PL2772-P - Beyond (Traditional) PLM

Michelle Stone Product Manager, PLM 360 Kevin Robinson
Business Development Manager





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- The information we will be sharing is highly confidential, and is to be shared within your company on "need to know basis" and to no one outside your company.



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Your Instructors



Michelle Stone Product Manager, PLM 360

Michelle is a Product Manager with Autodesk® PLM 360 working out of Autodesk office in Lake Oswego, OR. She is focused on managing the development of PLM Business Process Applications and helping customers expand their use of Autodesk PLM solutions to help drive greater return-on-investment and process improvements.

She enjoys sharing product knowledge and expertise with the community via Twitter (@stoneformation), Facebook, blogging, and the PLM Talk webinar series.



Kevin Robinson Business Development Manager

For more than 15 years, Kevin Robinson has been absorbing, applying and evangelizing CAD/PDM/PLM technologies as an end user, administrator, manager, technical support, trainer, consultant, demo guy, marketing, and sales engineering.

Kevin has helped customers to realize their potential by creating technology awareness, discovering needs, collecting requirements and providing technical proof that investing in technology will help them become successful in meeting those needs.

Here at Autodesk, Kevin is currently responsible for the Autodesk Vault Business worldwide.



Your Instructors' Schedules



Michelle Stone



Kevin Robinson

Time	Event
Tuesday 1:30 pm	Autodesk® PLM 360: The Bits and Pieces
Tuesday 3:00 pm	Start Spreading the News: Notifications in Autodesk® PLM 360
Wednesday 1:00 pm	Beyond (Traditional) PLM
Wednesday 2:30 pm	Project Management 101 with Autodesk® PLM 360

Time	Event
Tuesday 11:30 am	360 Lounge
Wednesday 11:30 am	360 Lounge
Wednesday 1:00 pm	Beyond (Traditional) PLM
Thursday 11:30 am	360 Lounge



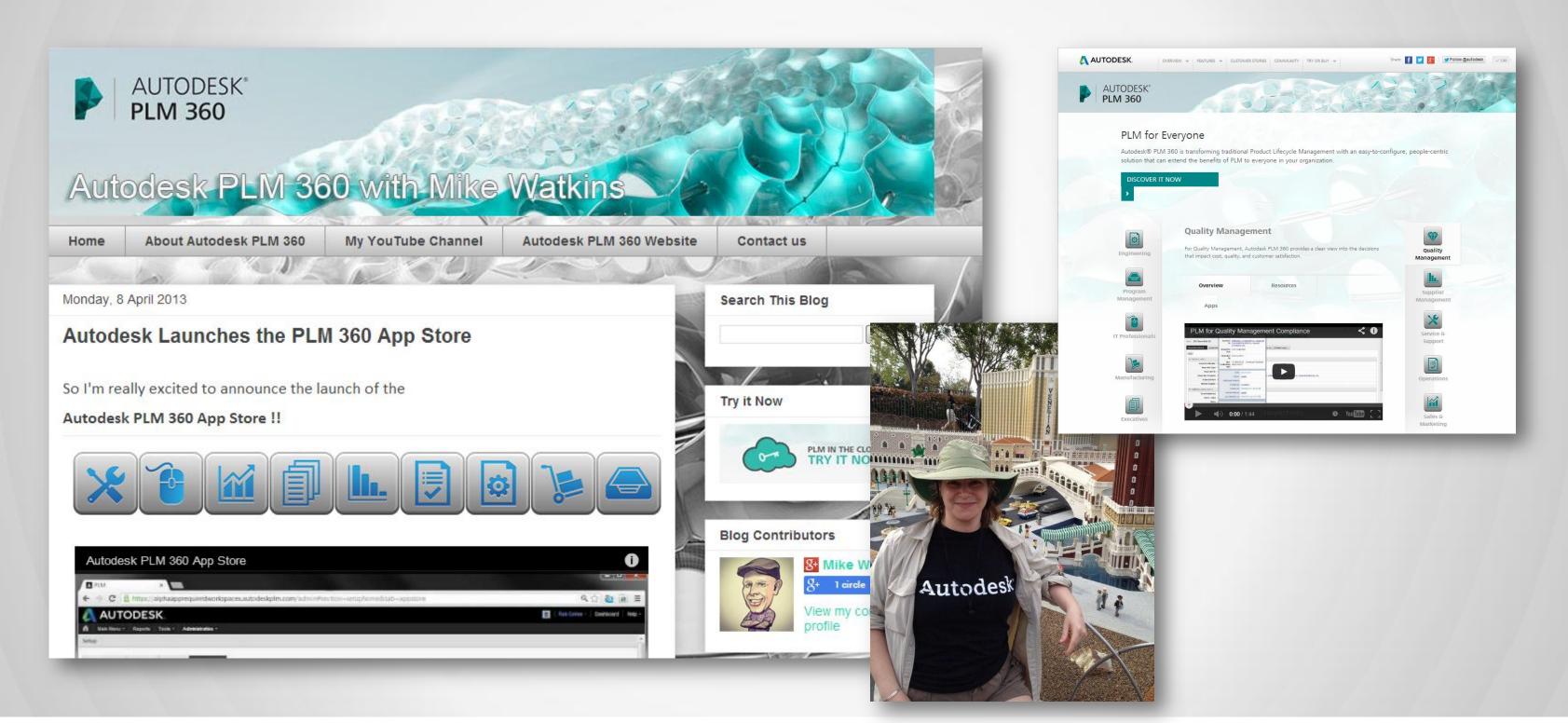
PLM 360 Power Track – Where Have you Been? Where are We Going?

- PLM 360 The Bits and Pieces!
- Workspace Features in Autodesk PLM 360 Standard Solutions
- BOM Management with PLM 360 Configuration Management
- Beyond (Traditional) PLM
- PLM 360 Automation Solutions with Scripting

Class summary

- Many projects using traditional PLM software never make it past CAD data management and outside of the engineering department.
- Autodesk PLM 360 has benefits for everyone in your organization, not just engineering!
- Learn more about the preconfigured apps that come with PLM 360 for areas like quality management, procurement, manufacturing asset management, sales and marketing, service and support, and more.

Inspiration





Autodesk Uses PLM 360

- Consulting Engagements
- ✓ Market Surveys
- Marketing Assets
- ✓ Partner Certification
- ✓ PLM App Development
- ✓ Program Management
- ✓ Software Development
- ✓ Tenant Management
- ✓ Training and Logistics
- ✓ Vendor Management



"The ability to put everything related to the PLM 360 business in one tool that's flexible enough to meet every department's needs and manage process changes as they arise is something we've never had before."

