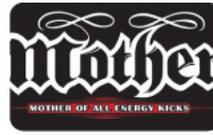




CCA ASSET MANAGEMENT

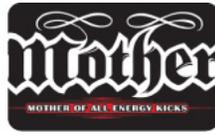
Maximo Upgrade from 4.11 to 7.5
From Reactive to Proactive





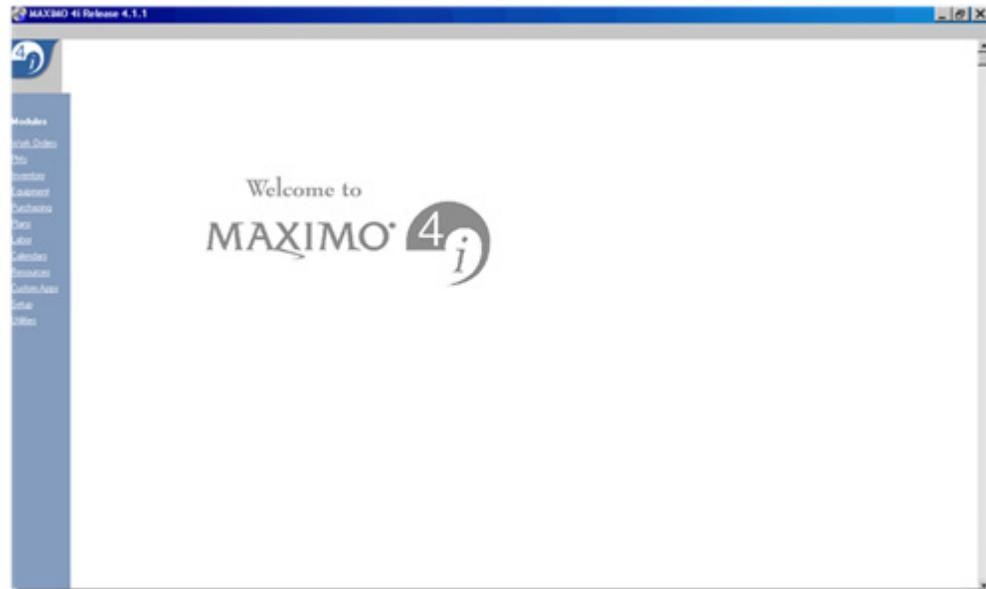
Background

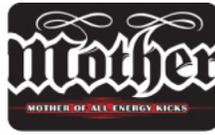
- Multiple sites nationally
- Mix of manufacturing facilities and distribution centres
- Range of equipment and technology
- Significant investment in new technology



Maximo as the Foundation

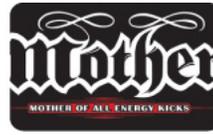
- 4.11 introduced in 1999
- Users well versed in the product
- Heavily customised
- Financials integrated to SAP





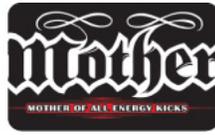
The Need

- Costly to support (customised)
- Based on aging IT infrastructure
- New business unit introduced
- Legacy systems could be decommissioned



Why Maximo

- Significant product knowledge within the business
- IT resources were consumed on other projects
- Could be rolled out quickly
- Holistically cost effective vs. other systems



The Approach

- Keep as 'vanilla' as possible to enable effective upgrades/patches
- Leave transactional data behind
- Phase 1 – new business unit Oct 2011
- Phase 2 – all existing sites Jan 2012



Data

- Failure codes – reviewed to enable FMEA, RCA
- Locations and assets – stripped out layers
- Reviewed crafts, standardised and rationalised duplication
- Username, labour and person now all the same name
- Vendors rationalised and interfaced with SAP
- Condition codes reviewed and streamlined



Job Plans and PM's

- Reviewed prior to remove redundant (and rubbish) data
- Enabled duplication of JP's across sites
- Key user enabled in each state to have local admin responsibility
- Beware PM's with 0 frequency!



Numbers

- 16,780 Assets
- 4,421 Locations
- 51,650 Items
- 7,823 Job Plans
- 6,403 PM's
- 14 sites

Work Order-Tracking

Bulletins: (0) Go To Reports Start Center Profile Sign Out Help

Find: Select Action

List Work Order Plans Assignments Related Records Actuals Safety Plan Log Failure Reporting Specifications

Work Order: 1017344 33- MONTHLY PALLET SCISSOR LIFT CREEP Site: 33 Attachments

Asset: 110705 33 DC 6051 LIFTING TABLE Class: WORKORDER Status: COMP

Location: 33G60LFT8051 33 DC 6051 LIFTING TABLE Work Type: PM Status Date: 24/03/12 3:23 AM

Parent WO: Inherit Status Changes?

Launch Entry Name: Accepts Charges?

GL Account: 3100-83520120 Is Task?

Failure Class: CRANE Under Flow Control?

