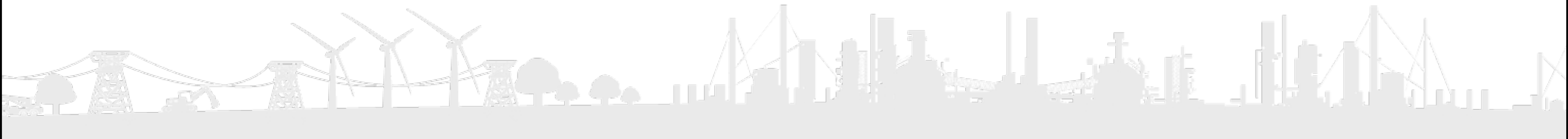


A solid orange vertical bar is positioned to the left of the title text.

ISO 55000: Local (SA) Certification Process, Timeline and Costs Concluding the ISO 55000 journey

Karl Nepgen | Asset Management Consultant



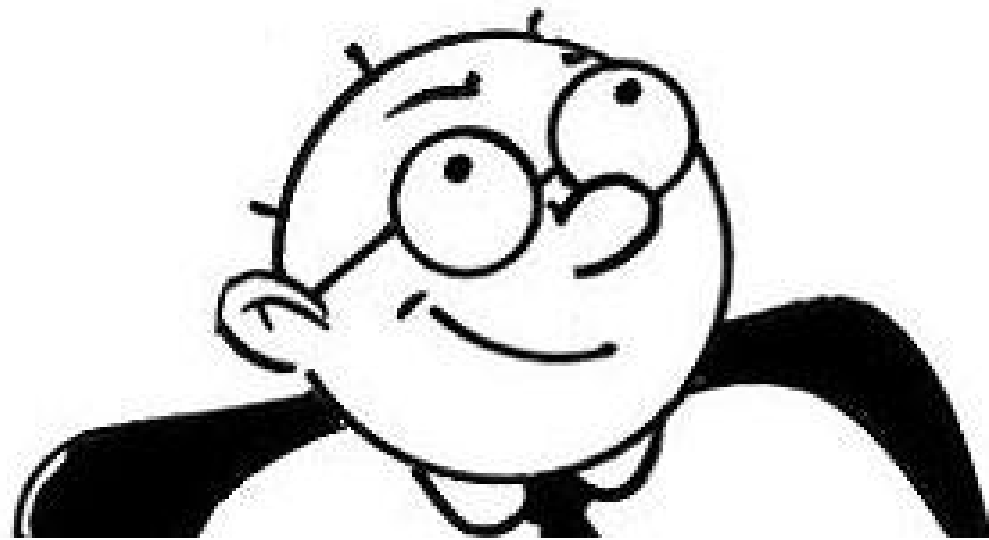
Picking up from Slide in Webinar 2 ...

Steps to Getting ISO 55001 Certified



- 1 Make a decision about your approach to ISO 55000
 - 2 Do an initial assessment (full Asset Management, not just ISO 55k)
 - 3 Develop an AM policy, strategy, objectives, performance measures and plans
 - 4 Design and implement the rest of the asset management system
 - 5 Implement AM best practices and collect records ("in use")
 - 6 Do pre-assessment based on ISO 55001 criteria and address shortcomings
 - 7 Get external ISO 55001 certification
-

MEANINGLESS JARGON
SPOKEN HERE



WE NEED SOME NEW JARGON,
THE PUBLIC ARE STARTING TO
UNDERSTAND WHAT WE'RE
TALKING ABOUT!



Definitions and Abbreviations

- **Accreditation:** provides formal recognition that an organisation meets certain standards of quality, performance, technical expertise and competence (to perform certification)
- **CAAB (Conformity Assessment Accreditation Bodies):** national organisations who perform accreditation of CAB's and CB's
- **CAB (Conformity Assessment Bodies):** organisation competent to perform assessments and issue certificates of conformance against specific standards
- **CB (Certification Body):** organisation performing the certification activity; they are therefore third-party conformity assessment bodies
- **Certification** (of management systems to an ISO standard): a third-party (independent) conformity assessment activity, resulting in an acceptable, credible certificate of conformance, which is a written assurance that the management system in question meets specific requirements
- **Conformity assessment:** the process to determine the extent to which an organisation conforms to prescribed requirements, in order to be certified

