

# PLM: The Best Way to Manage Your Entire Product Lifecycle

Presenter name

Presenter title



Workflow State: WIP

File Name: 2020-19-00.iam

Item Number: 1.1  
Descriptor: 500-0007-04 Steel  
Revision: A  
Quantity: 2 units/ Unit Cost: \$165

Testing:  
Under review

NCR: Defective part

C0000042

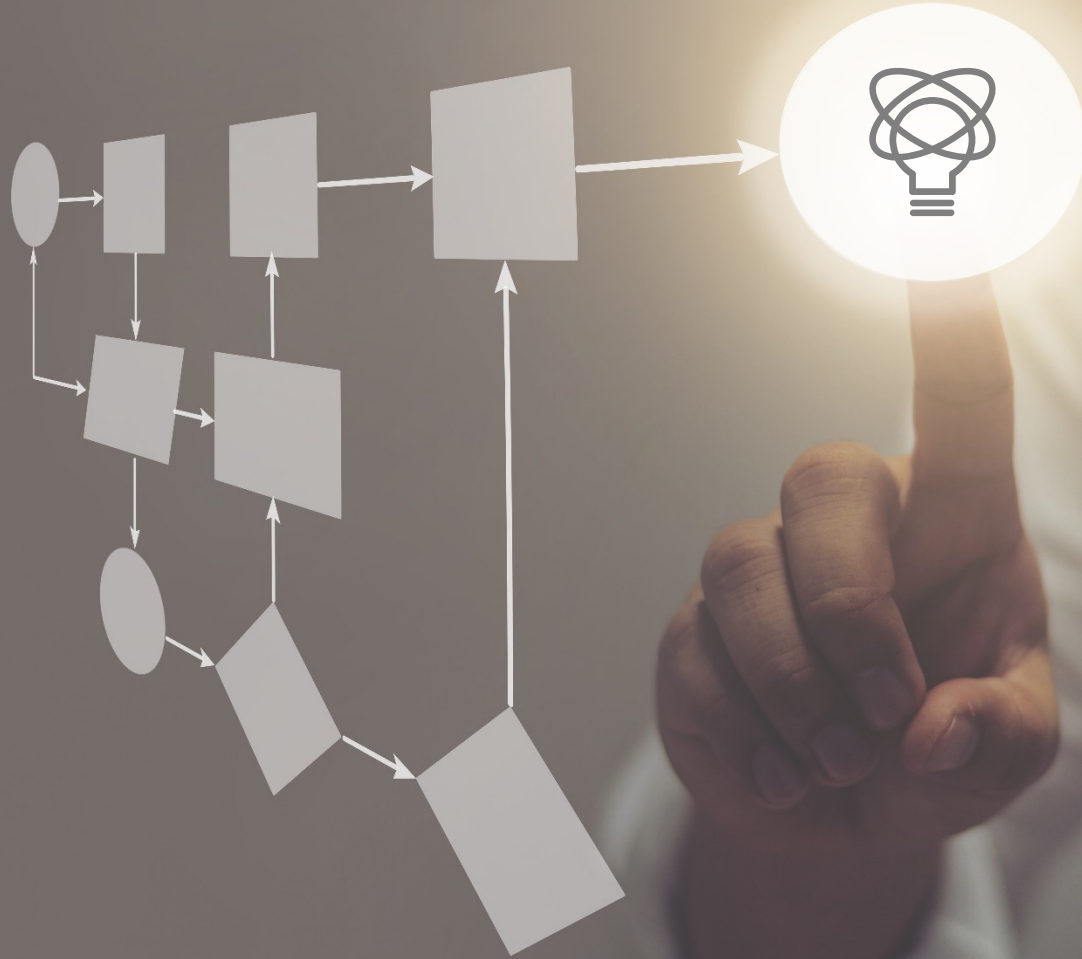
Revision B  
Effective Date: 3/9/2019  
Change: raw length

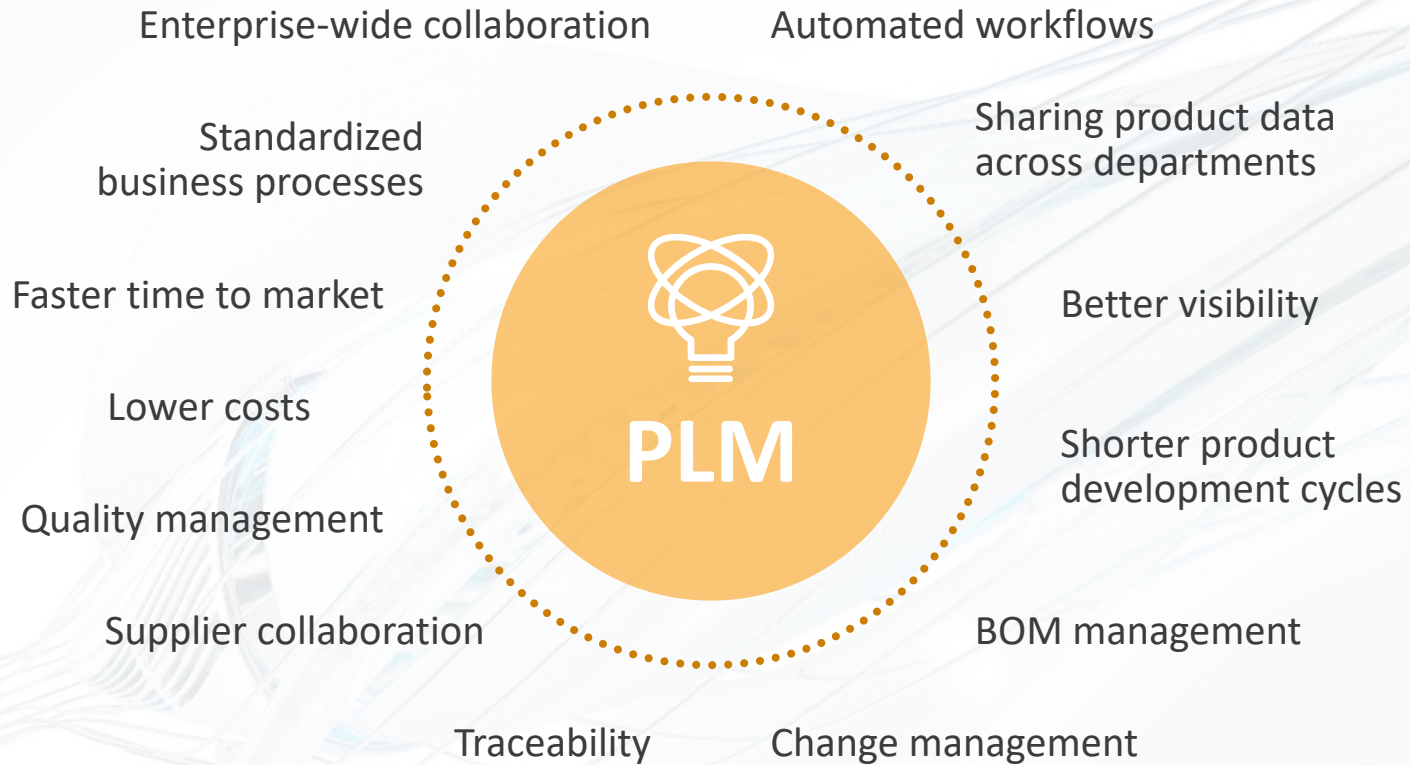
## Product Lifecycle Management

PLM is a strategy for connecting your people, processes, and data across the entire product lifecycle to a central source of information.

Supplier Status: Active  
Next Evaluation: 11/06/2022  
RFQ Status: Received  
Part Price \$110

**The benefits of  
PLM have  
always been  
promising.**





# But where do you start?

## Traditional PLM

- Expensive IT overhead and hardware
- Requires extensive consulting
- Training is lengthy
- Difficult to adopt
- Time-consuming and costly upgrades





# Demystifying PLM

Sales

Engineering

Preproduction

Production

Service

CRM



ERP / MRP / MES

PROCESS MANAGEMENT



ENTERPRISE INTEGRATIONS



PLM

Sales

Engineering

Preproduction

Production

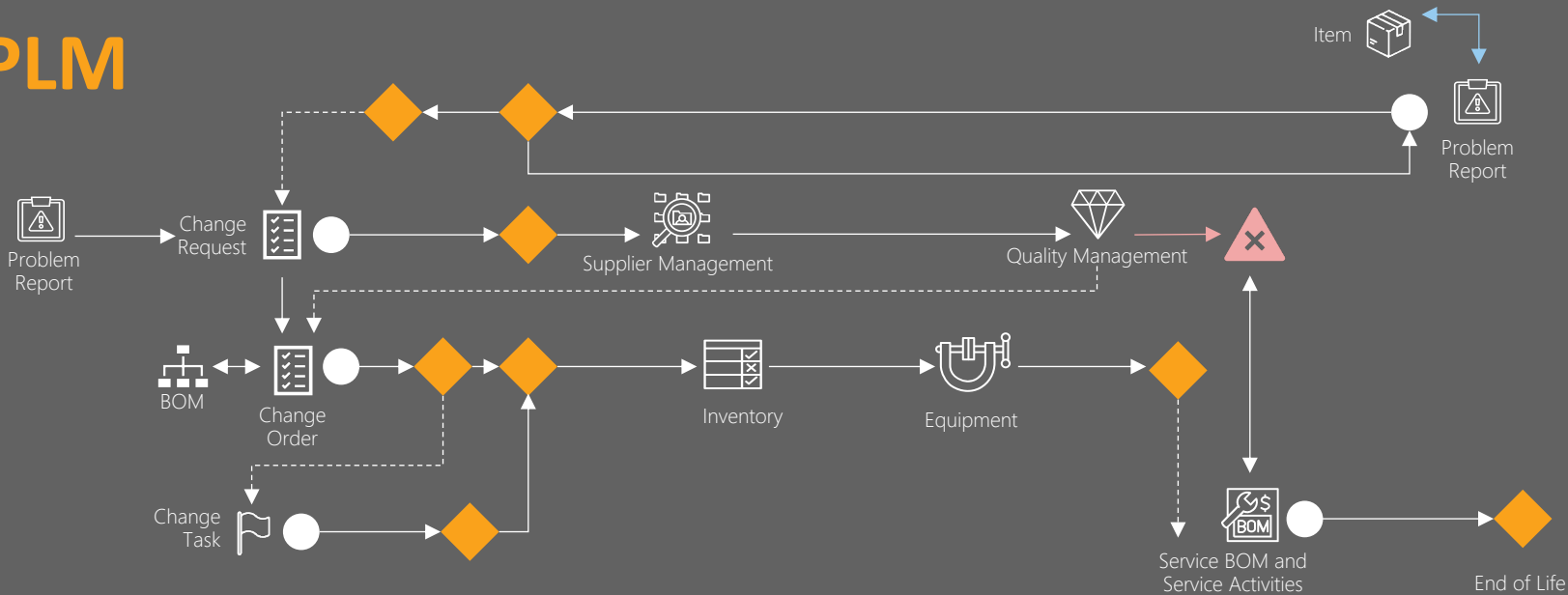
Service

CRM



ERP / MRP / MES

PLM







Everything you need  
in a PLM platform

Sales

Engineering

Preproduction

Production

Service

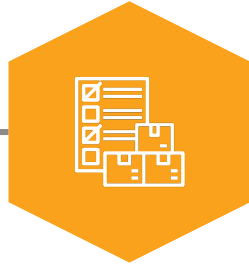
CRM



ERP / MRP / MES



New Product Introduction



Enterprise BOM Management



Supplier Collaboration

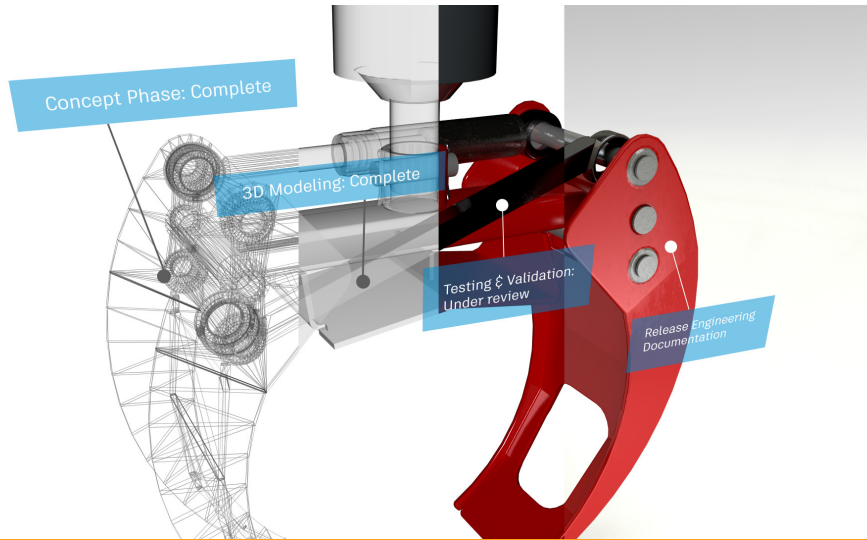


Change Management



Quality Management

# New Product Introduction (NPI)



**Controlling the whole product development process**

**Remove inefficiencies that stand in the way of bringing new products to market on time and on budget.**

**Everyone is aligned.**

Configurable project templates standardize milestones, deliverables, and tasks.

**We know what needs to happen next.**

Progress and performance can be monitored any time. Task-level views keep everyone accountable. Real-time to-do lists and instant notifications help individuals stay on track.

# Product Portfolio Management

The screenshot displays the Autodesk Fusion Lifecycle Product Portfolio Management interface. The main view is for the product '900-0000-000 - MAXAM Reverse-Fold Telescopic Ble...'. The interface is divided into a left sidebar for product listing and a main area for detailed project management.

