Oracle Augmented Business Visualization
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Safe Harbor Statement

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Oracle’s Perspective on Visualization

Document agnostic, multi-disciplinary processes

Need to contribute to business transformation

Integrate with any part of the stack

Challenge of synthesizing structured & unstructured data
Oracle AutoVue Enterprise Visualization
Capitalize on Information to Drive Business Transformation

Best-in-Class Document Visualization
• Industry leading visualization technology which renders virtually any document type
  • Images, Office, 2D CAD, 3D CAD, ECAD, PDF, etc.
• Advanced document analysis, digital annotation, and collaboration capabilities
• No authoring tools or conversion process required

Open, Standards-Based Integration Framework
• AutoVue integration to any enterprise system to render documents in the context of a business process (Visual applications)
• Visualization services engineered to work with Oracle and non Oracle solutions
• Flexible and extensive web-services based integration framework to deliver specific visualization services

Augmented Business Visualization (ABV)
• Framework to create bi-directional, actionable links between parts of documents and ERP data
  • Dynamically display business data from enterprise apps and ERP in the context of visual information
  • Highlight trends, status and important elements in visual color coded reports
  • Trigger actions in ERP and enterprise applications from documents
Complete Enterprise Visualization Platform
Visually Connecting Data Foundation & Enterprise Applications

- Product/Project Development
- Manufacturing/Construction
- Order / Sales Mgt
- Operation & Maintenance
- Aftermarket Sales & Service

Application Layer: PLM, PPM, ERP, MES, Configurator, ALM, CRM…

Enterprise Visualization

CAD Connectors

Social Collaboration & Web Portals

Integration Framework: BPEL, AutoVue Integrations, Applications Connectors

Common Data Repository: Content Mgt, PLM, Records Mgt
AutoVue’s Play in Key Target Markets

<table>
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<th>EHT Manufacturing</th>
<th>Energy (Owners &amp; Operators + EPC)</th>
<th>Public Sector</th>
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<td>Product Design</td>
<td>Capital Project Performance</td>
<td>Building e-Permitting</td>
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<td>Engineering/Development</td>
<td>Asset Maintenance &amp; Reliability Management</td>
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<td>Commissioning &amp; Handover</td>
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Augmented Business Visualization

Augmented Business Visualization
Integration Framework

Data Repositories
- Document Mgt
- Suppliers
- EDW
- Legacy Info
- Database
- Other...

Enterprise Computer
Printouts
Mobile Devices

Enterprise Applications
- ERP
- PLM
- ALM
- Projects
- CRM
- EDW
- Legacy Info
- Database
- Other...

- Completely platform-agnostic (Oracle, SAP, IBM, …)
- High transformational effect on business processes
  - Carry business context over into visual representation of assets / products
  - Facilitate decision making and improve business performance
Augmented Business Visualization
Trigger Actions in ERP Systems Directly from Documents
Augmented Business Visualization

Surface ERP Information into Interactive Visual Reporting
Augmented Business Visualization

• Dynamically display asset or project information in the context of drawings

• Trigger actions from documents

• 3D parts become hotspot links, based on metadata attributes, such as ‘asset id’
Augmented Business Visualization
Facility Management

Solutions

• Facilitate decision making by presenting facility information in its visual context
• Identify trends or actions to be taken within the next few weeks/months
• Initiate various actions in the facility management system from this visual environment
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Hardware and Software
Engineered to Work Together
Digital Punch Lists for Faster Facility Reviews
Color-based Visual Reports Identify Open vs. Complete Punch List Items
Visually Enable the Mobile Workforce

Provide mobile users with in-context access to visual information.