Brian Roepke

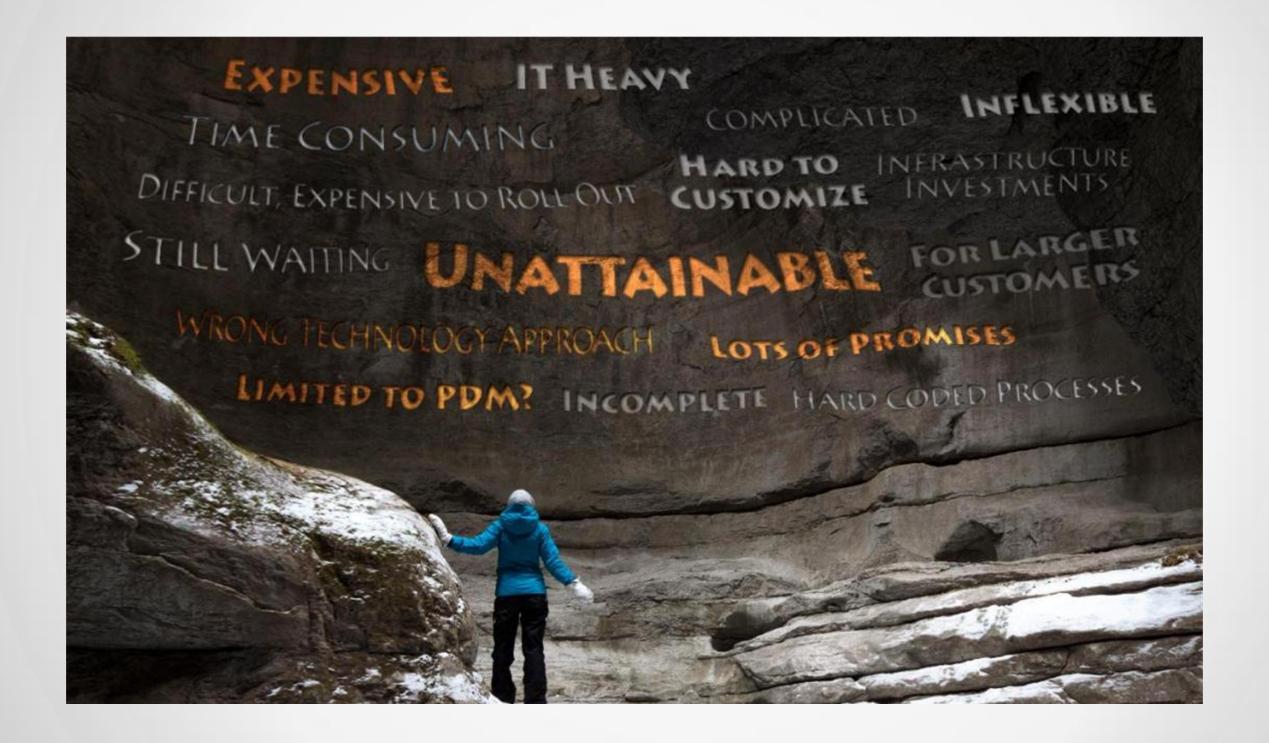
Director of Product Lifecycle Management and Data Management

Autodesk, Inc.



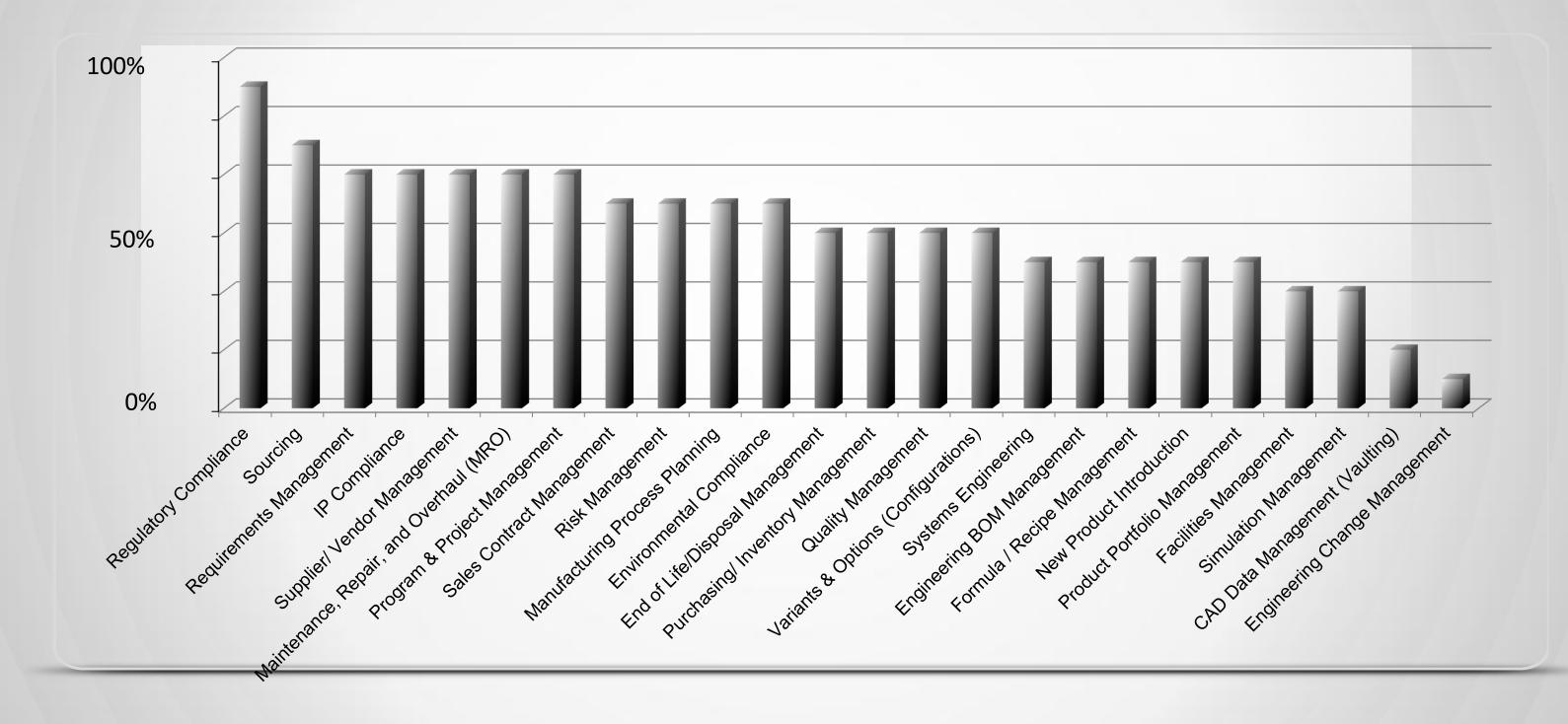


PLM has traditionally been...



