

Asset Management Systems & PAS 55

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Utilities Manager

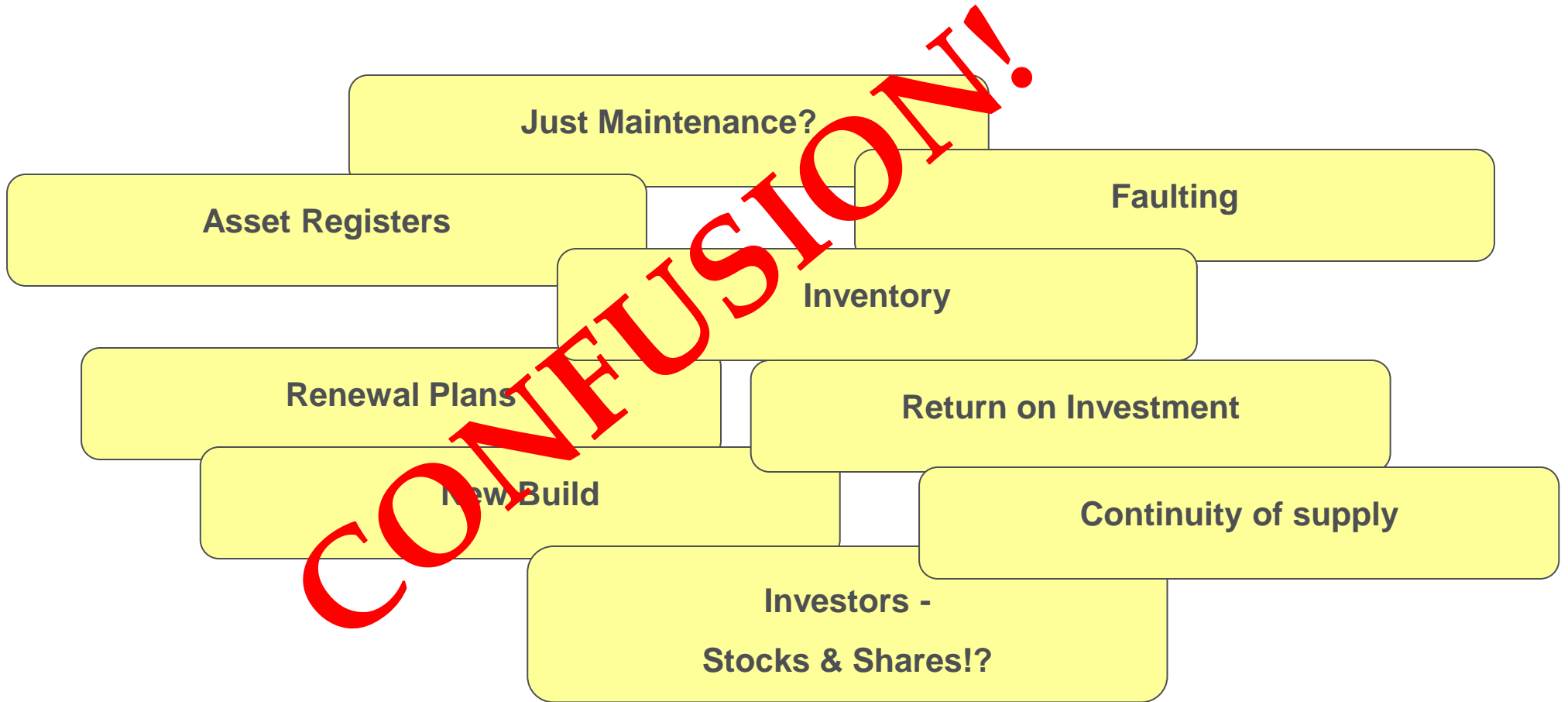
Lloyd's Register Energy

About Lloyd's Register

- Founded in 1760
- Global independent risk management and safety assurance organisation
- Our objective is to enhance the safety of life and property
- Initiated and acted as principal sponsor of PAS 55 development and project managed the development process



Asset Management?



