



**UGS**

*Transforming the  
process of innovation*

# Teamcenter for Inventory and Order Management

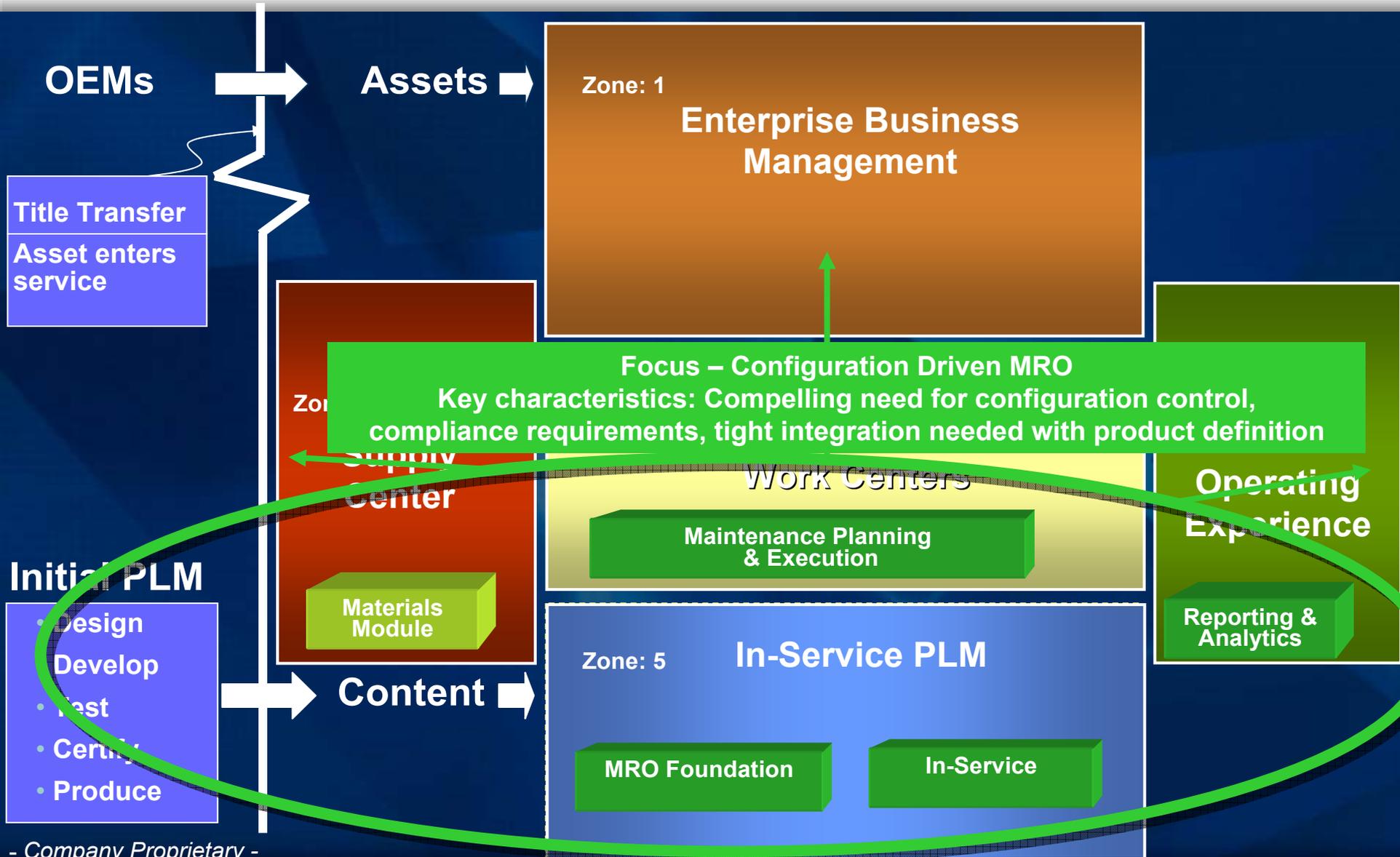
Chris Schrand  
Director, MRO Business Management  
PLM World 2006

