



DiAM

DATA IN ASSET MANAGEMENT

FOR INTERNAL DISCUSSION

ASSET MANAGEMENT COUNCIL

ASSET DATA MANAGEMENT SYSTEM

Feb 2019

Data has become one of our most critical assets

To realise more value from our assets, timely and accurate decisions are needed that require the right data surfaced on the right platform to the right audience. There is a collective agreement that the quality of asset data is generally poor and improvements to manage 'data as an asset' using management system processes is needed to enable asset value realisation.

Asset data and management of asset data is:

- Digital representation of the physical and functional characteristics of our assets (EAMS, GIS, BIM etc.)
- Consistent collaborative process for creation, management and delivery of project data and asset data
- Standards for common, structured data for enabling interoperability with systems
- Sharing and access of data across the 'Whole Life Cycle' to the right people
- Underpinning technologies that allow data capture, access and analysis of asset data
- Data quality KPIs and review for criticality, accuracy, precision, completeness and consistency

Asset information is a combination of data about physical assets used to improve problem solving and inform decisions about how assets are managed both for short term operational purposes and for long term strategic planning.

Asset Data Management System Model

The Asset Data Management System provides a conceptual view of the flow of asset data specification, creation and management surrounded by top down strategy and bottom up enablers.

Asset data capability scope:

The environment in which the asset data system operates; its limits, constraints and requirements.

Strategy and planning of asset data:

The context of the organisation defines use and frequency of long term static data through to high turn over dynamic data . The data strategy creates a two way link between the needs of the organisation and the data types which support business decisions.

Asset data life cycle:

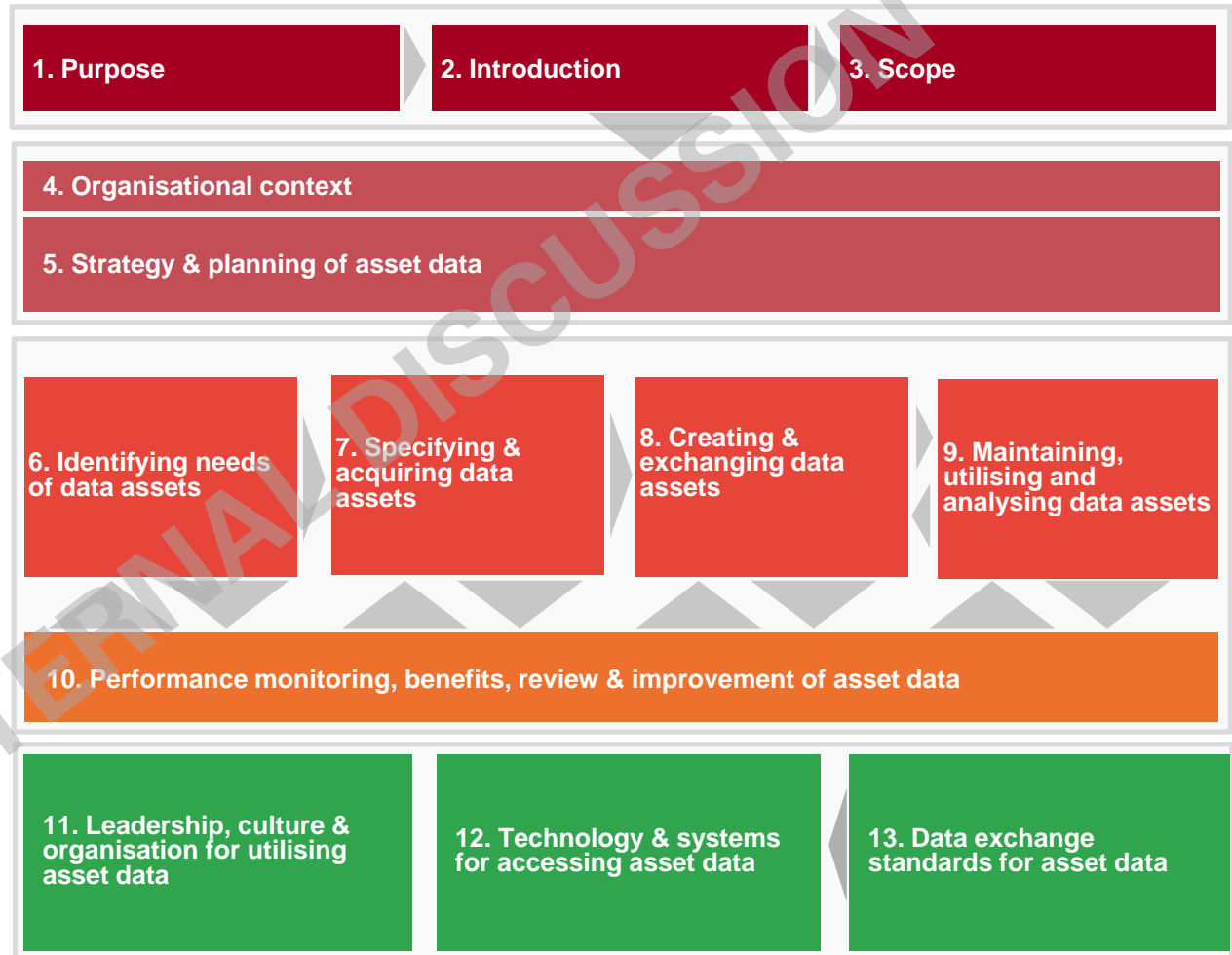
Treating data as an asset requires planning across its life cycle. This includes the data requirements, traceability of data sources, optimising the contractual procurement, initial and ongoing collection of data, iterative improvement or modification, determination of data redundancy, archival and feedback of lessons learnt to the information management lifecycle.

