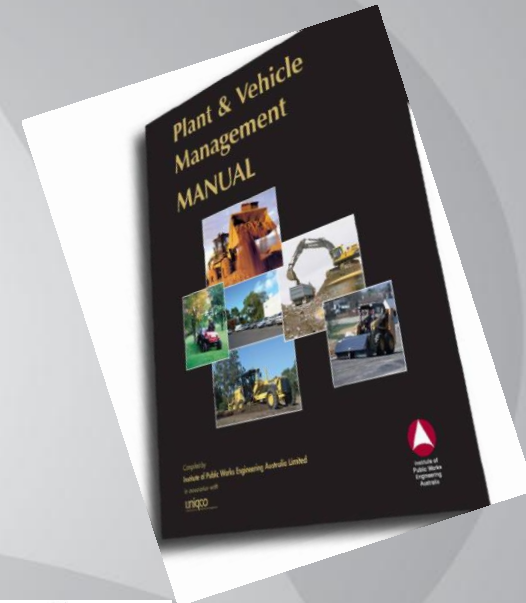
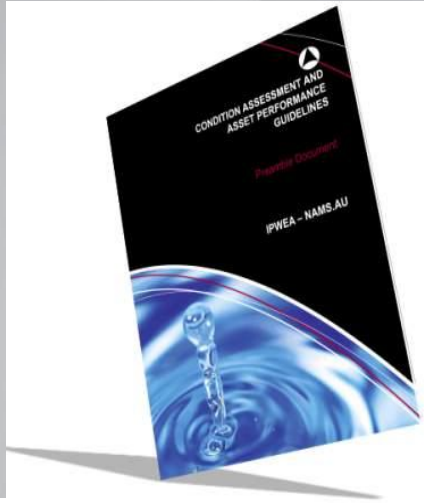


New Area of Practice
– Land Development
Engineering
AssetMates forum

Monthly On-Line Newsletter



IPWEA Manuals & Guidelines provide a nationally consistent approach



IIMM Update Underway

Adopt ISO definitions where possible;

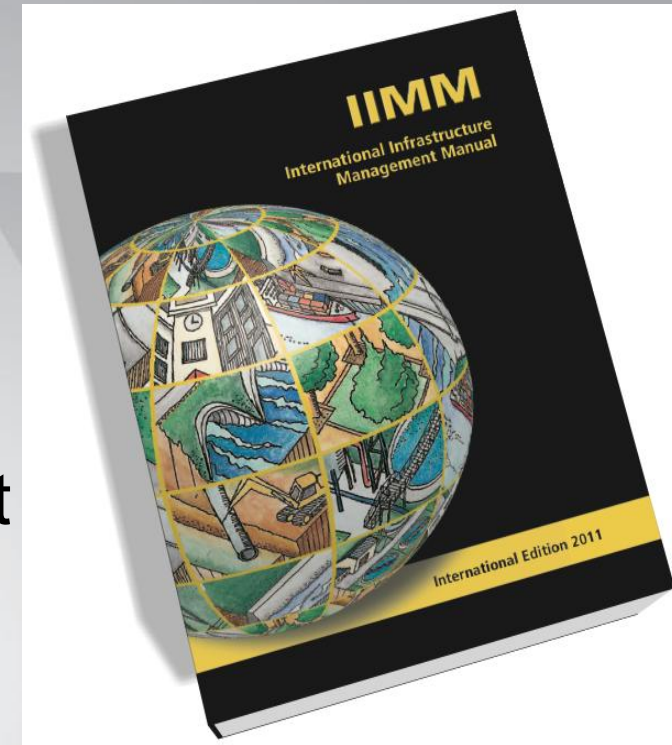
Include more on Strategic Asset Management Plan;