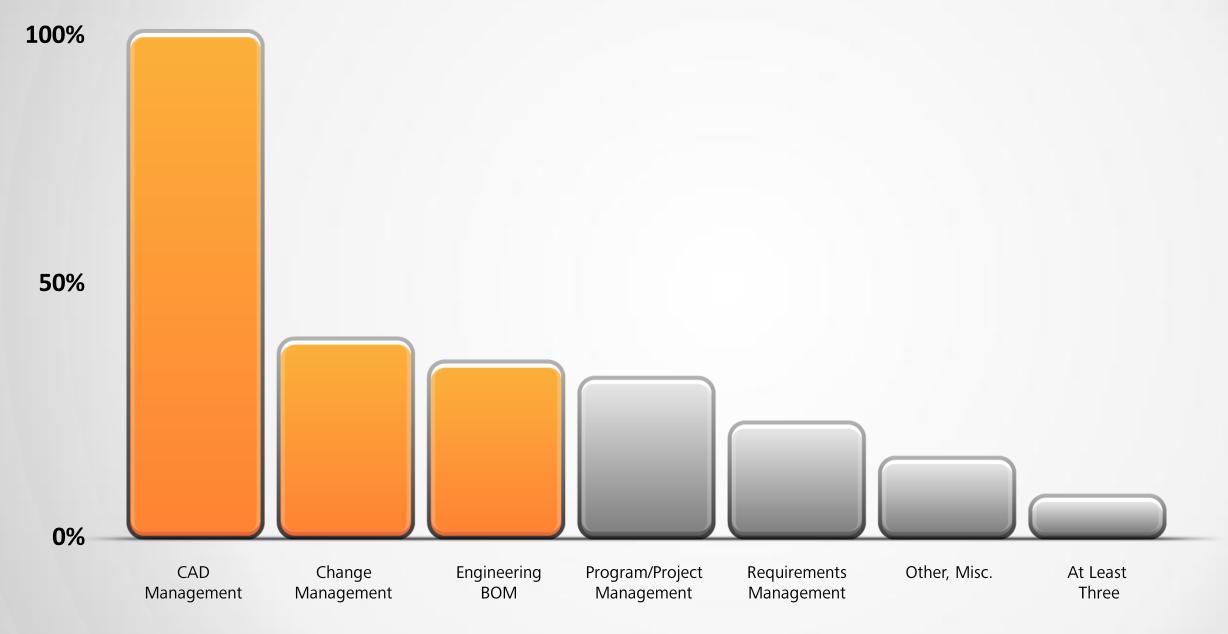


Customers are looking to PLM to help...





The Result Limited to only an engineering solution



PLM Capabilities Implemented

Source : PLM Community Study







PLM for Everyone



Apps for Everyone



Program Management

- Project Management
- Project Costing
- New Product Introduction
- Tasks
- Requirements



Engineering

- Items and BOMs
- Change Request
- Change Orders
- Material Specifications
- Design Review



Supply & Procurement

- Suppliers
- RFQ
- Warranty Recovery



Quality

- Inspections
- Non Conformances
- Corrective / Preventative Actions
- Audits
- Procedures, Guidelines, & Specs
- Document Change Order



Asset Management

- Equipment Library
- Equipment
- Equipment Service Request



Sales & Marketing

- Customers
- Sales Quotes
- Marketing Assets



Service & Support

- Service Request
- Return Merchandise Authorization

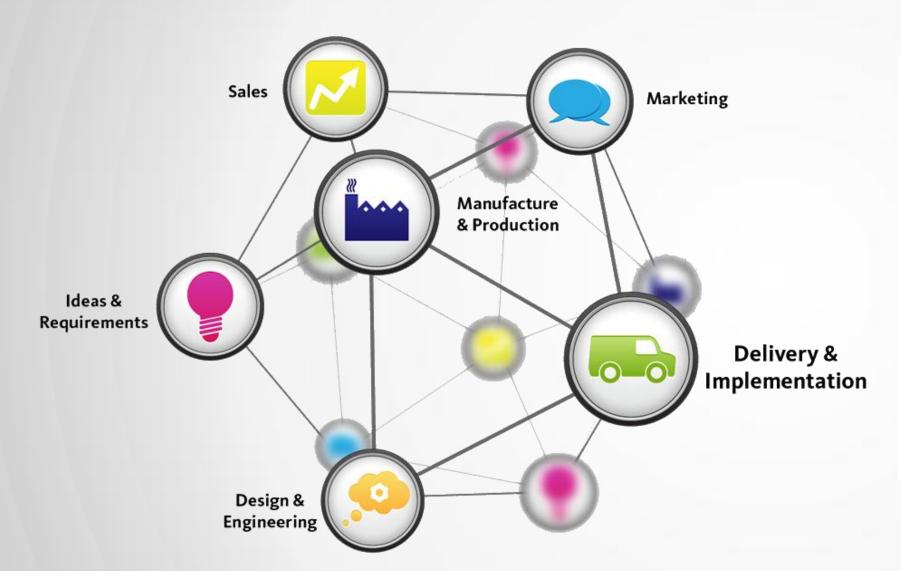


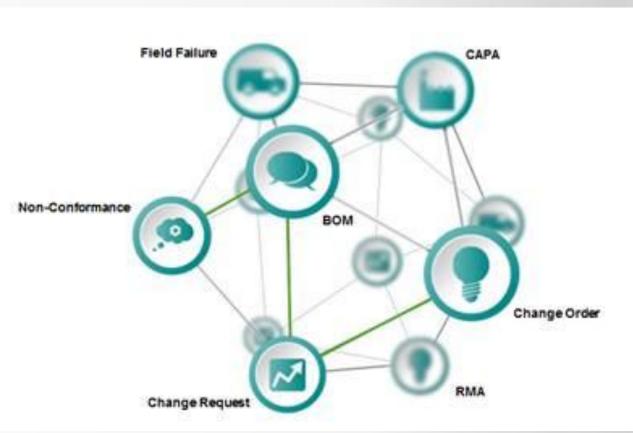
Classification & Reference

- Approval Lists
- ISO9001 Sections
- Material Properties
- Inspection Templates



Access to all applications...

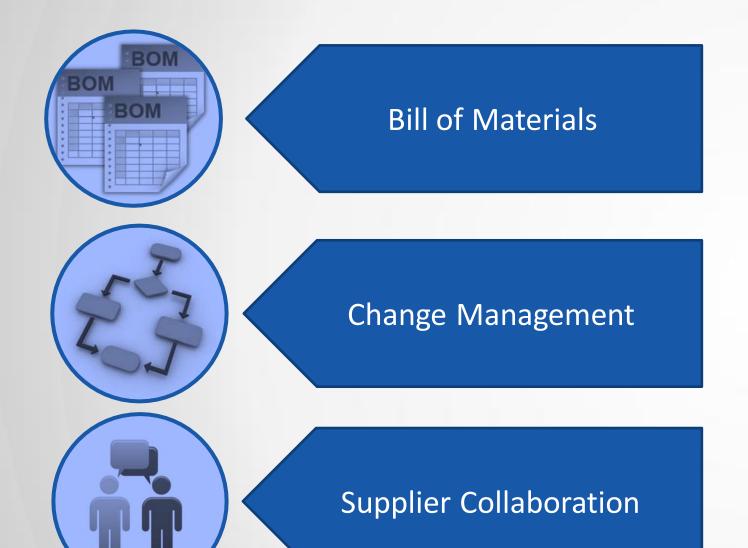






Core PLM

Expanding the PLM Footprint







Use Cases for Program Management

- New Product Introduction/Development
- Enhanced Change Management Controls
- Project Governance via Roles
- Metrics and KPI collection/reporting
- General Project Management
 - IT/Marketing/Procurement
- Schedule Variance via Baselines