Review and improvement of asset data:

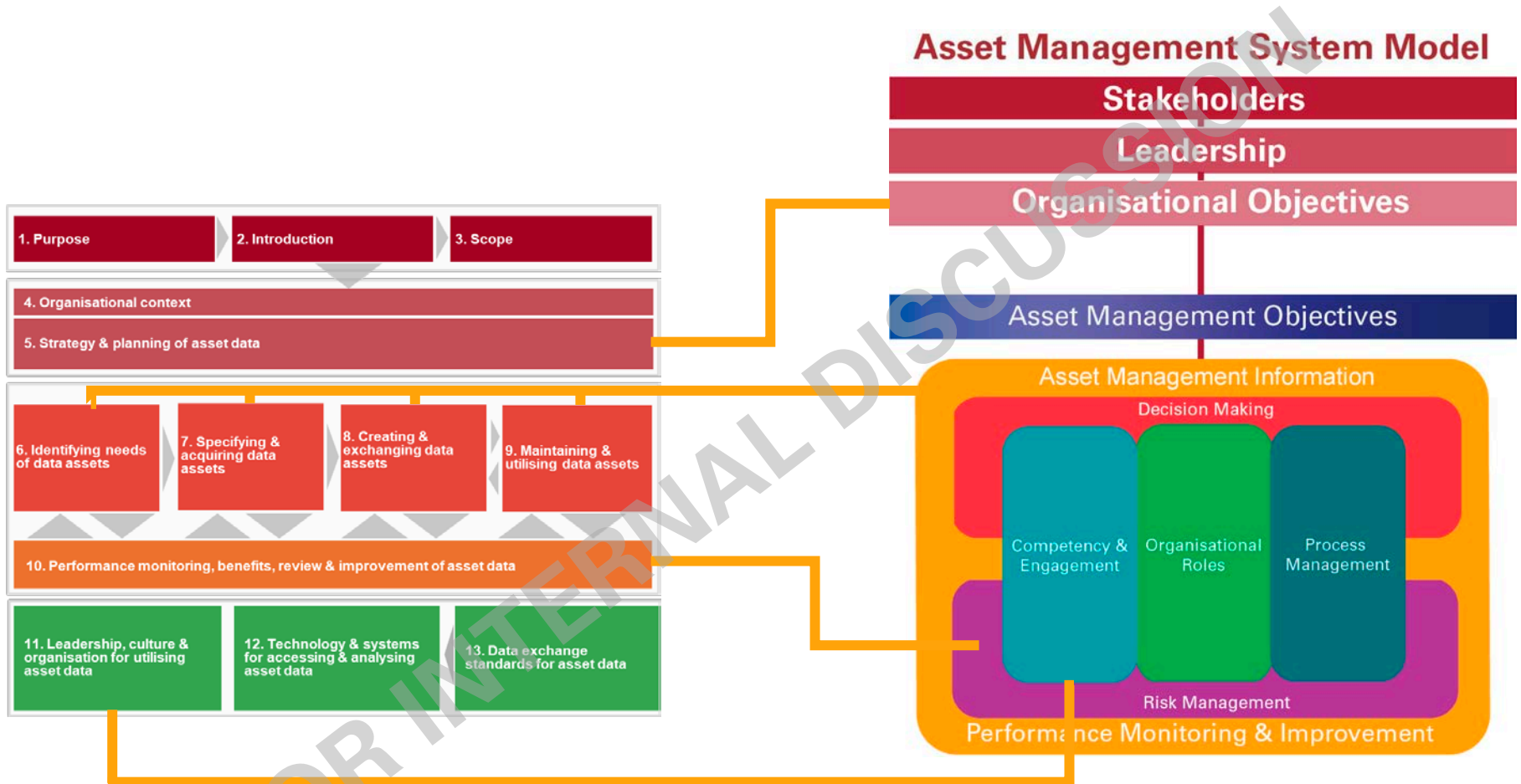
Monitoring and review of asset data system to ensure performance, benefits realisation and address non-conformances.