Background

Issues:

- Differing approaches
- High visibility - especially in Utilities and Rail
- Major infrastructure incidents: Texas City more recently BP Deepwater Horizon, Fukushima etc

Questions:

- How to demonstrate effective asset management?
- What is effective asset management?

Way Forward?

- Some form of standard was clearly required

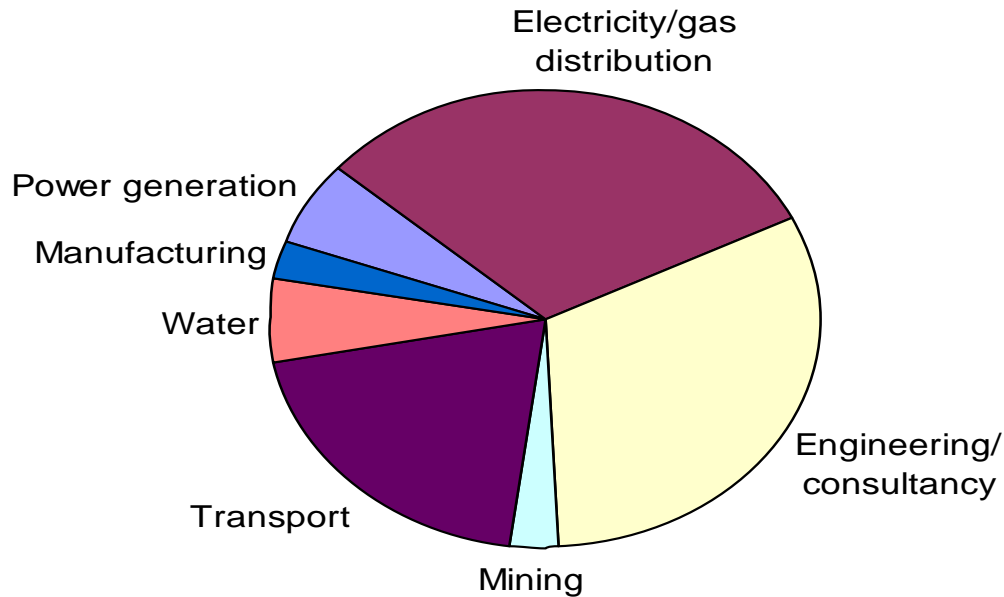
Challenges

- **Strong Asset Management requires a systemic approach**
 - all assets contributing to the service output considered as a system
 - whole life perspective of the asset system
 - optimisation and prioritisation - including enhancement works
- **Development of aligned objectives and targets is key**
 - cross functional alignment
 - top to bottom alignment
 - within known constraints
- **Developing a system that is rolled out and consistently applied**