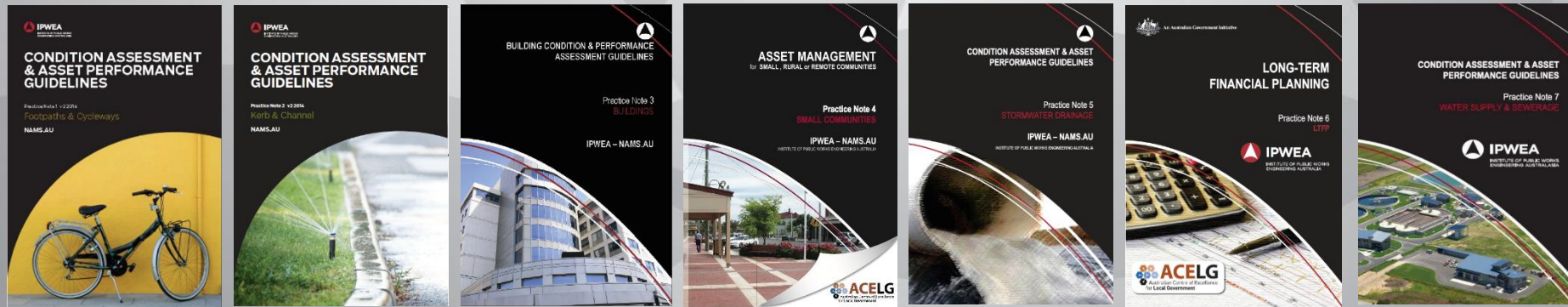
More on AM System approach and integration;

Strengthen top management involvement;

Review ALL material to ensure still relevant;

Update case studies.





PRACTICE NOTE PUBLICATIONS



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informs...
connects...
represents...
leads

NAMS.PLUS 3

An online guided
pathway for Asset
Management Planning

[IPWEA](#)

[NAMS.AU](#)

[AM Community of Practice](#)

Home

Core & Advanced AM

Templates

Data Mgmt

Graphs & Reports

Analysis

Maturity

Help

Logout

Admin



NAMS.PLUS3

will assist Councils and other organisations who provide services from infrastructure to write their Asset Management Plans

NAMS.PLUS3 includes

- Templates and E-book Guidelines
- On-line modelling
- Maturity model
- On-line Help Desk
- Training & Support
- On-site support and assistance options

CLICK on SIDEBAR

To access features

IPWEA's Sustainability Approach

Is based on 3 key elements

1. Stewardship – role of elected members
2. Asset Planning – managing existing as well as new
3. Financial Planning – essential part of business

IPWEA's Asset Management Resources

- International Infrastructure Management Manual (IIMM)
- Sustainable Communities, Critical Insights DVD
- Australian Infrastructure Financial Management Guidelines (AIFMG)
- Practical Guidelines (Practice Notes) for
 - Guidelines Preamble
 - Practice Note 1: Footpaths and Cycleways
 - Practice Note 2: Kerb and Channel/Gutter
 - Practice Note 3: Buildings
 - Practice Note 4: AM for Small, Rural & remote

NAMS.PLUS 3 – New Features

- Online data input
- Data editing in real time
- ‘How to’ videos
- Maturity model - ISO 55001
- Climate Change factors
- Capacity to aggregate data for strategic corporate AM plan





IPWEA Online Professional Certificate in Asset Management Planning

Register Online Today >

IPWEA has extended its popular NAMS workshops to offer
a new **Professional Certificate in Asset Management Planning**

- ✓ Do you need to improve your skills in asset management planning?
- ✓ Have you been unable to attend IPWEA's past NAMS.PLUS workshops, or simply need a refresher?



Your **IPWEA** qualification in asset management planning

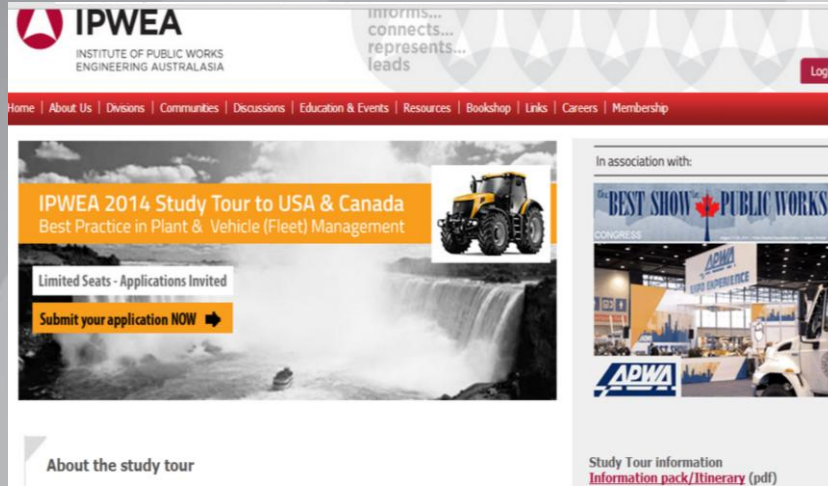
- Live & interactive webinars

NAMS Workshops

- Water Supply & Sewerage – Later 2014?
- Storm Water Drainage – Sept/Oct 2014
- Buildings – Sept 2014
- Long Term Financial Planning – Nov 2014
- Infrastructure Financial Management -2015



