

Experience with GFMAM & SAAMA Document Updates

# BIM CODE·SA

COvention for a Digital South Africa

Laying the foundation for the digital transformation  
of South Africa's built environment



# Background to Review & updating of the GFMAM AM Landscape

1. 17 members recruited.
2. Where requested, letters requesting participation in the project were sent to employers.
3. Subject area leads and deputy leads assigned, members allocated to the seven subject area working groups and communicated to the Project 24 Steerco.
4. 2 induction sessions held, the latest on 04 November 2022. This was well attended and minutes distributed afterward.
5. Need to create a secure SharePoint type facility for data storage and dissemination.
6. ISO 55000 series of standards to be procured.
7. The detailed working programme, document template and other protocols will be established by the Project 24 Steerco between 25 – 30 November 2022.
8. The next RSA working group session will be held on 05 December 2022, following detailed guidance from Steerco.

# Project 24: Review & updating of the GFMAM AM Landscape

Team	Subject Area 1: Context & Stakeholders	Subject Area 2: AM Planning	Subject Area 3: Leadership & People	Subject Area 4: Information	Subject Area 5: Delivery	Subject Area 6: Governance	Subject Area 7: Value Realization
<b>Steerco</b>	Dave Daines (AMC), John Hardwick (AMC), Louis Boshoff (SAAMA), J Lafraia (ABRAMAN), Naoki Takesue (JAAM), Susan Lubell (PEMAC), Michel Phillippe (BEMAC), Richard Edwards (IAM), Paul Casto (SMRP)						
<b>International lead</b>	Nigel D'Souza (PEMAC)	AMC	Nomaphelo Ndzundzu (SAAMA)	TBA	SMRP	TBA	Brian Addison (IAM)
<b>Deputy int. lead</b>	Richard Edwards (IAM)	Louis Boshoff (SAAMA)	J Lafraia (ABRAMAN)	Paul Casto (SMRP)	Susan Lubell (PEMAC)	John Hardwick (AMC)	Naoki Takesue (JAAM)
<b>RSA Lead</b>	Louis Boshoff						
<b>Project Manager</b>	Werner Welgemoed	Caroline v Heerden	Nomaphelo Ndzundzu	Dr Chris von Holdt	Maretha Price	Heleen Olivier	Joe Paradza
<b>Deputy PM</b>	Valentine Mananzva	Johan Janse v Rensburg	Maretha Price	Erina Otto	Coert Scherman	Johan Janse v Rensburg	Gracious Ngwenya
<b>Team member(s)</b>	Joe Paradza	Werner Welgemoed	Johan Janse v Rensburg	Mfanasibili Nkonyane	Maretha Price	Maretha Price	Logan Reddy
		Erina Otto	Heleen Olivier	Stewart Russel	Mfanasibili Nkonyane		
		Valentine Mananzva		Nomaphelo Ndzundzu	Princess Thobekle Dlamini		
		Dr Chris von Holdt		Coert Scherman			
				Gracious Ngwenya			
				Caroline v Heerden			



# Proposal for SANS 19650 Annex (SA)



Striving towards Asset Management **Excellence**

# (Proposal draft) SANS 19650 Annex: Review and Update Enablers

- A structured document review and update approach will allow a considered and methodical development of the SANS 19650 Annex
  - The 'seed' document – draft Annex from CIDB
  - SABS – guidance for writing of standards (upfront Alignment/Induction workshop) and support on technical writing quality checks of the final document draft;
  - A document collaboration and control platform (Sharepoint?) – access control, record of inputs, traceability of changes from 'seed' to Annex final draft;
- Who leads and provides direction for the annex development (schedule, objectives and ultimate accountability)
  - Selection of capable, available and committed project leads for each section, ideally with a backup section project lead (proposed detailed sample follows);
  - Develop support teams for each section under the lead of each section Project Lead;
  - Appoint the members formally to assist confirm the support and commitment to the initiative.
  - How would the document be unpacked into sections that can assist allocate and assign responsibilities?