**Product Listing (Left Sidebar):**

Image	Item Descriptor	Current State
	900-00555-000 - MAXAM Traveling Telescopic Bleachers	Post-Launch
	900-00000-000 - MAXAM Reverse-Fold Telescopic Bleachers	Post-Launch
	900-00672-000 - QUATTRO Extreme Series	Launch
	900-03030-000 - 3400HD Heavy Duty Titan	Launch
	900-02508-000 - 4400 with Contour Foam Uplift Seat	Launch
	900-00785-000 - Stacking Quattro Stacking Chair	Concept

**Product Details (Main Area):**

900-0000-000 - MAXAM Reverse-Fold Telescopic Ble...  
 [5] Post-Release Review | No workflow actions available | Revert workflow action

Navigation: Details | Bill of Materials (0) | Project Costs (0) | **Tasks & Deliverables (20)** | Milestones (0) | More +

Actions: Edit | Add | Remove | Gantt Chart: [On/Off] | Time Scale: Weeks

#	Title/Item	Start Da...	End Date	Duration	Progress %
1	NPD Pre-Pilot --	11/16/20...	11/26/2...	10 days	0
2	NPD Pre-Pilot --	11/16/20...	11/26/2...	10 days	0
3	NPD Pre-Pilot --	11/21/20...	12/01/2...	10 days	0
4	NPD Pre-Pilot --	11/21/20...	12/01/2...	10 days	0
5	NPD Pre-Pilot --	11/21/20...	11/26/2...	5 days	0
6	NPD Pre-Pilot --	11/21/20...	12/01/2...	10 days	0
7	NPD Pre-Pilot --	11/21/20...	12/01/2...	10 days	0
8	NPD Pre-Pilot --	11/21/20...	12/01/2...	10 days	0
9	NPD Pre-Pilot --	11/21/20...	12/01/2...	10 days	0
10	NPD Pre-Pilot --	11/26/20...	12/06/2...	10 days	0
11	NPD Pre-Pilot --	11/26/20...	12/06/2...	10 days	0
12	NPD Post-Pilot --	12/08/2...	12/22/2...	14 days	0
13	NPD Post-Pilot --	12/08/2...	12/22/2...	14 days	0
14	NPD Post-Pilot --	12/08/2...	12/22/2...	14 days	0
Project Summary		11/16/2015	12/22/20...	36 days	0

Calendar view: November 2015 (45-50) | December 2015 (1-5)

Total number of records in this view: 42

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# Product Requirements

Home > Project Tasks +
My Default View (24)

Item Descriptor	Current State	Progress	Days Remaining	Flag	St...
PT-000013 - Functional...	In Work	80%	3	...	
PT-000018 - Market Re...	In Work	75%	-37	...	
PT-000022 - Functional...	In Work	25%	3	...	
PT-000024 - Market Re...	Completed	100%	Done	...	
PT-000014 - Market Re...	Completed	100%	Done	...	
PT-000012 - Market Re...	Completed	100%	Done	...	
PT-000011 - Functional ...	Completed	100%	Done	...	
PT-000010 - Technical ...	Completed	100%	Done	...	
PT-000007 - Functional...	Planning	0%	-11	...	
PT-000008 - Market Re...	Planning	0%	-32	...	
PT-000009 - Technical ...	Planning	0%	20	...	
PT-000017 - Functional...	Planning	0%	-16	...	
PT-000019 - Functional...	Planning	0%	-4	...	
PT-000020 - Technical ...	Planning	0%	27	...	
PT-000021 - Market Re...	Planning	0%	-23	...	
PT-000006 - Functiona...	Planning	0%	-6	...	
PT-000015 - Technical ...	Planning	0%	34	...	

Total number of records in this view: 24

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## PT-000022 - Functional Requirements

In Work | No workflow actions available

Task
Attachments (0)
Efforts (0)
Workflow
Milestones (2)
More +

**Task Definition (1 of 6)**

- Number: PT-000022
- Title: Functional Requirements
- Description:
- Priority: 1 / High
- Project: P-000008 - for simon
- Phase: P-000008 - Specification

**Status (2 of 6)**

	Progress	Last Update	Last Comment
Progress	25%	04/03/2020	
Schedule	84%	3	...

**Assignment (3 of 6)**

**Planning & Tracking (4 of 6)**

	Target	Actual	Deviation	In Plan
Start Date	04/15/2020	04/03/2020	-12	
Review Date				

# Configurable Workflow

The screenshot displays the Autodesk Fusion Lifecycle interface. On the left, a table lists several projects with their progress and status. The main area shows a detailed workflow for 'P-000004 - Project 4' in the 'Stage / Gate Process' view. The workflow starts with 'Create' leading to 'Planning'. From 'Planning', users can 'Submit for approval' to 'Project Approval' or 'Return'. 'Project Approval' leads to 'Approve Project' or 'Reject project'. 'Approve Project' leads to 'Specification', which then flows through 'Concept', 'Development', 'Validation', and 'Production' to 'Completed'. Each phase has a 'Phase complete' gate and a 'Start next phase' gate. A 'Cancelled' path is also shown, leading from 'Cancelled' back to 'Project Approval'.

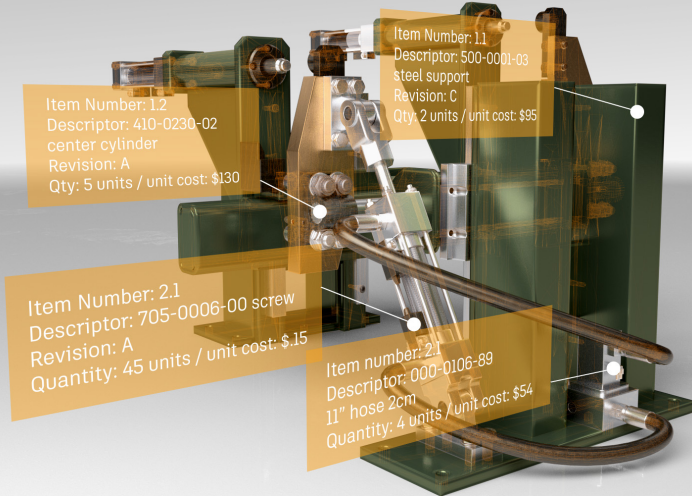
Item Descriptor	Progress	Budget Consum...	Project Status
P-000008 - for simon	01   02   03   04   05   100%	100%	●●●●●
P-000007 - demo	01   02   03   04   05   3%	3%	●●●●●
P-000006 - Demo	01   02   03   04   05   29%	29%	●●●●●
P-000005 - Packaging Update	01   02   03   04   05   3%	3%	●●●●●
P-000004 - Project 4	01   02   03   04   05   22%	22%	●●●●●
P-000003 - Project 3	01   02   03   04   05   NO BUDGET	NO BUDGET	●●●●●
P-000002 - Project 2	01   02   03   04   05   NO BUDGET	NO BUDGET	●●●●●
P-000001 - Project 1	01   02   03   04   05   50%	50%	●●●●●

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AUTODESK FUSION LIFECYCLE

# Enterprise BOM Management

Centrally manage and share structured product BOMs throughout the enterprise ensuring the most up-to-date and accurate information.



Extending data from  
PDM to PLM and beyond

**We're always on the same page.**

Quickly find items in one centralized system. Revision control ensures everyone uses the correct version.

**Our calendar is under control.**

Trace exactly what a BOM looked like on a particular day. Track when items were manufactured or delivered.

**We know exactly what changed.**

See changes between new or different versions of BOMs. Meet compliance requirements by analyzing product history.

# Bill of Materials Views – Departmental, Secure

The screenshot displays the Autodesk Fusion Lifecycle interface. The main header shows the product name "001-ASY-0001 - Top level printer in packaging" with a revision dropdown set to "[REV:9]". Below the header, there are tabs for "Details", "Bill of Materials (15)", "Where Used (1)", "Related Changes (1)", "Attachments (0)", and "Change Log". The "Bill of Materials" tab is active, showing a table of components. A dropdown menu is open over the "mBOM" view selector, listing various views: Costing, Export, Supply Chain, Environmental Compliance, Export BoM Only, Do Not Buy List, Purchasing View, mBOM, and Procurement.

#	Descriptor	Revision	Lifecycle	Quantity	Units	Control Drawing Num...	Contr
0.0	001-ASY-0001 - Top level printer in packaging [REV:9]	9	Production	0.0	-	-	-
1.1	001-DOC-0001 - Packaging Assembly Document [REV:0]	0	Production	0.0	ea	001-DOC-0001	-
1.3	001-PKG-0002 - Packing Tape [REV:1]	1	Production	6.0	ft	001-DOC-0075	-
1.9	001-PKG-0008 - Printer Bag [REV:1]	1	Production	1.0	ea	001-DOC-0080	-
1.13	001-PKG-0012 - Desiccant [REV:0]	0	Production	3.0	ea	-	-
1.14	001-PKG-0013 - Rotating Window Shipping Tape [REV:...	2	Production	1.0	ft	-	-
1.16	001-DOC-0116 - Serial Number Label [REV:0]	0	Production	1.0	ea	-	-
1.19	001-ASY-0002 - Resin Tray Assembly [REV:12]	12	Production	4.0	ea	001-DOC-0002	3
1.20	001-ASY-0038 - Build Head Assembly [REV:1]	1	Production	2.0	ea	-	-
1.21	001-ELC-0056 - Power Supply [REV:0]	0	Production	1.0	ea	-	-
1.23	001-ELC-0058 - USB Cable [REV:0]	0	Production	1.0	ea	-	-
1.24	001-ASY-0004 - Assembled Printer [REV:12]	12	Production	1.0	ea	001-DOC-0086	-
1.25	001-DOC-0148 - Stocking Label [REV:1]	1	Production	1.0	ea	001-DOC-0148	-
1.26	001-ASY-0051 - Packaging Assembly [REV:2]	2	Production	1.0	ea	-	-
1.27	001-DOC-0147 - Branding & Certification Label [REV:2]	2	Production	2.0	ea	-	-



# Bill of Materials Compare - Past

**AUTODESK FUSION LIFECYCLE**

Home > Items and BOMs

**001-ASY-0001 - Top level printer in packaging** [REV:9] ▾

Locked 12/18/2015 Production

Details | **Bill of Materials (15)** | Where Used (1) | Related Changes (1) | Attachments (0) | Change Log

Views: mBOM

Comparing: 001-ASY-0001 - Top level printer in packaging revision: 9 as of Today with Released Revisions  
 Against: 001-ASY-0001 - Top level printer in packaging revision: 4 as of 03/01/2015 with Released Revisions

#	Descriptor	Revision	Lifecycle	Quantity	Units	Cor
0.0	001-ASY-0001 - Top level printer in packaging [REV:9]	9	Production	0.0	-	
1.1	001-DOC-0001 - Packaging Assembly Document [REV:0]	0	Production	0.0	ea	001-DOC-0001
1.2	001-PKG-0001 - Shipping Box [REV:0]	0	Production	1.0	ea	001-DOC-0076
1.3	001-PKG-0002 - Packing Tape [REV:1]	1	Production	6.0	ft	001-DOC-0077
1.4	001-PKG-0003 - Foam Set [REV:0]	0	Production	1.0	ea	001-DOC-0078
1.5	001-PKG-0004 - Accessory Box [REV:0]	0	Production	1.0	ea	001-DOC-0079
1.6	001-PKG-0005 - Box Top [REV:0]	0	Production	1.0	ea	001-DOC-0080
1.7	001-PKG-0006 - Box Bottom [REV:0]	0	Production	1.0	ea	001-DOC-0080
1.8	001-PKG-0007 - Shipping Label [REV:0]	0	Production	1.0	ea	001-DOC-0080
1.9	001-PKG-0008 - Printer Bag [REV:1]	1	Production	1.0	ea	001-DOC-0080
	001-PKG-0008 - Printer Bag [REV:0]	0				

Modal Dialog: Bill of Materials Compare

Compare:

Highlight differences in position:

Comparing: 001-ASY-0001 - Top level printer in packaging  
 Revision:   
 Configuration: Released Revisions

Against: 001-ASY-0001 - Top level printer in packaging  
 Item: 001-ASY-0001 - Top level printer in packaging  
 Revision:   
 Configuration: Released Revisions

Buttons: Cancel, OK

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**AUTODESK FUSION LIFECYCLE**

# Bill of Materials Compare - Present

The screenshot displays the Autodesk Fusion Lifecycle interface for a Bill of Materials (mBOM) of a printer assembly. The main title is "001-ASY-0001 - Top level printer in packaging [REV:9]". The interface includes navigation tabs for "Details", "Bill of Materials (15)", "Where Used (1)", "Related Changes (1)", "Attachments (0)", and "Change Log". A table lists the components of the mBOM, including their revision numbers, lifecycles, quantities, and units. A dropdown menu is open over the table, showing options such as "Costing", "Export", "Supply Chain", "Environmental Compliance", "Export BoM Only", "Do Not Buy List", "Purchasing View", "mBOM", and "Procurement".

#	Descriptor	Revision	Lifecycle	Quantity	Units	Control Drawing Num...	Contr
0.0	001-ASY-0001 - Top level printer in packaging [REV:9]	9	Production	0.0	-	-	-
1.1	001-DOC-0001 - Packaging Assembly Document [REV:0]	0	Production	0.0	ea	001-DOC-0001	-
1.3	001-PKG-0002 - Packing Tape [REV:1]	1	Production	6.0	ft	001-DOC-0075	-
1.9	001-PKG-0008 - Printer Bag [REV:1]	1	Production	1.0	ea	001-DOC-0080	-
1.13	001-PKG-0012 - Desiccant [REV:0]	0	Production	3.0	ea	-	-
1.14	001-PKG-0013 - Rotating Window Shipping Tape [REV:...	2	Production	1.0	ft	-	-
1.16	001-DOC-0116 - Serial Number Label [REV:0]	0	Production	1.0	ea	-	-
1.19	001-ASY-0002 - Resin Tray Assembly [REV:12]	12	Production	4.0	ea	001-DOC-0002	3
1.20	001-ASY-0038 - Build Head Assembly [REV:1]	1	Production	2.0	ea	-	-
1.21	001-ELC-0056 - Power Supply [REV:0]	0	Production	1.0	ea	-	-
1.23	001-ELC-0058 - USB Cable [REV:0]	0	Production	1.0	ea	-	-
1.24	001-ASY-0004 - Assembled Printer [REV:12]	12	Production	1.0	ea	001-DOC-0086	-
1.25	001-DOC-0148 - Stocking Label [REV:1]	1	Production	1.0	ea	001-DOC-0148	-
1.26	001-ASY-0051 - Packaging Assembly [REV:2]	2	Production	1.0	ea	-	-
1.27	001-DOC-0147 - Brandina & Certification Label [REV:21]	2	Production	2.0	ea	-	-

# Bill of Materials Compare - Future

Home > Items and BOMs

## 001-ASY-0054 - 180 Degree Resin Tray Assembly [REV:W]

Pending Working

Details Bill of Materials (5) Where Used (0) Related Changes (1) Attachments (0) Change Log

Edit Add Remove

Views: mBOM

Comparing: 001-ASY-0054 - 180 Degree Resin Tray Assembly revision: Working  
Against: 001-ASY-0054 - 180 Degree Resin Tray Assembly revision: 1 as of Today

