



ASSET MANAGEMENT COUNCIL

Management of Physical Assets - Concepts to Reality

Presenter: Ernst Krauss, Director, Asset Management Council

Managing Assets is about...



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- Managing technical complexity
- Building and maintaining relationships
- Staying in control of Assets over their life cycle
- Understanding and managing Interfaces between various interest groups
- Identifying and managing Risk
- Effective development and implementation of processes supporting the Asset Life Cycle
- Delivery of business outcomes over the Life Cycle

Some Key Issues



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- How does an Asset Management Process cater for differing industries, differing needs and asset types
- Integration with ISO Management system requirements
- Scope of Asset Management System:
 - Risk and safety
 - Sustainability
 - AM processes
 - AM information and data
- Terminology to be used for AM

Asset Management is -

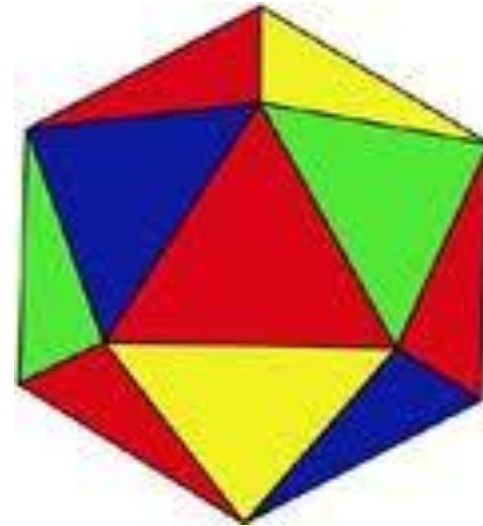


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A multidisciplinary process

In need of clarity of purpose and direction in each of its various segments and elements

A multifaceted and holistic undertaking requiring clear definitions and language across all interfaces