**TEAMCENTER**



# What is the UGS MRO Solutions Set ?

## Teamcenter MRO Landscape





# Why Configuration Driven MRO ?

## Our Value Proposition for Inventory and Order Management



### 1. MRO Cycle Time Reductions

- Removing tasks from critical path
- Reducing times of tasks on critical path

### 2. Improved Asset Availability

- Reduced MRO Cycle Times
- Improved Predictive Maintenance

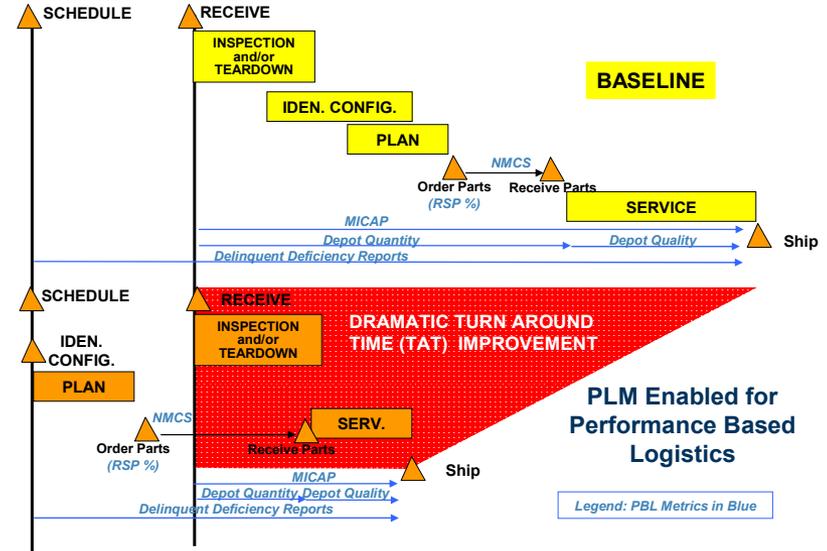
### 3. Improved Productivity

- Planning & Execution resources
- Reduced compliance costs

### 4. Improved use of Working Capital

- Turns Increase
- Better Tracking of what's available and lifing information
- Better usage of existing inventory
- Decrease costs by eliminating excess or obsolete inventory
- Better knowledge of available substitutes and alternates in the right context

### PLM Value in MRO Cycle Time



# Configuration Driven MRO



# Why Configuration Driven MRO ?



## Our Value Proposition for Inventory and Order Management

### 5. Improved Configuration Management and speed of Change

- Rapid, targeted incorporations of modifications and upgrades

### 6. More proactive & less reactive maintenance – learning organization

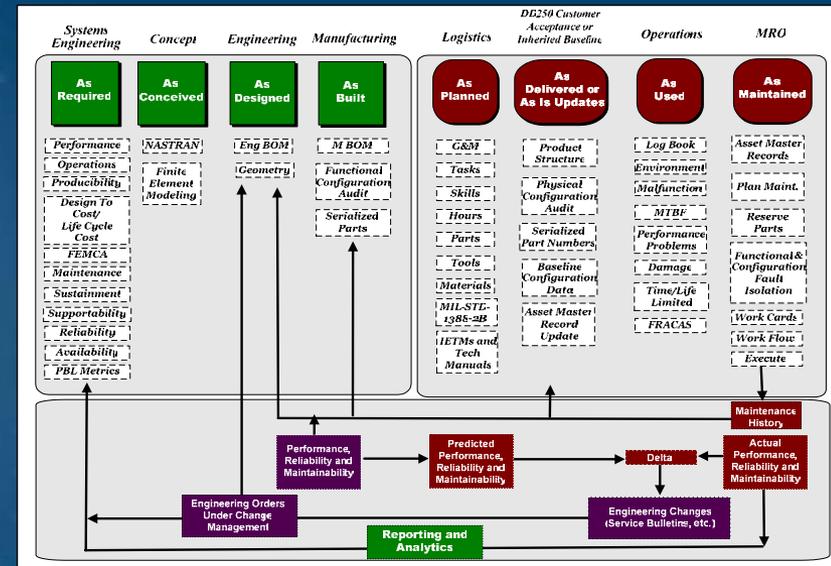
- Ability to analyze what is really effective/necessary
- Improved forecasting

### 7. Improved Quality of next generation product (DFM)

- Feedback loop, joining Engineering, Manufacturing, Logistics & Sustainment

### 8. Enables Service and Performance Based Contracts

- Demonstrate achievement of contractual metrics (component uptime, reliability, useful life)
- Ability to adjust maintenance and materials management based on analytics and contract
- Improved information on operational performance of components & equipment