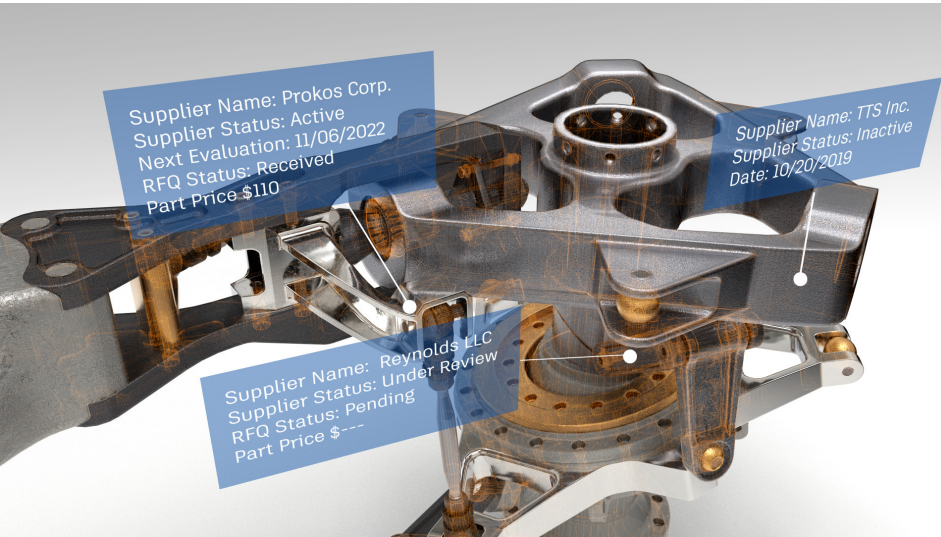
Item	Revision	Lifecycle	Quantity	Units	Color
001-ASY-0054 - 180 Degree Resin Tray Assembly [REV:W]	Working	Working	0.0		
001-ASY-0054 - 180 Degree Resin Tray Assembly [REV:W]	Production	Production			
001-DOC-0160 - 180 Degree Resin Tray Assembly Con...	Production	Production	0.0	ea	
001-STR-0065 - 180 Degree Resin Tray [REV:1]	1	Production	1.0	ea	001
001-STR-0002 - Resin Tray window adhesive gasket [...]	7	Production	1.0	ea	001
001-ASY-0052 - Overmolded PDMS Window Assembl...	2	Production	1.0	ea	001
001-STR-0066 - 180 Degree Resin Tray Lid [REV:1]	1	Production	1.0	ea	001
001-STR-1112 - Resin Tray window adhesive gasket [...]	Working	Working	1.0	ea	001

Dialog Box Configuration:

- Views: mBOM
- Compare:
- Highlight differences in position:
- Comparing: 001-ASY-0054 - 180 Degree Resin Tray Assembly
- Revision: Working
- Configuration: All Pending Changes
- Against: 001-ASY-0054 - 180 Degree Resin Tray Assembly
- Item: 001-ASY-0054 - 180 Degree Resin Tray Assembly
- Revision: 1
- Configuration: Released Revisions
- Buttons: Cancel, OK

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# Supplier Collaboration



Connecting you to your global supply chain 24/7

**Anytime, anywhere access to the information your extended organization needs for quoting, procurement, and supplier management.**

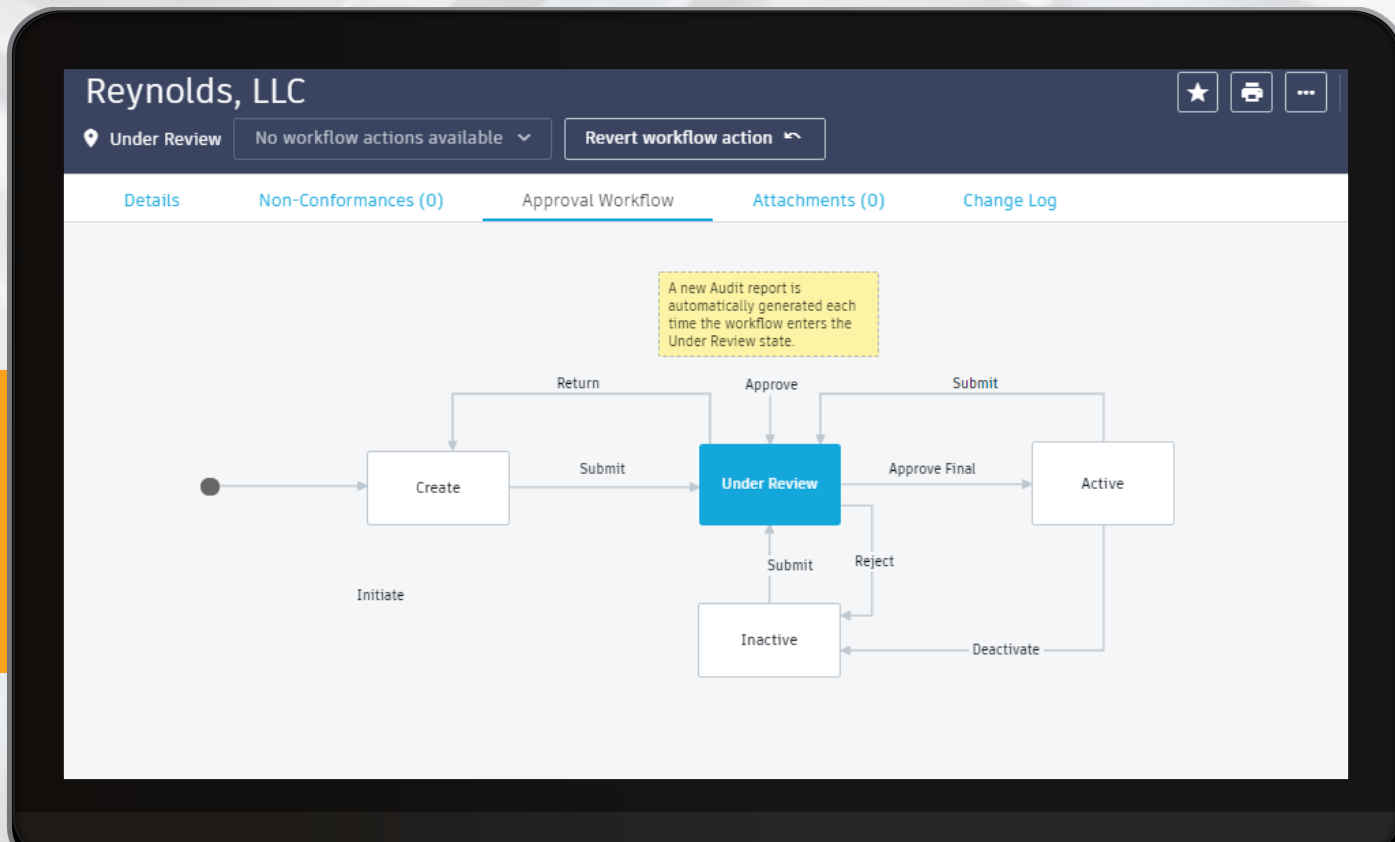
**We know which suppliers to use.**

Rather than relying on tribal knowledge or digging through emails for preferred suppliers, find up-to-date information in a centralized system when you need it.

**We can manage compliance more easily.**

Link suppliers to your bill of materials to ensure compliance standards are followed.

# Supplier Status



# Include Suppliers and Customers in Workflows

The screenshot displays the Autodesk Fusion Lifecycle interface for a Bill of Materials (BOM) titled "001-ASY-0001 - Top level printer in packaging". The interface includes a navigation bar at the top with the Autodesk logo and "FUSION LIFECYCLE" text. Below the navigation bar, there are tabs for "Details", "Bill of Materials (15)", "Where Used (1)", "Related Changes (1)", "Attachments (0)", and "Change Log". The "Bill of Materials" tab is active, showing a table of materials. A red box highlights the "RoHS" and "RoHS 2 Exempt" columns in the table. The table has columns for "#", "Autodesk Part Num...", "Revision", "Description", "RoHS", "RoHS 2 Exempt", "Quantity", "Unit...", "Control Drawing Nu...", "Control Drawing Re...", "Lifecycle", and "Category".

#	Autodesk Part Num...	Revision	Description	RoHS	RoHS 2 Exempt	Quantity	Unit...	Control Drawing Nu...	Control Drawing Re...	Lifecycle	Category
0.0	001-ASY-0001	9	Top level printer in packaging	<input type="checkbox"/>	<input type="checkbox"/>	0.0	Ea	-	-	Production	Assembly
1.1	001-DOC-0001	0	Packaging Assembly Document	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.0	Ea	001-DOC-0001	-	Production	Document
1.3	001-PKG-0002	1	Packing Tape	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6.0	ft	001-DOC-0075	-	Production	Packaging
1.9	001-PKG-0008	1	Printer Bag	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.0	Ea	001-DOC-0080	-	Production	Packaging
1.13	001-PKG-0012	0	Desiccant	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3.0	Ea	-	-	Production	Packaging
1.14	001-PKG-0013	2	Rotating Window Shipping Tape	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.0	ft	-	-	Production	Packaging
1.16	001-DOC-0116	0	Serial Number Label	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.0	Ea	-	-	Production	Label
1.19	001-ASY-0002	12	Resin Tray Assembly	<input type="checkbox"/>	<input type="checkbox"/>	4.0	Ea	001-DOC-0002	3	Production	Assembly
1.20	001-ASY-0038	1	Build Head Assembly	<input type="checkbox"/>	<input type="checkbox"/>	2.0	Ea	-	-	Production	Assembly
1.21	001-ELC-0056	0	Power Supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.0	Ea	-	-	Production	Electrical Compon...
1.23	001-ELC-0058	0	USB Cable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.0	Ea	-	-	Production	Electrical Compon...
1.24	001-ASY-0004	12	Assembled Printer	<input type="checkbox"/>	<input type="checkbox"/>	1.0	Ea	001-DOC-0086	-	Production	Assembly
1.25	001-DOC-0148	1	Stocking Label	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.0	Ea	001-DOC-0148	-	Production	Document
1.26	001-ASY-0051	2	Packaging Assembly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1.0	Ea	-	-	Production	Assembly
1.27	001-DOC-0147	2	Brandino & Certification Label	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.0	Ea	-	-	Production	Document

# Approved Manufacture/Vendor Lists

001-00001 - GPU SMT FCBGA 1360MHz [REV.W] ▾

Pending Working

Details Bill of Materials (0) Where Used (1) Related Changes (0) Attachments (0) Change Log

Edit

Summary (1 of 6)

Number 001-00001  
Description GPU SMT FCBGA 1360MHz  
Unit of Measure Each

Classification (2 of 6) (GPU's)

Mounting Style SMT  
GPU Family SMT  
Height (mm) 20  
IC Package DIP  
Prefix 001

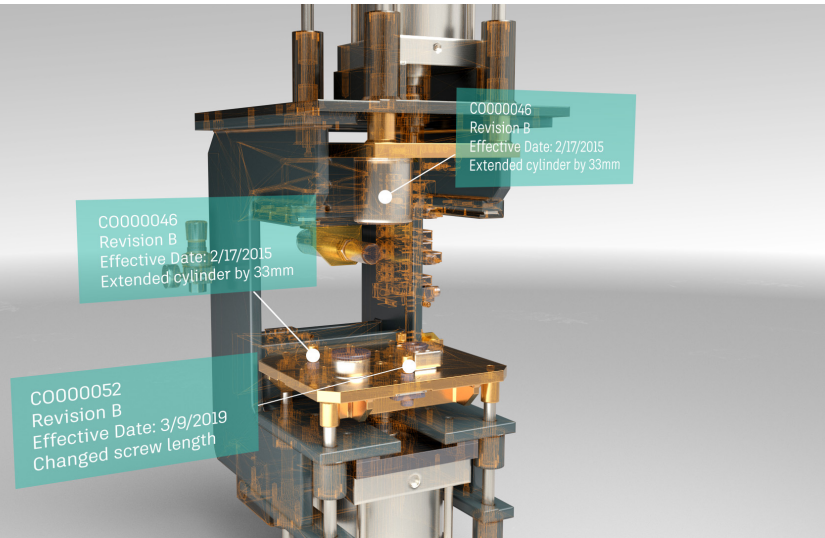
Approved Manufacturer Parts (AML) (3 of 6)

	Manufacturer PN	Manufacturer	Preference	Description	Cost
1	GT216-0010	Arrow	Preferred		6.0000 (\$)
2	RZX-1200	Reynolds, LLC	Do Not Use		7.0000 (\$)
3	ODL12-6500	AVX / Kyocera	Conditionally Approved		6.5000 (\$)
4			Unapproved		0.0000 (\$)
5			Unapproved		0.0000 (\$)

Environmental Compliance (4 of 6)

RoHS   
REACH

# Change Management



**Managing and tracking enterprise-wide changes**

**Product changes are fully defined, reviewed, approved, and implemented in one collaborative environment.**

**We avoid bottlenecks.**

When you configure workflows, everyone can monitor change requests or change orders in real-time.

**Information is at my fingertips.**

Full details of components or sub-assemblies to a change are just a click away. Understand the impact of a change and see what changed in the past.

**This makes so much sense.**

View only the information relevant to you with easy-to-use filters. Everyone sees up-to-date data.



# Day-In-The-Life Change Workflow

The screenshot displays the Autodesk Fusion Lifecycle interface. On the left, a list of problem reports is shown with columns for Item Descriptor, Flag, Days Remaining, and Progress. The selected report, PR-000006, is highlighted. On the right, the detailed view for PR-000006 - Seal is broken is shown, including fields for Title, Description, Priority, Type, and Source, as well as sections for Details, Images, Status, and Review.

**Autodesk Fusion Lifecycle**

Home > Problem Reports + My Default View (6)

PR-000006 - Seal is broken

Locked Completed No workflow actions available

Details Attachments (0) Affected Items (1) Notes (0) Change Tasks (0) More +


Edit

Title Seal is broken  
Description Water leaks into housing, corrosion on PCB  
Priority 1 / High  
Type Quality Problem  
Source Services

Details (2 of 9)

Images (3 of 9)

#1 #2 #3

Images 

Comments photo taken during maintenance

Status (4 of 9)

Progress Flag Days Remaining

Report Status Completed Flag Days Remaining

Review (5 of 9)

6 out of 6 total records in this view being displayed.

AUTODESK © Copyright 2020 Autodesk, Inc. All rights reserved. Privacy Terms and Conditions AUTODESK FUSION LIFECYCLE

# Day-In-The-Life Change Workflow

**Autodesk Fusion Lifecycle**

Home > Problem Reports + My Default View (6)

**PR-000006 - Seal is broken** ★ ⋮ ↑ ↓ ↻ ✕

Locked 📍 Completed 🔒 No workflow actions available ⌵

Details Attachments (0) Affected Items (1) Notes (0) **Workflow** More +

Item Descriptor	Flag	Days Remaining	Progress
PR-000007 - tseee	🟡🟡	No Date	Analysis
PR-000006 - Seal is broken	🔴🔴	Done	Completed
PR-000004 - Drawing is missing	🟡🟡	-155	Processing Actions
PR-000003 - Water leaks into housing	🔴🔴	No Date	Completed
PR-000002 - Error code 8700	🟡🟡	-134	Processing Actions
PR-000001 - problem	🟡🟡	Done	Completed

6 out of 6 total records in this view being displayed.