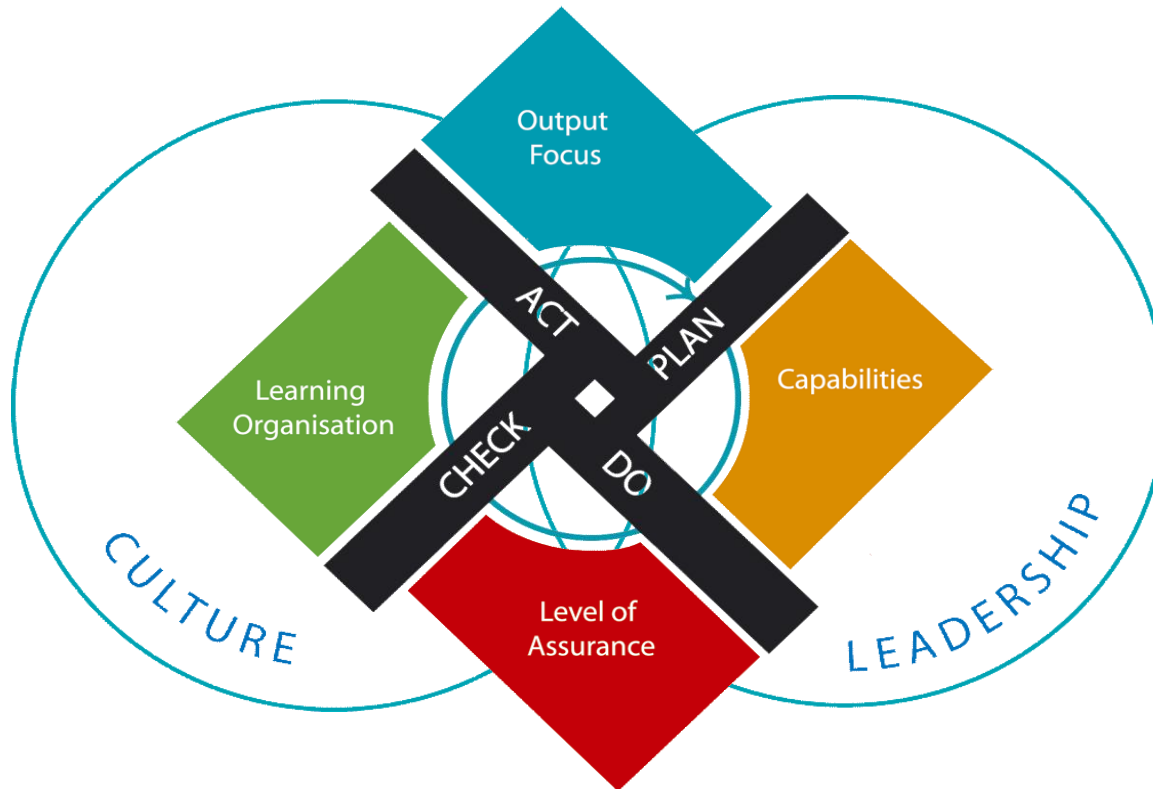


Visualising Asset Management



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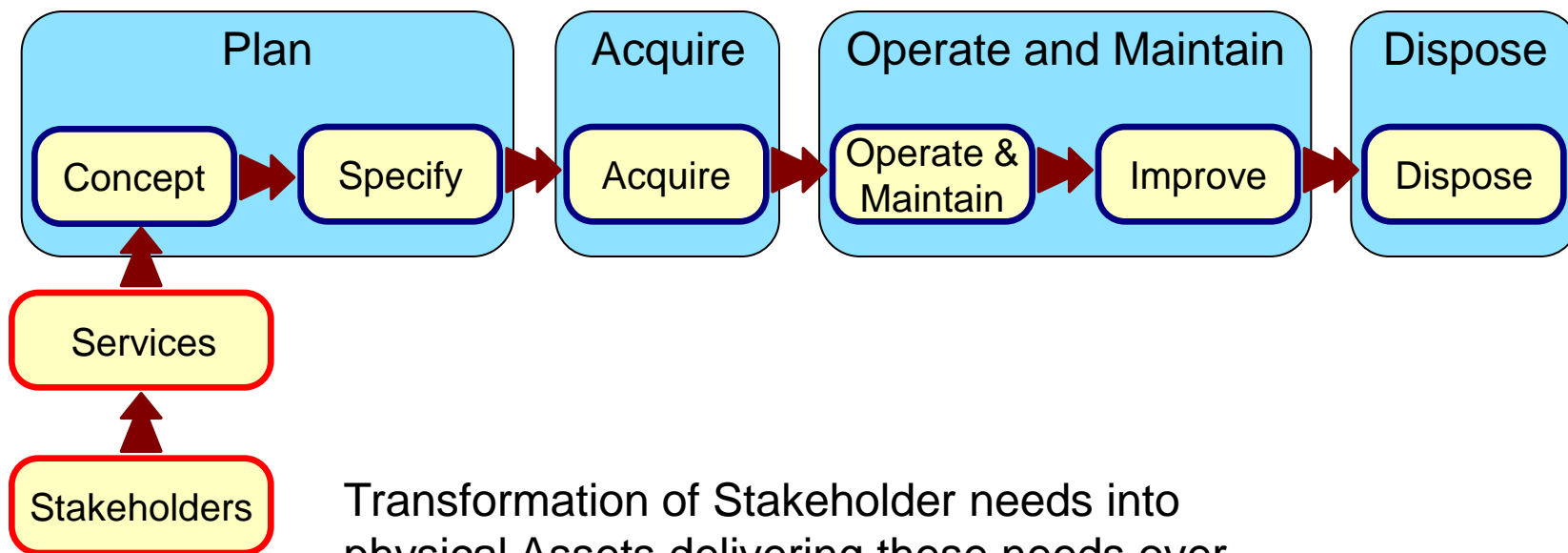
- Asset management is about managing capability and achieving stated outcomes





Visualising Asset Management

- Asset management is concerned with managing technology over the Asset Lifecycle



Transformation of Stakeholder needs into physical Assets delivering these needs over a defined period of time

Standardisation in Asset Management?



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Variety of existing Standards dealing with elements of Asset Management

