

PLM SEGMENT UPDATE AND ROADMAP

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AGENDA

- ☐ Industry Challenges and PLM Trends
- □ PTC Windchill 11 Smart Connected PLMTM
- □ PLM Roadmap
- ☐ Taking a Fresh look at PLM

INDUSTRY CHALLENGES



Leveraging the Internet of Things Requires a New Product Development Approach









Design for the Internet of Things

Design for the unique needs of IoT-enabled products

Offerings

Deliver competitive capabilities and apps to customers

Leverage IoT Data Across Roles

Deliver the data returning from IoT-enabled products

Improve Ability to Compete

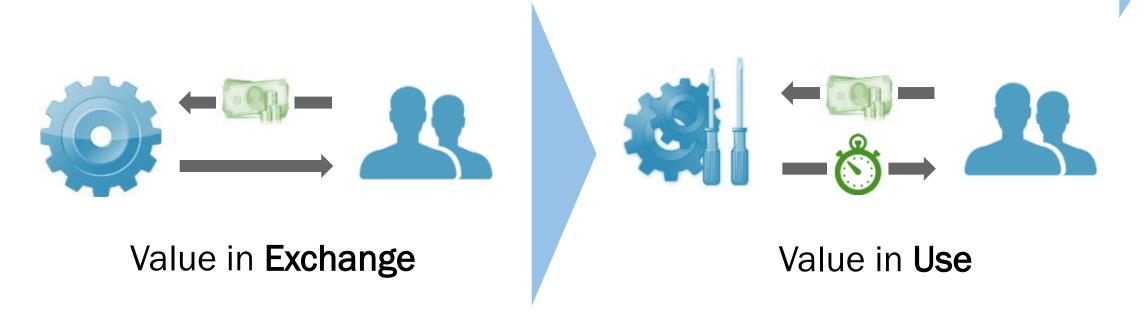
Improve products and processes using IoT data

INDUSTRY SHIFT



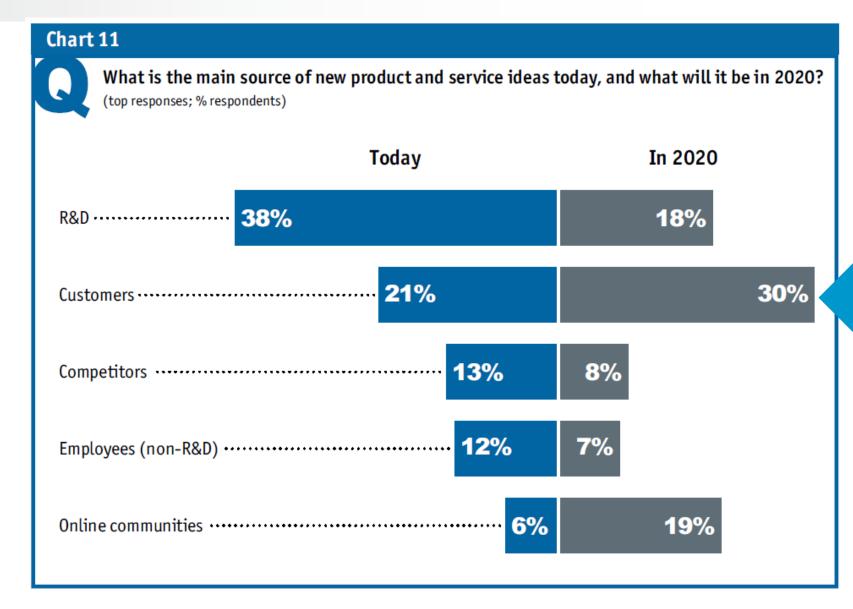
By 2018, 40% of the top 100 discrete manufacturers and 20% of the top 100 process manufacturers will provide PaaS *platforms.**

