



# Asset Information Requirements and Standards

Supporting organisations to define the right information for optimal Asset Management decision-making. Collating Asset Information requirements and creating effective standards that specify data needs, allowing an organisation to drive data management and quality improvement.



## Industry Need

“We have large volumes of poor quality information and we have challenges onboarding new asset information from capital projects.”



## Catalyst for Change

We do not have sufficient data to make asset investment decisions or to monitor business and asset performance. Our asset registers do not reflect the real assets in the field, leading to compliance risks. Our BIM projects are failing to handover effectively into asset operations and realise the benefits of a Digital Twin.



## Outcome Delivered

- Effective standards that ensure Asset Information is aligned with decision-making processes, leading to better evidence based decisions.
- Improved information handover from capital projects.
- Definition of data quality requirements is used to spawn data improvement activities



## Why AMCL?

- Existing templates for AI standards
- Established Conceptual Information models
- Methodology to engage with stakeholders to gather decision needs
- Alignment to Performance Management Framework (PMF) and Asset Investment Planning (AIP) approaches
- Experience in aligning BIM with operations /maintenance lifecycle needs

## Case Studies



Following AMCL's collaboration with SSE to develop an Asset Information Strategy and improvement roadmap, AMCL worked with a variety of stakeholders dependent on Asset Information to develop five Information Standards. The standards consolidated the existing, but fragmented, definitions of information requirements to align them to Asset Management decision-making, corporate-level management standards, business processes, regulatory compliance and KPI reporting.

The standards developed to date are:

- **High-Level Information Standard** – defines the overall scope of information required to support Asset Management;
- **Asset Register Information Standard** – the detailed data requirements to be held against records that compose the Asset hierarchy;
- **Job Plan and PM Information Standard** – the necessary information needed in the setup, planning and scheduling of interventions;
- **Work Order Information Standard** – the information required to be made available to users carrying out work and the data they shall feed back to the business; and
- **Content Management Standard** – the scope and management of unstructured information relating to lifecycle, roles and technology.

AMCL then worked with SSE to use the Standards in defining improvements to SSE's deployment of the Maximo system and its key data sets. Multiple tranches of data quality improvements are underway to increase the data quality of the Asset Register and Maintenance records against the standards. AMCL are also supporting the refinement of the work management processes that will ensure continual improvement of asset information via feedback from data users.



AMCL has been working with a UK based high speed rail organisation that is seeking to become world leading in Asset Management and the management of its Asset Information. Their Asset Information vision was to develop a Common/Connected Data Environment (CDE) that provides internal and external stakeholders with the asset knowledge and asset information that is core to business decision-making.

AMCL was commissioned to develop the scope, the requirements, the outline solution design and support the system procurement and implementation of the CDE. To achieve this AMCL:




- Deployed the Asset Intensive Business Architecture (AIBA) to capture the Business Capabilities and information flows.
- Captured 'Use Cases' based requirements through a series of interviews and workshops.
- Developed the information model (conceptual data model) which identified and prioritised the information that is core to their knowledge and decision making.
- Mapped the current IT systems to the business capabilities, identifying gaps and system duplications.
- Developed options for solutions including integrations with a GIS and recommended an outline solution design.
- Issued a Request For Information (RFI) to a variety of market suppliers and approached them on the client's behalf.
- Developed a short list of solution providers to facilitate the procurement process.

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