#1 factor for company growth: New Products







Hard Facts

86% of new product ideas never make it to market

50-70% of new product introductions fail

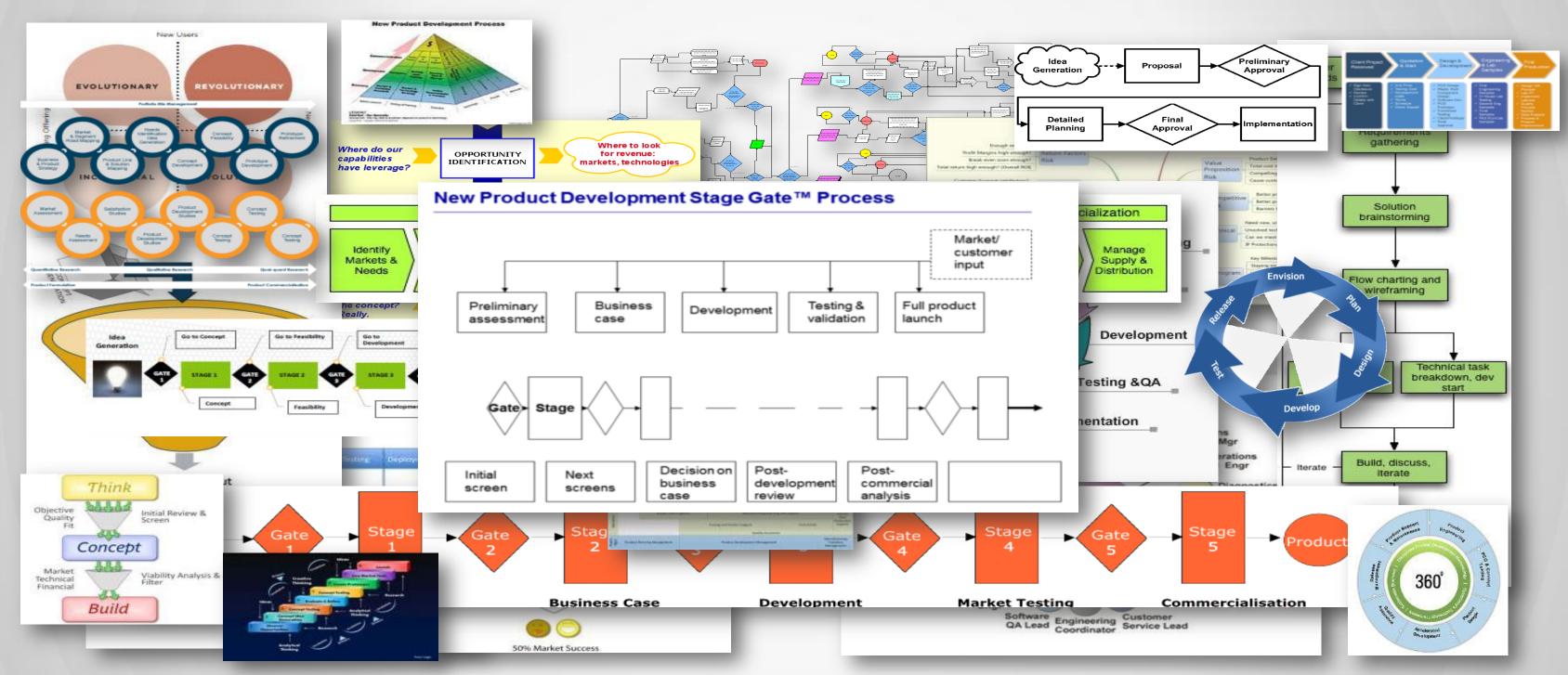
Almost half of development projects fail to meet objectives

The top 25% performing companies achieve **2.5** times performance of the bottom 25%





What do your NPI processes look like?

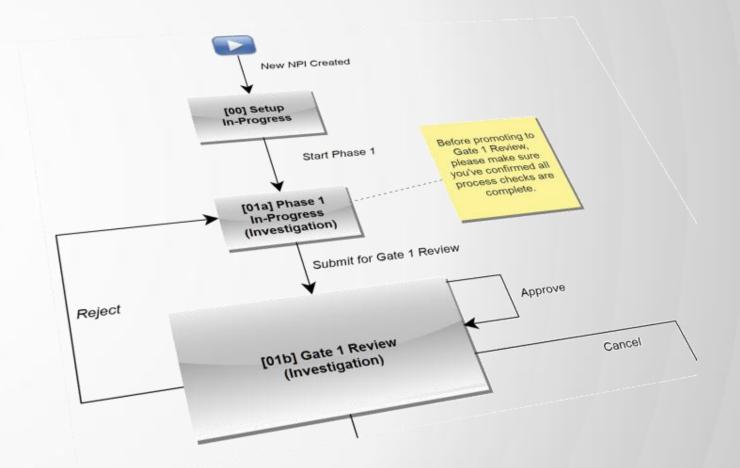




Drive Consensus & Manage Decisions

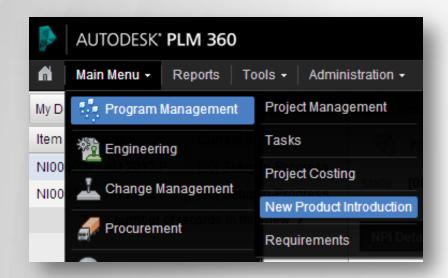
Plans, decisions & commitments discussed, recorded, tracked & managed

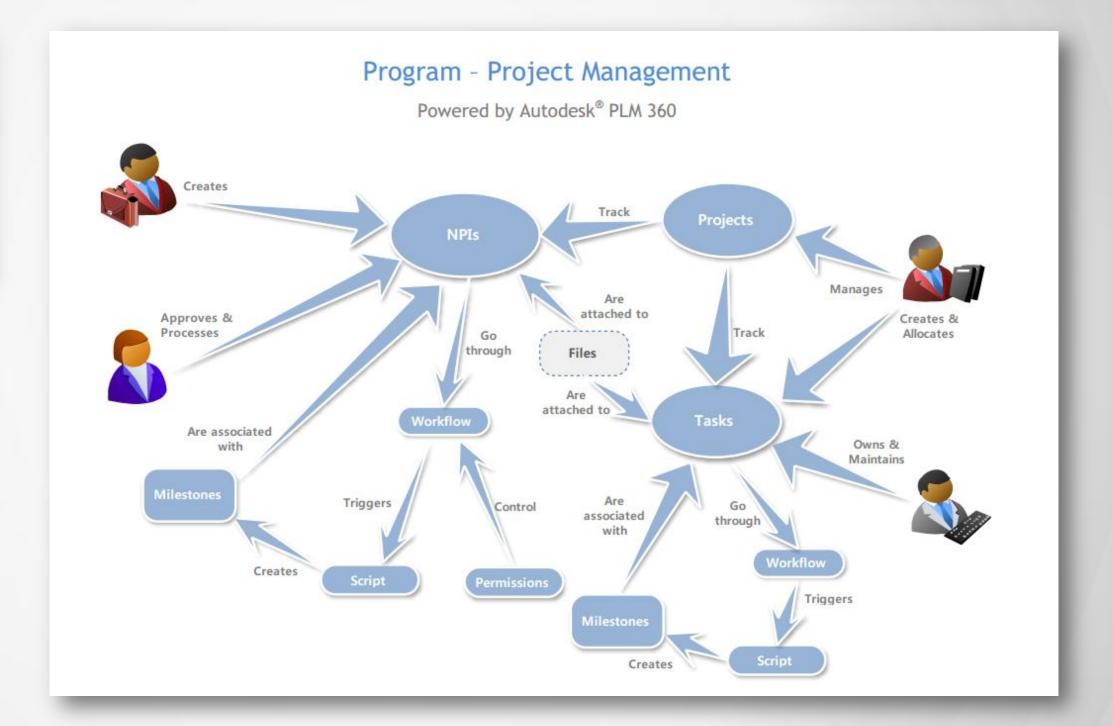
- Formally define the business initiatives you need to be successful
- Create & share business plans everyone can follow to drive success across all key program phases
- Record assumptions, justifications, plans, requirements, issues & stakeholders
- Clearly drive commitment & execution