Definitions and Abbreviations

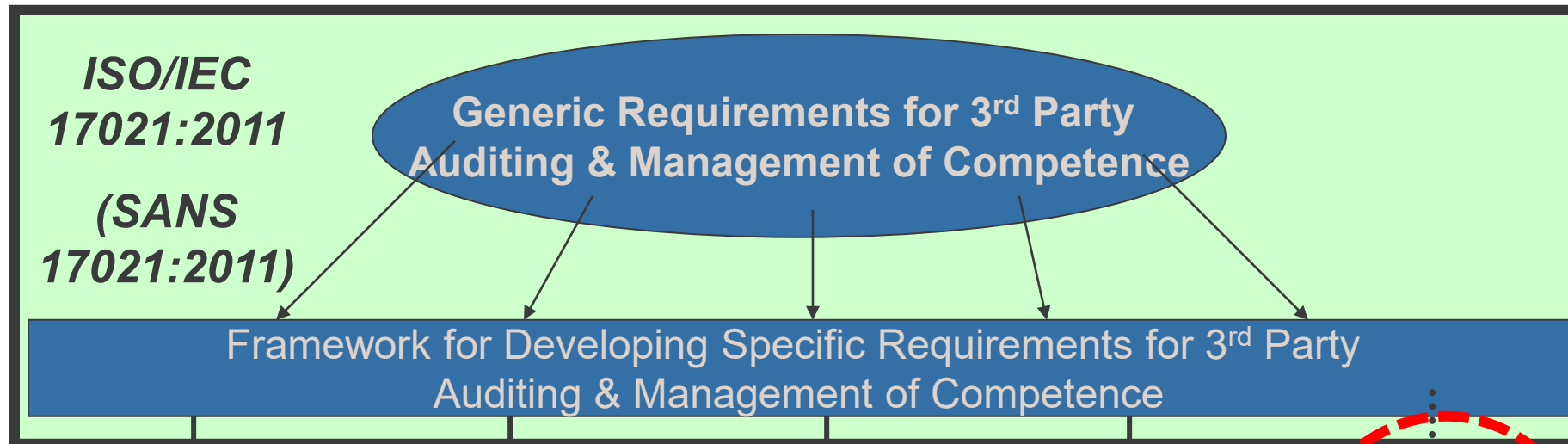
- **Certified client:** organization whose (AM) management system has been certified
- **CASCO:** the ISO committee that produces standards related to conformity assessment is called the Committee on Conformity Assessment (CASCO) .
- **IAF (International Accreditation Forum):** the world association of Conformity Assessment Accreditation Bodies (CAABs), with primary function to develop a single worldwide program of conformity assessment. IAF does not directly provided accreditation, certification or conformity assessment. Instead, its membership is open to (mostly national) bodies that conduct and administer programmes by which they in turn accredit CABs.
- **Management system consultancy:** the organisation specialising in designing, implementing or maintaining an (AM) management system
- **SANAS:** South African National Accreditation System, our local CAAB.

Accreditation Process

- Certification bodies (CBs or CABs) must comply with the requirements in the following international standards:
 - ISO/IEC 17021 Conformity Assessment: Requirements for bodies providing auditing and certification of management systems.
- For certifying against ISO 5500x, the additional requirements of the applicable technical specification (TS) document must be met
 - ISO/IEC TS 17021-5: Competence requirements for auditing and certification of **asset management** management systems.

This TS specifies additional competence requirements for personnel involved in the audit and certification process for Asset Management Systems (AMS) and complements the existing requirements of ISO/IEC 17021.

- Accreditation of CBs in South Africa performed by SANAS as the CAAB
- Accreditation is valid for three (3) years, subject to all accreditation requirements being maintained.



QMS Competent Body, e.g. ISO/TC176

QMS Specific Competence Requirements

EMS Competent Body, e.g. ISO/TC207

EMS Specific Competence Requirements

FSMS Competent Body, e.g. ISO/TC34

FSMS Specific Competence Requirements

ISMS Competent Body e.g. ISO/TC178

ISMS Specific Competence Requirements

AMS Competent Body

AMS Specific Competence Requirements

ISO/IEC TS 17021-5, Published April 2014 by ISO CASCO

Included in 17021 Part 2, developed by WG 21 with input from competent bodies

Developed by a competent body using the 17021 Part 2 framework, in consultation with CASCO, and published as separate sector documents