Benefit from transformational shift to service



INNOVATION DRIVERS

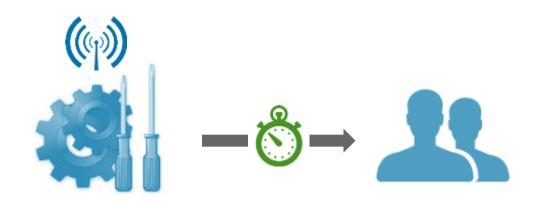




Tap Customer Innovation Sources

PTC PLM IOT SOLUTION VISION





Establish PTC PLM IoT Solution as the Best Platform

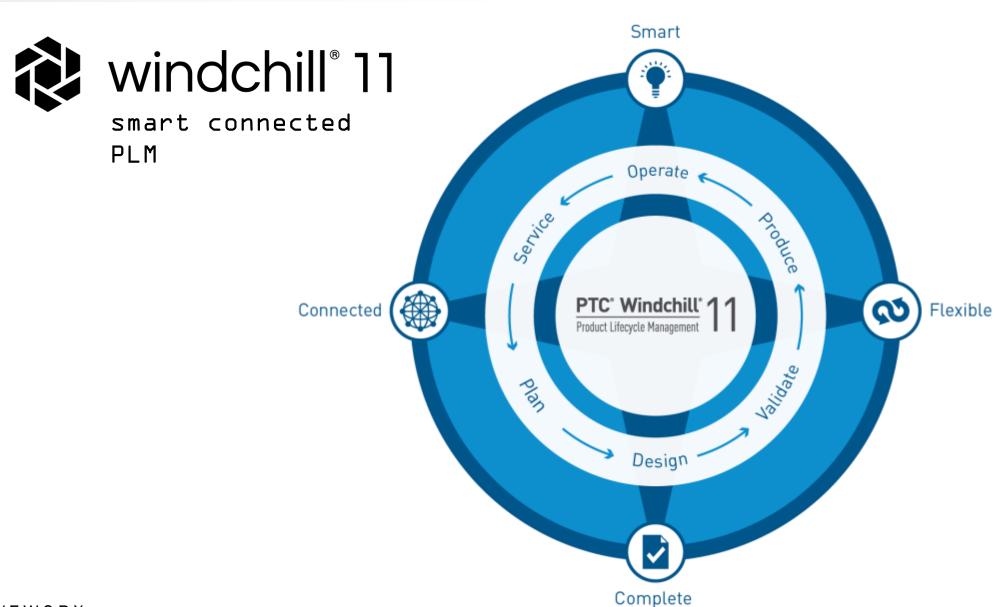
For designing, manufacturing & delivering smart, connected systems as a service



PTC WINDCHILL 11 SMART CONNECTED PLM

THE EVOLUTION OF PLM:





PTC WINDCHILL 11: "SMART" PLM FOR ALL STAKEHOLDERS





Business Challenges

- Instant Skills
- Democratization of PLM
- Future IoT Strategy
- Collaboration with Security

70%

Of Windchill PLM users at *iROBOT* are outside of Engineering

PTC Windchill 11 Delivers...