Program Management

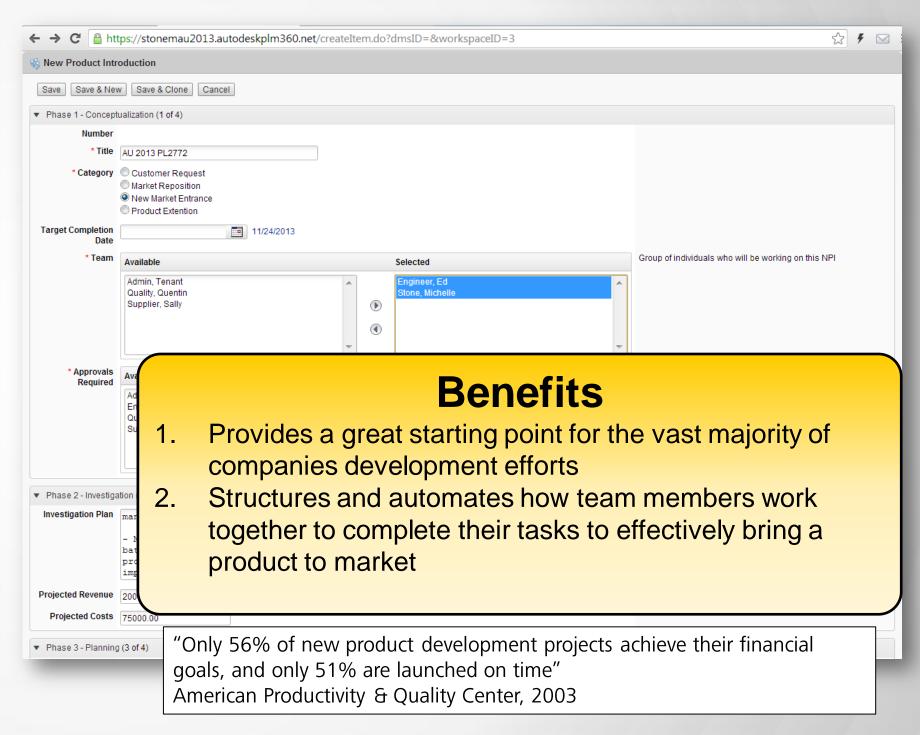






New Product Introduction

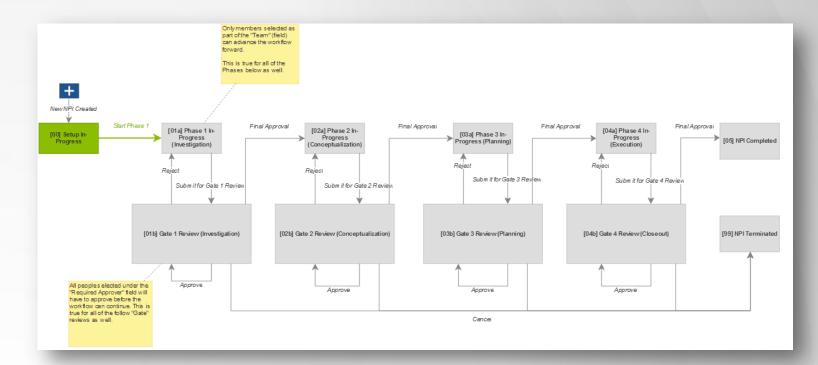
- Define the details and requirements for a New Product Introduction
- Automatically create Key Milestones to track progress
- The NPI workspace is available to everyone
- Sometimes called NPI, NPD, or NPDI





Stage Gate Management

- One of the most common methods to drive NPI
- Define a workflow process that determines the status of the Item and\or Project
- Use Stage Gates within the workflow process to ensure decisions are made and information is captured proactively
- Stage Gates provide a mechanism to track % complete



Benefits

- 1. Provides a great starting point for the vast majority of companies development efforts
- Structures and automates how team members work together to complete their tasks to effectively bring a product to market

Successful products have a much sharper definition prior to development and are 3.3 times more likely to succeed, have higher market share and are more profitable

Cooper, Inventor of the Stage Gate System, 1987



Milestones

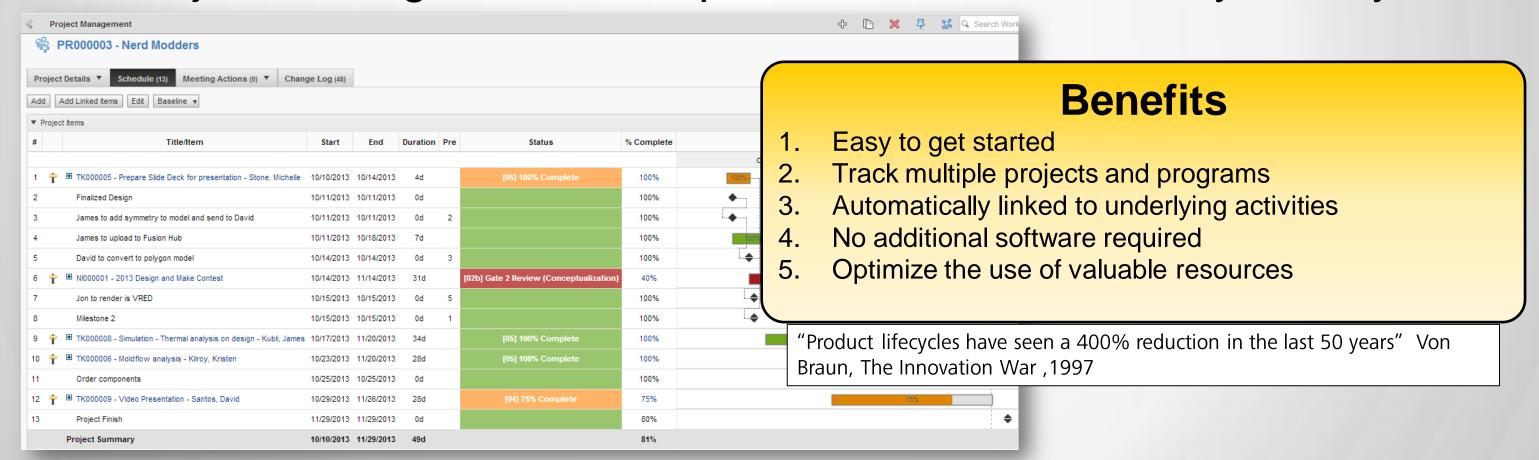
- Milestones can be added to an Item to provide date based targets and progress based on workflow actions
- Flags indicate when an Item is on\off target
- Percentage & date targets are rolled up to the Project Management workspace