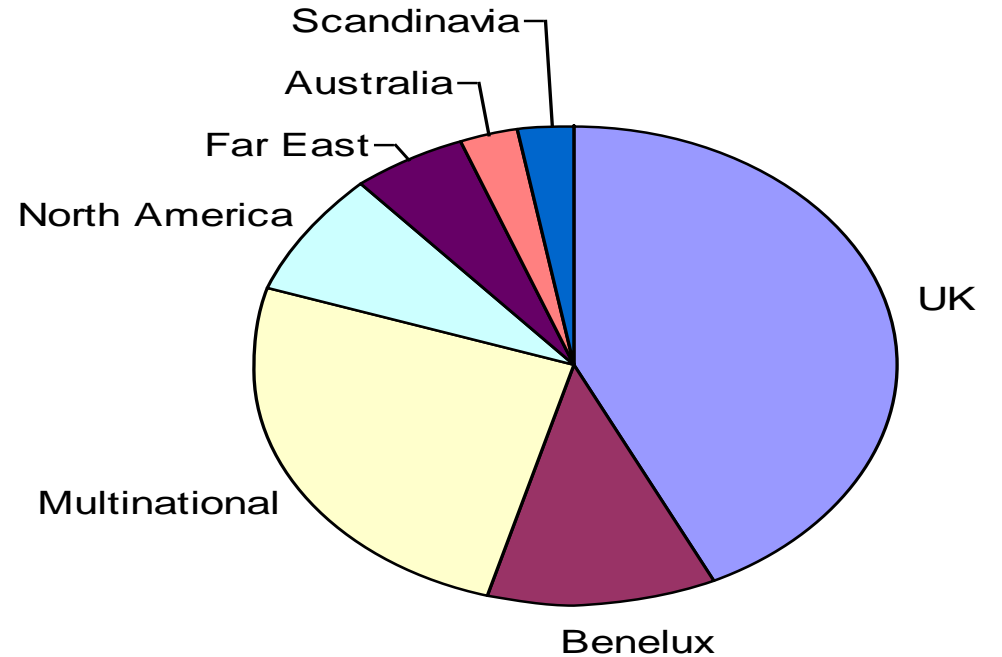
Review Panel

49 Organisations from 15 Industries in 10 Countries
In excess of 1300 Suggestions and Comments.

Industry Sectors




Geographical footprint



PAS 55



PUBLICLY AVAILABLE SPECIFICATION




PAS 55-1:2008

