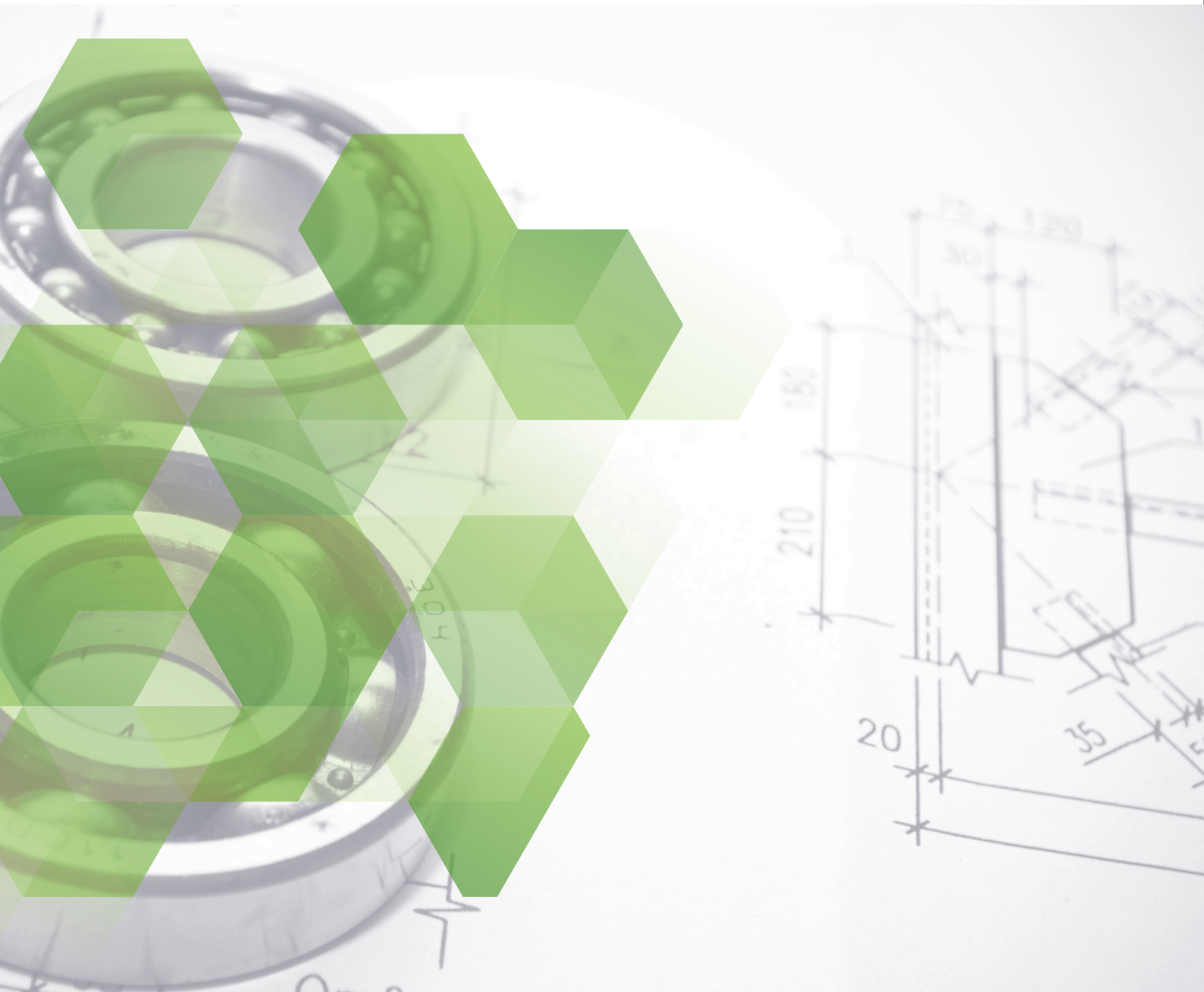

ASSET MANAGEMENT SERVICES

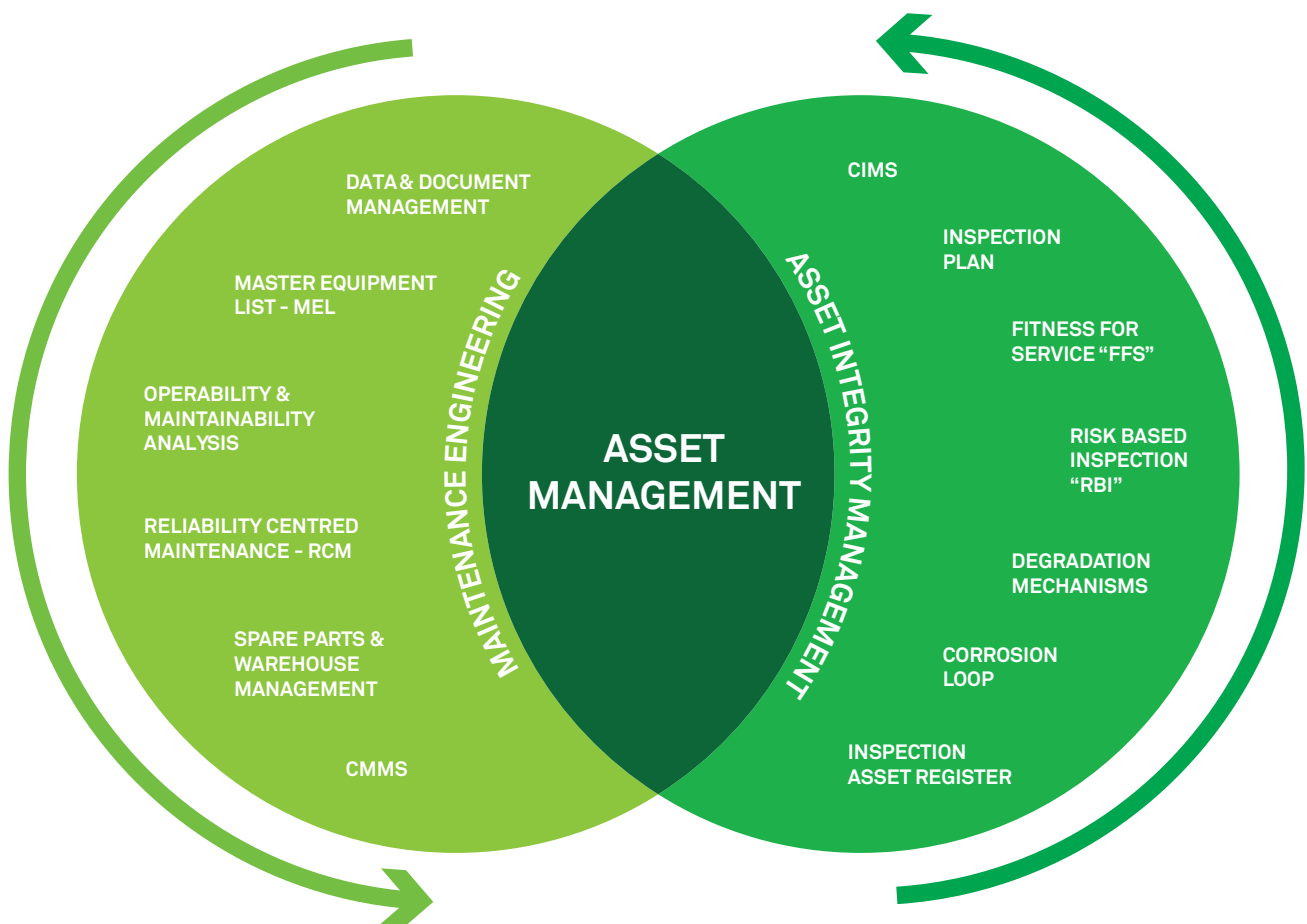


During the lifecycle phases of a Project, starting from the Project Concept, followed by a feasibility study preliminary Design and then the detail of the asset design, there are a lot of opportunities for influencing the quality of the asset in terms of construction, functionality, reliability, availability, maintainability, inspectability and cost.

Maintenance Engineering and Asset Integrity Management are sure two approaches useful to evaluate the lifecycle of the asset, during the different phases of a Project, and finalized to optimize the Asset Life.



RAMCUBE Asset Management Services are addressed to provide and to assure the best Asset Life Cycle Management





DATA & DOCUMENT MANAGEMENT

- Managing data & document relevant to components, materials and documents
- Cost reduction
- Rationalization and optimization of company processes integration of engineering, maintenance and production



MASTER EQUIPMENT LIST - MEL

- Definition of the item to be included in the maintenance analysis
- Development of an appropriate “maintenance manual” for the collection of all the vendor operation and maintenance manuals



OPERABILITY & MAINTAINABILITY ANALYSIS

- Checking and assuring operability and maintainability aspects
- Ensuring that engineering and procurement of project facilities meet safety, accessibility, operability, maintainability and HFE objectives



RELIABILITY CENTRED MAINTENANCE - RCM

- Determination of “what activity” is required for each item in terms of maintenance
- Failure mode and effect analysis (FMEA) development
- Criticality analysis development
- Selection of the right maintenance policy to apply for each item
- Customized maintenance plan





RAM ANALYSIS

- Evaluation of the reliability, availability, maintainability and safety of complex systems
- Determination of the production availability
- Suggestion of potential solutions in order to improve the reliability and the availability of the plant



WAREHOUSE MANAGEMENT

- Managing and optimization of all spare parts necessary for the operations