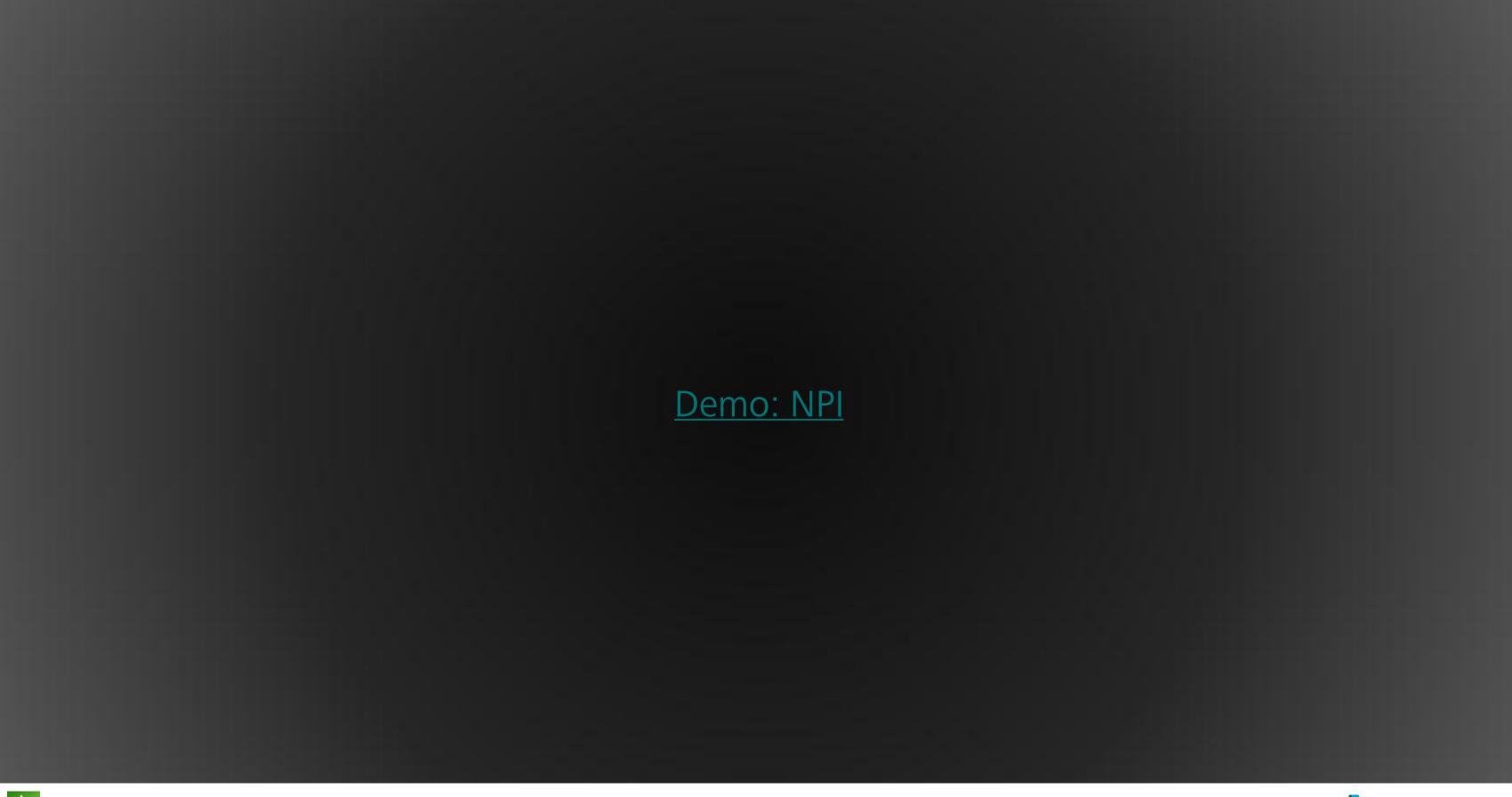


Project Management

- The Project Management workspace brings all items of a project into one easy to manage area where users can track % complete, project status and timeline
- The Project Management workspace is available to everyone, by











Use Cases for Quality Management

- Closed Loop Inspections/Non-Conformance/CAPA
- Regulatory Compliance (FDA, FAA, etc.)
- Supplier Quality
- Audit Trail
- Sample/Prototype/Test Tracking





Customers Care About...

Specification – what can I expect?



Cost – how much will I have to pay?

Conformance – will it do what I expect?

Reliability – will it continue to do what I expect?

Delivery – when can I have it?

How does your organization meet customer expectations?



Quality Costs

Appraisal costs – costs of inspection & associated activities



Prevention costs –implementing, designing& maintaining a QMS



Costs of Non-Conformance

Internal failure costs – work fails to reach a required standard – re-work etc

External failure costs – poor-quality goods reach the customer - potentially most damaging

Costs of exceeding requirements – specification goes beyond what a customer wants

What is the cost of quality to your organization?





Quality Standards, Systems and Procedures

TQM:

Changing attitudes – commitment to quality in the beliefs & values of all in org

Quality assurance:

Preventing problems from arising – reactive approaches. Quality planning tools

Quality control:

Use statistical techniques, data. Create manual, increase employee involvement

Quality inspection: testing & inspecting finished goods – either approved or rejected

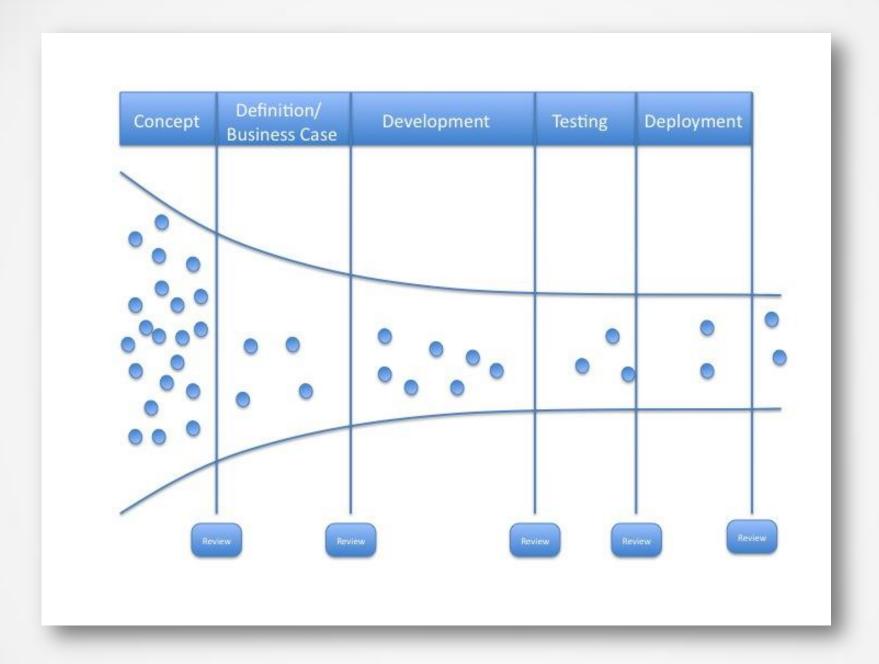
Source: Dale & Hooper – 4 stages

What standards, systems and procedures are in place today?





Quality and New Product Introduction (NPI)

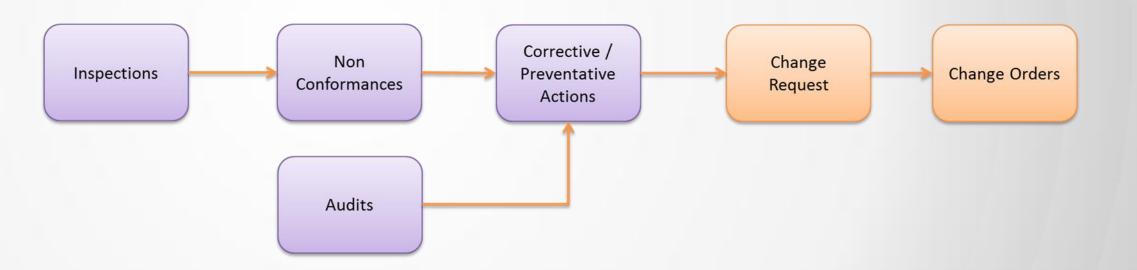


Where does Quality Management fit in your product's lifecycle?