Asset Management

Part 1: Specification for the optimized management of physical assets

www.theiam.org



BSI
British Standards

ICS code: 83.100.01
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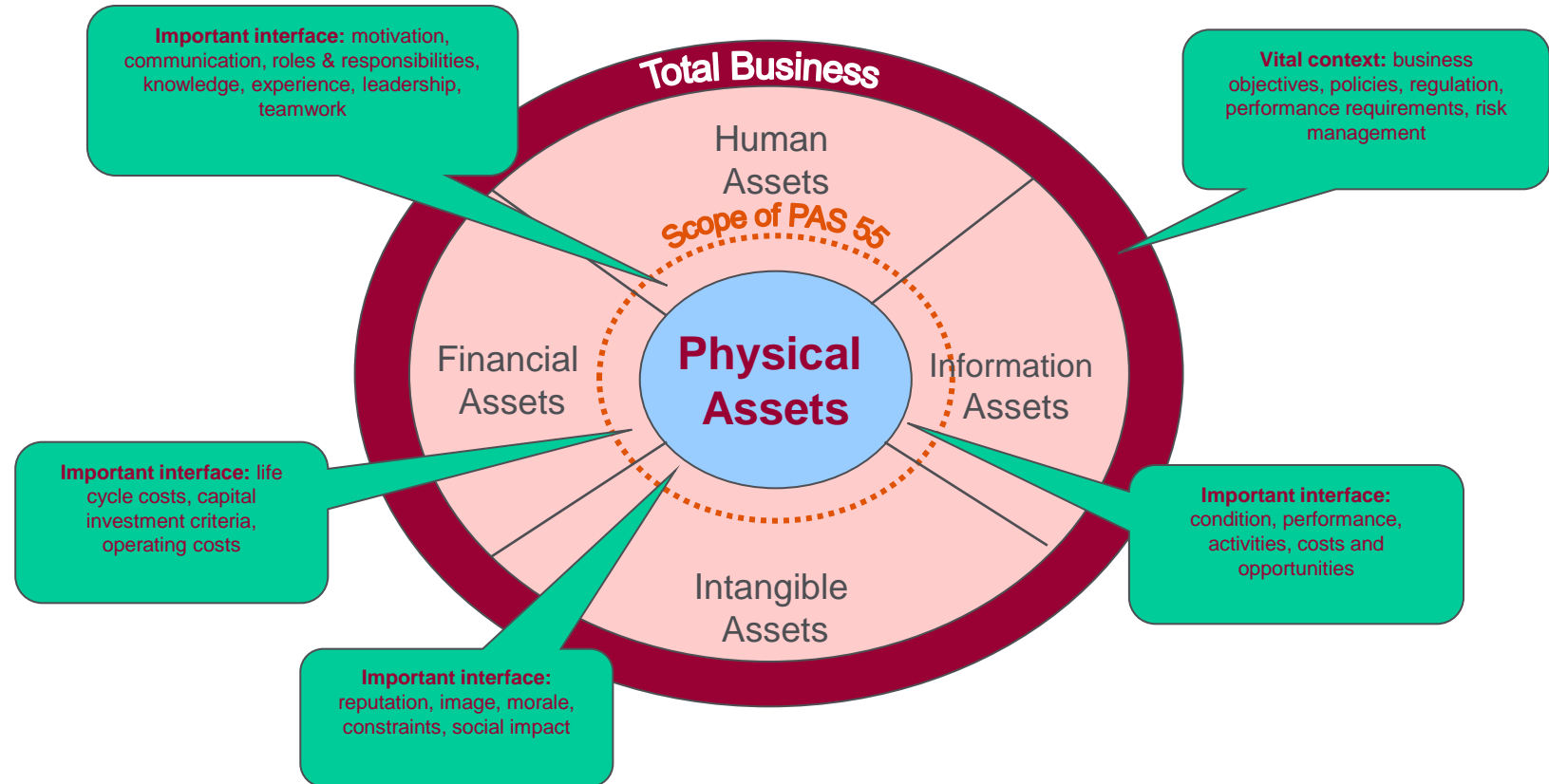
Definition