**PR-000006 - Seal is broken**

Workflow Diagram:

```

    graph TD
      Start((Start)) --> Create[Create]
      Create --> Submit[Submit]
      Submit --> Review[Review]
      Review --> SubmitTech[Submit to Technician]
      SubmitTech --> Tech[Technical Analysis]
      Tech --> InitCAPA[Initiate Change Request]
      Tech --> CAPAProg[CAPA in progress]
      CAPAProg --> CAPAComp[CAPA Completed]
      CAPAComp --> InitOK[Initiate OK]
      InitOK --> ChangeReq[Change Request in progress]
      ChangeReq --> CRComp[CR Completed]
      CRComp --> Closed[Closed]
      Review --> CloseRpt[Close Report]
      CloseRpt --> Closed
      Review --> Return1[Return]
      Return1 --> Review
      Tech --> Return2[Return]
      Return2 --> Review
      Tech --> SetRptComp[Set Report Complete]
      SetRptComp --> Closed
      CAPAComp --> SetRptComp
      CRComp --> SetRptComp
  
```

Callouts:

- A review will be requested within 3 working days using automated notifications. An user with Review permission can initiate next steps.
- A technician has to be selected before the Technical Analysis can be requested.
- Follow up processes will be created automatically based on the Technical Analysis results. Once the given processes are complete, the Problem Report will be closed automatically.

Autodesk Fusion Lifecycle

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# Day-In-The-Life Change Workflow

The screenshot displays the Autodesk Fusion Lifecycle interface. The top navigation bar includes the Autodesk logo, the text 'AUTODESK FUSION LIFECYCLE', a search icon, a notification bell, a globe icon, and a user profile picture. Below the navigation bar, the main content area is split into two panels. The left panel shows a list of change requests with columns for 'Item Descri...', 'Progress', 'Flag', and 'Approval Stat...'. The right panel shows the details for a specific change request, 'CR-000005 - Seal is broken', with tabs for 'Details', 'Attachments (0)', 'Affected Items (1)', 'Task Planning (0)', 'Schedule (1)', and 'More +'. The details panel includes a header, a list of details, images, status, related processes, and stakeholders.

**Autodesk Fusion Lifecycle**

Home > Change Requests + My Default View (11)

CR-000005 - Seal is broken

Locked Completed No workflow actions available

Details Attachments (0) Affected Items (1) Task Planning (0) Schedule (1) More +

Edit

Header (1 of 11)

- Number: CR-000005
- Title: Seal is broken
- Description: Water leaks into housing, corrosion on PCB
- Priority: 1 / High
- Source: Services
- Change Reason: System outage
- Change Reason Code: Functional Quality Issue
- Change Template: Mechanical Changes

Details (2 of 11)

Images (3 of 11)

Status (4 of 11)

	Progress	Flag	Tasks Progress	Approval Status
Request Status	NEW REV CCB CO	***	No tasks defined	APPROVED

Related Processes (5 of 11)

	Problem Report	Design Review	CAPA	Change Order
References	PR-000006 - Seal is broken			CO-000003 - Seal is broken

Stakeholders (6 of 11)

11 out of 11 total records in this view being displayed.

AUTODESK

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AUTODESK FUSION LIFECYCLE

# Day-In-The-Life Change Workflow

The screenshot displays the Autodesk Fusion Lifecycle interface. On the left, a list of change requests is shown with columns for Item Description, Progress, Flag, and Approval Status. The selected item is 'CR-000005 - Seal is broken', which is in the 'APPROVED' state. On the right, a detailed workflow diagram for this request is shown, starting with 'Create' and 'Submit for review', leading to 'Review & Impact Analysis'. From there, the workflow branches into 'Submit to CCB', 'Initiate CO (skip CCB Review)', and 'Change Control Board Review'. The process continues through 'Initiate CO', 'Change Order In progress', and 'CO completed' to a final 'Completed' state. The interface also shows navigation options like 'Details', 'Attachments (0)', 'Affected Items (1)', 'Task Planning (0)', and 'Workflow'.

Item Description	Progress	Flag	Approval Status
CR-000012 - CR3	NEW REV CCB CO	...	Review is pending
CR-000011 - CR2	NEW REV CCB CO	...	Review is pending
CR-000010 - Water leaking into housing	NEW REV CCB CO	...	Review is pending
CR-000009 - Change material supplier	NEW REV CCB CO	...	Review is pending
CR-000008 - Strengthen fixture	Request rejected	...	REJECTED
CR-000006 - Replace fixture	NEW REV CCB CO	...	Review is pending
CR-000005 - Seal is broken	NEW REV CCB CO	...	APPROVED
CR-000004 - Drawing is missing	NEW REV CCB CO	...	Review is pending
CR-000003 - Water leaks into housing	NEW REV CCB CO	...	APPROVED
CR-000002 - Error code 8700	NEW REV CCB CO	...	Review is pending
CR-000001 - problem	NEW REV CCB CO	...	APPROVED

11 out of 11 total records in this view being displayed.

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AUTODESK FUSION LIFECYCLE

# Day-In-The-Life Change Workflow

The screenshot displays the Autodesk Fusion Lifecycle interface. On the left, a list of change orders is shown with columns for Item Descriptor, Progress, and Flag. The main panel shows details for change order CO-000003, titled 'Seal is broken'. It includes a table of affected items with columns for #, Title/Item, Start Date, End Date, Duration, Progress, and Status. A Gantt chart is visible at the bottom of the main panel, showing a project summary for the change order.

**Autodesk Fusion Lifecycle**

Home > Change Orders + My Default View (16)

**CO-000003 - Seal is broken**

Locked Implemented No workflow actions available Revert workflow action

Details Attachments (0) Affected Items (5) Task Planning (0) Schedule (5) More +

Edit Add Remove

Gantt Chart: Time Scale: Days

#	Title/Item	Start Date	End Date	Duration	Progress	Status
1	CHT-000010 - Replace com...	03/19/2020	03/24/2020	5 days	100	Completed
2	CHT-000008 - Review chan...	03/24/2020	03/25/2020	1 day	100	Completed
3	CHT-000007 - Update BOM	03/25/2020	03/26/2020	1 day	100	Completed
4	CHT-000011 - Notify supplier	03/25/2020	03/27/2020	2 days	100	Completed
5	CHT-000009 - Quality Test	03/26/2020	03/27/2020	1 day	100	Completed

Project Summary 03/19/2020 03/27/2020 8 days 100

16 out of 16 total records in this view being displayed.

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# Day-In-The-Life Change Workflow

The screenshot displays the Autodesk Fusion Lifecycle interface. On the left, a list of change orders is shown with columns for Item Descriptor, Progress, and Flag. The selected change order is CO-000003 - Seal is broken, which is in the 'Released' state. The right side of the interface shows a detailed workflow diagram for this change order. The workflow starts with 'Start' and 'Cancel Change Order', leading to 'Preparation'. From 'Preparation', the process can go to 'Initiate Tasks' (which can lead to 'Perform Change' and then 'Tasks Completed' and 'Results Review'), or 'Submit to CCB (Fast Track)'. 'Perform Change' can lead to 'Update Tasks' and 'Initiate Additional Tasks', which then lead to 'Results Review'. 'Results Review' leads to 'Submit to CCB', which then leads to 'Change Control Board Review'. From 'Change Control Board Review', the process can go to 'Approve' (leading to 'Final Approval'), 'Return / Reject' (leading back to 'Preparation'), or 'Request External Review' (leading to 'External Review'). 'External Review' can lead to 'External Rejection Received' (leading back to 'Preparation') or 'External Approval Received' (leading to 'Confirm' and 'Released'). 'Released' leads to 'All Confirmed' and finally 'Implemented'. A yellow callout box notes: 'Fast track submission to CCB is only possible if there are no entries in Task Planning tab'. Another yellow callout box notes: 'If Customer Approval is required per Details of the Change Order, this status becomes mandatory after final CCB approval is done'. The interface also shows a search bar, a user profile, and various navigation icons.

Item Descriptor	Progress	Flag
CO-000016 - LK1	NEW PERFORM CCB REL	...
CO-000005 - Product Update	NEW PERFORM CCB REL	...
CO-000010 - rel	NEW PERFORM CCB REL	...
CO-000014 - Änderung	NEW PERFORM CCB REL	...
CO-000015 - Freigabe	NEW PERFORM CCB REL	...
CO-000012 - CR2	NEW PERFORM CCB REL	...
CO-000009 - Change material supplier	NEW PERFORM CCB REL	...
CO-000011 - update	NEW PERFORM CCB REL	...
CO-000001 - Strengthen fixture	NEW PERFORM CCB REL	...
CO-000007 - Battery Housing Update	NEW PERFORM CCB REL	...
CO-000004 - Initial Release	NEW PERFORM CCB REL	...
CO-000013 - Freigabeprozess	NEW PERFORM CCB REL	...
CO-000006 - New Engine Module	NEW PERFORM CCB REL	...
CO-000008 - Noisy Bearing on Motor	NEW PERFORM CCB REL	...
CO-000003 - Seal is broken	NEW PERFORM CCB REL	...
CO-000002 - Water leaks	NEW PERFORM CCB REL	...

16 out of 16 total records in this view being displayed.

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AUTODESK FUSION LIFECYCLE

# Which is easier to manage? This...

ENGINEERING CHANGE PROCESS

Check box:	Originator:	Target:	Approval:	Complete:	Engineering Change #
ECR					
ECO					
ECN					

Originator: \_\_\_\_\_ Client: \_\_\_\_\_ Contact phone: \_\_\_\_\_

Requested by: \_\_\_\_\_ Development Phase: \_\_\_\_\_ Contact email: \_\_\_\_\_

REASON FOR REQUEST (ECR): \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

PARTS AFFECTED: \_\_\_\_\_

ISSUE DESCRIPTION (ECR): \_\_\_\_\_

DETAILED DESCRIPTION OF PROCESS OR PART CHANGE PROPOSAL (ECO):  
*Engineering Action Required:* \_\_\_\_\_  
*Business Action Required:* \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

SCHEDULE OF ENGINEERING CHANGE (ECO): \_\_\_\_\_

DESCRIPTION OF FINAL RESOLUTION (ECO): \_\_\_\_\_

Annex 4

ENGINEERING CHANGE REQUEST

RECORDED BY: <i>J. Hoff</i>	TYPE OF CHANGE: <input type="checkbox"/> (A) Product <input checked="" type="checkbox"/> (B) Process	CATEGORY: <i>Multiple</i>	ICON NO.: <i>9309</i>
DEPARTMENT: <i>Eng</i>	<input type="checkbox"/> (C) Tooling <input type="checkbox"/> (D) Other <input type="checkbox"/> (E) Travel Blueprints	PART NUMBER: <i>Marked parts</i>	ISSUE IN: <i>Various</i>
DATE OF REQUEST: <i>5-18-04</i>		TRUSTEL COMPANY CODE: _____	CONTRACT NO.: _____
DESCRIPTION OF CHANGE:		PART NUMBER/DOCUMENTS AFFECTED BY THE CHANGE:	
<i>Remove travel prints to remove raw material codes</i>		<i>105249</i> <i>102194</i> <i>101627</i> <i>101606</i> <i>101604</i>	
REASON FOR CHANGE: <i>Raw material codes are no longer valid</i>		BATCH SIZE = _____	
S99 = _____ Customer Code = _____		SHELF LIFE = _____	
CHANGE FROM: <i>58073610 A → B</i> <i>58076440 E → F</i> <i>58076091 D → E</i> <i>58074030 G → H</i> <i>58074650 J → K</i> <i>58074640 I → H</i>		ASSOCIATED SPECIFICATIONS AND SUPPORTING INFORMATION: <i>Marked parts</i>	
<b>ENGINEERING CHANGE NOTICE</b>			
DEPARTMENT/ISSUE/STATUS: _____			
BY: <i>REP. 19 Aug 2004</i>			
PRODUCTION RELEASE: <i>YES</i> / NO			
IMPLEMENTATION DATE: <i>28 Aug 2004</i>			
ESTIMATED COST OF CHANGE: _____			
IMPACT ON SYSTEM (WHERE USED): _____			
APPROVALS:			
DESIGNER: <i>J. Hoff</i>	DESIGN CHECK: _____	ENGINEER: _____	MANAGER: _____
PRODUCT ENGINEERING: <input checked="" type="checkbox"/>	METHODS TEAM: _____	SALES: _____	YES/NO
SALES: _____	MATERIALS LABORATORY: _____	PURCHASING: _____	YES/NO
QUALITY: _____	MATERIAL CONTROL: _____	CAD COORDINATOR: _____	YES/NO
ACCOUNTING: _____	ENVIRONMENTAL: _____		YES/NO

Related Change Information Attached (must use as part of the ECR review and release process and must be completed to receive approval for ECR)

Marked/related drawing  User Manual  Test system(s)

Marked BOM  Standard Operation Guide  Assembly process

Circuit design/Board  Appearance ID

Production tooling (Please describe)  Other (please describe)

ITEMS AFFECTED (check all items that must update ECR)

<input type="checkbox"/> Engineering/Design Functionality	<input type="checkbox"/> Packaging	<input type="checkbox"/> Service Requirements
<input type="checkbox"/> Tooling	<input type="checkbox"/> Labeling	<input type="checkbox"/> Supplier Tooling/Instrumentation
<input type="checkbox"/> Fixtures & Equipment	<input type="checkbox"/> Performance Spec	<input type="checkbox"/> BOM
<input type="checkbox"/> Gages	<input type="checkbox"/> Safety	<input type="checkbox"/> Documentation
<input type="checkbox"/> Validation	<input type="checkbox"/> Work Instructions/Procedures	<input type="checkbox"/> Work Instructions/Procedures
<input type="checkbox"/> Piece Cost	<input type="checkbox"/> Material Specs	<input type="checkbox"/> Environmental Impact
<input type="checkbox"/> Obsolescence	<input type="checkbox"/> Floor Space/Storage	<input type="checkbox"/> Test Systems
<input type="checkbox"/> Standards (i.e. API, Elseworth, SEC, etc.)	<input type="checkbox"/> Varying	<input type="checkbox"/> Photocopying Systems
<input type="checkbox"/> Certification/Compliance (i.e. FCC, CE, CCC, etc.)	<input type="checkbox"/> Dimensional/Tolerance	<input type="checkbox"/> Other (describe)
<input type="checkbox"/> Shipping/Receiving	<input type="checkbox"/> Styling/Appearance/Color	
<input type="checkbox"/> Inventory		

INVENTORY PLANNING (required for ECR)

Supplier(s) bank required before change	Yes	No	Yes	No
Internal Call bank required before change	Yes	No	Yes	No
No affect				
Extra material				
WIP (raw code change)				

Planning change (use unit depicted)

Revok All inventory (immediate)

Revok All inventory (after ECR complete)

Coordinated change

APPROVALS (ECR & ECO):

Name:	Signature:	Date:
Originator:		
Project Manager:		
Manufacturing Ops:		
CM:		
Client Representative:		
Industrial Engineering Lead:		
Mechanical Engineering Lead:		
Electrical Engineering Lead:		

# Or This...

Home > Change Orders

Details | Affected Items | Change Tasks | Material Disposition | Approval Workflow | More +

Summary (1 of 7)

Number

\* Title

Priority

Details (2 of 7)

\* Change Reason Code

Description of Change

Approval Routing (3 of 7)

