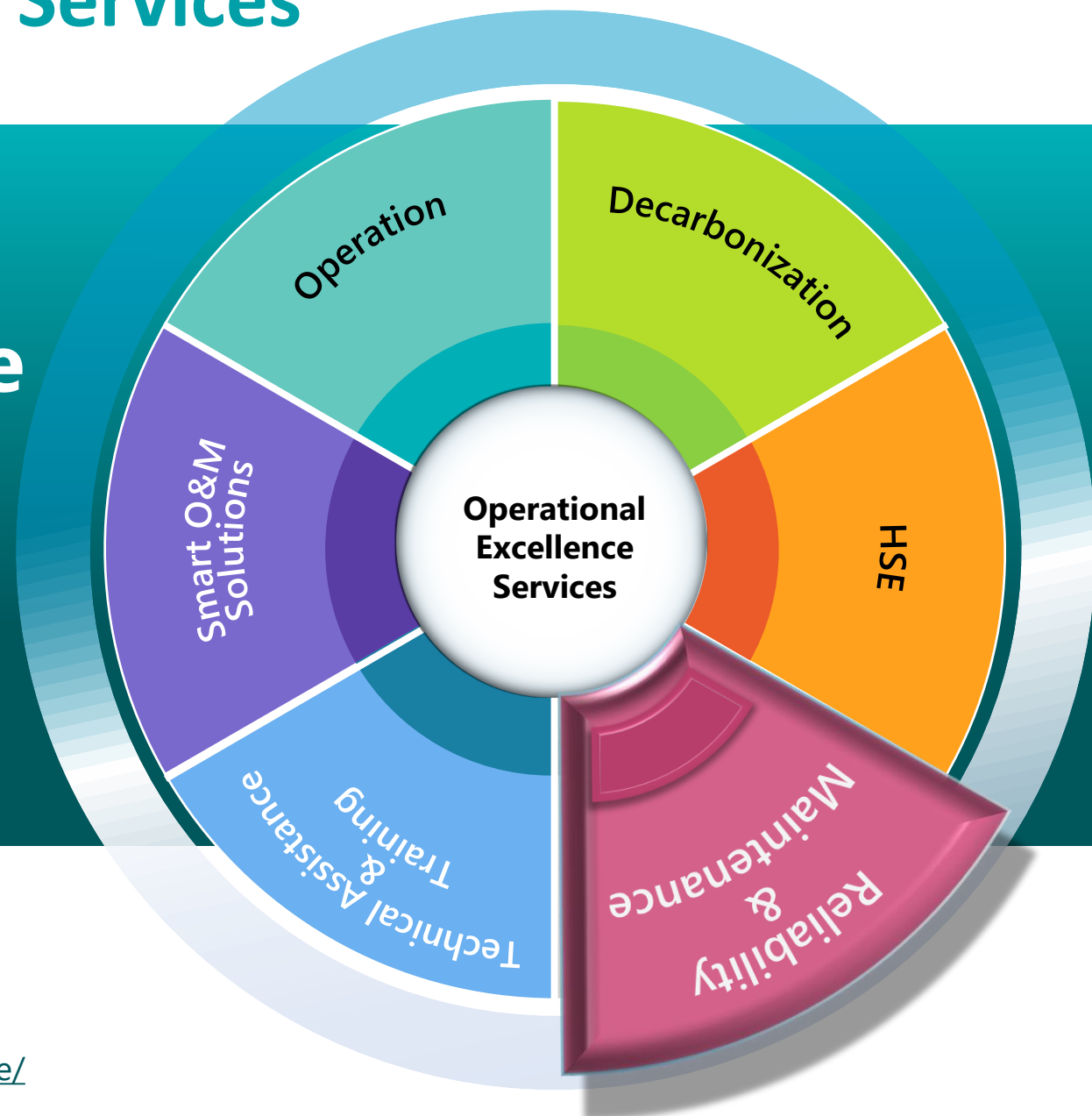




Operational Excellence Services

Reliability & Maintenance

Reliability, Availability,
Maintainability (RAM)



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Access to Our Homepage

 <https://www.jgc.com/en/business/epc/operation-maintenance/service/>

Reliability, Availability, Maintainability (RAM)

Do you have any of these issues?

- ☹️ **No appropriate answer to the conflicting demands of "maintaining the reliability of equipment" and "reducing maintenance costs"**
- ☹️ **Unable to see opportunities for improvement in reliability from data accumulated in CMMS/EAM**

RAM Solution

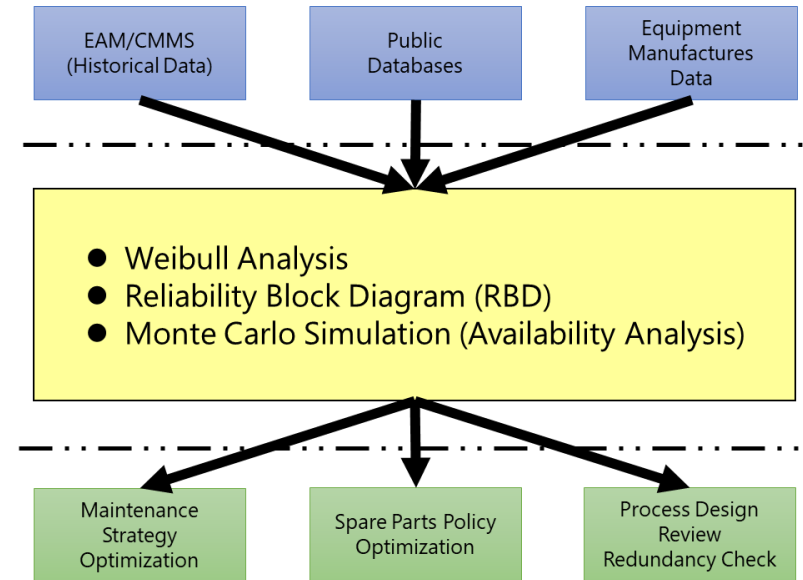
- Evaluate the current reliability of facilities based on valuable historical data, which are accumulated at EAM/CMMS.
- Select optimal maintenance measures while balancing the reliability of equipment and maintenance costs.
- Establish a strategic PDCA cycle in the operation and maintenance organization