Role-Based Apps

Windchill Search

IP Protection

PTC NAVIGATE: BETTER INSIGHTS, NEW CONNECTIONS

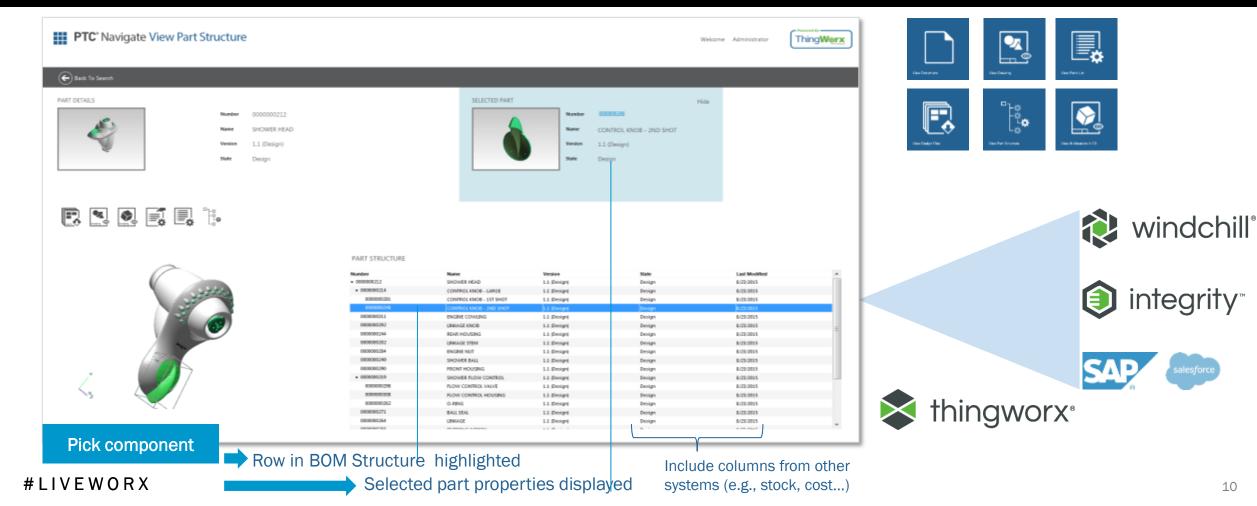


Dynamic, real-time connections to multiple systems of origin

Highest fidelity access to product data for confident decisions

Tailor and deploy apps quickly, leveraging Rapid **Application Development**

Upgrade, improve or replace backend systems without impact



PTC WINDCHILL SEARCH: FIND & RE-USE PLM DATA FASTER



Find the right information faster with powerful new multifaceted search

Improve information reuse and spend less time searching

Seamlessly combine parts classification search & traditional PTC Windchill attributes search

Leverage keywords and filters to experience a familiar, Web-style search



PTC WINDCHILL 11: "CONNECTED" PLM FOR ALL PROCESSES





Business Challenges

- Performance and operational data
- Closed-loop lifecycle management
- Integrated systems
- Optimized PLM performance

15-20%

Improvements in reliability with closed-loop methods in Windchill Quality – *HPE*

PTC Windchill 11 Delivers...

Connected Quality

Requirements Traceability

Performance Advisor

CONNECTED QUALITY: LEARN FROM THE PRODUCT'S OPERATIONAL BEHAVIOR



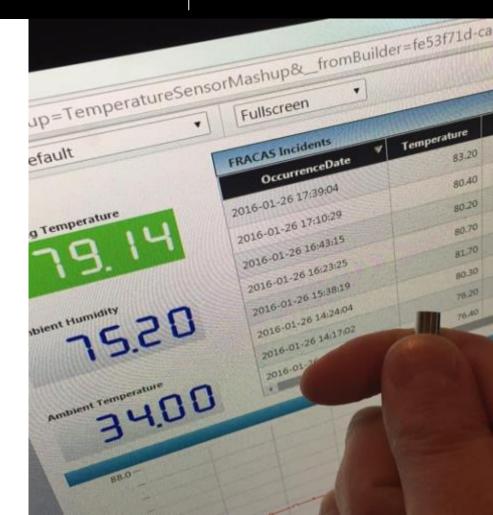
Improve quality by informing processes with smart, connected product data

of root cause analysis and CAPA, reducing CoPQ

Deliver quality data throughout more of the organization than ever before

Improve next-generation designs with visibility into fielded product performance





ALM - PLM INTEGRATION: REQUIREMENTS TRACEABILITY

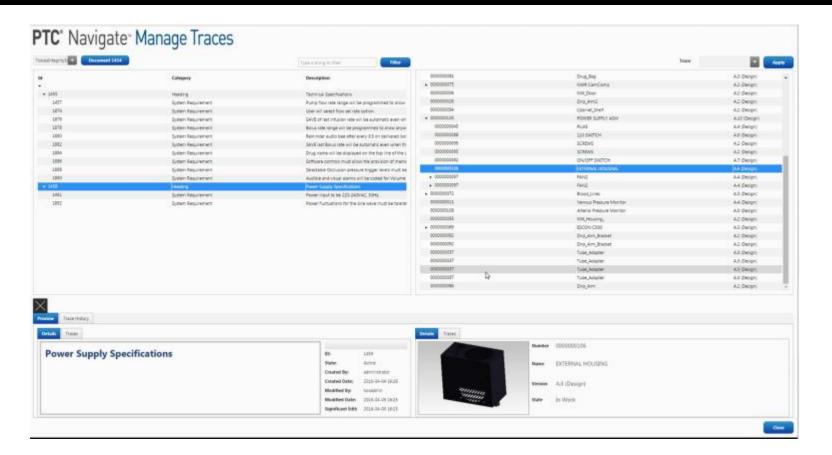


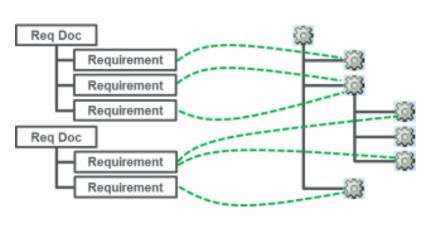
Coordinate product changes across requirements, software, hardware