Conferences and Study Tours



International Study Tour
August 2014 – Fleet
Management
USA/Canada
APWA Conf Toronto

New Zealand Study Tour
and AM Conference
October 2014



International Conference Rotorua NZ - June 2015



Sustainable
Communities
Sharing
Knowledge

ROTORUA | 7-11 JUNE 2015



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Sustainable
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Invitation..

[Invitation to IFME 2015](#)

[Click here to view Rotorua Work & Lifestyle profile](#)

[Click here for suggestions for holidaying in NZ after the conference](#)

Rotorua, New Zealand will host the combined IFME World Congress on Municipal Engineering and IPWEA International Conference from Sun 7 - Wed 10 June with technical tours on the morning of Thu 11 June 2015. We are looking forward to sharing municipal engineering knowledge with our overseas colleagues.

The 2015 event promises to be an inspiring experience, providing excellent opportunities for networking, knowledge sharing and encouragement for new and younger delegates. There is plenty to do in Rotorua and an interesting partners' programme will be offered. Our keynote speakers, technical tours and social programmes will complement the infrastructure essence of the Conference.



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ISO AM Standards Contents

- The ISO 55000 suite includes:
 - ISO 55000 Asset management – Overview, principles and terminology
 - ISO 55001 Asset management – Management System - Requirements
 - ISO 55002 Asset management – Management systems - Guidelines on the application of ISO 55001



AM System – What is it?

- NOT a Software System
- NOT an Information Management System
- IS a set of tools, including;
 - policies,
 - plans,
 - business processes and
 - information systems, which are integrated to deliver the asset management activities
- The am system coordinates contributions from and interaction between the many functional units within an organization impacting on asset management



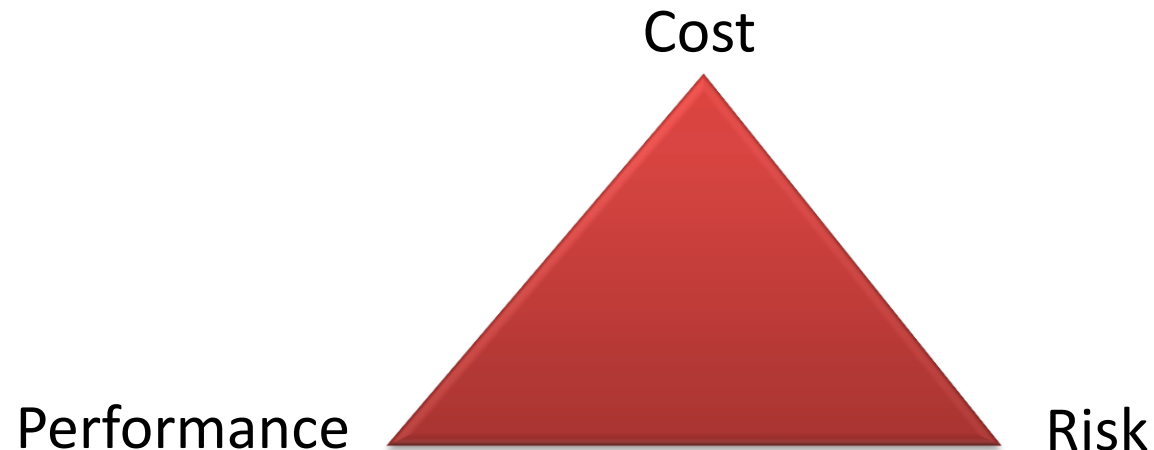
55001 – Overview of Contents

- Context of the Organisation
- Leadership and Commitment
- Planning – for both the AM System and AM
- Support – for both the AM System and AM
- Operation and Control
- Performance Evaluation
- Improvement



Why Organizations need to Control and Exercise Governance of Assets

- To realize **VALUE**
 - Through managing risk and opportunity
- To achieve **BALANCE** of cost, risk & performance
- AM uses risk based approach to translate organizational objectives into asset related decisions, plans/activities



What will the Standards deliver?