# Configuration Driven MRO



# Configuration Driven MRO



In-Service

Maintenance Execution

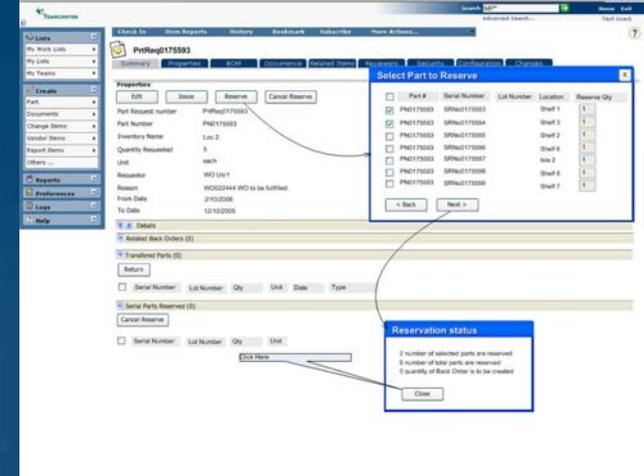
Maintenance Planning

Reliability Analysis

Materials Ordering

## Capability

- ▶ Identifies required materials based on configuration, usage and maintenance records; as well as valid alternates, substitutes and combinations
- ▶ Tracks parts, tools, & equipment inventories
- ▶ Part requesting & disposition
- ▶ Streamlines the receiving process for new parts and equipment
- ▶ Maintains precise regulatory compliance records





# Materials Management



## ▶ Inventory Control

▶ Inventory Structure (Locations)

▶ Catalog Part

▶ Min/Max, Costing, Surplus, Issue to Exhaustion

▶ COA (Chart of Accounts)

▶ Reserve, Issue, Return, Turn-in

▶ Part Disposition

The screenshot displays the TEAMCENTER Materials Management interface. The main window shows the 'Properties' tab for part PN0175593. A 'Create and Add Inventory Part' dialog box is open, showing the 'New Inventory Part : Properties' form. The form includes fields for Part Number (PN0175593), Inventory Location (Loc 2), Default Store Location (Shelf1), Units (each), Average Cost (155), Min Quantity (20), Max Quantity (5), Lead Time (Days) (1), and checkboxes for Obsolete and Issue to Exhaustion. The 'Inventory Parts' table below the dialog shows the following data:

Inventory Part Number	Location	Available Quantity	Min Qty	Max Qty	Avg Cost
PN0175593	Loc1	10	2	10	140

Annotations in the image include:

- A callout box pointing to the 'Create and Add' button in the 'Inventory Parts' table: "Click Here, to open the summary page of the Inventory Part"
- A callout box pointing to the 'Ok' button in the dialog: "Click Here, to Create Inventory Part"



# Materials Management



## Order Management

- ▶ Transactions that move parts in/out of Inventory
- ▶ Back Order (Stock Replenish/ Part Request)
- ▶ Purchase Order
- ▶ Transfer Order
- ▶ Repair Order
- ▶ Shipping and Receiving

The screenshot shows the TEAMCENTER interface for managing a Purchase Order (PO) with ID PO0175593. The interface includes a navigation menu on the left with sections like Lists, Create, Reports, Preferences, Logs, and Help. The main content area displays the PO details under the 'Properties' tab, including fields for PO Number, Vendor Name, Cage Code, Vendor Address, Contact Person, Tel. Number, Note, Order Status, and PO Date. Below the properties is a 'Details' section for 'Purchase Order Line Items (2)', which contains a table with columns for Part Number, Quantity, Unit, Price, Needed By, Shipping Location, BO Number, Quotation, and Status. Two line items are listed: one for part PNO175593 (quantity 10, price 1290.00) and another for PNO175594 (quantity 3, price 200.00). Below the table are sections for Receipt Note, Cancellation Orders, and Return Orders, each with a 'Create and Add' button. Callout boxes provide instructions: one points to the 'Send' button stating 'Click here. The status of TO will change to 'Sent'', and another points to the 'Edit' button stating 'Click here to edit Line Item Properties. User has to select a LI to edit it'.

**Properties**

PO Number: PO0175593  
Vendor Name: QWERTY  
Cage Code: 0123456  
Vendor Address: 123, Hinjwadi, Pune.  
Contact Person: Andre Agassi  
Tel. Number: 91-20-22930900  
Note: Shorter lead time  
Order Status: Open  
PO Date: 09/10/2005

**Details**

Purchase Order Line Items (2)

Part Number	Quantity	Unit	Price	Needed By	Shipping Location	BO Number	Quotation	Status
<input checked="" type="checkbox"/> PNO175593	10	each	1290.00	09/12/2005	Inventory10	BO0175593	QO0987654	Open
<input type="checkbox"/> PNO175594	3	each	200.00	05/08/2005	Inventory10	BO0175594	QO0987653	Open

Receipt Note (0)  
Create and Add

Cancellation Orders (0)  
Create and Add

Return Orders (0)  
Create and Add



**UGS**

*Transforming the  
process of innovation*

Demo

**TEAMCENTER**



**UGS**

*Transforming the  
process of innovation*

# Questions and Answer

**TEAMCENTER**