Understand the impact of a change in requirements on the product Bill of Materials

Track and manage requirements across the lifecycle, for end-to-end traceability

Links data for transparent access without duplication





"Link, not synch"

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Performance Advisor DELIVERING SMART, CONNECTED SUPPORT

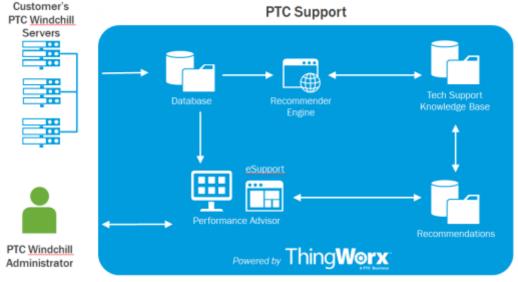


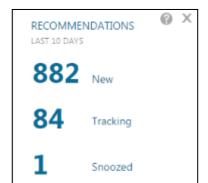
Insight into feature usage, adoption, and system performance

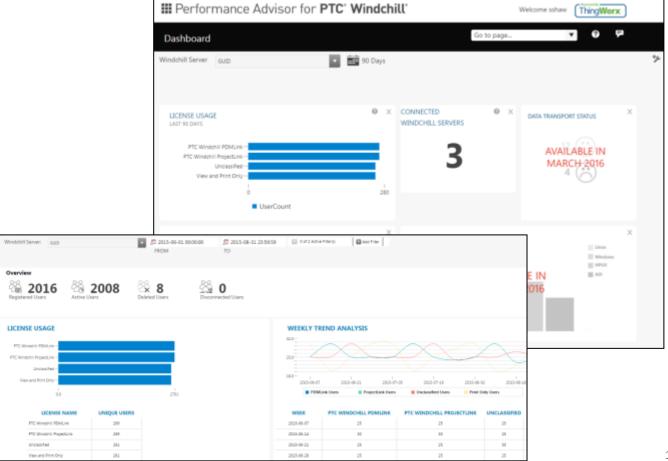
License usage monitoring

Technical Support recommendations

SaaS delivery of new capabilities and reports







PTC WINDCHILL 11: "COMPLETE" PLM FOR ALL PRODUCT DATA





Business Challenges

- Unleash the value of PLM

Move to parts-centric

- Complete product definition

- Streamline product development & TTM

75% Time-savings in release mgt process

30% Reduction in parts library

PTC Windchill 11 Delivers...

Multi-CAD Collaboration

BOM Management / Transformation

SMART MANUFACTURING: PARALLEL DESIGN AND MANUFACTURING

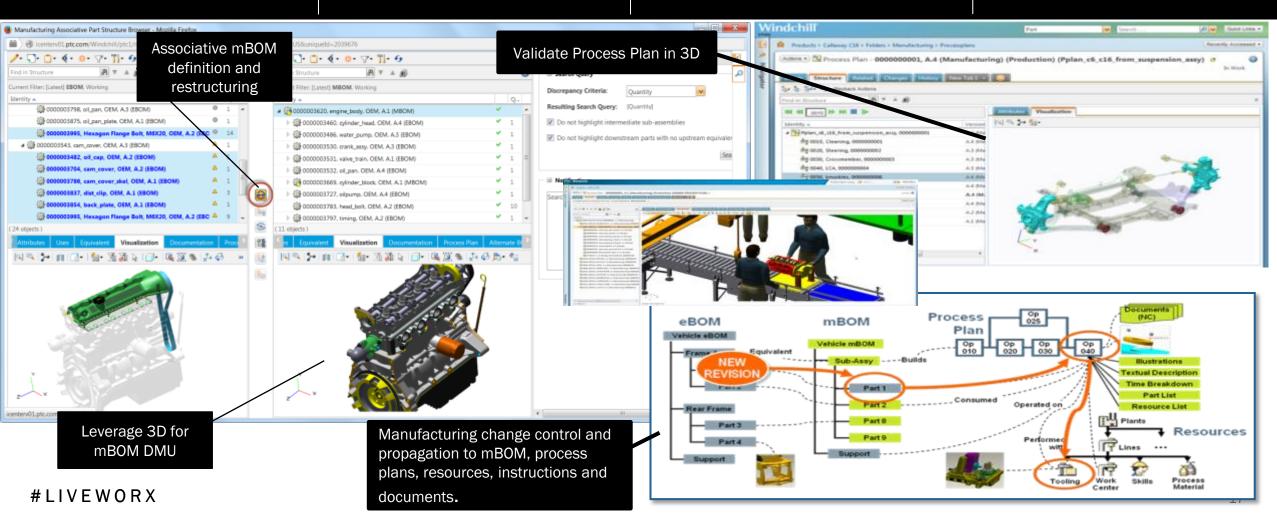


Enable engineering & manufacturing collaboration

Increase production quality and performance

Shorten time to production (and to market)