\* Team

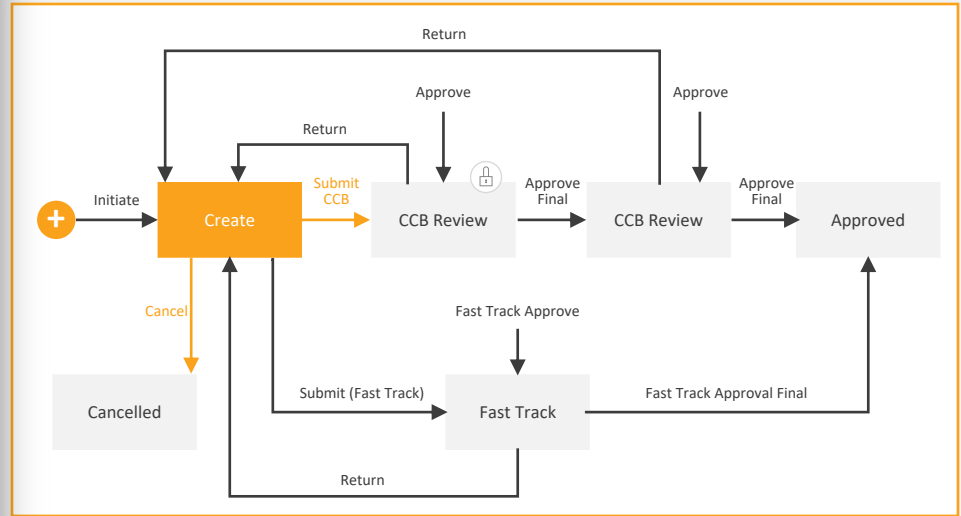
Team (4 of 7)

Choose the people who the change order will be routed to

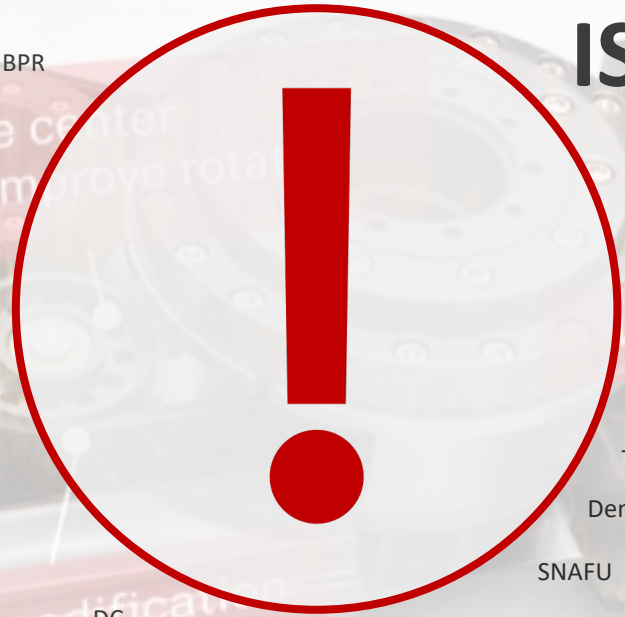
	Predefined Approvers	Ad Hoc Approvers	Approved By	Remaining Approvers
Stage 1/Fast Track Approval		<input type="text" value="Select"/>		
Stage 2/CCB Approval		<input type="text" value="Select"/>		

References (5 of 7)

Related Change Request







**DFSS**

**Change**

**Management**

**Process Engineering**

**Deviation**

**Taguchi**

**QMS**

**Kaizen**

**ECR**

**Control Limits**

**DFM**

**Variation**

**Plan-Do-Check-Act**

**Hoshin**

**ISO**

**Control**

**TQC**

**Pareto**

**NIST**

**RoHS**

**Compliance**

**Ishikawa**

**PERT**

**TQM**

**FMEA**

**FDA**

**APQC**

**CQI**

**DFA**

**ASQC**

**CWQC**

**USL**

**SPC**

**CQT**

**WIP**

**TOC**

**MRP**

**CAPA**

**LTPD**

**Deming**

**WCM**

**RPD**

**DOE**

**Benchmarking**

**EFQM**

**SNAFU**

**Zero Defect**

**DMAIC**

**ANOVA**

**MAD**

**RCA**

**CWQI**

**Fishbone**

**Range Charts**

**FAA**

**EU**

**PONQ**

**QA**

**FTA**

**QMS**

**AQL**

**TQI**

**BFCE**

**BPR**

**ASQ**

**Cost Of Quality**

**CSP**

**LCL**

**QOS**

**QWL**

**ECN**

**MTBF**

**QFD**

**UCL**

**SQB**

**REACH**

**APQP**

**DFD**

**SQC**

**EQA**

**FMEA**

**ISO**

**DC**

**FMECA**

**CAR**

**Variation**

**CWQI**

**RCA**

**DMAIC**

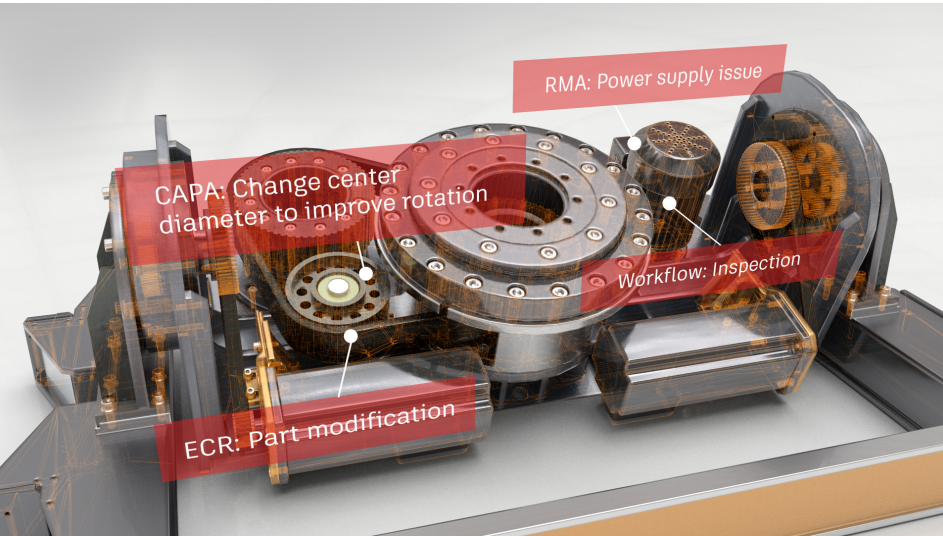
**RCA**

**Powerflow: inspecting**

**APQC: Change center diameter to improve rotational**

**BMA: Power Sup**

# Quality Management



**Getting quality and change processes under control**

**Automate workflows to control your quality chain from nonconformance identification and analysis to RMA, CAPA, and engineering change.**

**We have a closed loop process.**

Configurable workflows coordinate and track cross-functional quality management processes.

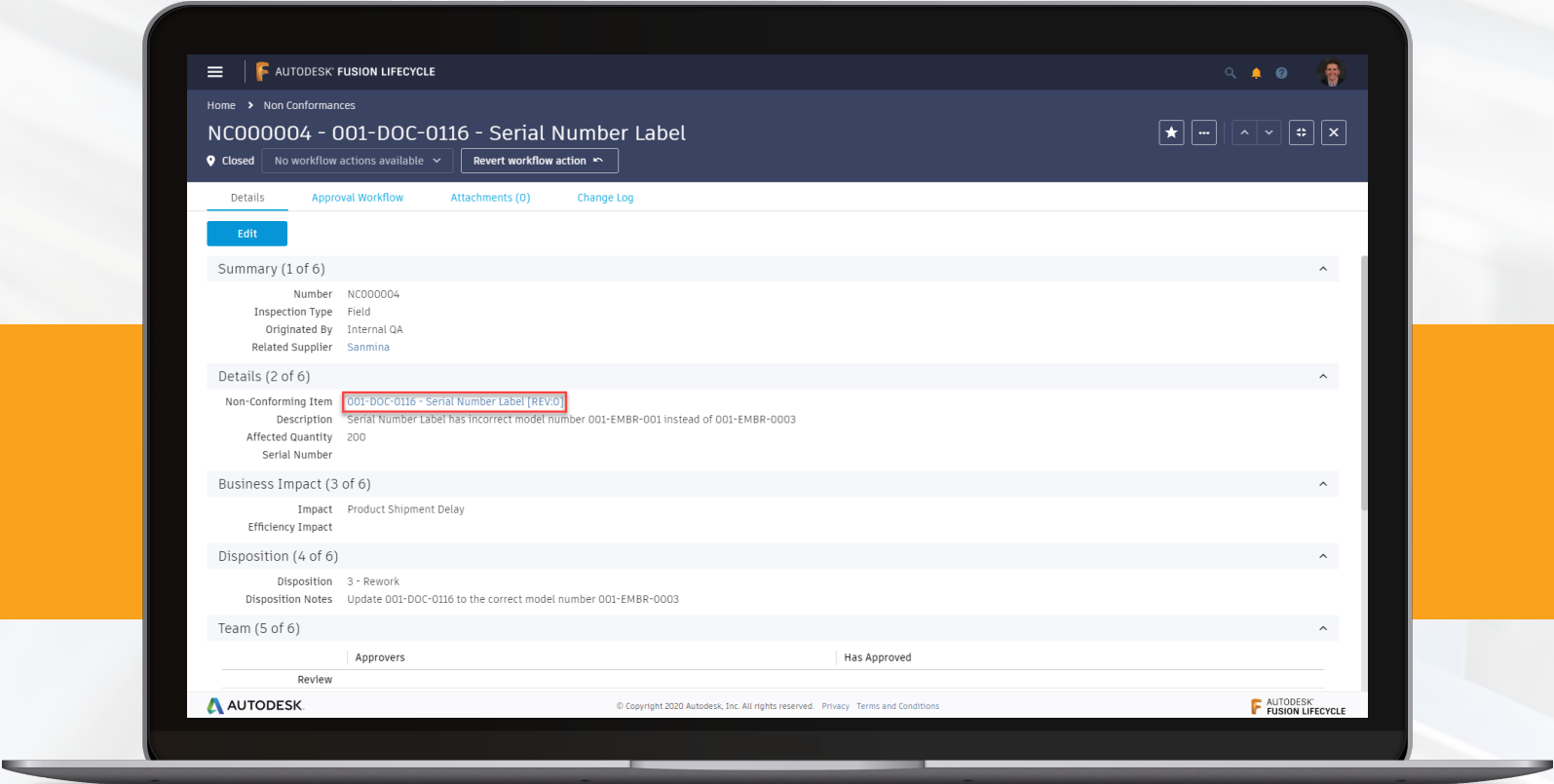
**We have an audit trail.**

In-progress or completed processes, whether related to change, quality, or any other discipline, are fully traceable.

**Our brand is stronger.**

A 360 degree view of your quality data and critical processes helps you prevent and respond rapidly to quality issues.

# Non Conformance Reports on BOM Items



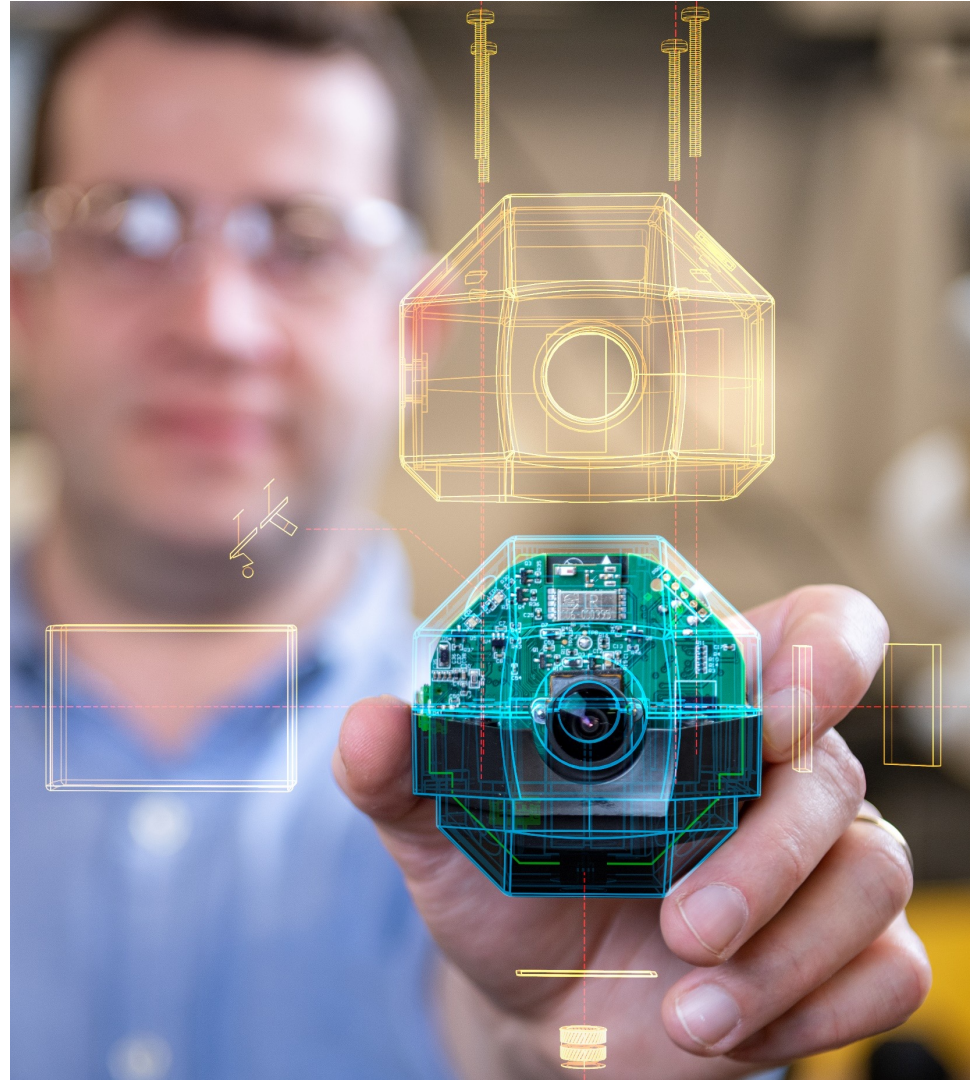


# Why Autodesk PLM?

# PLM that is attainable

PLM should be easy to access,  
easy to configure, easy to adopt

- Instant-on
- Flexible and easy to tailor to your requirements
- Accessible from a browser or mobile device
- Quick for users to grasp
- Easy to expand without extra costs
- Easy to integrate with other business systems



