# PMS Data Maturity Model

## DATA VALIDATION / BUILDING

### Data Building - Category Level

### Data Building - Sister Vessel

**Primary Activities**

- Identify & fix any errors in historic data
- Optimize & schedule jobs based on efforts to service the jobs
- Standardize Job codes across fleet

- Identify Lead & Sister Vessel data variance
- Schedule specific jobs relevant to sister vessels
- Coordinate deletion of any incorrect jobs

## DATA MAINTENANCE & INSIGHTS

### Proactive Data Maintenance

### Reporting & Insights

**Optional Activities**

- Proactive Job creation for changing Regulatory compliance
- Prompt response for new machinery on-boarding or requests from Ship Staff / Office
- Support 16 x 5

- Maximize client ROI through Consistent & Reliable PMS data
- Generate analytics indicating
  - Jobs Serviced
  - Vessel's Health & Performance

### ZERO Non-Conformity & Observations

- THE OBJECTIVE achievement through:
1. Regularized data maintenance
2. Continuous tracking & monitoring
3. Timely corrective actions

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# PMS Reliability – Small Sprints

PMS data review using various smart tools


Quality Checks
Meta data analysis
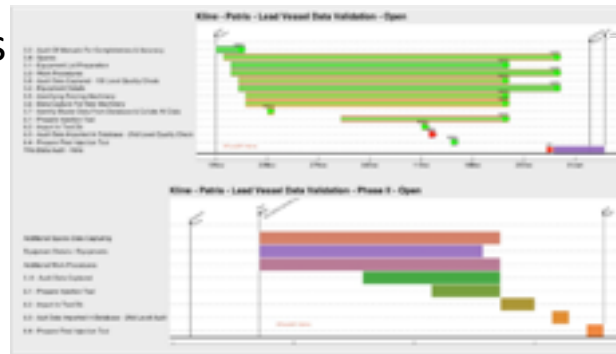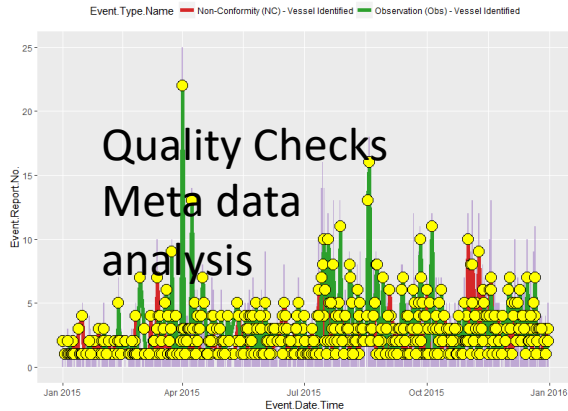
Small and big projects planning and updates

Jobs spread analysis and clean up
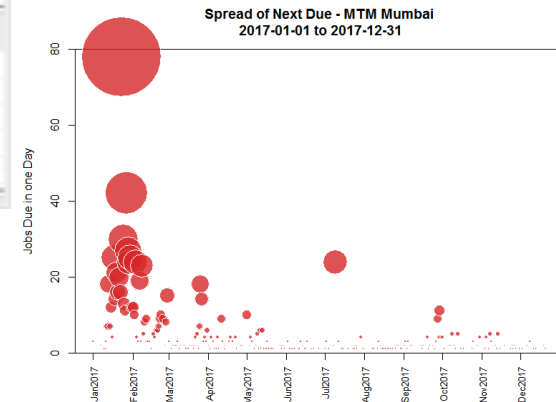


**PMS data reliability also depends on the small ad-hoc tasks like:**

➢ Updating the inventory / ROB
➢ Creating new regulation jobs – Service Letters / Changes in interval / MLC / BWM
➢ Creating Class related jobs – Inspections / CoClass / Hull and Machinery Surveys
➢ Creating new spares – machinery replaced / equipment supplied or installed

**Technologies used:**

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# Compliance!