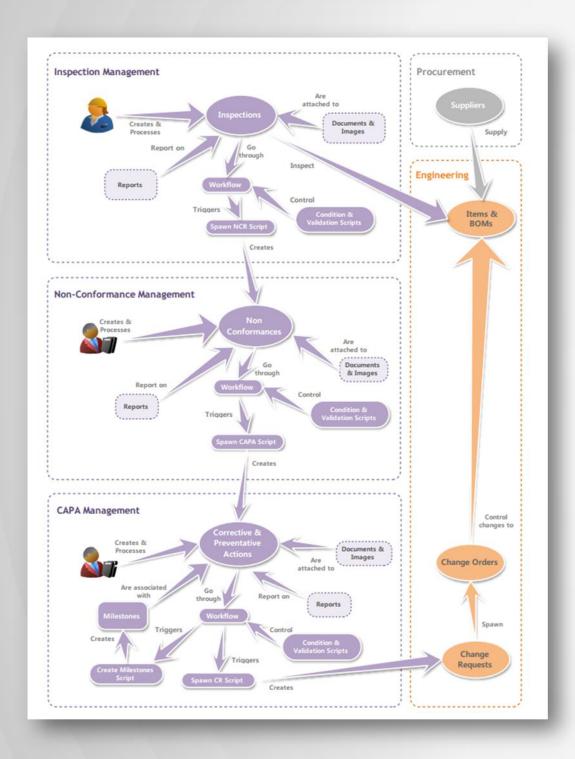
Quality Management

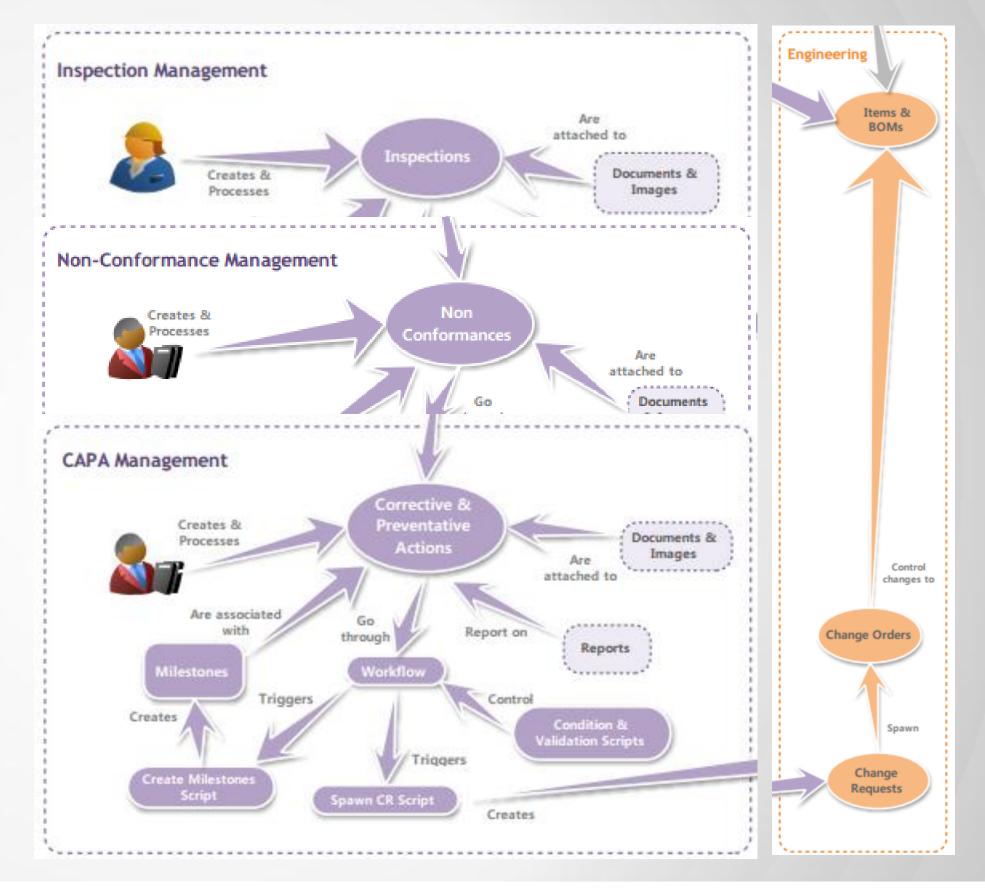






Concept Map









Demo: Quality Management





Use Cases for Asset Management

- Facilities/Equipment Lifecycle
- Maintenance/Calibration Schedules
- Manufacturing
 - Tooling, Fixtures, Processes
- As Built/As Maintained





How do your R&D, Process engineering & facilities need to interact?











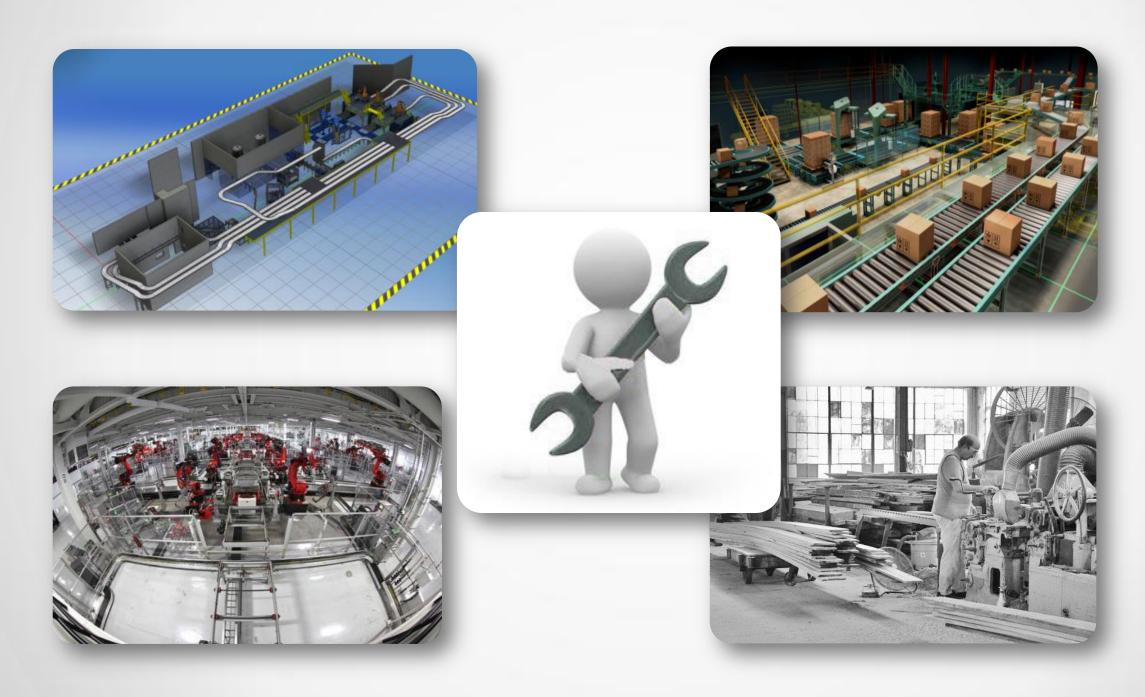








How do you optimize the use of your assets, equipment & facilities?