- A Framework for a consistent Management System approach to AM
- Greater commitment at Senior Management level
- Better integration of asset management and financial management
- More effective asset management process.
- A positive contribution to infrastructure/industrial competitiveness



Will the Standards create a stimulus for new guidance and practice?

- It can if applied appropriately and not just for sake of compliance
- Promoting integration of management systems can break down silos
- Look at any gaps between current practice and what is promoted in the Standards
- Lessons can be learned from a more globally consistent approach



IPWEA Policy on the ISO Standards

- All infrastructure orgs should consider for benefits from applying a MS approach
- Governments to promote at level appropriate to business/community needs
- Not prescriptive – apply to those assets and at level appropriate to stakeholder needs
- Not just for compliance – part of overall management approach
- Orgs to decide on appropriate level of certifying compliance
 - www.ipwea.nams.au

To Certify or Not for Conformance?

- What will your stakeholders expect?
- What are the costs/benefits?
- Concern regarding the competence
 - Auditors in the AM MS field
- IPWEA involved in establishing a technical evaluation process for AM Auditors



Next Steps on ISO?

- Standards Australia to resolve through MB19 Committee whether to adopt AS version
- Likely to be in place by end of year.
- IPWEA running series of Webinars
 - 3x90 minutes to raise awareness and assist in implementation.
 - Highlight Policy
 - IIMM Supplement as “How To” guide
 - Maturity Assessment tools

Webinar Format

Three webinars over two weeks

Webinar one	Webinar two	Webinar three
<ul style="list-style-type: none">• A Brief History of ISO AM Standards evolution• Overview of all three Standards• ISO 55000 - Benefits of Asset Management and Terminology• IPWEA Policy and resources	<ul style="list-style-type: none">• ISO 55001 – The Requirements• ISO 55002 – Guidance (Up to Section 8)• Using the IIMM for implementation• New Supplement to the IIMM explained	<ul style="list-style-type: none">• ISO 55001 – The Requirements• ISO 55002 – Guidance (Remaining Sections)• Conformance and Assessments• Maturity assessment Framework• IPWEA Tools and Resources

IPWEA AM Maturity Assessment

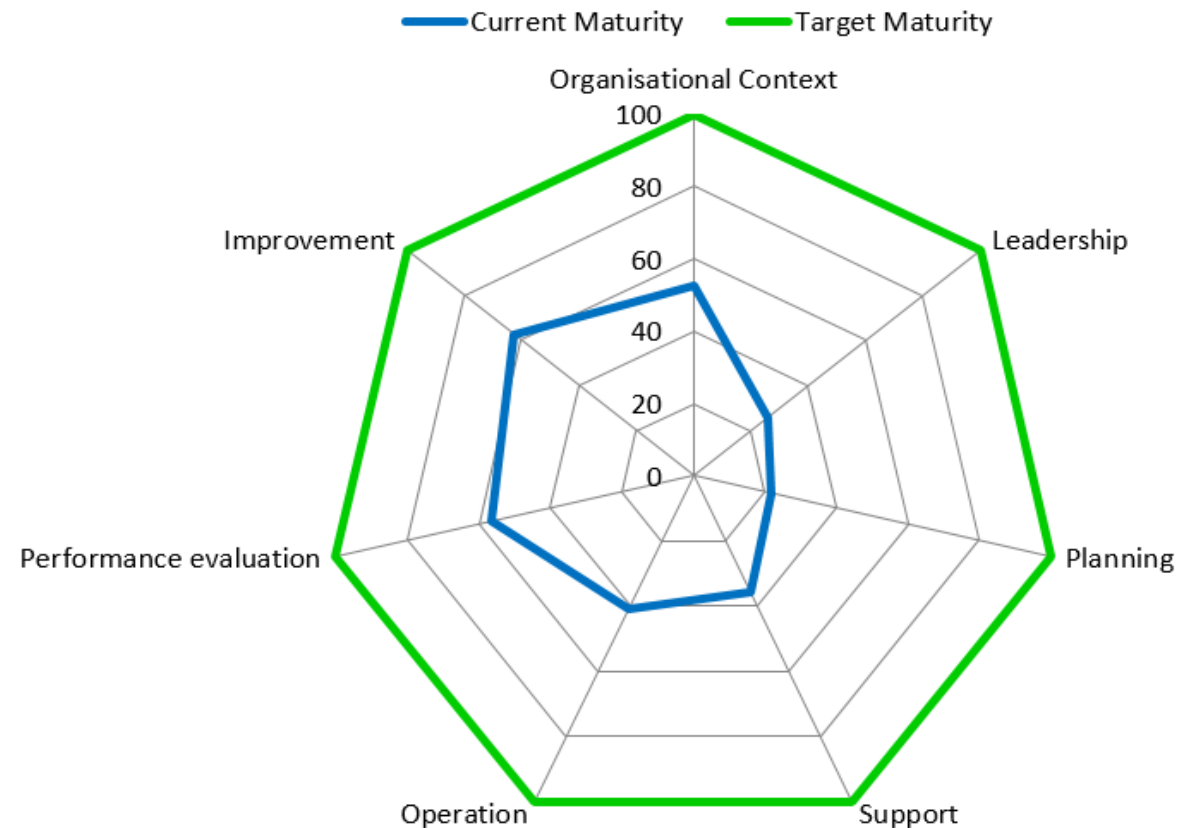
- Currently as part of the NAMS.PLUS Program
- National Asset Management Assessment Framework (NAMAF) developed through ACELG for local government
- Developing a Maturity Assessment Framework for ISO 55001
- Opportunity to self assess or utilise third party.