**The Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships, 2009** (the Hong Kong Convention), was adopted at a diplomatic conference held in Hong Kong, China, from 11 to 15 May 2009, which was attended by delegates from 63 countries.
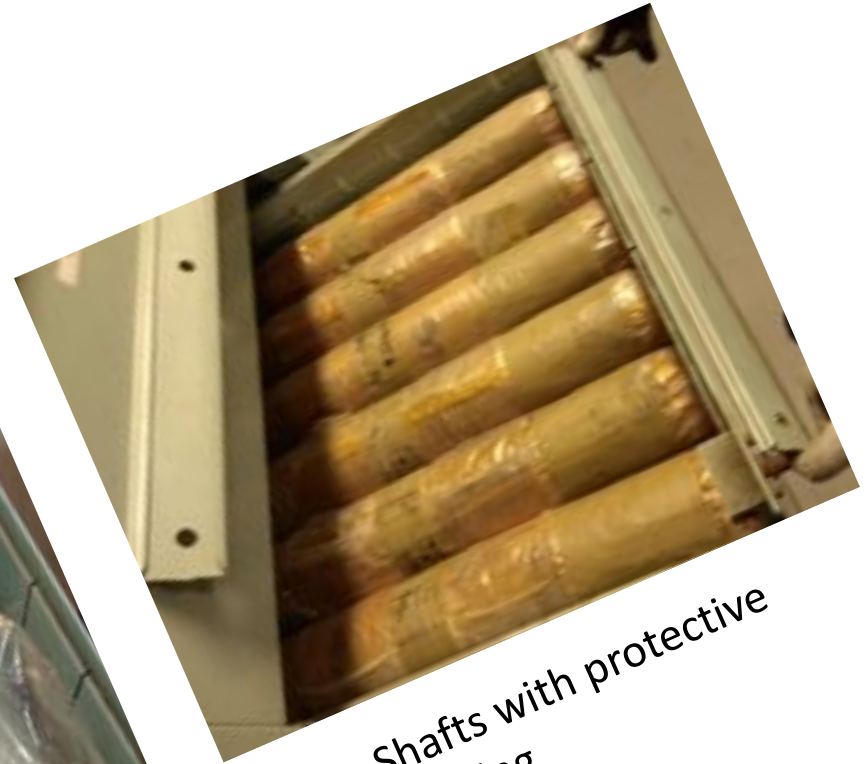
Besides many other guidelines, one guideline which we need to start thinking about and start working on:

2015 Guidelines for the development of the **Inventory** of the Hazardous Materials, adopted by resolution **MEPC.269(68).**

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# Some Examples Of The Work Done



After packing and labelling



Filters with label and packing.



Shafts with protective packing

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# Some Examples Of The Work Done



Indexing the spares for easy identification



Packing, labelling and placing it on respective place

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# Process and Challenges
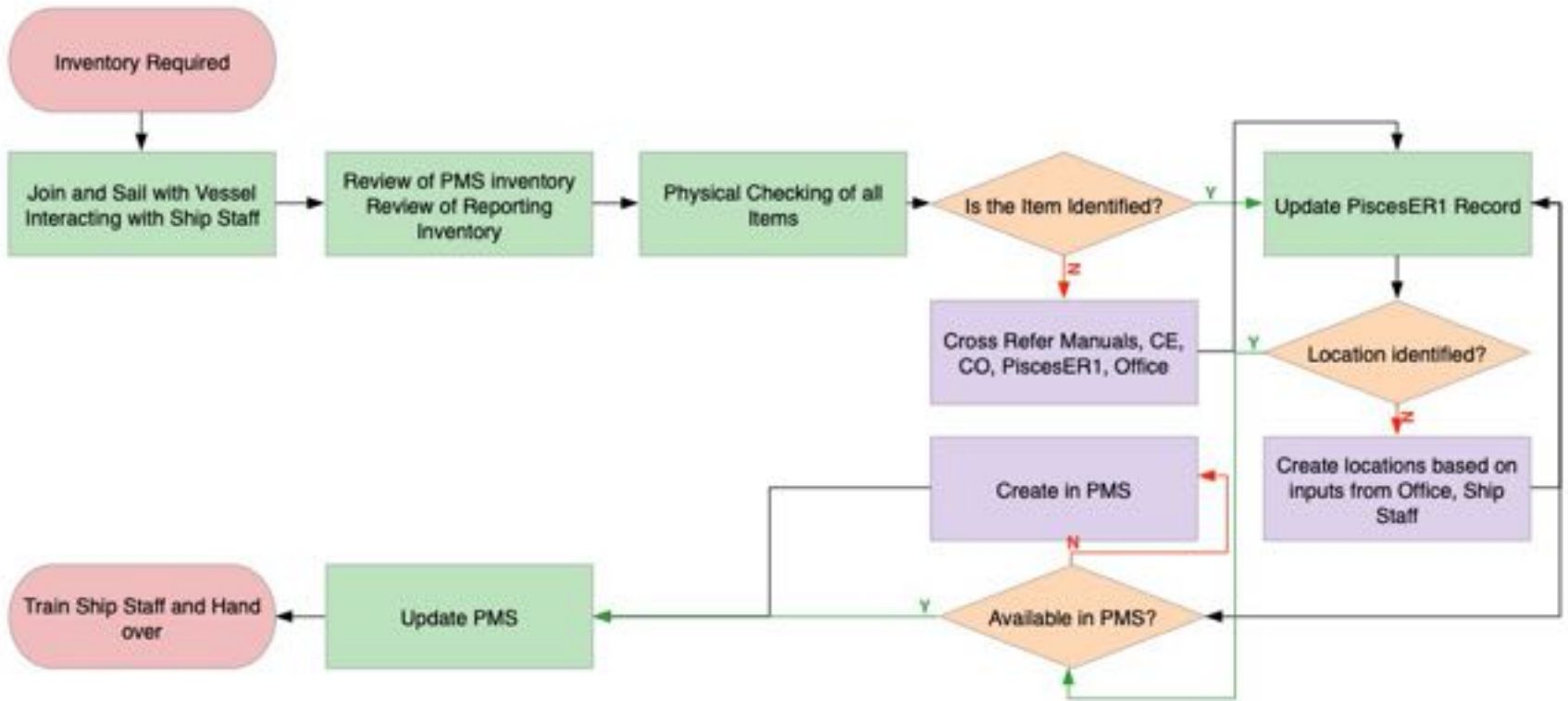