Asset management

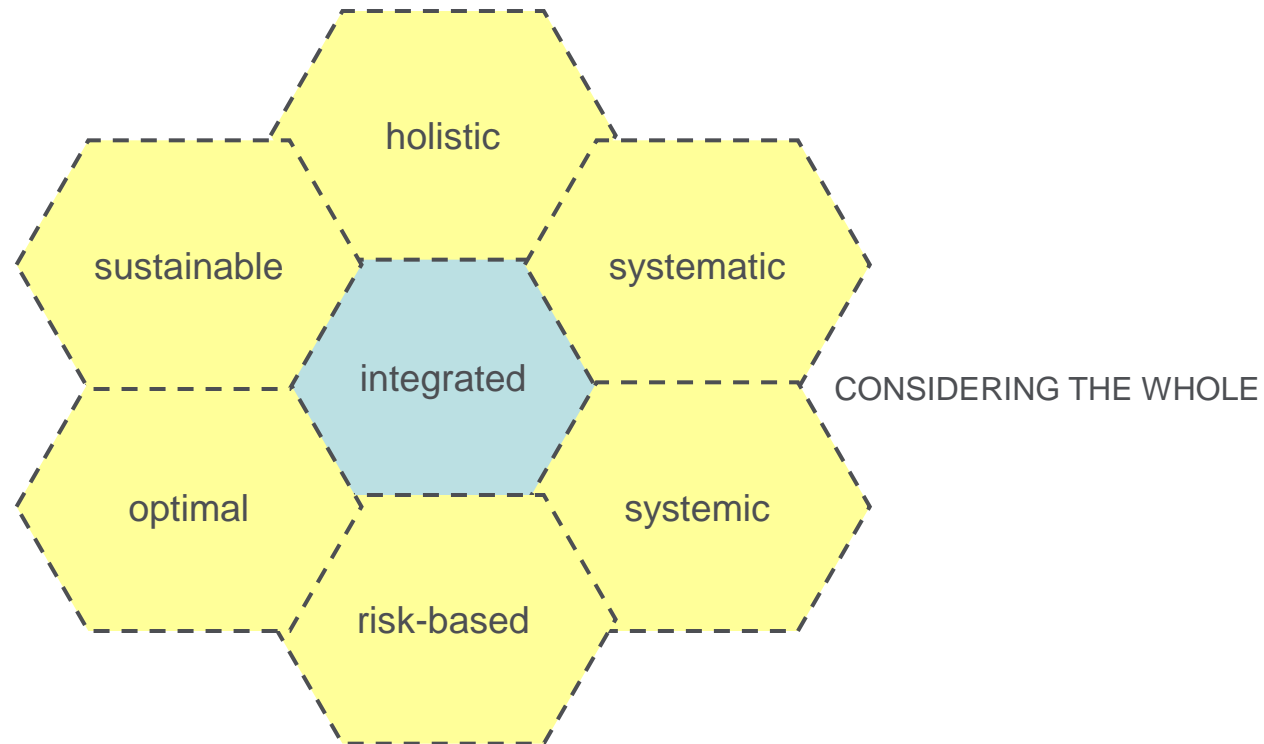
“systematic and coordinated activities and practices through which an organization optimally manages its physical assets, and their associated performance, risks and expenditures over their lifecycle for the purpose of achieving its organizational strategic plan” (PAS 55)

