

# **ASSETS MASTER DATA**



### Presentation

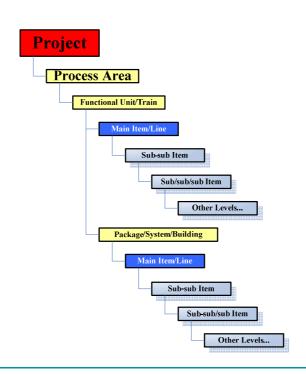
Crea provides technical assistance in the developing of Assets Master Data, with special focus on Maintenance and Asset Integrity Related Information. The service also includes Extract Transform and Load (ETL) of information from legacy systems to target CMMS.

# Master Data Types

Most important Master Data Types are:

- **Asset Information** with particular reference to Equipment and Materials, including:
  - Data sheets
  - Bill of Materials
  - Reference Documentation
- Functional Locations with particular reference to Process Functional Locations, including:
  - Data sheets
  - Loops/Systems
  - Joints, Nozzles, Pipe Classes
  - Bill of Materials
  - Reference Documentation
- Building/Locations
- Substances
- Documentation





### **Functional Locations**

The fundamental point, in developing a Maintenance System, is the creation of a register of all Functional Locations (usually called *Tags* or *Flocs*) which describes with details the logical organization of all pieces of equipment of which the plant is composed.

The organization of such a register is usually very depending from the Corporate Specifications, in particular *Item & Numbering Procedure, Material Numbering Procedure* and *Document & Numbering Procedure*. Functional Location attributes have the following characteristics:

- Shall be Location dependent
- Shall be Process dependent
- Shall be Equipment independent

While Functional Location identifies logical position in the plant process, the *Equipment* describes the physical objects itself installed in that position. Functional Locations & Equipment can be organized in hierarchy. Equipment Attributes shall not be Location Dependent but Manufacturer Make specific.



A relevant aspect is the need of defining descriptions in such a way they can fulfil their primary goals, which can be summarized as follows:

- to allow a quick and correct identification of the object (ex. Asset, Equipment, Material, Document, Maintenance Plan, Task List, etc.)
- \* to allow a quick and easy definition of search criteria (ex. selecting class of items, types of documents, etc.)

Unfortunately, there are also situations in which it is necessary to use a short description instead of a more detailed but longer description.

In order to properly create short intelligible descriptions, it is necessary:

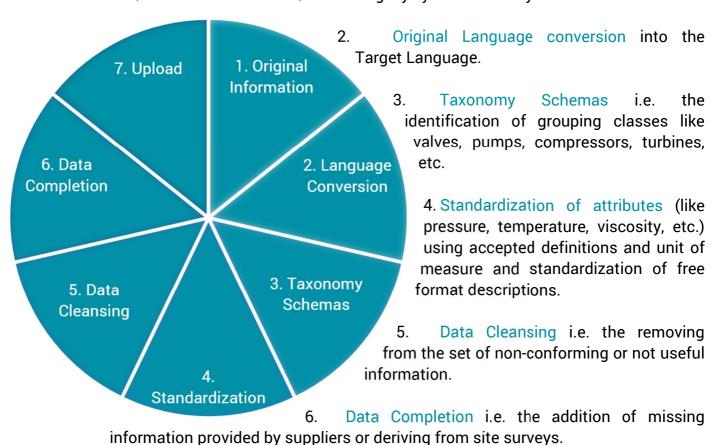
- \* to format long description in a way suitable for text parsing
- to shorten long formatted description applying rules specific to the type of text.



# The Information Cycle

The information cycle can be summarized as follows:

1. Original Information management i.e. the information coming from contractors and/or manufacturers and/or from legacy systems is analysed.



7. Upload into the target system like a CMMS.



#### **Assets Master Data**

The development of a standardized and complete Assets Master Data:

- Facilitates bulk master data import from legacy systems (CMMS, EDMS, Data Warehouses, etc.) and data cleansing and completion.
- Reduces Master Data Build-up Costs and time schedule.
- Facilitates standardization of Master Data Build-up Information with particular reference to descriptions.
- Facilitates sharing of master data and improves efficiency of master data querying in particular during engineering and commissioning phases.
- \* Facilitates data upload into Corporate CMMS or other Information System.

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