Background - IAF

Quoting from the IAF Multilateral Recognition Arrangement (MLA)

- Accreditation provides an assurance to government, business and the consumer that organisations providing certification to a standard have the required competence and impartiality to do so as evidenced by fulfilment of international standards and requirements. Accreditation helps to underpin the credibility and performance of goods and services.
- Accreditation bodies around the world, which have been evaluated by peers as competent, have signed an arrangement, the IAF Multilateral Recognition Arrangement (MLA), that enhances the acceptance of goods and services across national borders.
- The purpose of the MLA, is to ensure mutual recognition of accredited certification between signatories to the MLA, and subsequently acceptance of accredited certification in many markets based on one accreditation.
- Accreditations granted by IAF MLA signatories are recognised worldwide based on their equivalent accreditation programs, therefore reducing costs and adding value to business and consumers.



National Accreditation Bodies

South Africa

Economy: South Africa
Body: [South African National Accreditation System \(SANAS\)](#)
Contact: Mr. Mphho Phaloane
Acting CEO



South African National Accreditation System
Libertas Office Park
cnr Libertas and Highway street
Equestria, Pretoria
0184
South Africa

Telephone: +27 12 740 8501
Email: mphop@sanas.co.za
Website: <http://www.sanas.co.za>

Code of Conduct Adopted: 18 August 2004

IAF MLA

Main scopes

Product Certification - ISO/IEC 17065 - 09 Oct 2004
Management Systems Certification - ISO/IEC 17021-1

Sub scopes

Level 4

Product: GlobalG.A.P. IFA General Regulations - 22 May 2014
MS: ISO/TS 22003 - 14 Sep 2020
MS: ISO/IEC 17021-3 - 29 Oct 1998
MS: ISO/IEC 17021-2 - 09 Oct 2004
MS: ISO 50003 - 14 Sep 2020
MS: ISO/IEC TS 17021-10 - 14 Sep 2020

Level 5

Product: GlobalG.A.P. IFA CPCCs - 22 May 2014
MS: ISO 22000 (FSMS) - 14 Sep 2020
MS: ISO 9001 (QMS) - 29 Oct 1998
MS: ISO 14001 (EMS) - 09 Oct 2004
MS: ISO 50001 (EnMS) - 14 Sep 2020
MS: ISO 45001 (OH&SMS) - 14 Sep 2020

National Accreditation Bodies

Netherlands

Economy:

Netherlands

Body:

Dutch Accreditation Council (Raad Voor Accreditatie) (RvA)

Contact:

Mr. Ed Wieles



Dutch Accreditation Council
P.O. Box 2768
3500 GT UTRECHT
The Netherlands

Telephone: +31 30 2394531
Facsimile: +31 30 2394539
Email: ed.wieles@rva.nl
Website: <http://www.rva.nl>

Code of Conduct Adopted: 11 August 2004

IAF MLA

Main scopes

Product Certification - ISO/IEC 17065 - 09 Oct 2004
Management Systems Certification - ISO/IEC 17021-1
Certification of Persons - ISO/IEC 17024 - 20 Oct 2016
Validation and Verification - ISO 14065 - 11 May 2018

Sub scopes

Level 4

Product: GlobalG.A.P. IFA General Regulations - 22 May 2014
MS: ISO/TS 22003 - 05 Apr 2018
MS: ISO/TS 22003, FAMI-QS Rules for CBs - 04 Oct 2018
MS: ISO/IEC 17021-3 - 22 Jan 1998
MS: ISO/IEC 17021-2 - 09 Oct 2004
MS: ISO/IEC 27006 - 05 Apr 2018
MS: ISO 50003 - 05 Apr 2018
MS: ISO/IEC TS 17021-10 - 05 Feb 2020

Level 5

Product: GlobalG.A.P. IFA CPCCs - 22 May 2014
MS: ISO 22000 (FSMS) - 05 Apr 2018
MS: FAMI-QS Certification Scheme Code - 04 Oct 2018
MS: ISO 9001 (QMS) - 22 Jan 1998
MS: ISO 14001 (EMS) - 09 Oct 2004
MS: ISO/IEC 27001 (ISMS) - 05 Apr 2018
MS: ISO 13485 (MDMS) - 05 Apr 2018
MS: ISO 50001 (EnMS) - 05 Apr 2018
MS: ISO 45001 (OH&SMS) - 05 Feb 2020