Packing, Labelling, Barcoding, Arranging done as required

# Case Study of Recovery Value – Estimated Work

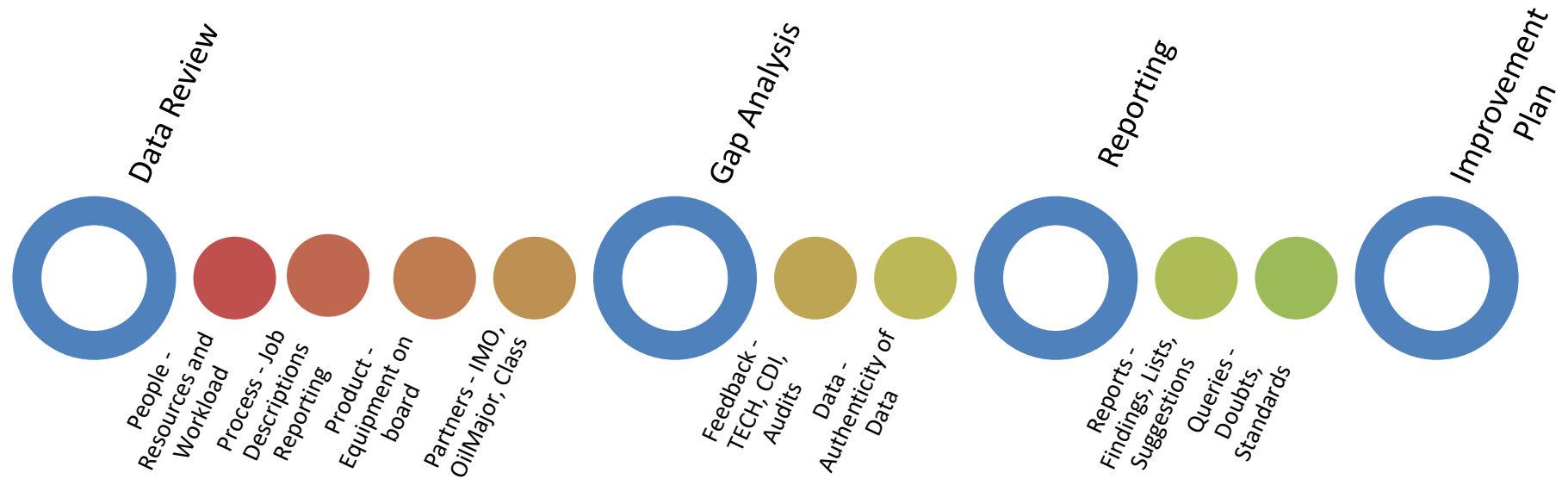| Details | Customer 1 – Bulk Carrier | Customer 2 – Very Large Gas Carrier |
|---|---|---|
| Inventory update leading to cancellation of existing requisitions | 4 nos | 2 nos |
| Major Jobs pending due to spares missing | AE T/C overhauls all 3 | One ME Unit decarb |
| Number of items that were 'discovered' and updated | 2 sets of AE T/C kits | 1 set of piston rings |
| Work that can be carried out due to 'discovered' spares | 2 out of 3 pending jobs | 1 out of 1 pending job |