Problem Code: Suspend Flow Control?

Storeroom Material Status: Flow Action:

Direct Issue Material Status: Work Package Material Status: Material Status Last Updated: Flow Action Assist?

Job Details Asset Details Priority

Job Plan: 2300 Asset Up?

Job Plan Revision #: 0 Warranties Exist?

PM: PM2058 SLA Applied?

Safety Plan: Charge to Store?

Asset/Location Priority: Priority: 1

Priority Justification: Risk Assessment:

Done Local intranet 100%



Reporting

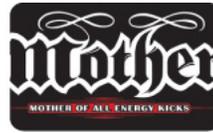
- 15 key metrics
- Monthly based
- Proactive focus
- Distributed nationally

Targets / National Average	IND STANDARD	WORLD CLASS
Av. T Total Maintenance Cost per Physical Case Produced	TBD	TBD
Compliance to R+M Budget	TBD	TBD
Safety Work Orders Actioned	TBD	>80%
Compliance to Priority One Schedule	80%	100%
Compliance to PM Schedule	65-95%	>95%
Compliance to PM Audit	TBD	>95%
Compliance to PM Quality	TBD	95%
Compliance to Work Order Schedule	65-90%	90%
Planned Activity by Hours	60-90%	90%
Planned Activity by Jobs	60-90%	90%
Backlog by Jobs	TBD	5 per trade
Inventory Turn Rate	1.4	>2
Cycle Counts Completed	TBD	98%
Inventory Stock Outs	2-3%	<1
Average Value Of Inventory	TBD	0.5% ERV



Interfaces

- All financials
- Initially daily to SAP, now every 10 minutes
- Web service call to SAP to verify GL accounts prior to saving or approving PO's
- Invoicing within in Maximo (looking to automate)
- Designed to reduce the amount of 'errors' or Idocs
- DataSplice HHT used primarily for cycle count and to issue items
- LDAP



Lesson's learnt

- Senior Management support (all sites)
- Change Management
- Engagement – User Forums
- Communication
- Training
- Testing, testing, testing
- Hypercare
- Documentation – The process



MAXIMO UPGRADE PROJECT UPDATE

BACKGROUND July 19th 2011

- Maximo is CCA's computerised maintenance management system which is used to plan and schedule all maintenance tasks at production and warehouse facilities, and to manage spare parts inventory at each facility.
- Maximo interfaces financial transactions to SAP.
- Maximo is used to manage capital project work and costs.

OVERVIEW

- The project will upgrade Maximo from Version 4.1 to the latest Version 7.5, impacting all existing Maximo sites and includes the new Preform Plant.
- The project will upgrade existing interfaces (SAP and DatasplICE scanners).
- The project commenced mid June 2011 and has an expected completion date of October 2011 for the Preform Plant.

BENEFITS

- Supported software platform which removes legacy systems – Citrix and Oracle.
- Supports multiple companies within the one organisation.
- Ability to integrate to management information systems – Actiplant.



PROGRESS TO DATE

- The first of three environments has been built and configured. This environment is called Development and will be used for initial technical development.
- Updated Maximo operating procedures have been adopted to suit CCA's business requirements, pending final input from all sites.
- Load checks for the new version have been prepared and data cleansing commenced.

UPCOMING TASKS

- Standardising of master data to align with the new structure of Maximo V7.5.
- Test environment hardware to be sourced and commissioned.
- Operating procedures workshop to finalise business requirements.
- Audit of existing DatasplICE scanners.



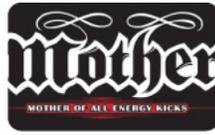
Next steps – Inventory Management

- Critical analysis – right part, right place, right time, right cost (4R's)
- Central store - key items and kitting WO's
- Rationalised holdings
- Utilise existing transport networks

SPARE PART CRITICALITY ANALYSIS		Rating	Score
Part Name _____			
Manufacturer _____			
Part Number _____			
Maximo Item Number _____			
1. Failure Mode Type			
	Similar equipment with similar failure modes		1
	Similar equipment without similar failure modes		2
	No similar equipment with this failure mode		3
2. Frequency of the failure			
	>2 years		1
	>6 months but < 2 years		2
	>1 months but < 6 months		3
	<1 month		4
3. Ability to detect failure			
	Easily detected by operators		1
	Readily detected by PdM		2
	Not detectable until failure imminent		3
4. Lead time			
	< 4 hours		1
	> 4 hours but < 48 hours		2
	> 48 hours but < 30 days		3
	> 30 days		4
5. Consequence			
	No effect to production		1
	Reduction in efficiency <25%		2
	Production stopped		3
	Safety / environment compromised		4
		Total	

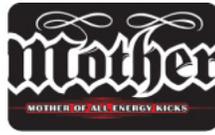
Rules:

1. Part must be held if score > 10
2. Part must be held if any two scores = 3
3. Part must be held if any score = 4



Next steps – planning and scheduling

- Introduction of a scheduling tool
- Integrate with demand planning
- Workflow management
- All aimed at effective utilisation of resources



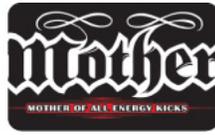
Next steps - Uptime

- Failure analysis RCA, FMEA
- Predictive maintenance focus
- Action to eliminate the root cause



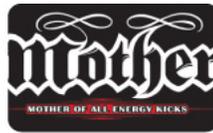
Next steps – Standard processes

- Work order management
- PM optimisation – similar equipment nationally
- Safety Plans linked to PM's
- All processes documented

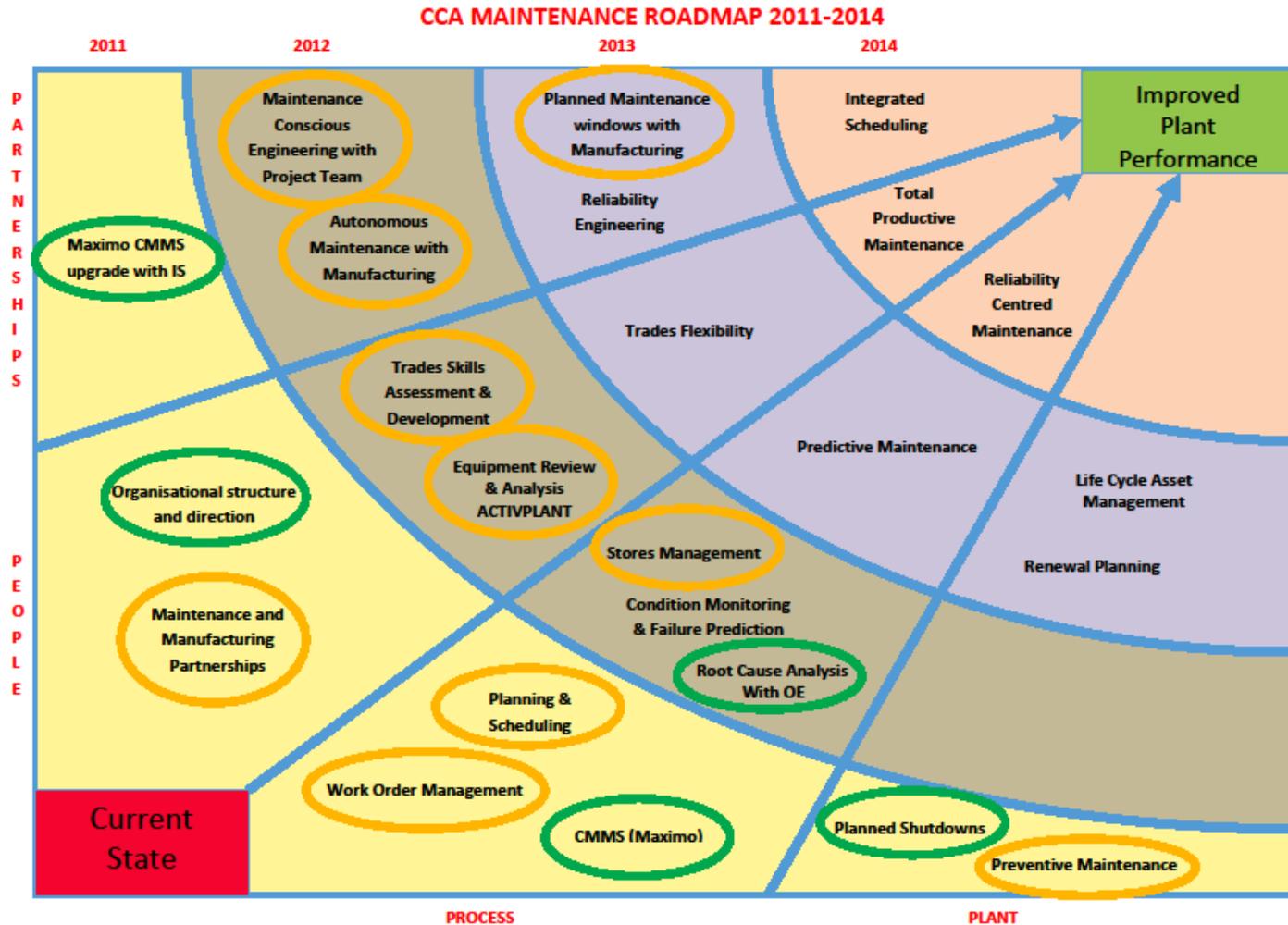


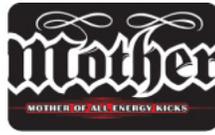
Next steps - Reporting

- Utilisation (Maximo) – correct information in records
- Utilisation (Trades)
- Embedded reporting



Progress to Date





Questions