Asset data enablers:

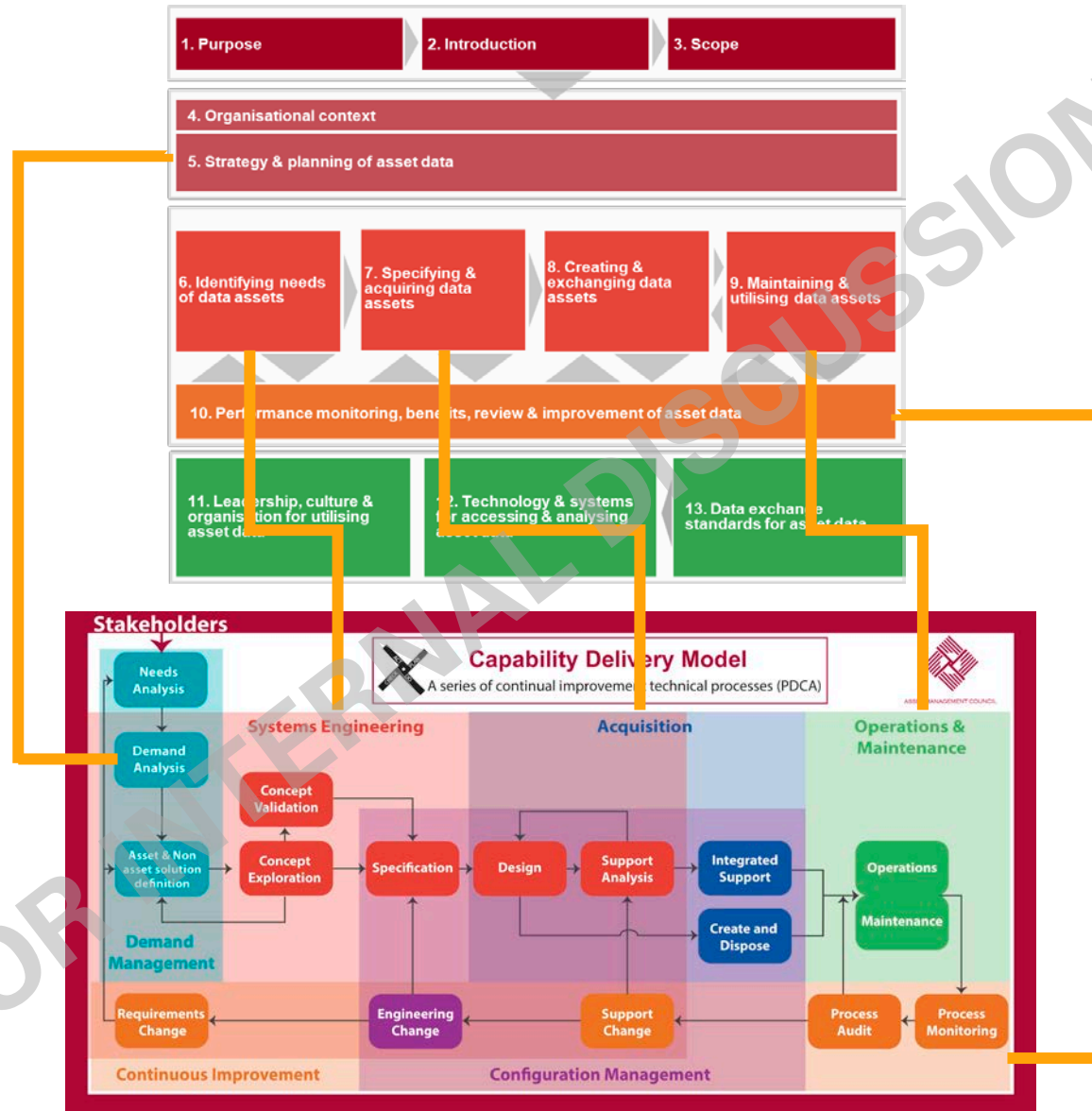
Data consumers, people, represent the knowledge and experience to realise value from decision made with asset data and the skills to collect data and convert it into information. Technology represents the ability to store and surface data to users. Data standards are the binding link across the asset data life cycle to ensure consistency and repeatability.



Alignment to the AMC Asset Management System Model



Alignment to the AMC Capability Delivery Model



AMC Data SIG's request to you

1. Feedback on the Asset Data Management System Model

- Is it missing anything?
- Does the language resonate?
- Did it result in expanding your understanding of asset data management?

2. Call for capability leads

- Are you interested in leading development of guidance content for a capability area?
- Are you interested in supporting or reviewing development?

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