Types of Assets

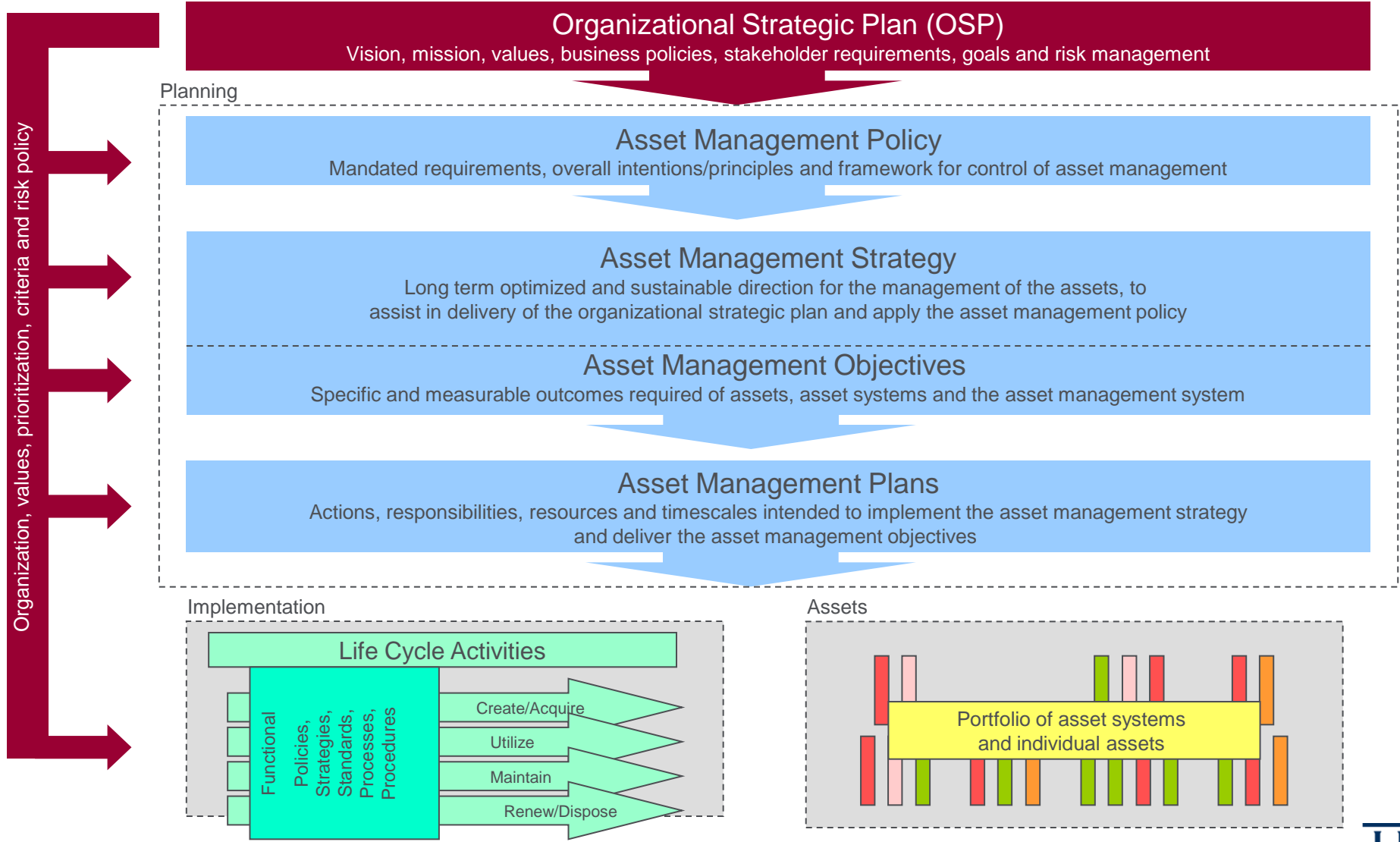
The management of physical assets and asset systems is inextricably linked to the other categories of assets however, within PAS 55 the other categories are only considered where they have a direct impact on the optimized management of the physical assets.