The estimation is done based on inputs from

- ship staff

- checking the PMS system

- communication with office

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# Case Study of Recovery Value – Estimated Dollars

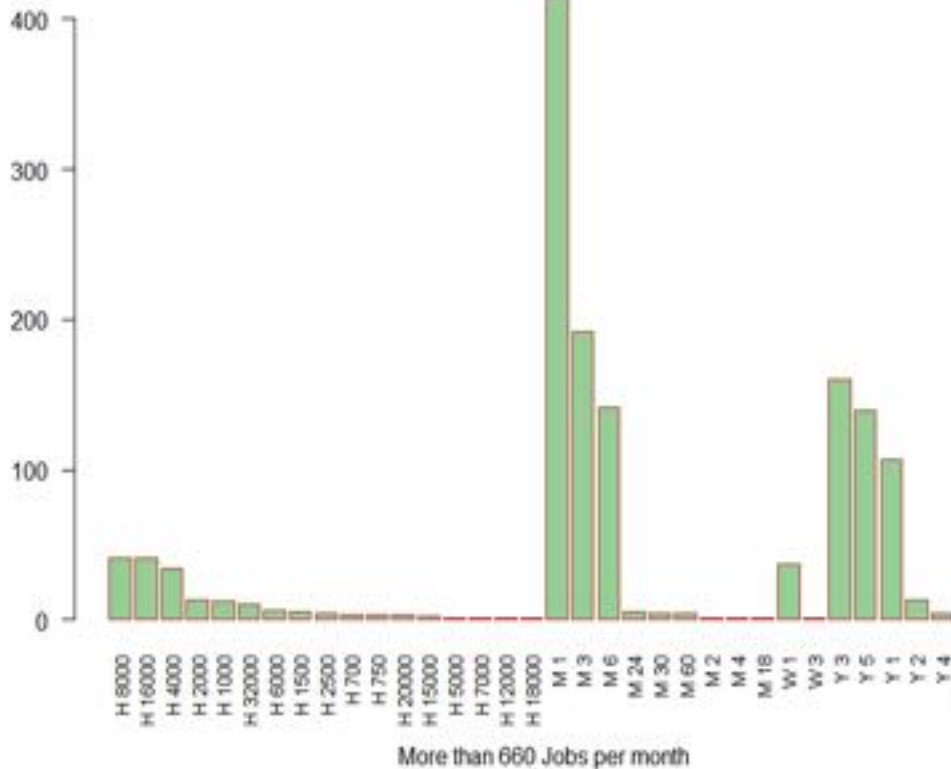| Details | Customer 1 – Bulk Carrier | Customer 2 – Very Large Gas Carrier |
|---|---|---|
| Total Number of Spares Identified by our team | 4000 items | 8000 items |
| Approx. percentage of items that were not recorded in PMS / Inventory | 20% | 25% |
| Number of items that were 'discovered' and updated | 800 | 2000 |
| Estimated Recovery Value for the 'discovered' items | 40,000/- USD | 100,000/- USD |

The estimation is done with approximate average of USD50/- per spare part.