# (Proposal draft) SANS 19650 Annex: Project Team Capability & Capacity (1/3)

## 1. Core Knowledge Attributes (Standards, Principles, and Concepts)

Team members should collectively demonstrate deep and applied knowledge across the following areas:

### 1.1 Building Information Management (BIM) Standards

- *In-depth knowledge of the ISO 19650 series, particularly:*
- *Understanding of information containers, information delivery planning, common data environments (CDEs), and asset information models (AIMs).*

### 1.2 Asset Management and Asset Creation Frameworks

- *requirements supporting cost-risk-performance decisions. Strong understanding of ISO 55000 principles*
- *Translating organisational objectives into asset information requirements across the asset lifecycle*
- *Familiarity with Strategic Asset Management Planning (SAMP) and information*

### 1.3 Information Quality, Governance, and Risk

- *Knowledge of data quality, configuration control, and information governance concepts relevant to asset information*
- *Understanding of assurance, auditability, and traceability requirements for regulated and safety-critical infrastructure environments.*

## 2. Related Experience in Asset Information Management

Team members should have hands-on experience applying these principles, not merely theoretical familiarity.

### 2.1 Asset Information Requirements Definition

- *Experience defining and validating:*
- *Practical exposure to deciding what information is necessary, when, and to what level of detail, avoiding over-specification.*

### 2.2 Information Flow Across the Asset Lifecycle

- *Demonstrated experience managing information handovers from:*
- *Understanding of how poor information decisions at creation stage increase lifecycle cost and operational risk.*

### 2.3 Integration with Enterprise Asset Management Systems

- *Experience linking BIM/asset information outputs with:*
- *Appreciation of constraints posed by legacy systems often present in South African asset-owning organisations.*

# (Proposal draft) SANS 19650 Annex: Project Team Capability & Capacity (2/3)

## 3. Experience with Standards Review and Updates

Because the task is an Annex update, not a greenfield standard, specific experience in standards work is essential.

### 3.1 Standards Interpretation and Localisation

- Proven ability to interpret international ISO requirements and contextualize them for South African application, including alignment with SANS adoptions and regulatory expectations.
- Experience resolving ambiguities between international best practice and local contractual, legal, or organisational realities.

### 3.2 Participation in Standards Committees or Governance Structures

- Prior involvement in:
- Ability to draft normative vs informative Annex content, understanding implications for enforcement and compliance.

### 3.3 Change Impact Assessment

- Experience assessing how proposed Annex updates affect:
  - existing contracts and procurement models,
  - current information systems and workflows,
  - organisational capability and maturity.
- Ability to balance ambition with implementability.

## 4. Operational and Practical Implementation Experience (South African Context)

This is critical to ensuring the Annex supports real execution rather than ideal-state theory.

### 4.1 Operational Asset Experience

- Direct experience working in or closely with operations, maintenance, engineering, or asset performance teams;
- regulated, safety-critical, or long-life infrastructure environments.
- Understanding of how asset information is actually consumed by technicians, engineers, planners, and managers.

### 4.2 South African Industry and Regulatory Awareness

- Familiarity with:
  - local procurement practices,
  - public-sector and SOE governance models,
  - skills availability, contractor capability, and digital maturity levels typical in South Africa.
- Awareness of compliance pressures, audit expectations, and resource constraints influencing implementation success.

### 4.3 Implementation Pragmatism

- Ability to distinguish between:
  - “minimum viable compliance” and
  - “good practice maturity uplift”.
- Track record of simplifying complex requirements into clear, implementable guidance supported by examples and templates.

## 5. Personal and Team-Level Attributes

In addition to technical competence, effective Annex review could require:

- **Project communication strategy** (what, when, who...)
- Systems-thinking mindset (lifecycle, interfaces, dependencies).
- Credibility with both project delivery and operations/asset management communities - regular review by 'test' advisors (not directly on project but a credible and professional sounding board)
- Strong written communication skills for drafting precise, unambiguous standard text.
- **Facilitation and negotiation skills** (or rules of engagement) to resolve competing stakeholder priorities without diluting intent.
- Professional integrity and respect for the role of standards as governance instruments.
- Broader team support –Time, commitment and capacity to contribute to the project

# (Proposal draft) SANS 19650 Annex: Reviewing and update Structure

Team	Subject Area #1: TBC	Subject Area #2: TBC	Subject Area #3: TBC	Subject Area #4: TBC	Subject Area #5: TBC	Subject Area #6: TBC	Subject Area #7: TBC
<b>Steerco</b>	CIDB (Name); BCA (Name); SAFMA (Name); SAAMA (Name); HEFMA (Name); other key stakeholders/contributors						
<b>National Lead</b>	CIDB (Ishmail Cassiem)						
<b>Project Manager</b>							
<b>Deputy PM</b>							
<b>Team member(s)</b>							
<b>Advisory Support</b>							