National Accreditation Bodies

United Kingdom

Economy: **United Kingdom**
Body: **[United Kingdom Accreditation Service \(UKAS\)](#)**
Contact: **Mr. Rob Bettinson**
Divisional Director, Technical



United Kingdom Accreditation Service
2 Pine Trees
Chertsey Lane
Staines-upon-Thames
TW18 3HR
United Kingdom

Telephone: 44 (0) 1784 429000
Email: rob.bettinson@ukas.com
Website: <http://www.ukas.com>

Code of Conduct Adopted: 12 December 2003

IAF MLA

Main scopes

Product Certification - ISO/IEC 17065 - 09 Oct 2004
Management Systems Certification - ISO/IEC 17021-1
Certification of Persons - ISO/IEC 17024 - 20 Oct 2016
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Sub scopes

Level 4

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Product: GlobalG.A.P. IFA CPCCs - 22 May 2014
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MS: ISO 50001 (EnMS) - 05 Apr 2018
MS: ISO 45001 (OH&SMS) - 05 Feb 2020

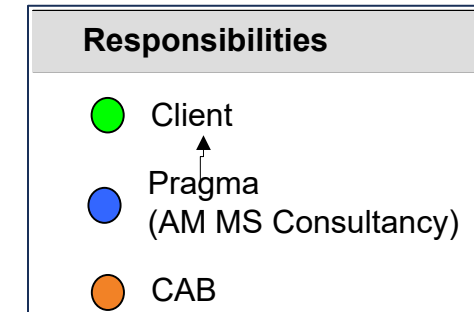
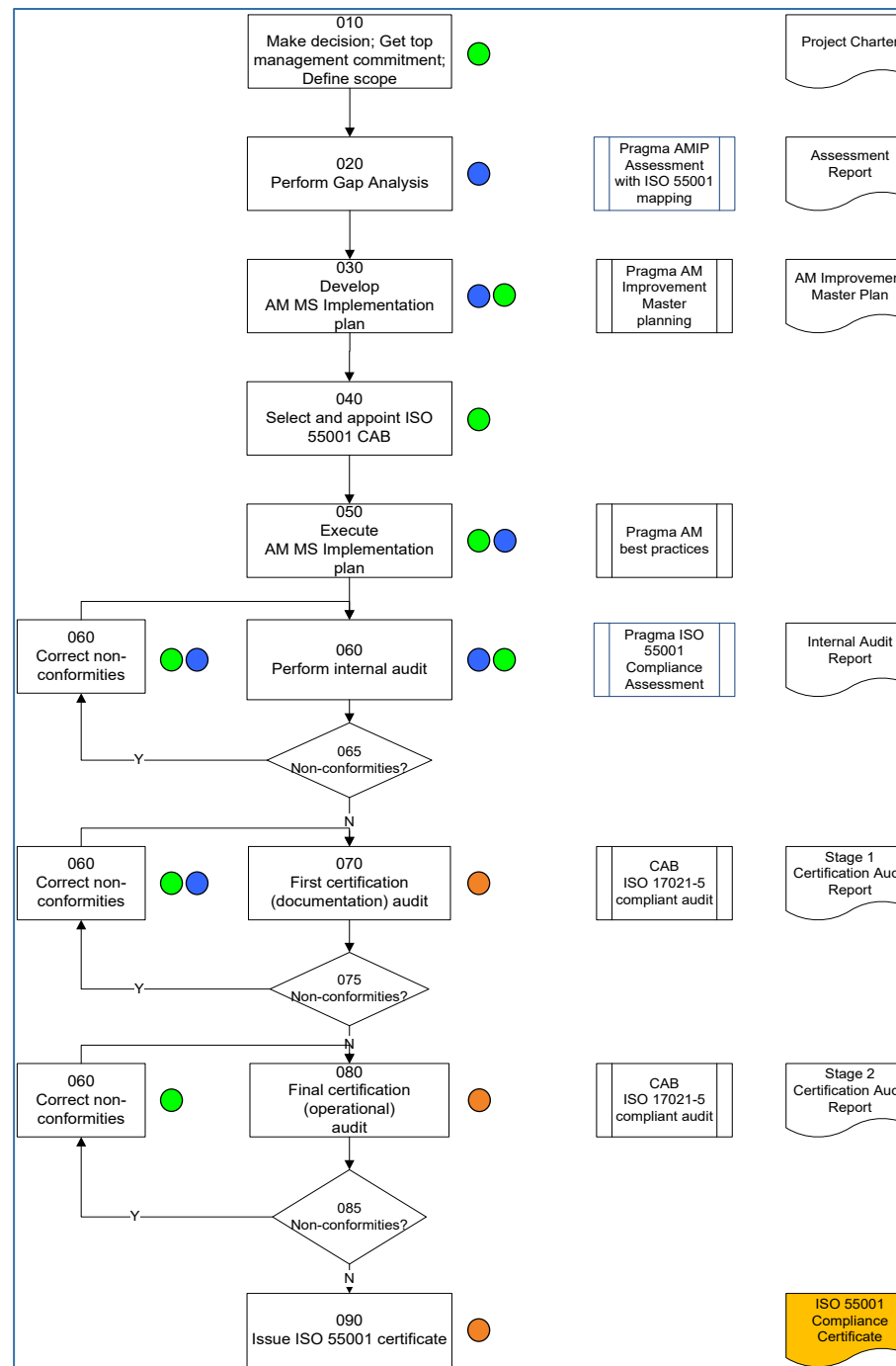
Certification Process