Example Maturity Assessment Framework

ISO 55001 Asset management - Management systems - Requirements					
MATURITY ASSESSMENT FOR MEETING ISO 55001 REQUIREMENTS					
Section		Current Risk		Target Risk	
		Likelihood	Possible	Likelihood	Unlikely
4	Organisational Context	Consequences	Major	Consequences	Minor
4.1	Understanding the organisation and its context				
	Does the organisation understand the organisation and its context?				
	Requirement	Maturity			
4.1.1	Has the organisation determined the relevant <i>external</i> issues relevant to its purpose and that affect its ability to achieve intended outcomes?	Well progressed			
4.1.2	Has the organisation determined the relevant <i>internal</i> issues relevant to its purpose and that affect its ability to achieve intended outcomes?	Partially complete			
4.1.3	Are asset management objectives defined and documented?	Not started			
4.1.4	Are the asset management objectives aligned to and consistent with organisational objectives?	Not started			
4.1.5	Are asset management objectives included in the Strategic Asset Management Plan?	Not started			
Section		Current Risk		Target Risk	
		Likelihood	Likely	Likelihood	Unlikely
4	Organisational Context	Consequences	Moderate	Consequences	Moderate
4.2	Understanding the needs and expectations of stakeholders				
	Does the organisation understand the needs and expectations of stakeholders?				
	Requirement	Maturity			
	Has the organisation determined the:				
4.2.1	- stakeholders that are relevant to its asset management system?	Not started			
4.2.2	- requirements and expectations of stakeholders with respect to asset management?	Complete			
4.2.3	- criteria for asset management decision making?	Not started			
4.2.4	- stakeholder requirements for recording <i>financial</i> information relevant to asset management?	Well progressed			
4.2.5	- stakeholder requirements for recording <i>non-financial</i> information relevant to asset management?	Complete			
4.2.6	- reporting requirements for <i>internal</i> reporting to stakeholders?	Not started			
4.2.7	- reporting requirements for <i>external</i> reporting to stakeholders?	Well progressed			

Summary Graphs

ISO 55001 Maturity Assessment Objective - Improve Maturity (blue -> green)