Vastly differing types of Assets, Asset purposes(?), Services and outcomes

A number of new Standards are under development, expanding on existing ones

ISO 15288

Military Standards

ISO 55000/55001/55002

Delivering stated outcomes

Alignment of purpose

Coordination of functions

Structured Learning

Unified Performance Measurements

Consistency in Decision making

Repeatable Asset performance

Varying Life Cycles

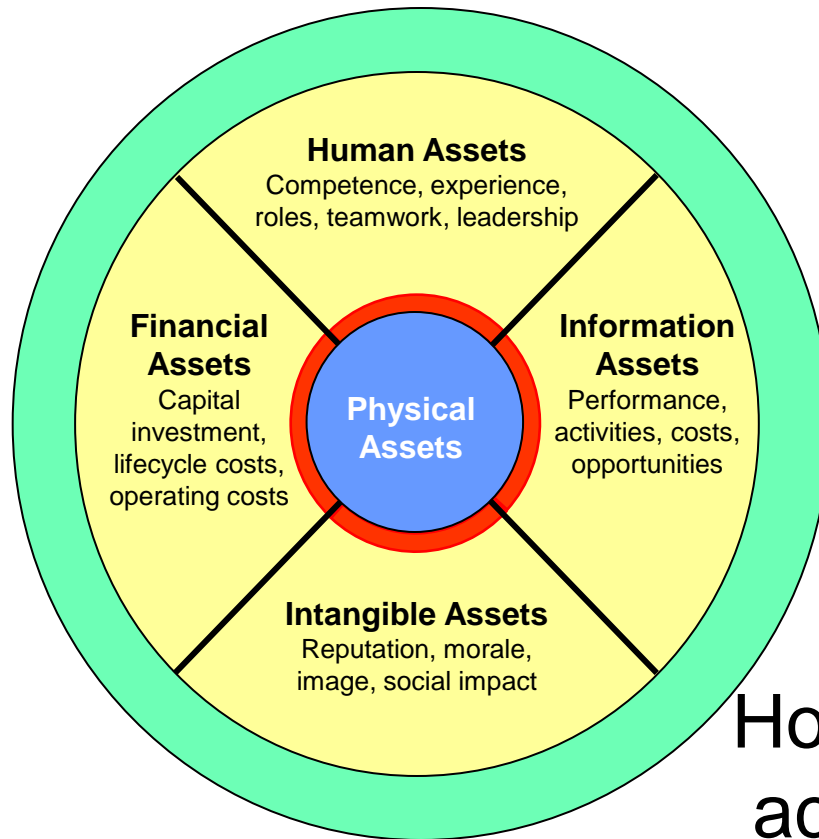
Cross Organisational understanding

Asset types to be managed



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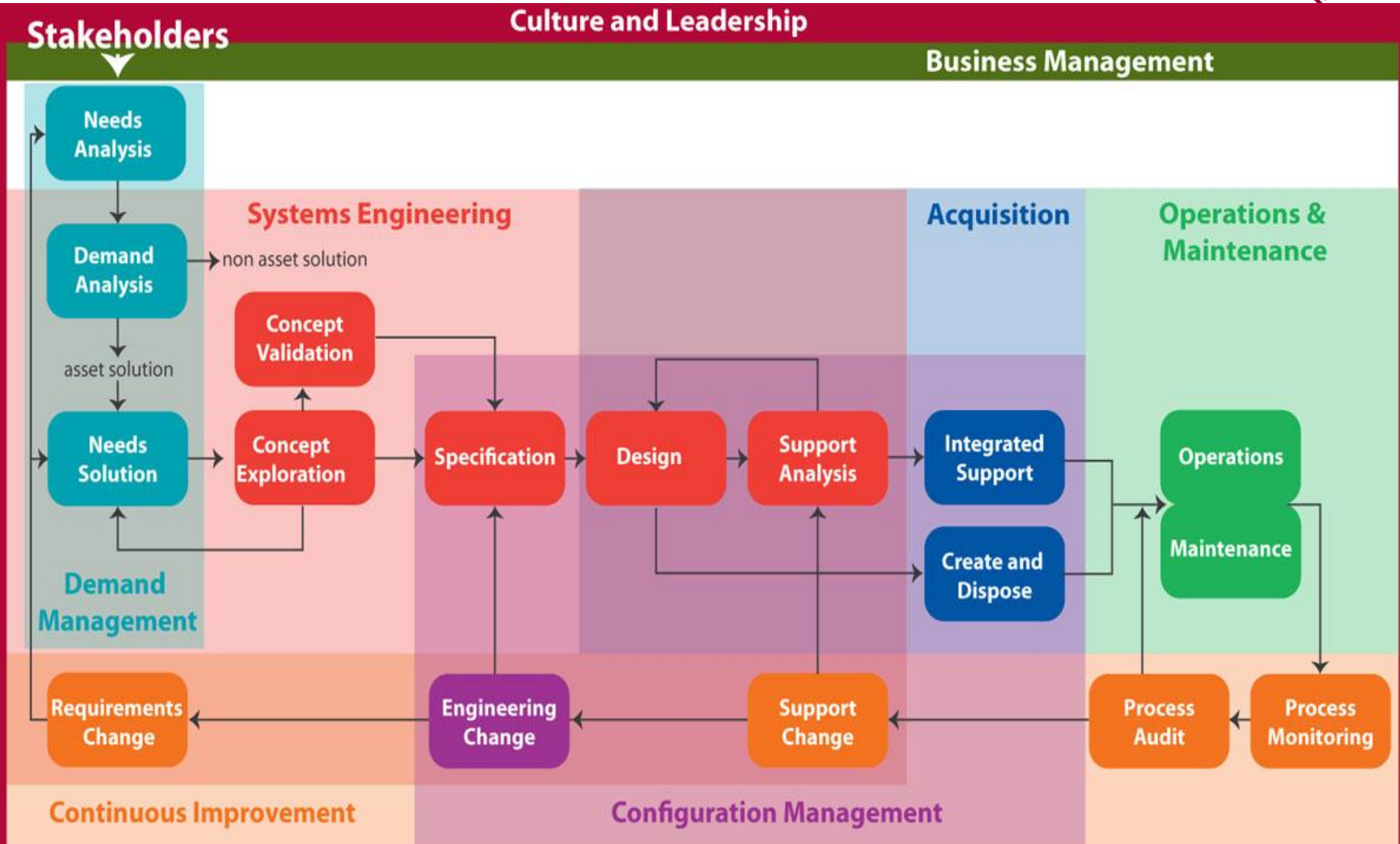
Currently PAS 55 provides a model and guidance:



Each type of Asset uses it's own language to carry out the tasks they need to achieve to support the outcomes – the business objectives

How / what to communicate across the boundaries?

Asset Management Delivery Model



Asset Management System

Characteristics

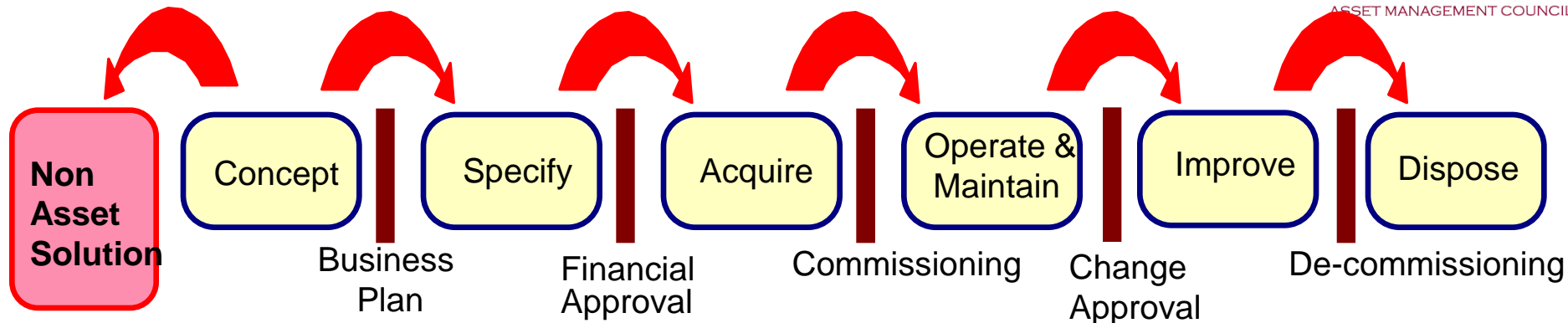


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- Process Capability:
 - Risk
 - Environment
 - Asset Life Cycle processes:
 - Demand management
 - Systems Engineering
 - Support Analysis
 - Integrated Support
 - Configuration Management
 - Operations and maintenance management
 - Continuous Improvement
- Level of Assurance
 - In Control
 - Exercising Control
- Safety
 - Codes of practice
 - Good people
 - Safety Case/Argument
- Financials
 - Cash accounting
 - Deterministic
 - Accrual accounting
 - Probabilistic
- Regulatory Framework
 - Executive
 - Financial
 - Technical



Importance of understanding



...requires managing risk across all boundaries and during the full life cycle



Asset solutions that aren't needed



Specified asset needs / technical attributes



Do not get what was asked for



Do not achieve our needs and expectations



Difficult to operate, maintain, improve or change



Get unexpected surprise at disposal

How to support Asset Management...



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- Standardisation of Processes
- Common understanding of Elements and their purpose
- Alignment of language – a global issue
- Commonality of understanding and interpretation of requirements, specifications, methods
- A common data model for how assets, their failures, failure characteristics, risks are documented
- Your thoughts on the topic please



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Thank you for your attention
and interest