# What do you get with Autodesk PLM?

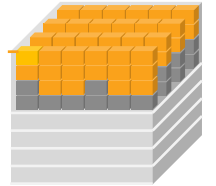
*Think Furnished Apartment...*



Workspaces





Autodesk PLM




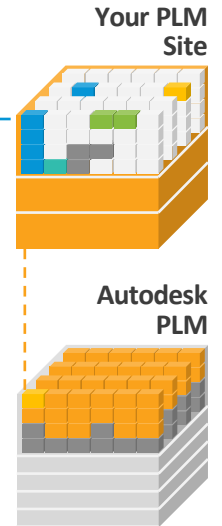
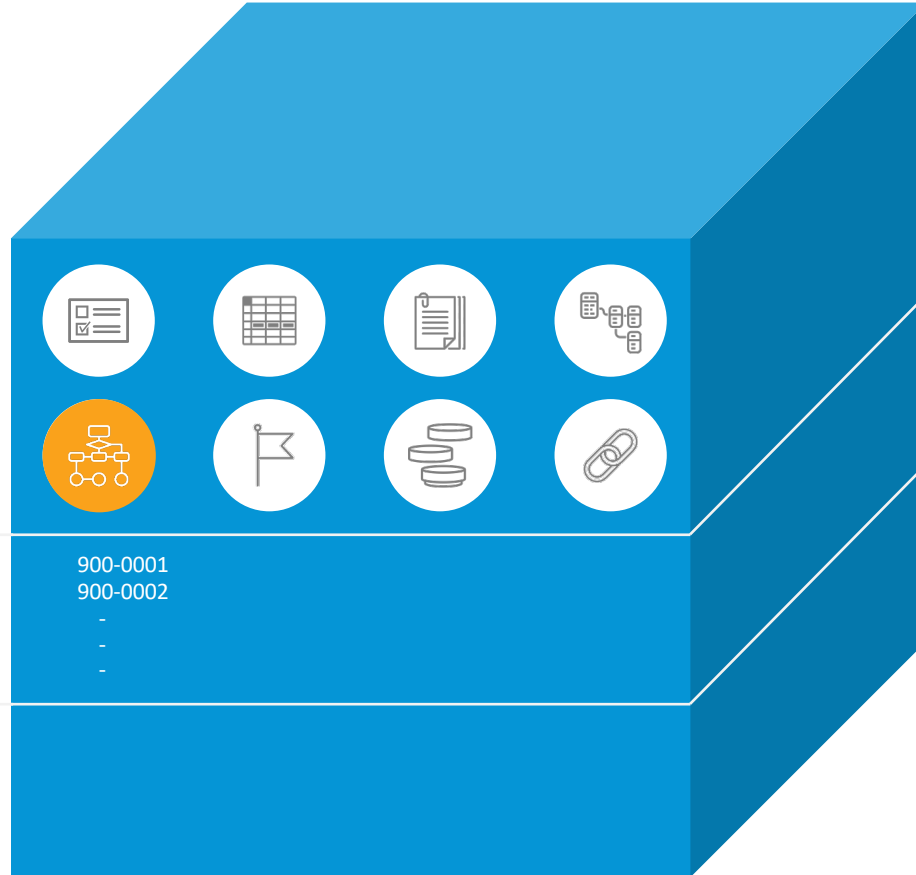
# Workspaces Defined

Each Workspace has:

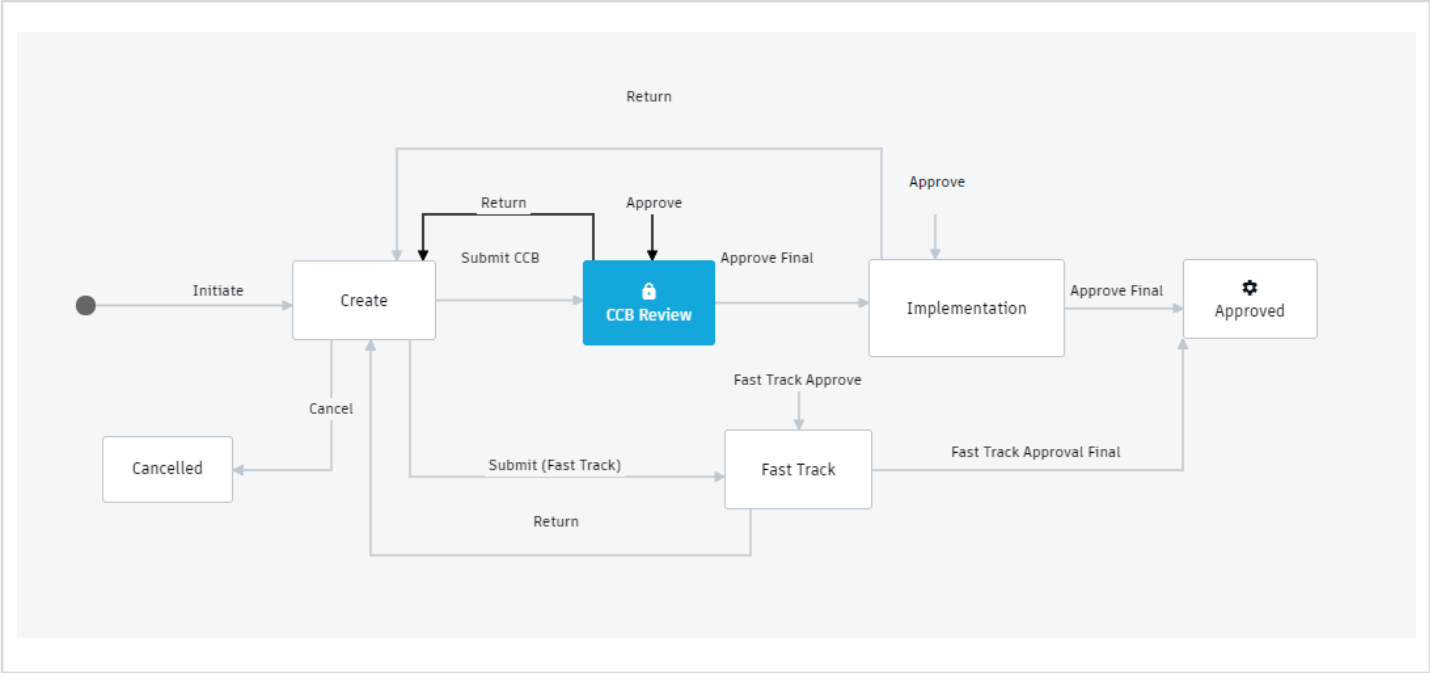
 Configurable Process / Workflow

 Unique Record numbering, Properties

 Behavior / Goal



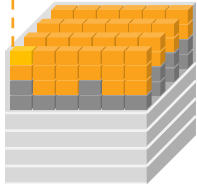
# Workspace Workflow



Customer Tenant

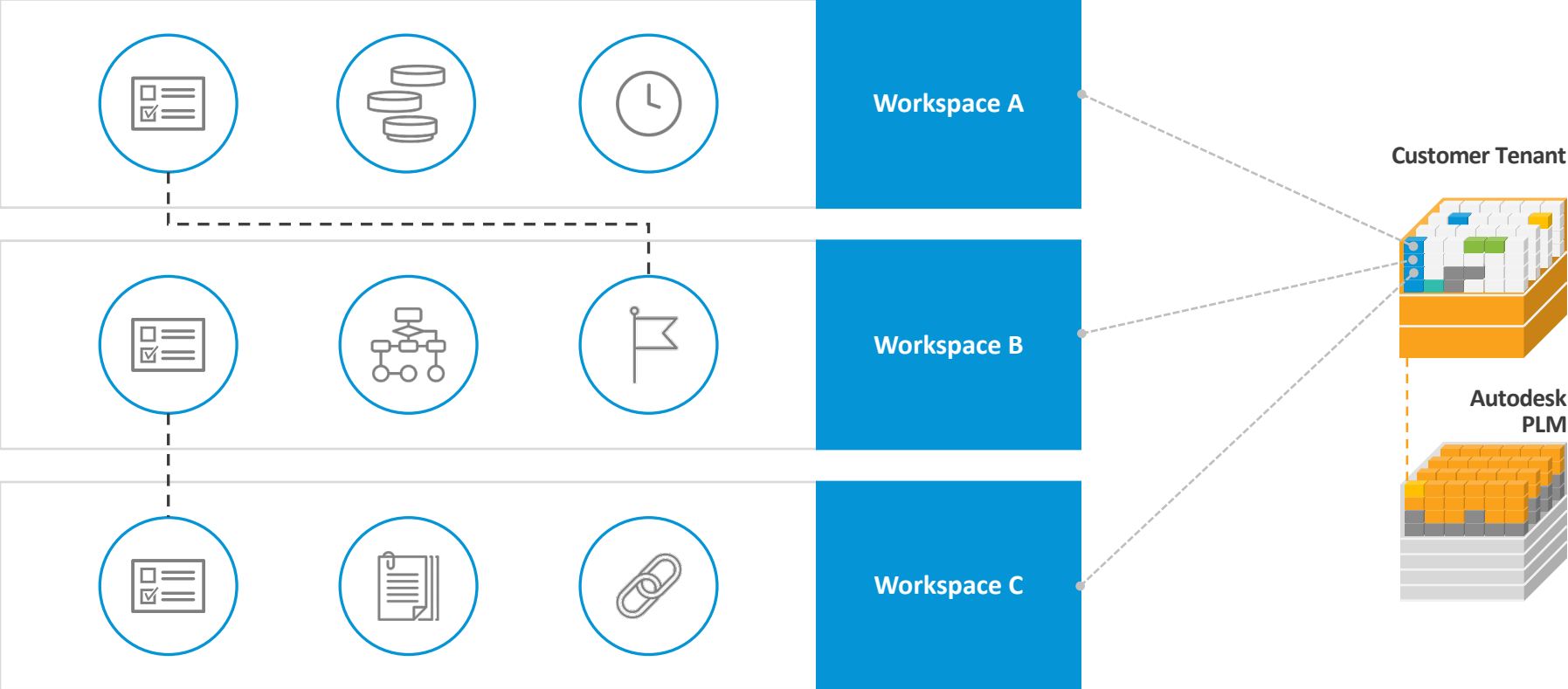


Autodesk  
PLM

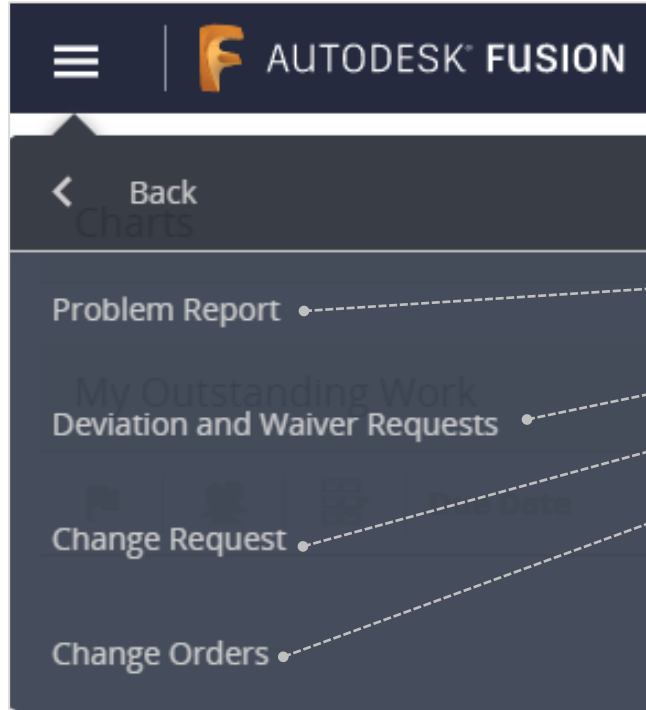




# Connected Processes



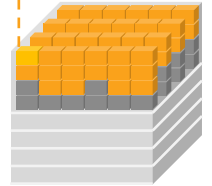
# Workspaces and Apps in Autodesk PLM



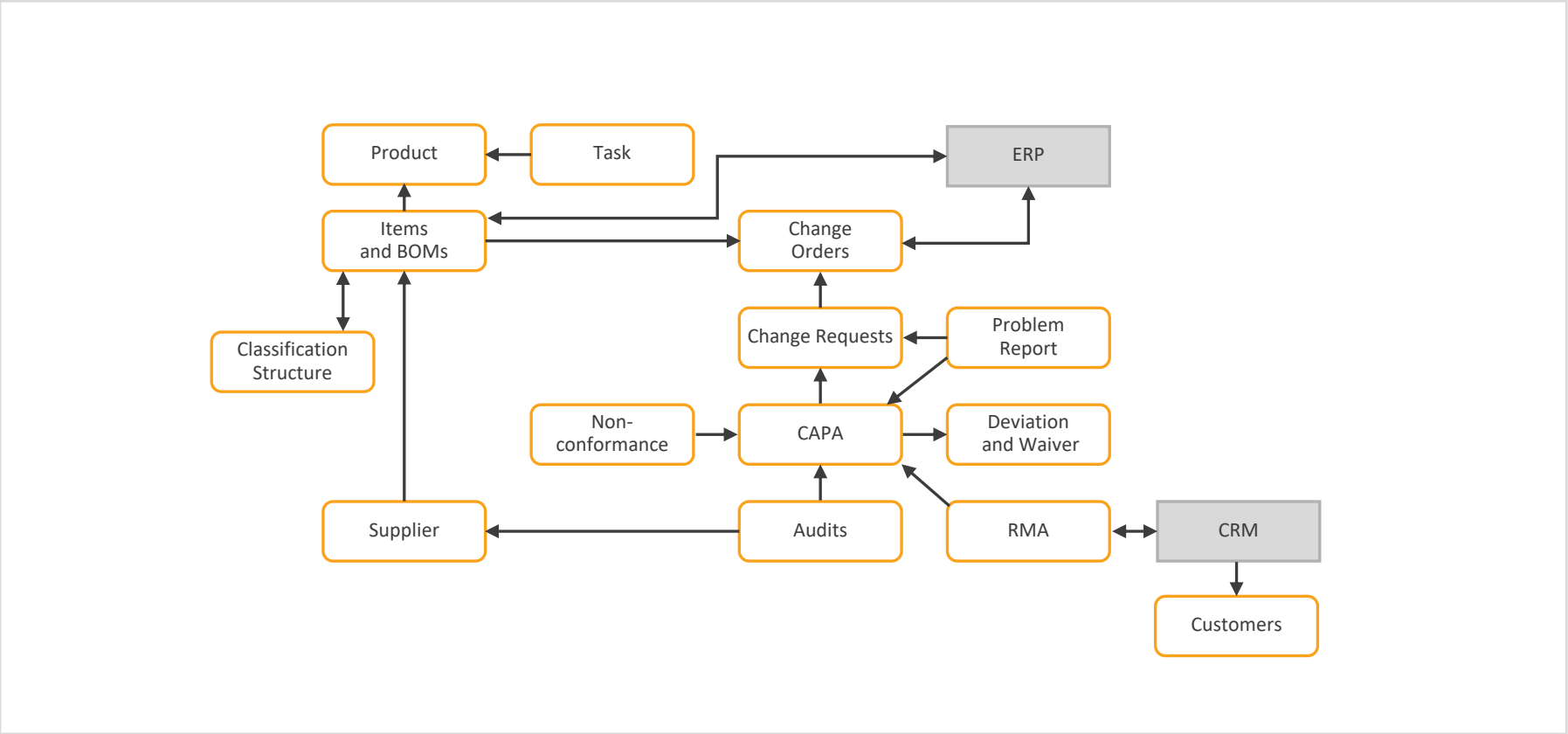
Customer Tenant



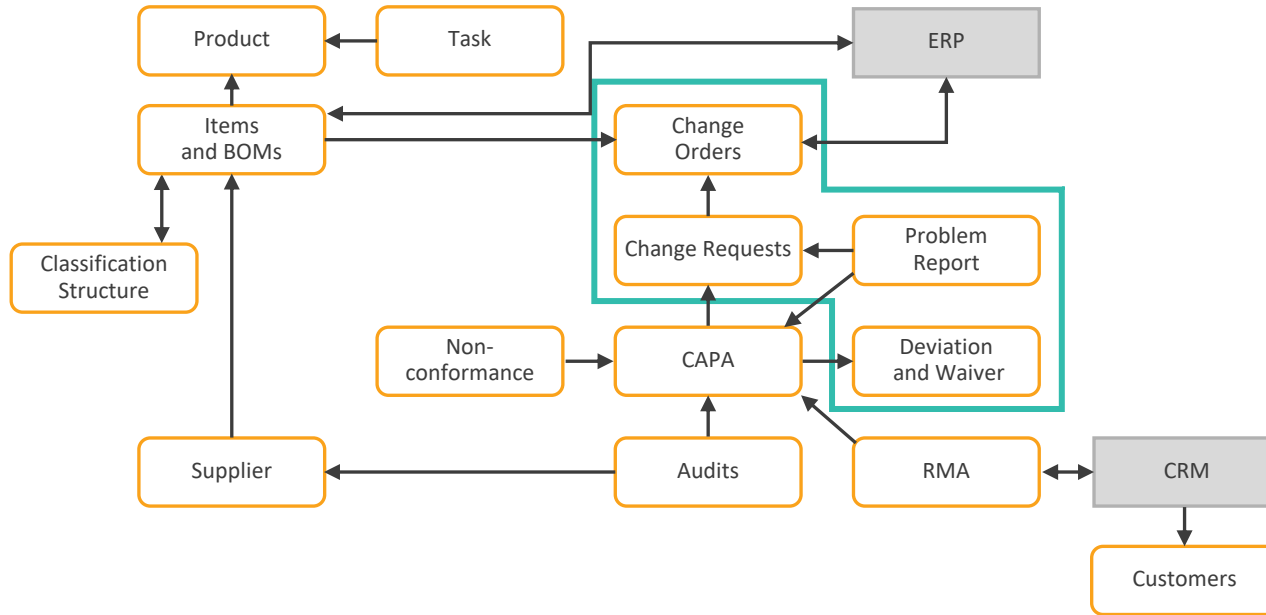
Autodesk  
PLM



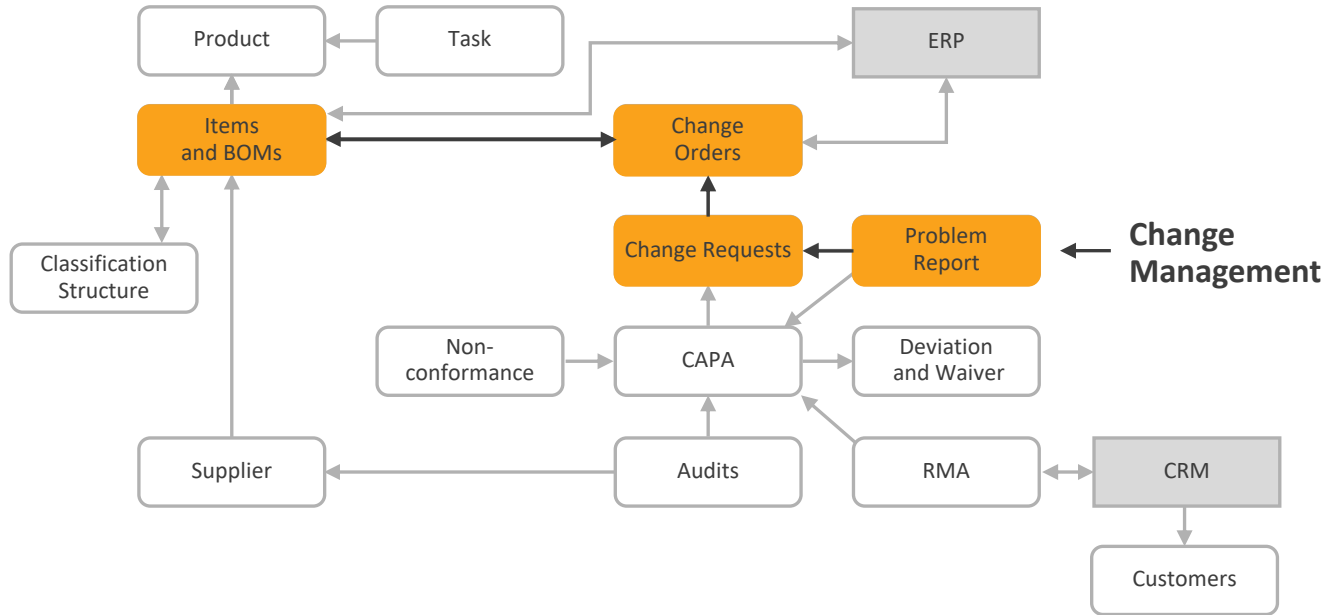
# Preconfigured Autodesk PLM Site



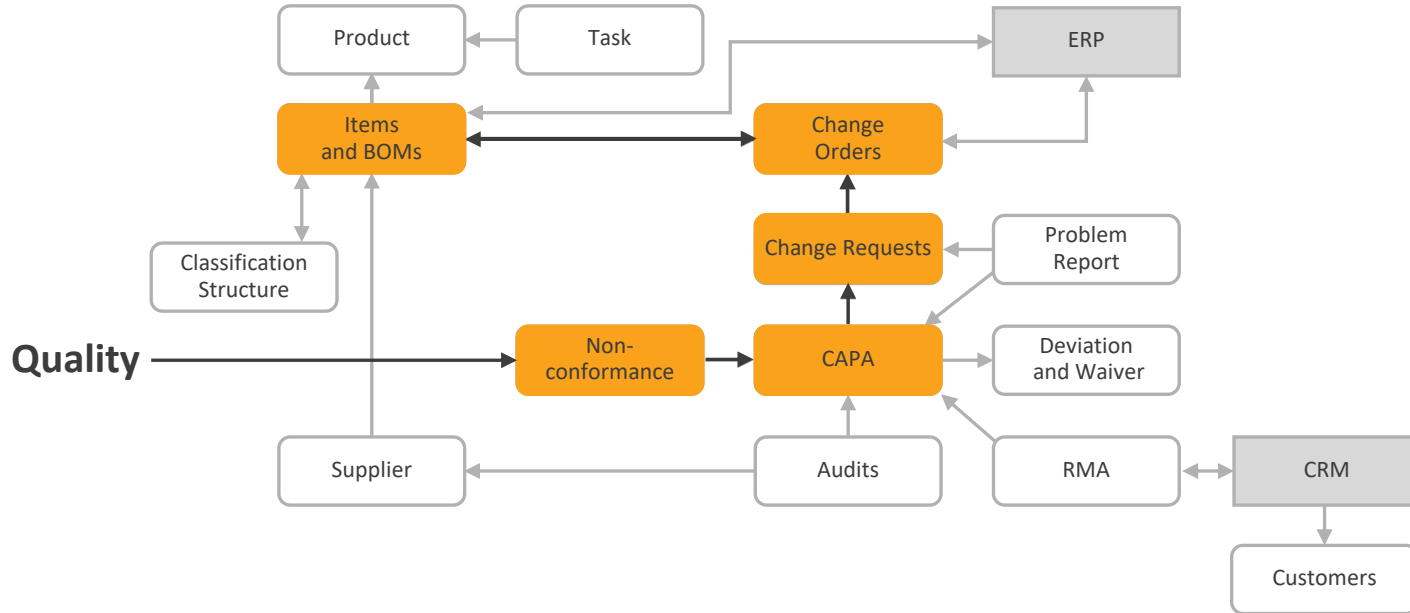
# Change Management in Autodesk PLM



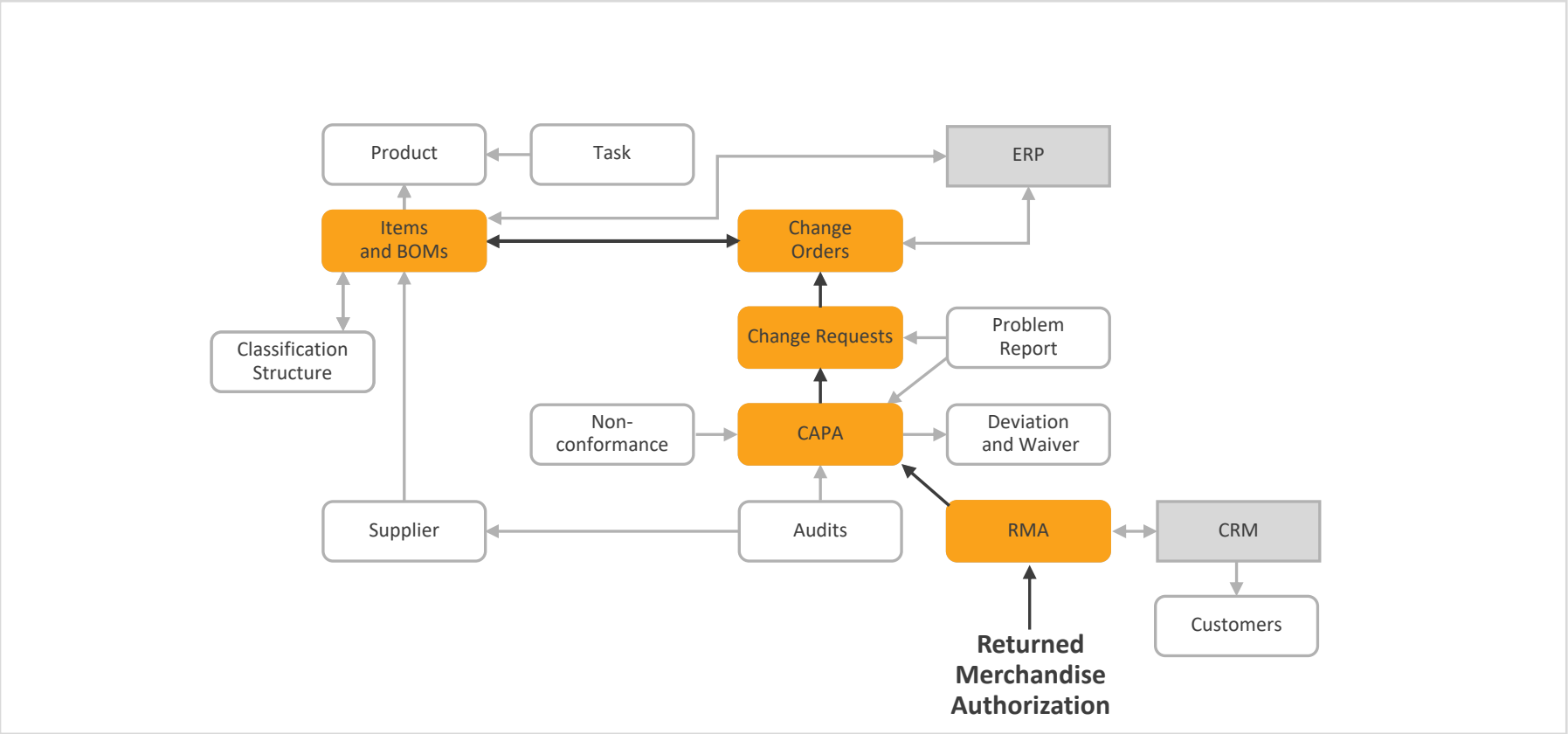
# Change Management Workflows



# Quality Management Workflows

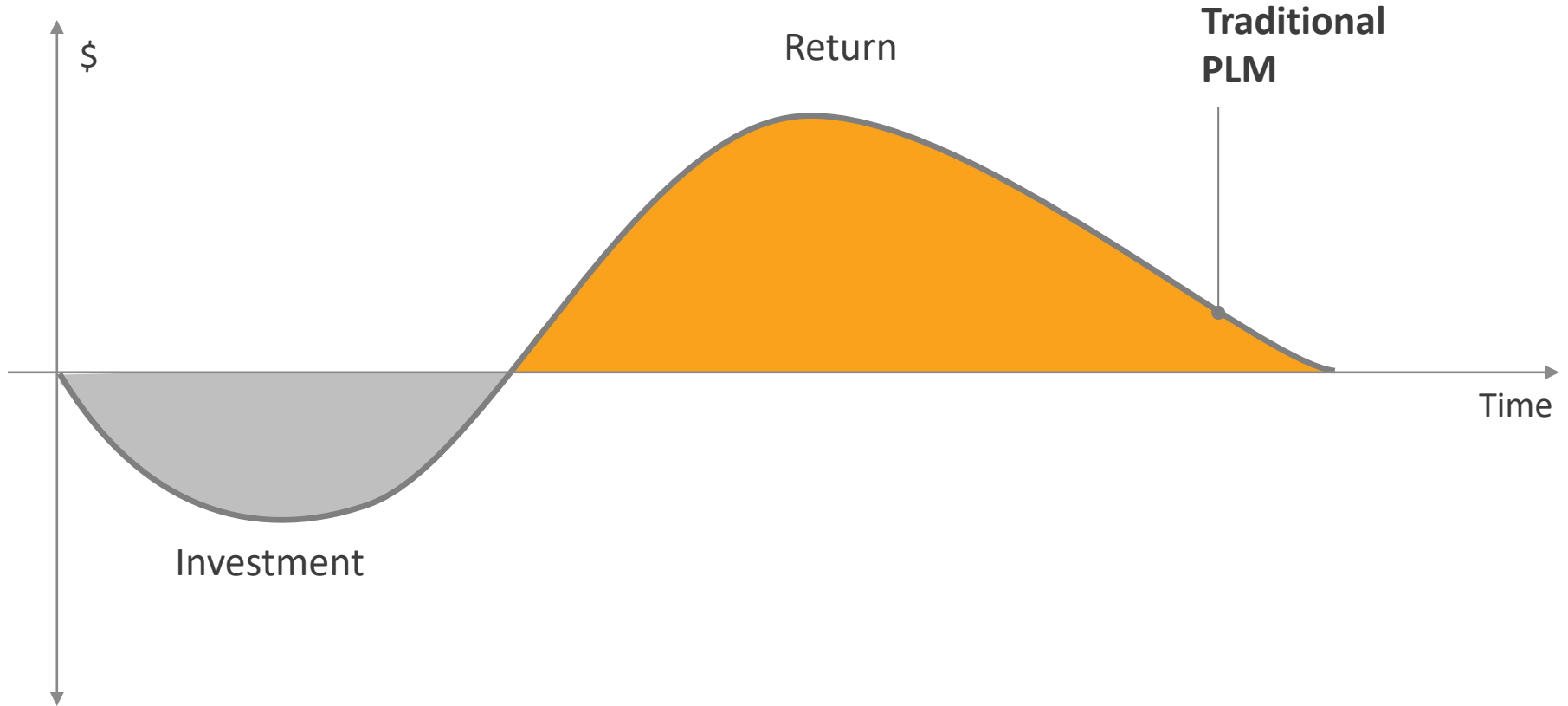


# Return Merchandise Authorization Workflows



# Autodesk PLM vs. Other PLM Solutions

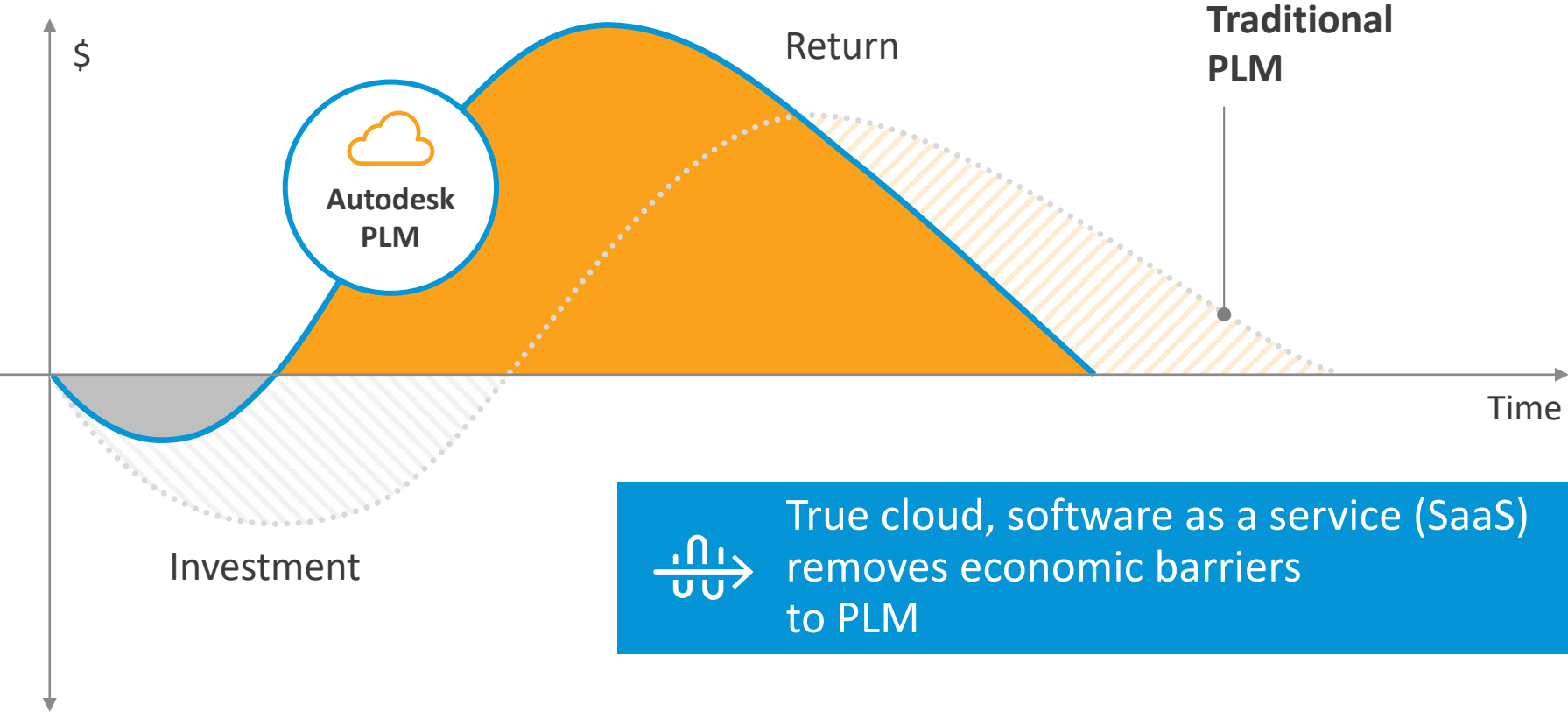
Time-to-Value (TtV)





# Cloud vs. On-Premise PLM

Time-to-Value (TtV)



# Anytime, Anywhere Access



Mobile



Modern



# Autodesk PLM App Store



## Quality Management

Quality Management Powered by Autodesk Fusion Lifecycle delivers the tools manufacturers need to collect and analyze quality data, define inspection standards, track and communicate non-

[More information](#)



## FMEA Analysis

Use the Failure mode and effect analysis (FMEA) app to review as your components, assemblies, and subsystems and record the results for each type for Functional, Design or Process FMEA analysis.

[More information](#)



## Document Control

The Document Control App powered by Autodesk Fusion Lifecycle provides an effective and secure means to distribute, enforce standards, and manage change of your documents.

[More information](#)



## Supplier Quarterly Business Review (SQBR)

Supplier Quarterly Business Review (SQBR) helps everyone in the organization to visualize the Supplier Performance.

[More information](#)



## Lean 5S Auditing

The Lean 5S Audit app, helps you to check that all the 5S processes have been carried out correctly. This app helps you to audit the processes for Sort, Straighten, Shine, Standardization and Sustain.

[More information](#)



## Accident Reports

Avoid penalties and keep a complete record of work-related injuries with the Accident Report App powered by Autodesk Fusion Lifecycle.

[More information](#)



## Customer Management

The Customer Management App powered by Autodesk Fusion Lifecycle can connect your customer data to all of your processes currently or soon to be managed by Autodesk Fusion Lifecycle.