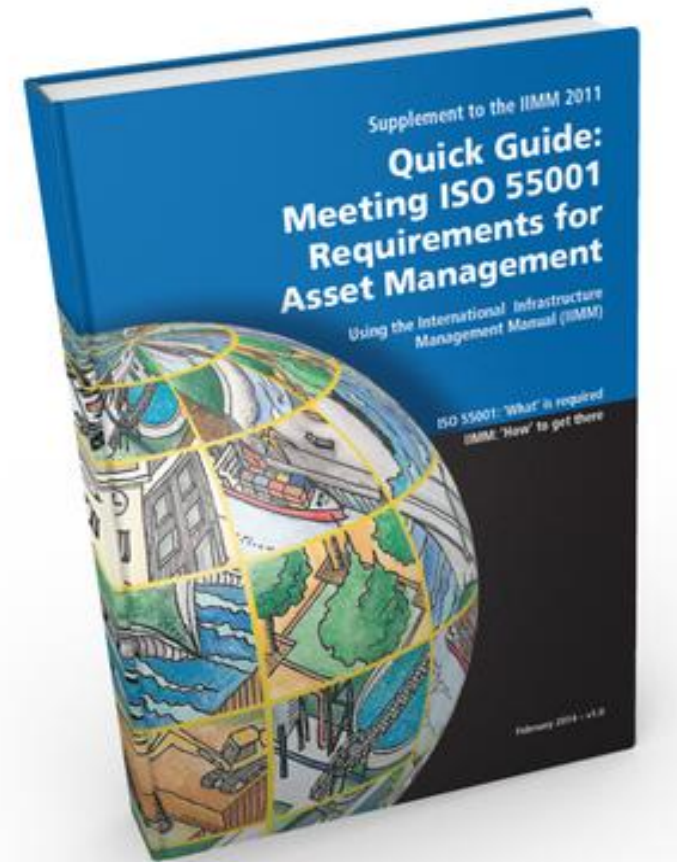
Detailed Graphs

ISO 55001 Maturity Assessment Objective - Improve Maturity (blue -> green)



IIMM Supplement – Free Download

- Mapping process to identify relevant Sections from IIMM against each of the 55001 Requirements.
- Provides the 'How to' on applying the IIMM to meet the ISO 55001 requirements.
- Go to www.ipwea.org/IIMMsupplement



APPENDIX A: Summary Of IIMM Clause Numbers Relevant To ISO

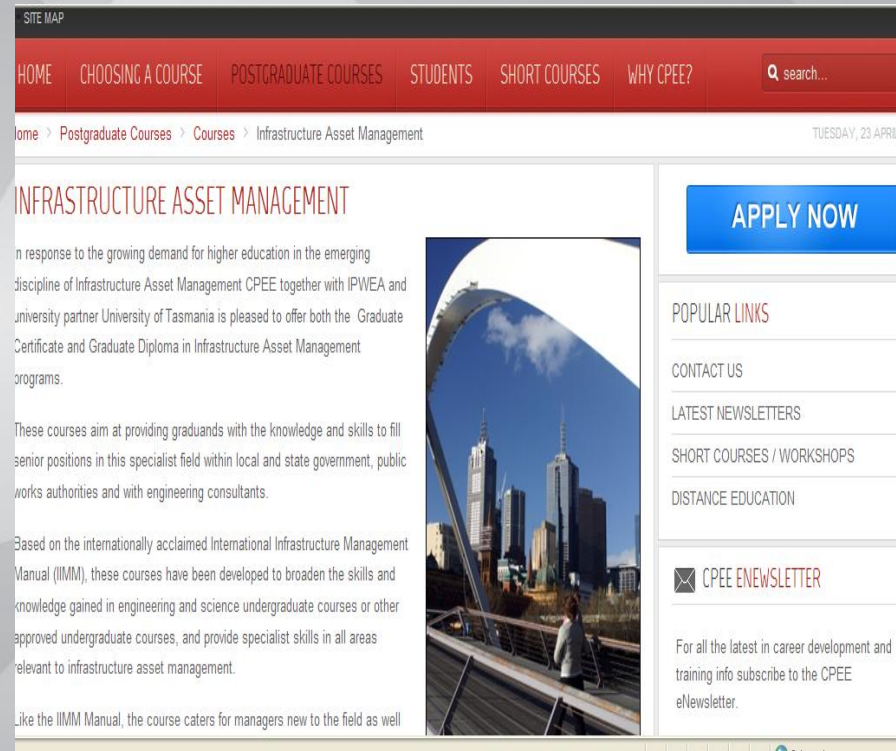
IIMM Section	ISO Clause																											
	4.1: Organisation and context	4.2: Understand stakeholders	4.3: Determine AM System Scope	4.4: AM System	5.1: Leadership and Commitment	5.2: Policy	5.3: Roles and Accountabilities	6.1: Risks and Opportunities	6.2.1: AM Objectives	6.2.2: Planning for AM Objectives	7.1: Resources	7.2: Competence	7.3: Awareness	7.4: Communication	7.5: Information Requirements	7.6.1: General	7.6.2: Creating and Updating	7.6.3: Control of Information	8.1: Operations Planning/ Control	8.2: Management of Change	8.3: Outsourcing	9.1: Monitoring and evaluation	9.2: Internal Audit	9.3: Management Review	10.1: Managing Nonconformity	10.2: Preventative action	10.3: Continual Improvement	
Section 1 Introduction to Infrastructure Asset Management																												
1.1.1 Infrastructure and Society																												
1.1.2 Benefits of Improved AM																												
1.1.3 Catalysts for Improved AM																												
1.1 Asset Management Drivers and Benefits																												
1.2 Defining Asset Management																												
1.2.1 Key Elements																												
1.2.2 Lifecycle AM Activities																												
1.2.3 Integrating AM Across the Organisation																												
1.3 The Asset Management Process																												
1.3.1 Understanding and Defining Requirements																												
1.3.2 Developing AM Lifecycle Strategies																												
1.3.3 AM Enablers																												
Section 2 Understanding and Defining Requirements																												
2.1 The Strategic Context and the Asset Management Policy																												
2.1.1 The AM Framework																												
2.1.2 Developing the AM Policy																												
2.1.3 Determining Appropriate Level of AM Practice																												
2.1.4 Understanding the External Environment																												
2.1.5 Understanding the Internal Environment																												
2.1.6 Understanding the Customer Perspective																												
2.2 Developing and Monitoring Levels of Service																												
2.2.1 Introduction																												
2.2.2 Developing Levels of Service																												
2.2.3 Developing Effective Performance Measures																												

