PLM EVENT – Inspired

University of Huddersfield

21st June 2016
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5 years of PLM & Consulting experience
Key PLM Engagements: George-Asda (U.K), Clarks Shoes (UK), Ecco Shoes (Denmark), Li-Fung (USA)
Agenda

- Typical product development process
- Industry pain points and challenges
- What is PLM and its concepts
- PLM capability framework
- Benefits of PLM
- Road ahead
Typical Apparel Product Development Process

1. Sketch
2. Line Boards
3. Yarn Selection
4. Textile Selection
5. Trim (Button/Zipper) Selection

6. Color Palette
7. Pattern Grading / Sizing
8. Cutting
9. Sewing
10. Testing
11. Wet Processing

12. Manufacturing
13. Quality
14. Finished Product
15. Logistics
16. Retailer/Consumer

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Some Problem Echoed?

- High Product Cost
- High Time to Market
- High Material Cost
- High cycle Time
- High Sampling cost
- Lower Resource productivity
- Multiple Versions Of Truth
- Limited Process Visibility
- Lack Of Control
- Decentralised Data
- Dispersed Supply Chain
- Multiple Stakeholders
- Effort Duplication

Bottom line
Top line
Margins
Market Share

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Multiple points of communication
- Limited process Visibility
- Not centralized
- Multiple versions
- Lack of control
- Dispersed Supply Chain
- Various Stakeholders
- Duplication of efforts
What is PLM?

Product life cycle management (PLM) is a philosophy, process and discipline supported by software for managing products through the stages of their life cycles, from concept through retirement.

– Gartner

Product lifecycle management is an integrated, information-driven approach to all aspects of a product’s life – from its design inception through its manufacture, deployment and maintenance, culminating in its removal from service and final disposal.

– University of Michigan, PLM Development Consortium

A strategic business approach that applies a consistent set of business solutions in support of the collaborative creation, management, dissemination, and use of product definition information across the extended enterprise from concept to end of life — integrating people, processes, business systems, and information.

– CIMData
What PLM Brings?

- PLM brings the 3Ps
  - People
  - Processes
  - Product Data

Together in the Product Life Cycle
What’s the Concept?

Facilities
- Workflow/Process Mgmt
- Document/Asset Mgmt
- Visualization
- Reports/Dashboards
- Enterprise Integrations

Modules
- Business/Season Planning
- Merchandise/Line Planning
- Product Specifications Management
- Product Sourcing/Costing
- Sample Management
- Materials Management
- Color Management
- Vendor Collaboration
# PLM and Beyond …

## PLM Capability Framework

<table>
<thead>
<tr>
<th>Plan</th>
<th>Concept</th>
<th>Design</th>
<th>Develop</th>
<th>Source</th>
<th>Produce</th>
<th>QA &amp; Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line Planning</td>
<td>Concept Development</td>
<td>Design Creation</td>
<td>BOM Management</td>
<td>Basic Supplier Management</td>
<td>Integration to ERP</td>
<td>Test Specifications</td>
</tr>
<tr>
<td>Advanced Line Planning</td>
<td>Color Palette Management</td>
<td>Product Mgmt</td>
<td>Specification Management</td>
<td>Vendor Portal/ RFQ</td>
<td>Integration to E-commerce</td>
<td>Vendor Compliance</td>
</tr>
<tr>
<td>Global Buy Table</td>
<td>Inspirations and Themes</td>
<td>Colorway / SKU Creation</td>
<td>Construction Management</td>
<td>Costing</td>
<td>Production Order Tracking</td>
<td></td>
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<td></td>
<td></td>
<td>Sample Management</td>
<td></td>
<td></td>
<td>Vendor Performance Management</td>
<td></td>
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<td></td>
<td></td>
<td>Color Definition</td>
<td></td>
<td></td>
<td>Primary Material Aggregation</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Material Definition</td>
<td></td>
<td></td>
<td>Advanced Sourcing</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Line Sheets / Boards</td>
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- **Calendar Management**: Workflow, Product Tracking, Reporting, Integration, Supply Chain Collaboration
- **Business Intelligence / Style Performance Analytics / Mobility**

- **Standard Capabilities**
- **Advance Capabilities**

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## Advance Capabilities

<table>
<thead>
<tr>
<th>Style Performance Analytics</th>
<th>Material Aggregation</th>
<th>Flex PLM Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable Smarter decision making by predicting Fashion</td>
<td>Unlock hidden inefficiencies in material sourcing</td>
<td>Pre-configured FlexPLM Reports</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Factory compliance &amp; Product Testing</th>
<th>Vendor Scorecard</th>
<th>Mobility Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manage vendor compliance, audit &amp; tracking</td>
<td>Ensures current, consistent &amp; accurate information about vendors</td>
<td>Approve tasks, upload pictures, mass approve/reject samples on the go via mobile app</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production Order Tracking</th>
<th>Global Buy Table</th>
<th>Advance Sourcing for Apparel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Real time Status of orders in factories</td>
<td>Unifies Forecast Information and addresses multi-region buyer requirement</td>
<td>High degree of collaboration with Vendor. Lets the organisation focus on Core areas.</td>
</tr>
</tbody>
</table>
PLM is a Source of Competitive Advantage

- **Best-Price from Best Source**
  - Multiple Factories/Multiple Costing Scenarios

- **Single-Version of Truth**
  - Coordination among various players;
  - Better Quality Products & Knowledge Mgmt

- **Speed-to-Market**
  - Reduced Lead Time by 50-60%

- **Enhance Adoption Rate**
  - Saving in cost & resources up to 50%

- **Well Defined Roles & Responsibilities**
  - Security Enabled, User Specific Task Allocation

- **Re-usability**
  - Libraries, Document Management

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## PLM can help you generate ROI

<table>
<thead>
<tr>
<th>Expectations</th>
<th>Delivered</th>
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<tbody>
<tr>
<td>Reduced Product Development Time</td>
<td>24% to 31% Improvement</td>
</tr>
<tr>
<td>Reduced Total Lead Time</td>
<td>7% to 19% Improvement</td>
</tr>
<tr>
<td>Material Cost Reduction</td>
<td>3% to 5% Improvement</td>
</tr>
<tr>
<td>Reduced Approval Timeline</td>
<td>Upto 5% Improvement</td>
</tr>
<tr>
<td>Improved Time To Market</td>
<td>17% to 31% Improvement</td>
</tr>
<tr>
<td>Improved Overall Margin</td>
<td>7% to 19% Improvement</td>
</tr>
<tr>
<td>Reduced Inventory</td>
<td>3% to 25% Improvement</td>
</tr>
<tr>
<td>Reduction In Redundant Tasks</td>
<td>15% to 30% Improvement</td>
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*Source: Kurt Salmon and Gartner*
Road Ahead - Planning and Readiness Assessment

Planning

Review company’s vision, business strategy and goals

- Evaluate PLM software solution
- List business requirements and define PLM strategy
- Define operational metrics and targets for improvement (ROI etc.)

Document product lifecycle Process

- Assess effectiveness of your product development process
- Document product lifecycle

Assessment

Infrastructure Assessment

- Adequateness of the current technology
- Scalability of the technology
- Openness to the technology

Current system and application assessment

- Flow of information – System Architecture
- Systems need to be integrated
- Systems to be replaced by PLM

Business Process Assessment

- Mapping of current processes / People
- Pain points and Challenges
- Business expectation from PLM

People assessment

- Openness to accept new system
- Timing of the new system

Planning Review company’s vision, business strategy and goals

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