- Certification will take place against the requirements of ISO 55001 – not ISO 55000. However in order to interpret the (fairly broad) compliance statements contained within ISO 55001, it is essential for auditors and those being audited to also understand the contents of ISO 55000 and ISO 55002
- Conformity Assessment is the process that a client organisation must go through in order to for their management systems to be certified as complying with the requirements of any of the ISO Management standards (including ISO 55001 - Asset Management).
- Formal certificates of conformance can only be issued by an accredited Conformity Assessment Body (CAB). If you require a formal, recognised certificate of conformance, ensure that you select a CAB that is properly authorised by its CAAB to deliver a compliance assessment against the requirements of ISO 55001.

Certification Process

- There are a growing number CABs that have been certified by their CAAB to deliver this service. Some examples may be found at major CAAB websites, such as
 - UKAS: 9 CAB's, e.g. BSI, DNV GL Business Assurance UK Ltd, SGS United Kingdom Ltd
 - RVA: E.g Kiwa Nederland B.V
 - SANAS: None
- If your organisation is already certified against other Management Systems schemes (Quality Management (ISO 9001), Environmental Management (ISO 14001), Safety Management (ISO 45001/OHSAS 18001), etc), you may wish to consider synergies in having all of these assessments done at the same time, by the same CAB – or whether there is value in engaging specialist CABs with the necessary experience to assess some, or all, of these systems separately.

ISO MS implementation and certification process flow schematic



High-level Project Plan

Activity/Deliverable	M 0	M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10	M 11	M 12	M 13	M 14	M 15	M 16
Award; Mobilisation																	
4.1 Scope AM System; Customise AM Framework																	
4.2.1 Gap assessment of current AM system, processes - Site #1																	
4.2.2 Gap assessment of current AM system, processes - Site #2																	
4.3.1 ISO 55000 Establishment plan preparation - Site #1																	
4.3.2 ISO 55000 Establishment plan preparation - Site #2																	
4.4.1 Execute plan to establish the ISO 55000 system - Site #1																	
4.4.2 Execute plan to establish the ISO 55000 system - Site #2																	
4.5 Review and Develop all required documentation for conformance to ISO 55001 requirements																	
4.6 Training and Development																	
4.7 Plan and conduct full cycle of pre-certification audit																	
4.8 Appoint a CAB to audit and certify the Site #1 and Site #2																	
5.1 Programme and Project Management																	

Activity by/responsibility of Client	
Activity by Pragma	
Activity by Client & Pragma jointly	
Activity by CAB	
Annual holiday break	

High-level Project Cost Estimate

Activity/Deliverable	Amount
4.1 Scope AM System; Customise AM Framework	R 150 000
4.2 Gap assessment of current AM system, processes - 2x sites	R 400 000
4.3 ISO 55000 Establishment plan preparation - 2x sites	R 200 000
4.4 Execute plan to establish the ISO 55000 system - 2x sites	R 700 000
4.5 Review, develop all required documentation for conformance to ISO 55001 requirements	R 400 000
4.6 Training and Development	R 300 000
4.7 Plan and conduct full cycle of pre-certification audit	R 150 000
4.8 Appoint a CAB to audit and certify the sites	R 400 000
4.9 Programme and Project Management	R 300 000
TOTAL	R 3 000 000

High-level CAB Cost Estimate

Description	Quantity	Average Unit Price	Price (ZAR)
ISO 55001 - Initial - Annual management fee	1	6 500	6 500
ISO 55001 - Initial - Application fee	1	500	500
ISO 55001 - Initial - Stage 1 - Assessment visit	2	24 000	48 000
ISO 55001 - Initial - Stage 2 - Assessment visit	10	24 000	240 000
TOTAL			295 000

Where is ISO 55000 in use?