- Material coding
- Optimization of the warehouse stock levels with the anticipated behaviour of the equipment
- Availability and storing into the site warehouses
- Interchangeability report



CMMS

- Document management
- Maintenance activities management and scheduling
- Approving work flow
- Resources and material optimization
- Key performance evaluation



INSPECTION ASSET REGISTER

- Clearly definition of the item to be inspected
- Appropriate, adequate and customized inspection plan
- Rationalization and optimization of company processes integration of engineering, maintenance and production



CORROSION LOOP

- Definition of homogeneous groups of items in terms of design, operating parameters, material, and inspection topics
- Determination of potential damage mechanisms, corrosion types and corrosion rates for each corrosion loop and item
- Risk ranking



DEGRADATION MECHANISMS

- Identification of the appropriate degradation mechanism
- Determination of the susceptibilities for all item
- Quality, appropriate and effectiveness of the inspection techniques to be selected



RISK BASED INSPECTION - RBI

- Optimization of the inspection activities performed
- Risk ranking
- Improving the management of the assets integrity and reducing the overall costs for inspection and monitoring
- Identification of the areas and items with higher risk categories and development a prioritized list for more in-depth inspection or analysis





FITNESS FOR SERVICE - FFS

- Procedures assessment
- Taking in consideration of the plant history
- Calculation of the remaining life of an item
- Defects characterization



INSPECTION PLAN

- Development of the appropriate and customized inspection plan
- Development of written scheme of examination linked for each item in order to manage what, when and where inspection will be performed and the most appropriate inspection techniques



CIMS

- Inspection activities management and scheduling
- Approving work flow
- Inspection report management
- Non destructive testing - resources and material optimization
- Remaining life and corrosion rate calculation

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