Integrate Process, Equipment & Facilities

Process, equipment and facility design linked to operational excellence, from the start

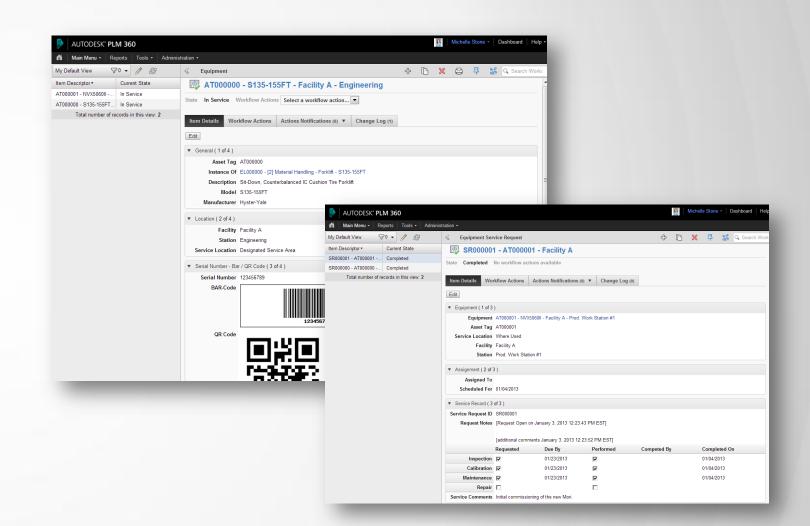
- Reconcile design information from process, equipment & facility and commission into a single view
- R&D, Engineering &
 Manufacturing can collaborate more closely than ever before
- Track issues & drive resolution, before they become problems on site



Manage assets & facilities

The specification, construction, commissioning, operation, repair, replacement and decommissioning of assets & facilities

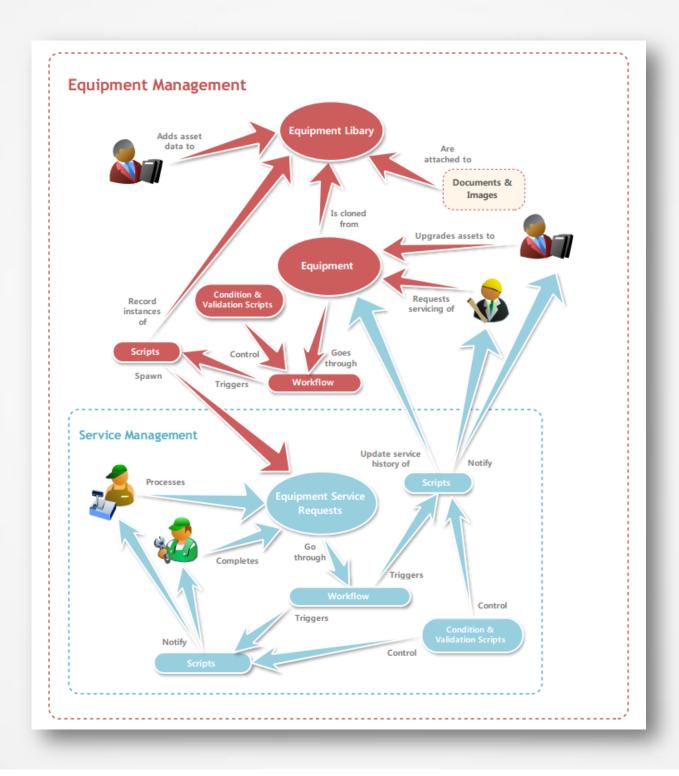
- Define & specify operational requirements, procedures, calibration & maintenance
- Track & manage corrective, scheduled & preventative maintenance





Equipment/Service Management







Demo: Asset Management





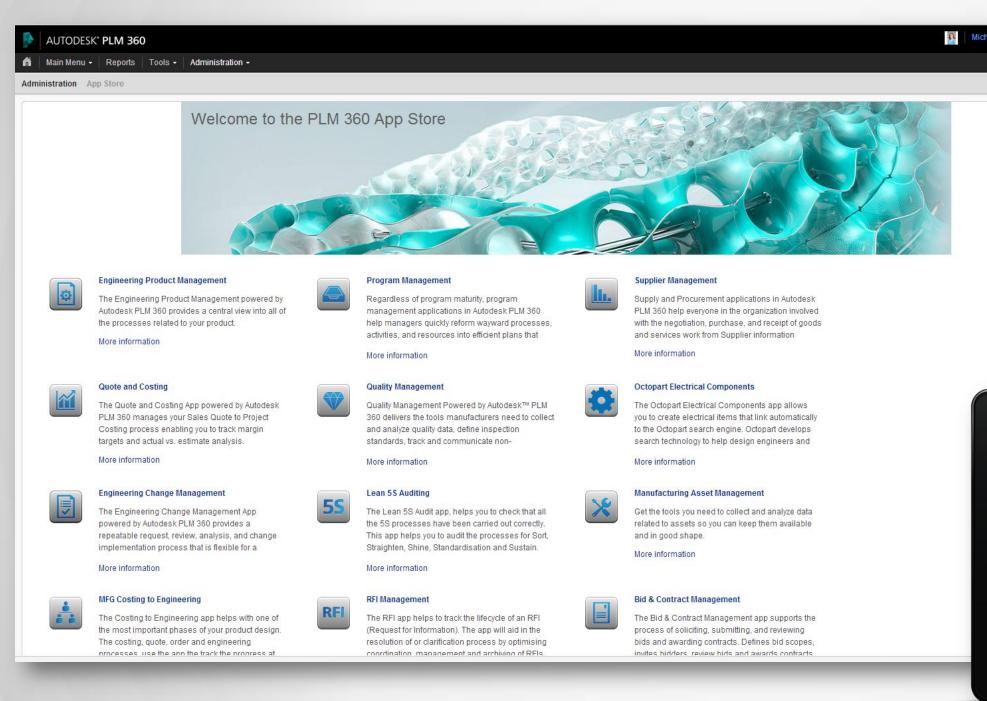
Use Cases for PLM 360 App Store

- Expand Footprint of PLM 360
- Accelerate Implementation
- Facilitate Deployment
 - Autodesk Services Implementation Tracker
- Incorporate New Functionality
- Explore Possibilities

Future: Upload and Share Solutions



Welcome to the PLM 360 App Store











Why did you come to #au2013?





Other Classes You May Be Interested In

wednesday

4

BO2858 – One small Step for Man, One Giant Leap for Autodesk® PLM 360 Implementation: Sprint to the Finish

L 2:30 − 3:30 PM − Lido 3104

wednesday

4

PL2758-P - Autodesk® PLM 360 Automation Solutions with Scripting

L 4:00 − 5:00 PM − Lido 3103

thursday

5

PL2760-L – Autodesk® PLM 360 Developer's Delight: A Hands-on PLM 360 Scripting Overview

L 8:00 − 9:30 AM − San Polo 3501

thursday

5

PL2024 - Choosing Autodesk® PLM 360: A Customer Perspective

L 1:00 − 2:00 PM − Lido 3006

Additional Resources for this class

- PLM 360 App Guides
 - See 'Additional Materials' for this class
 - Concept Maps
 - Comprehensive app guides
 - Program-Project Management
 - Quality Management
 - Manufacturing Asset Management
 - Change Management
- PLM TV





Resources Available for PLM 360

- PLM TV
- PLM 360 Forum
- Under the Hood Blog
- Autodesk® PLM 360 with
 Mike Watkins
- PLM 360 Home Page
- Help
- Subscription Center for Technical Support



Learn more about Autodesk 360 Platform

- Visit the Autodesk 360 Lounge for a demo
- Drop by the Autodesk 360 Platform Pavilion, Booth 1505 to view what our Partners have created



For more details visit: http://www.autodesk.com/A360platform

Also visit NetSuite, Booth 1516







Questions





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