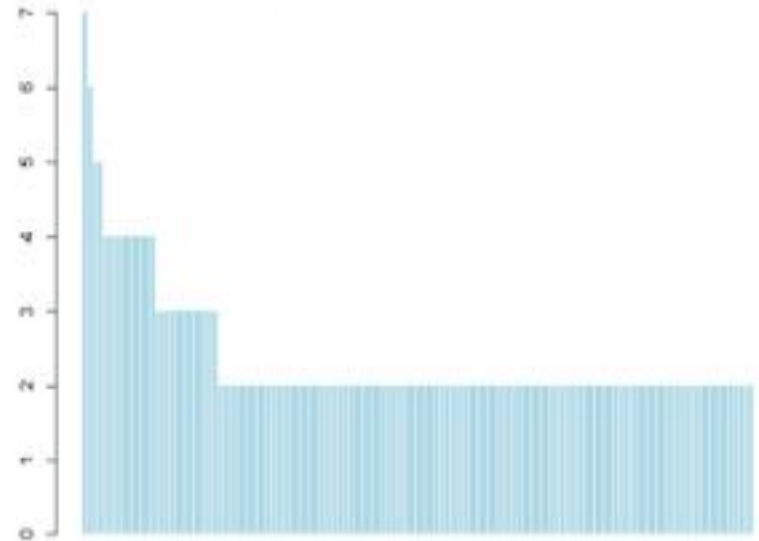The individual numbers of ROB are not taken into these calculations.

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# PiscesER1 – PMS Audit and Improvement

**Data Review**

- People - Resources and Workload
- Process - Job Descriptions Reporting
- Product - Equipment on board
- Partners - IMO, OilMajor, Class

**Gap Analysis**

- Feedback - TECH, CDI, Audits
- Data - Authenticity of Data

**Reporting**

- Reports - Findings, Lists, Suggestions
- Queries - Doubts, Standards

**Improvement Plan**

After discussion and approval of the Improvement Plan
we will do the Clean-Up of the PMS
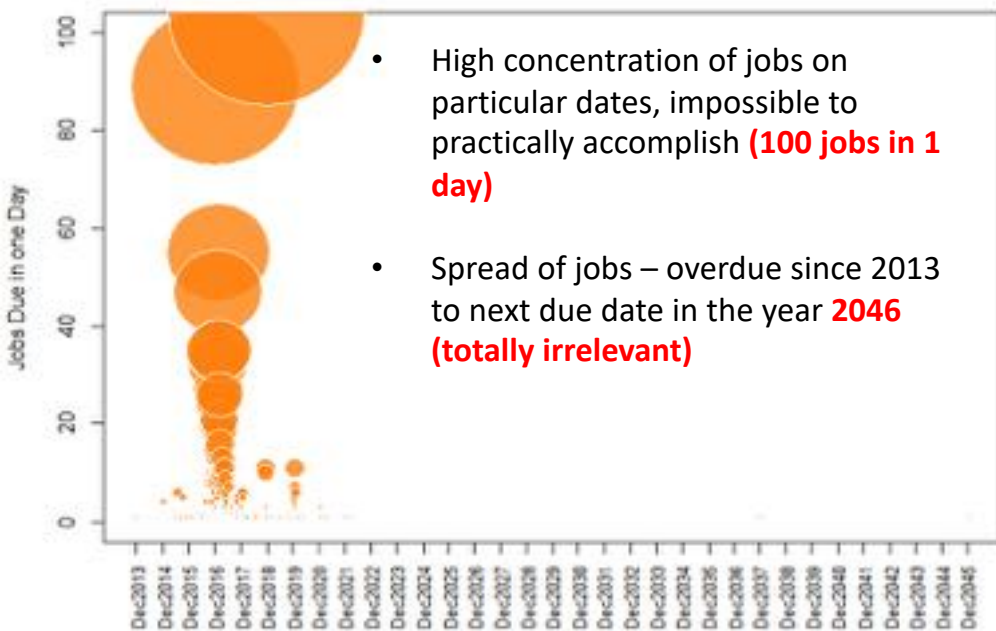
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# Case Study of one of the vessels



Jobs by Interval – **about 660 jobs reported by vessels every month**

Multiple Jobs of same interval to same component – **about 200 extra jobs**

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# Case Study of one of the vessels



- High concentration of jobs on particular dates, impossible to practically accomplish **(100 jobs in 1 day)**

- Spread of jobs – overdue since 2013 to next due date in the year **2046 (totally irrelevant)**

Next due dates of Jobs identified visually

**No Job Description by Interval**



Total 76 Jobs

Either Job description is missing or is irrelevant **(76 jobs)**



- NoInfo 18.7 %
- OnlyMaker 13.4 %
- MakerNType 67.9 %

Component Details

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