Oil and Gas



Mining and Minerals



Manufacturing



Retail/Facilities

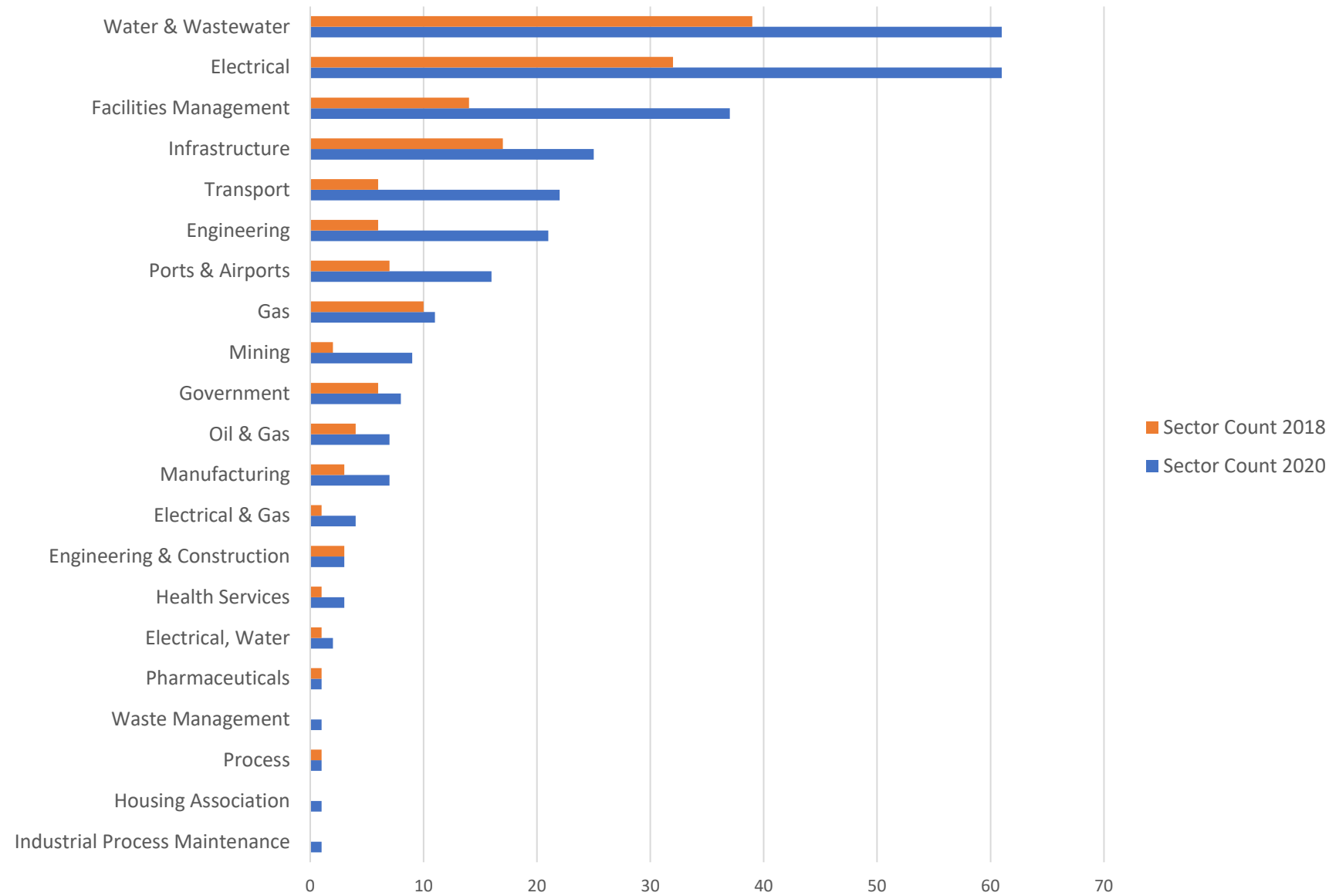


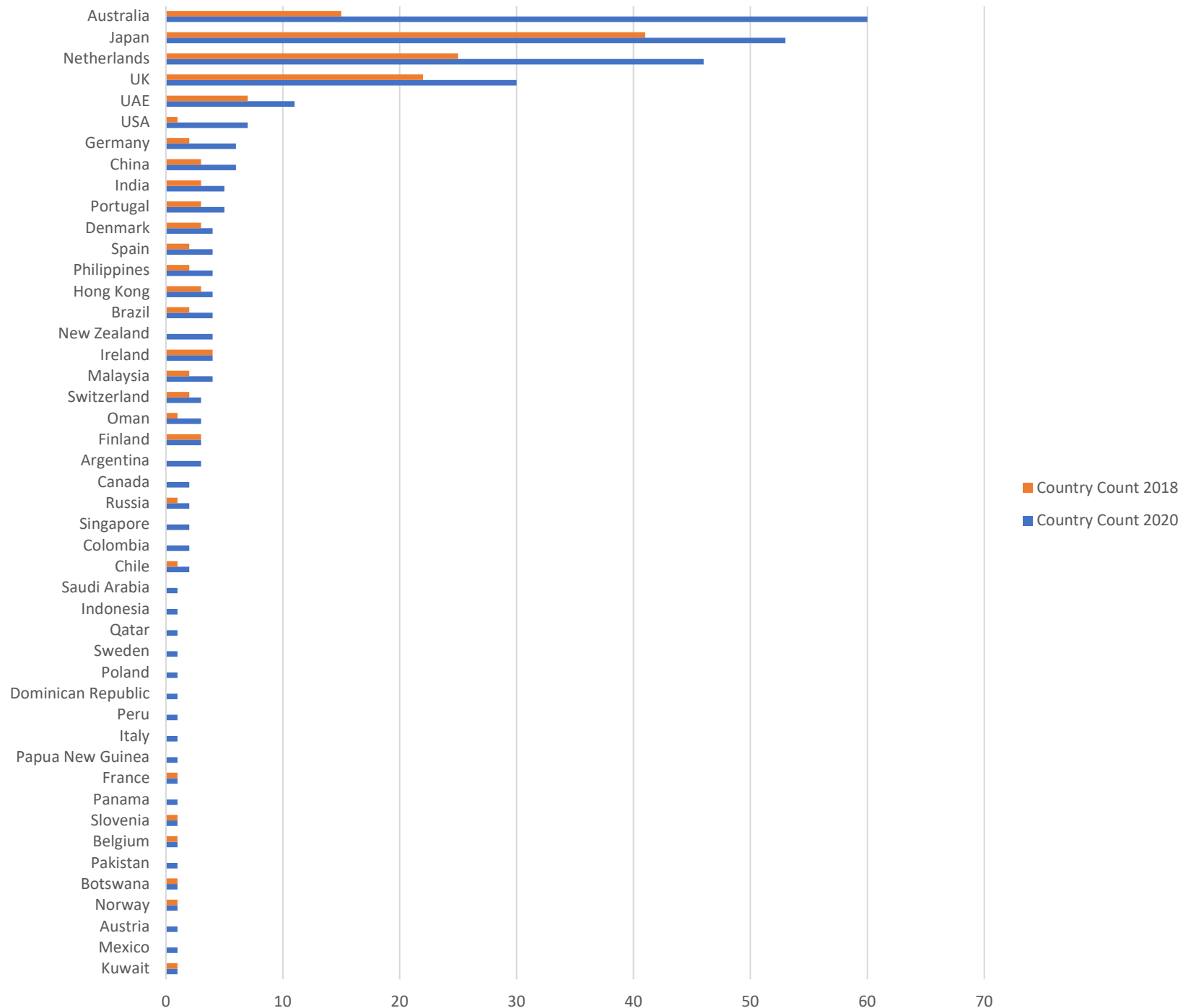
Utilities (Electrical, Water)



Government

Who is certified to ISO 55001?







Thank you



www.pragmaworld.net



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Facebook



Twitter

Karl Nepgen

karl.nepgen@pragmaworld.net