Reduce product development cost



PTC WINDCHILL 11: "FLEXIBLE" PLM FOR ALL DEPLOYMENTS





Business Challenges

- Reduce IT burden and costs
- Predictable budgeting
- Changing resource needs
- As-needed PLM, program or project-based

70-90%

Prefer subscription PLM - PTC customers and prospects

Windchill 11 Delivers...

Subscription Pricing

Cloud Deployment

SAAS PLM

THE PTC DIFFERENCE: FLEXIBLE DEPLOYMENT OPTIONS



SUBSCRIPTION PRICING

CLOUD DEPLOYMENT

SAAS (software as a service)

Right-sized pricing based on users and features

Outsource hardware, support, administration and expertise

Rapid deployment and expert management

- Scale software to active users based on program needs
- Secure hosting and IT administration

 Upgrades, migrations all handled: latest, best features

Assured value and predictable

 Remix functionality to meet business needs

- Optimized systems and ongoing support reduce risk and costs
- Flexible cost model based on usage

cost

 Low up-front costs, predictable budgeting: Op-ex vs. cap-ex Decrease IT burden, time to deploy; increase productivity







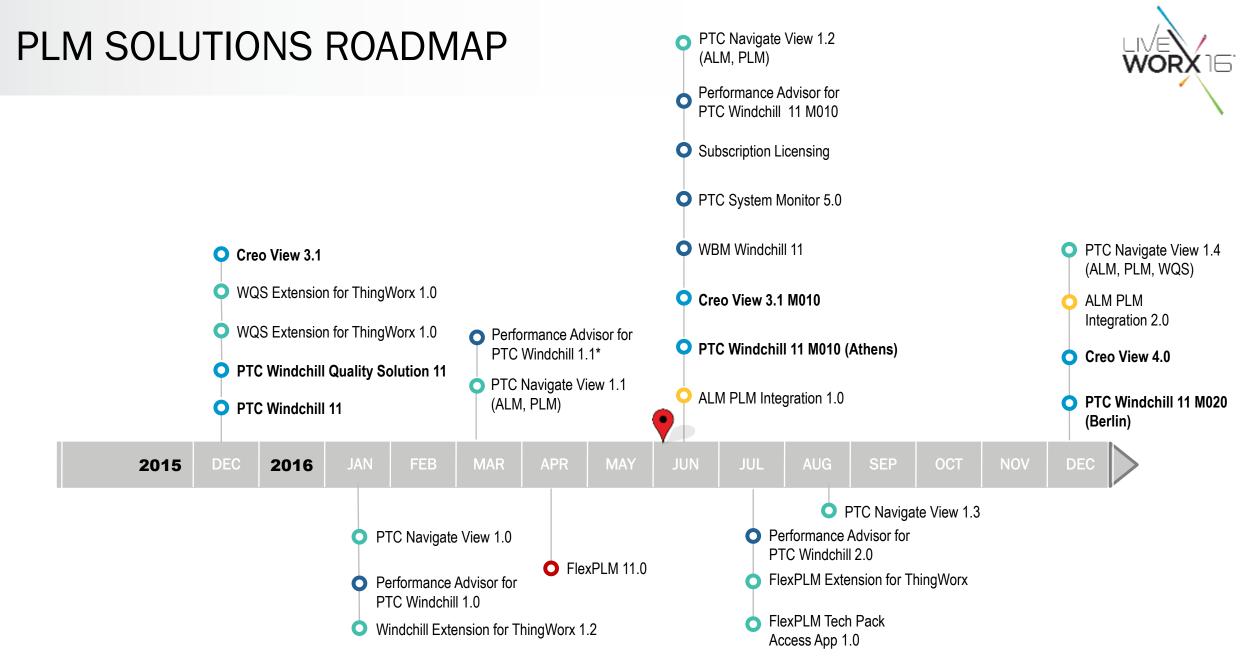


PTC WINDCHILL PLM RELEASE ROADMAP

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PTC WINDCHILL RELEASE STRATEGY



