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Radicalising your Lifecycle’s full potential with PLM

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PLM EVENT – Inspired
University of Huddersfield
21st June 2016
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Fellow of the Higher Education Academy, a member of the Chartered Management Institute and an Associate of the Textile Industry
18 years experience in the clothing industry
Technical and Sourcing Manager
Joined UoH 2009

Vivek Mani – Principal Consultant

10 years of experience in Retail Industry in merchandising, marketing, sourcing and vendor management
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

4-8 Seasons
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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Complex Apparel Value Chain

- 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>
</tr>
<tr>
<td></td>
<td></td>
<td>Sample Management</td>
<td></td>
<td></td>
<td>Vendor Performance Mgmt</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Color Definition</td>
<td></td>
<td></td>
<td>Primary Material Aggregation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Material Definition</td>
<td></td>
<td></td>
<td>Advanced Sourcing</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Line Sheets / Boards</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### Standard Capabilities
- Calendar Management
- Workflow
- Product Tracking
- Reporting
- Integration
- Supply Chain Collaboration

### Advance Capabilities

- Business Intelligence / Style Performance Analytics / Mobility

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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%

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

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

- Re-usability
  - Libraries, Document Management

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PLM can help you generate ROI

<table>
<thead>
<tr>
<th>Expectations</th>
<th>Delivered</th>
</tr>
</thead>
<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>
</tr>
</tbody>
</table>

*Source: Kurt Salmon and Gartner*
Road Ahead - Planning and Readiness Assessment

Planning

- Review company’s vision, business strategy and goals
- Document product lifecycle Process
- Evaluate PLM software solution
- List business requirements and define PLM strategy
- Define operational metrics and targets for improvement (ROI etc.)
- Assess effectiveness of your product development process

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

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