Data Acquisition

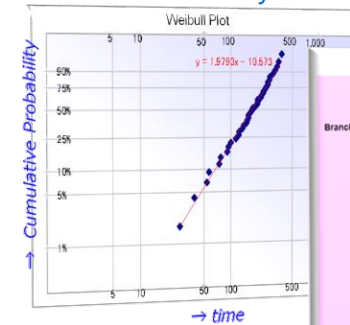
RAM Analysis

Applications

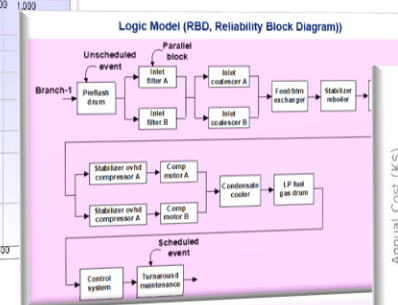
RAM Concept



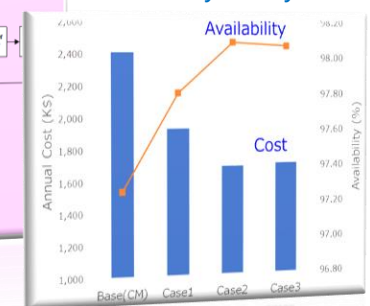
Weibull Analysis



RBD



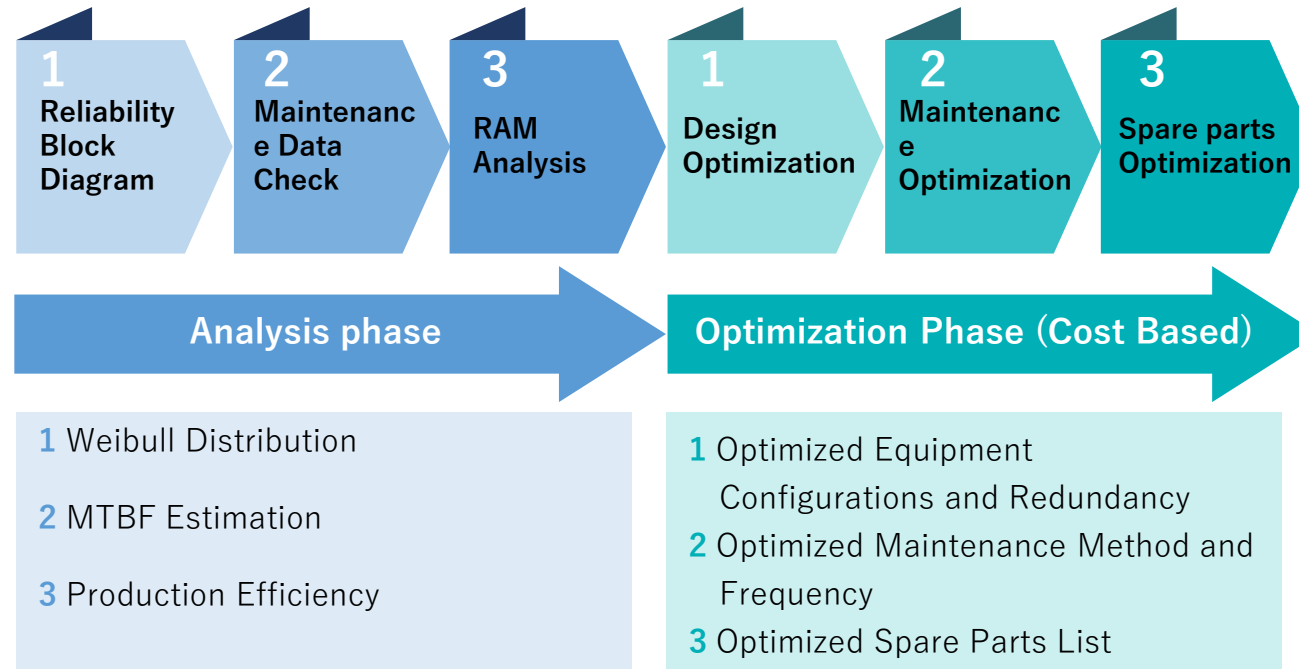
Availability Analysis



Reliability, Availability, Maintainability (RAM)

Workflow & Results

JGC's RAM Study Steps



2-3 months for Unit (e.g., CDU, FCC)
Critical Equipment : Approx. 70 sets

Our Strengths

- Building an appropriate RAM analysis model based on process engineering knowledge
- Collection of the appropriate reliability data and optimization proposals based on the knowledge of operations and maintenance experts
- Best method approach by combining internal and external resources to meet clients' needs and objectives

Our Experiences

20+
Cases

Not Only O&M phase, but also FEED and EPC phases.

Various Type of Facilities

Refinery
Gas Processing
LNG
FLNG,
LNG Terminal, etc.