APPENDIX B - Comparison Of Key Definitions Between ISO 55000 And The IIMM


ISO 55000 Definitions ³	IIMM Definitions
<p>ASSET item, thing or entity that has potential or actual value to an <i>organization</i> (3.1.14) Note 1 to entry: Value can be tangible or intangible, financial or non-financial, and includes consideration of <i>risks</i> (3.1.22) and liabilities. It can be positive or negative at different stages of the <i>asset life</i> (3.2.2). Note 2 to entry: Physical assets usually refer to equipment, inventory and properties owned by the organization. Physical assets are the opposite of intangible assets, which are non-physical assets such as leases, brands, digital assets, use rights, <u>licences</u>, intellectual property rights, reputation or agreements. Note 3 to entry: A grouping of assets referred to as an <i>asset system</i> (3.2.6) could also be considered as an asset.</p>	<p>ASSET An item that has potential value to an <u>organisation</u> such as plant, machinery, buildings, etc.</p>
<p>ASSET LIFE Period from asset (3.2.1) creation to asset end of life.</p>	<p>LIFE A measure of the anticipated life of an asset or component; such as time, number of cycles, distance intervals, etc.</p>
<p>ASSET MANAGEMENT coordinated activity of an <i>organization</i> (3.1.14) to realize value from <i>assets</i> (3.2.1) Note 1 to entry: Realization of value will normally involve a balancing of costs, <i>risks</i> (3.1.22), opportunities and <i>performance</i> (3.1.18) benefits. Note 2 to entry: Activity can also refer to the application of the elements of the <i>asset management system</i> (3.4.3). Note 3 to entry: to entry: The term “activity” has a broad meaning and can include, for example, the approach, the planning, the plans and their implementation.</p>	<p>ASSET MANAGEMENT (AM) The systematic and coordinated activities and practices of an <u>organisation</u> to optimally and sustainably deliver on its objectives through the cost-effective lifecycle management of assets.</p>

Professional Honours and Graduate Certificate in Infrastructure AM

- University Tasmania awarded qualifications
- All by distance education – web based.
- Additional Water Unit being offered




Global NAMS - gNAMS



IFME
FIIM

International Federation of Municipal Engineering
Fédération Internationale des Ingénieries Municipales

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Sharing
Municipal
Engineering
Knowledge
Worldwide

gNAMS: global Network of Asset Management Societies

A global network of asset management societies has been established under the auspices of IFME. gNAMS has a particular focus on municipal and public assets.

Purpose:

To provide an international forum for asset management and related technical societies with a focus on municipal and public infrastructure assets:

So - Really the Leaders in AM?

- Our website one of the best for Member interaction.
- User friendly tools and resources.
- Education and training opportunities in AM.
- Networking and collaboration
- Conferences and Study Tours
- National and International focus.
- Strong Consultant Supporter base.



You be the judge!
peter.way@ipwea.org