[More information](#)



## Supplier Corrective Action Request (SCAR)

A supplier quality action report (SCAR) was derived from the need to issue suppliers a corrective action to a problem that occurred due to their product or service. As a way to differentiate this from an internal



## Manufacturing Asset Management

Get the tools you need to collect and analyze data related to assets so you can keep them available and in good shape.

[More information](#)



## Field Failure Request

The Field Failure Request App powered by Autodesk Fusion Lifecycle enables your field technicians to communicate quality issues onsite on any device, and at any time.

[More information](#)



## Marketing Asset Management

Marketing Asset Management app can be used for the management, control, tracking, and distribution of brand assets, marketing materials, sales tools and creative materials.

[More information](#)



## Octopart - Item & BOM

The Octopart - Item & BOM app allows you to create part items that link automatically to the Octopart search engine. Octopart develops search technology to help design engineers and part purchasers to find



## Equipment calibration

Equipment calibration is a necessary part of any production line, calibration can be painless with proper planning and tracking. With Equipment calibration app you can add all of your calibration

[More information](#)



## Return Merchandise Authorization

The Return Merchandise Authorization App powered by Autodesk Fusion Lifecycle provides a standardized and repeatable means to manage the RMA process.

[More information](#)



## CE Marking

Use the CE Marking App to manage your approval stages needed for the affixing of the CE marking on your product. Track when the EC Declaration Of Conformity is completed and get a automatically

[More information](#)



## Training

Install the Training Workspace to manage employee training with Autodesk Fusion Lifecycle.

[More information](#)

# Autodesk PLM



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## ONLINE

Access data any time,  
from anywhere



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## EASY

Simple UI minimizes training  
and maximizes acceptance

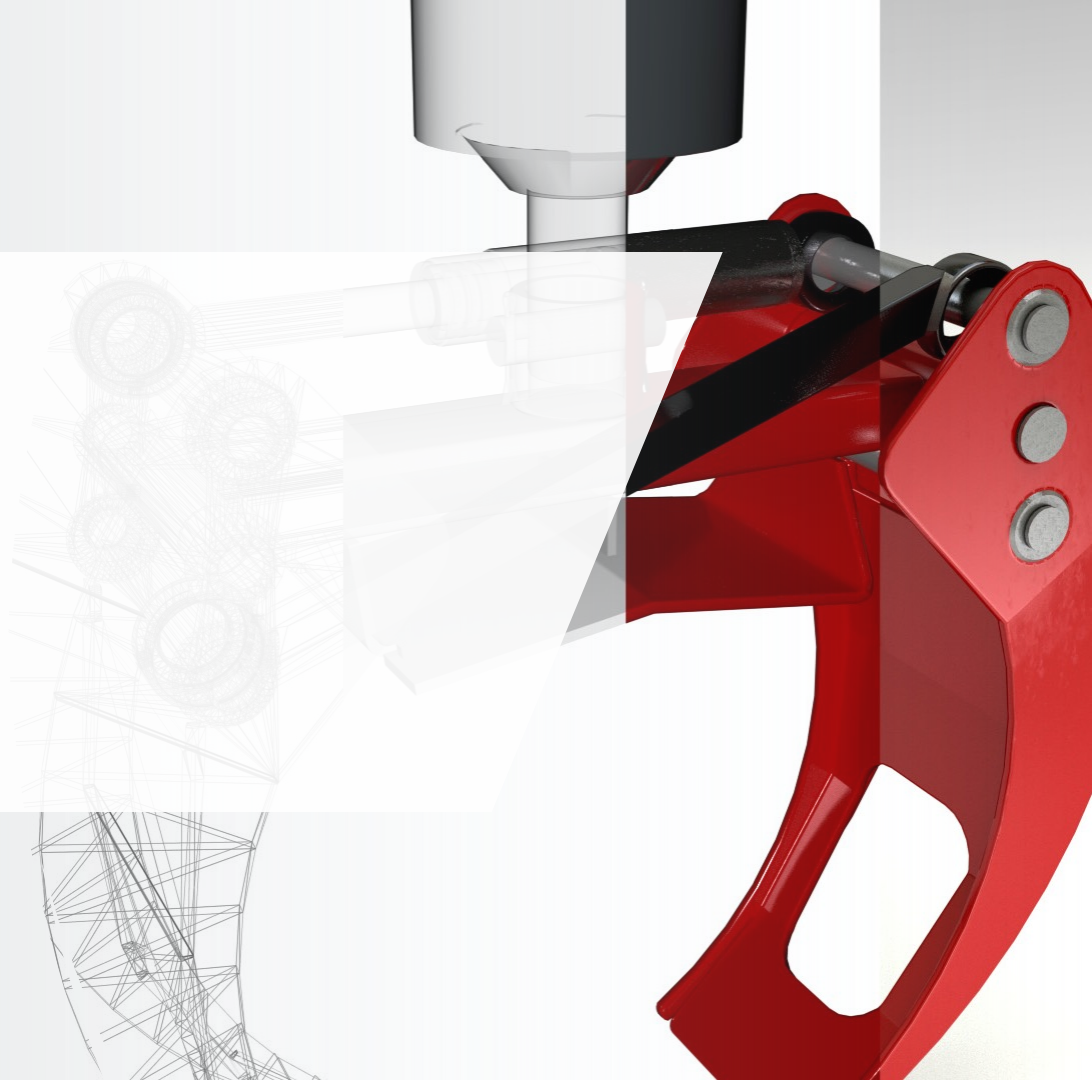


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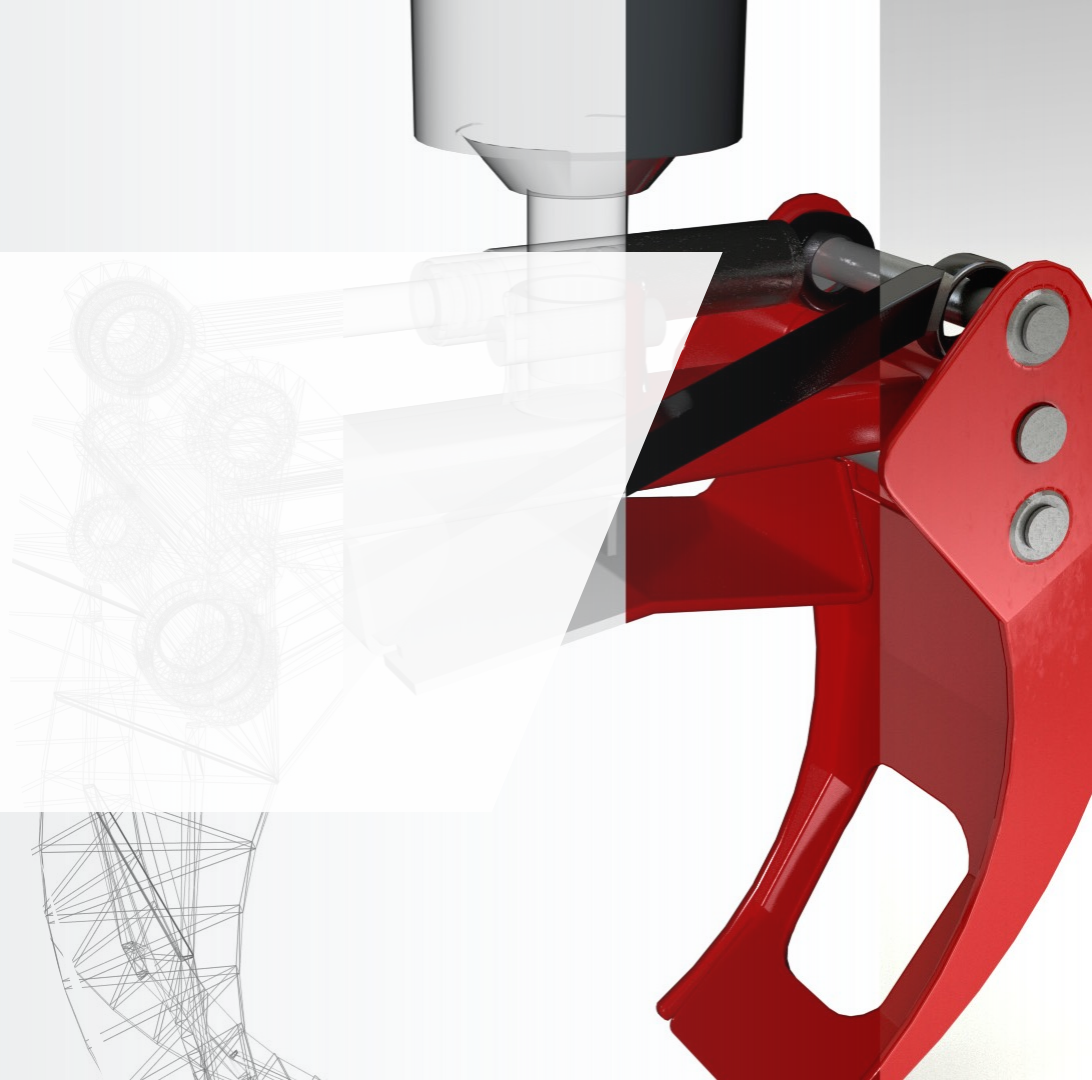
## APP STORE

Extend your environment  
with templates and  
integration tools

Thank You.



Questions?





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Make anything™



Poll