Industry Best Practices to Reduce Customer Effort & Risk

- Limited number of feature enhancement releases
- "CPS" releases
 - Delivered with a single patch installation
 - Include fixes only, no new features
 - Future CPS schedule published on <u>PTC.com</u>
- Improved Quality
- Improved Client Interoperability
 - Asynchronous WWGM client releases
 - Customers can stagger PTC Windchill client and server upgrades independently

PTC Windchill

Major Releases

• Every 12 to 24 Months

Maintenance Releases

- Two or Three
- Defect fixes
- Selected features minimal user impact

Critical Patch Sets

- Cumulative, Issued On A Regular Schedule
- Contain only significant customer fixes
- No feature content

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WINDCHILL UPGRADE PROCESS



Fully automated tooling & system properties gathering

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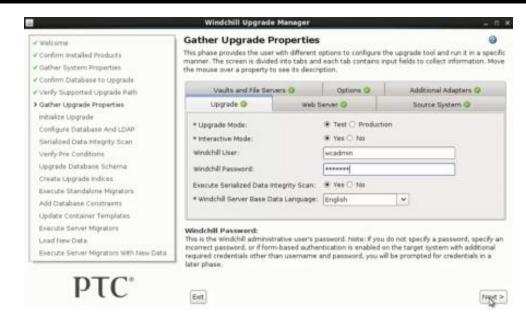
Guided step by step UI

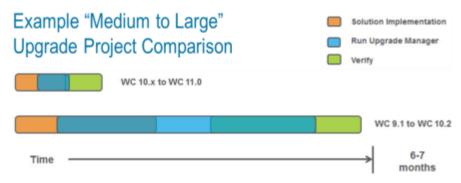
Faster, shorter tool run time

Proven on real customer data sets









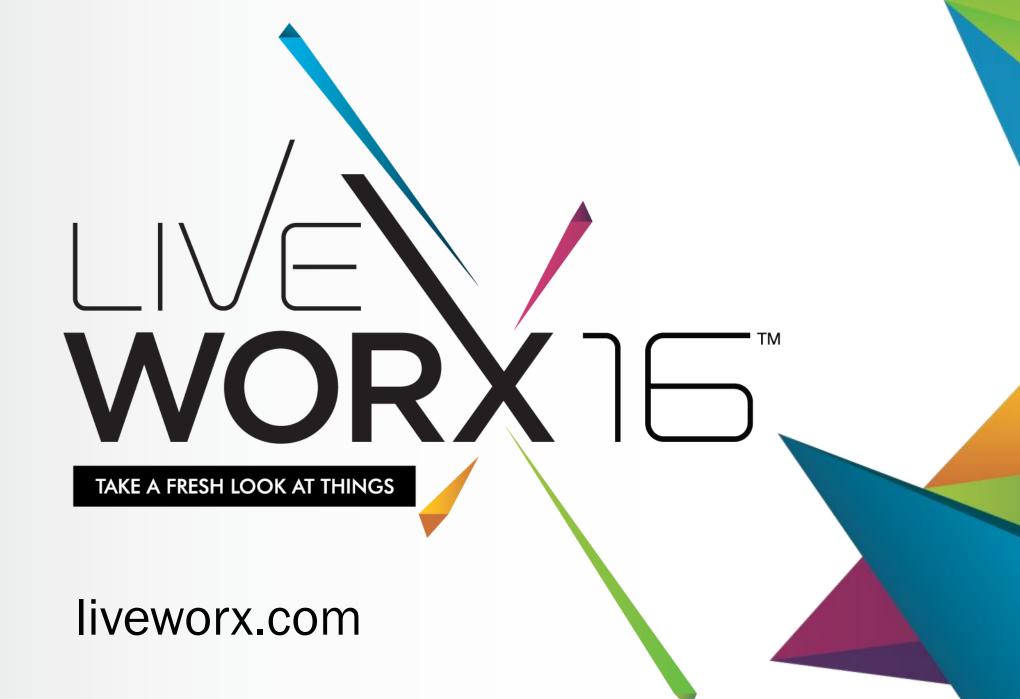
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