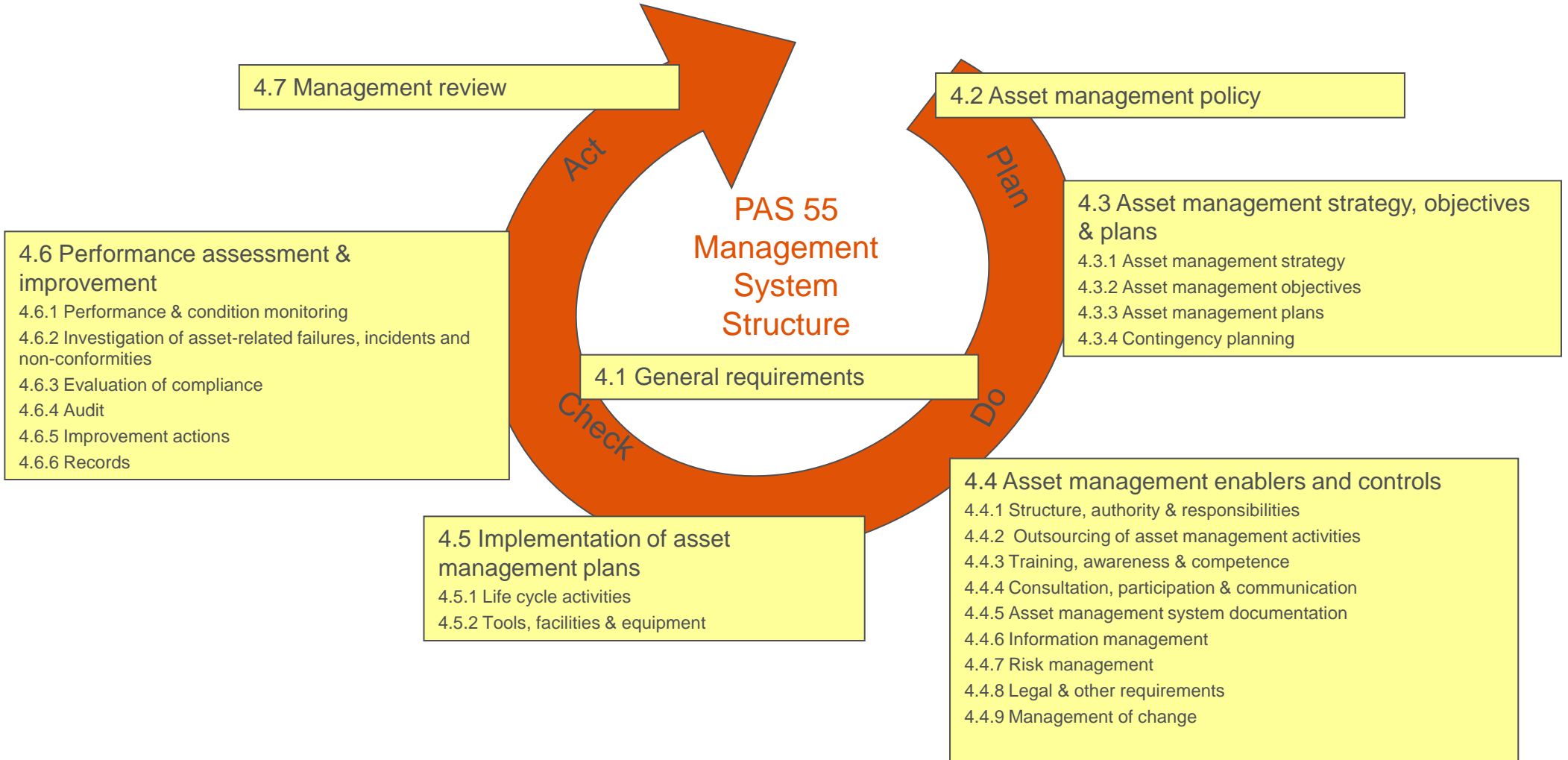


Dimensions of Asset Management



Line of Sight

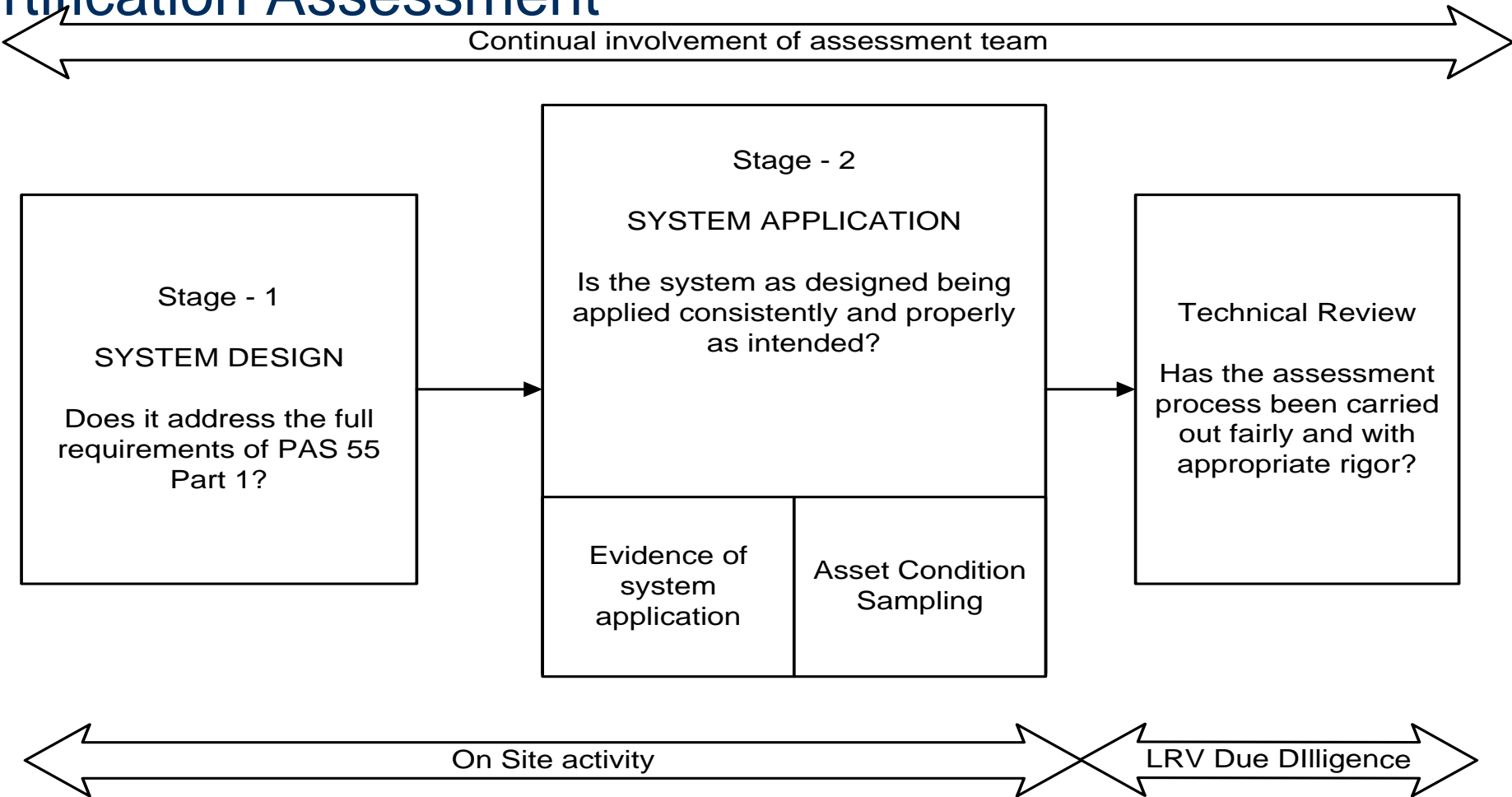




Lloyds Register PAS55 Services

- Training – 1 day Awareness and 2 day Practitioner courses
- Gap Analysis – a high level assessment of your company systems to assess overall alignment with the standard
- Detailed gap analysis report which will highlight major non compliance areas and from which an action plan can be developed
- Ongoing support to assess that any improvements made are in compliance with the standard
- Preliminary assessment of any areas that have been subject to modification to ensure that these have been adequately embedded within the organisation.
- Certification.

Certification Assessment



Typical learning points from earlier assessments

- **Don't start from scratch**
 - Use your existing systems to show you meet PAS-55 requirements
 - Existing systems can normally be used with incremental development to meet PAS-55 requirements
 - You don't have to have new systems or processes fully implemented. Partial implementation with a roll out programme is sufficient.
- **Involve the whole business**
 - PAS55 is applicable to the whole of your company
 - not just the Asset Management Directorate
 - Engage with other key players e.g. Procurement, Training, HR, Audit etc as soon as possible
- **Consider using a staged approach**
 - This will enable you to take the business along with you as your understanding develops. Training, gap analysis and preliminary assessments all help to raise awareness

Typical learning points from earlier assessments

- **Make sure the right staff are interviewed**
 - At pre-certification visits e.g. gap, make sure that staff with sufficient knowledge of their process are put in front of the assessment team. This means that the assessment team can get a fuller view and be able to give a more constructive feedback.
- **Interpretation of PAS-55 is key**
 - Use the information from the gap, preliminary and certification assessments to add value to your business and as part of the continuous improvement cycle.
 - Make sure you use a certification body that understands your business (and its problems and challenges)
- **PAS-55 forces you to demonstrate how asset management activities are integrated across existing organisational structure and processes**

PAS55 Application

SO

- We now have a specification that your asset management system can be certified to
- In the UK, Electricity and Gas Utilities are under pressure from the Regulator to demonstrate compliance to PAS55

BUT

- What is relevance of specification to other non regulated organisations
- What is relevance to other non UK organisations with different cultures, mindsets and languages

Our experience has demonstrated a great deal of relevance

PAS 55 Clients



ESB - Ireland's premier electricity utility



Northern Powergrid

anglianwater



Case Study - Statnett

Statnett represents a case in point:

- Aware of PAS 55 but unsure of the benefits
- Approached Lloyds Register initially to provide training and a high level gap analysis
- Progressing to certification in 2012
- The Statnett perspective.....