

Gain Business Insights to Improve Decision Making and Lifecycle Efficiency

Session #473686

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Autodesk Fusion Lifecycle Product Specialists



THE COST OF POOR PROCESSES

~80% of New Product
Introductions Can Fail

Source: Extending PDM Beyond Design Data Management
Tech-Clarity, Inc. 2019

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

File Name: 2020-19-00.iam

Workflow State: WIP

Testing:
Under review

C0000042
Revision B
Effective Date: 3/9/2019
Changed screw length

COMPLEXITY

Deal with increasing complexity of data
& processes to keep control

Supplier Name: Prokos Corp.
Supplier Status: Active
Next Evaluation: 11/06/2022
PO Status: Received

An aerial, high-angle photograph of a busy city intersection at night. The scene is filled with numerous vehicles, including cars, vans, and buses, all illuminated by the warm, yellowish light of street lamps. The traffic is dense, with vehicles packed closely together, suggesting a congested environment. The perspective is from directly above, looking down on the scene.

INEFFICIENCIES

Identify & Eliminate established
inefficiencies in collaboration

A close-up photograph of a racing steering wheel. The wheel is black with a carbon fiber texture on the top and sides. It features several buttons: a blue button on the left, a yellow button below it, a red button on the right, and a yellow button below it. A digital display in the center shows a large red 'N' for neutral, a tachometer scale from 1 to 8 RPM, and various gauges for BAR, TEMP, WATER, and AIR. Below the display are four more buttons: two black, one white, and one green. The steering wheel is mounted on a black leather seat with red stitching.

CONTROL

Standardize business process execution
and make decision based on insights



Sales

CRM



Engineering

PDM



Preproduction

ERP



Production

MES



Service

?

New Product Introduction

Non Conformances

Change Order

Requests for Quote

Product Maintenance



Sales

CRM



Engineering

PDM



Preproduction

ERP




Production

MES




Service


?




Status Report
W23




New Part
List




P003 Tasks




Approved Design
Rev C




BOM V4




Non Conformance




Schedule 11/19




Concept Design to
review




Audit Result




Supplier Scorecard
V4-1




Requirements V2.1




New Claim



Open Issues
P002



Open Issues
P001-1



PR000001-1



Sales

CRM



Engineering

PDM



Preproduction

ERP



Production

MES



Service

?

PRODUCT LIFECYCLE MANAGEMENT

Improve operational efficiency and gain key insights to continuously reduce cost, delays and errors

Sales

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?

SMART ONLINE DATA

Configurable forms enabling
concurrent changes,
validations, formulas,
highlighting, filtering, access
control and full traceability

Make product data online
for everyone on any
platform

Header (1 of 4)

ID0008

TypeOrder

TitlePower supply components

SupplierIntersil

Creation Date30.07.2019

Status

Review

InstructionsThe package has been processed by the supplier. Please review the given delivery and close this process afterwards if expectations are met.

Line Item Counters (2 of 4)

	Ratio	New	Modified	Repeated	Total
Item Count	<div></div>	3	1	4	8

FTP Details (3 of 4)

FTP Link

ftp://download.autodesk.com/packages/arrow/0003.zip

FTP Username

sup-arrow

FTP Password

pass123

Contacts (4 of 4)

	Supplier	Requestor
Contact Person	Meyers, Marc	Dickmans, Sven
Phone	+49 (0) 7056 77 20 934	+49 (0) 151 62 82 15 81
Mail	mike@fusion.rocks	sven.dickmans@autodesk.com
Address	Schickardstr. 10, 56831 Bielefeld	Aidenbachstr. 56, 81379 München

Owner and Change Summary

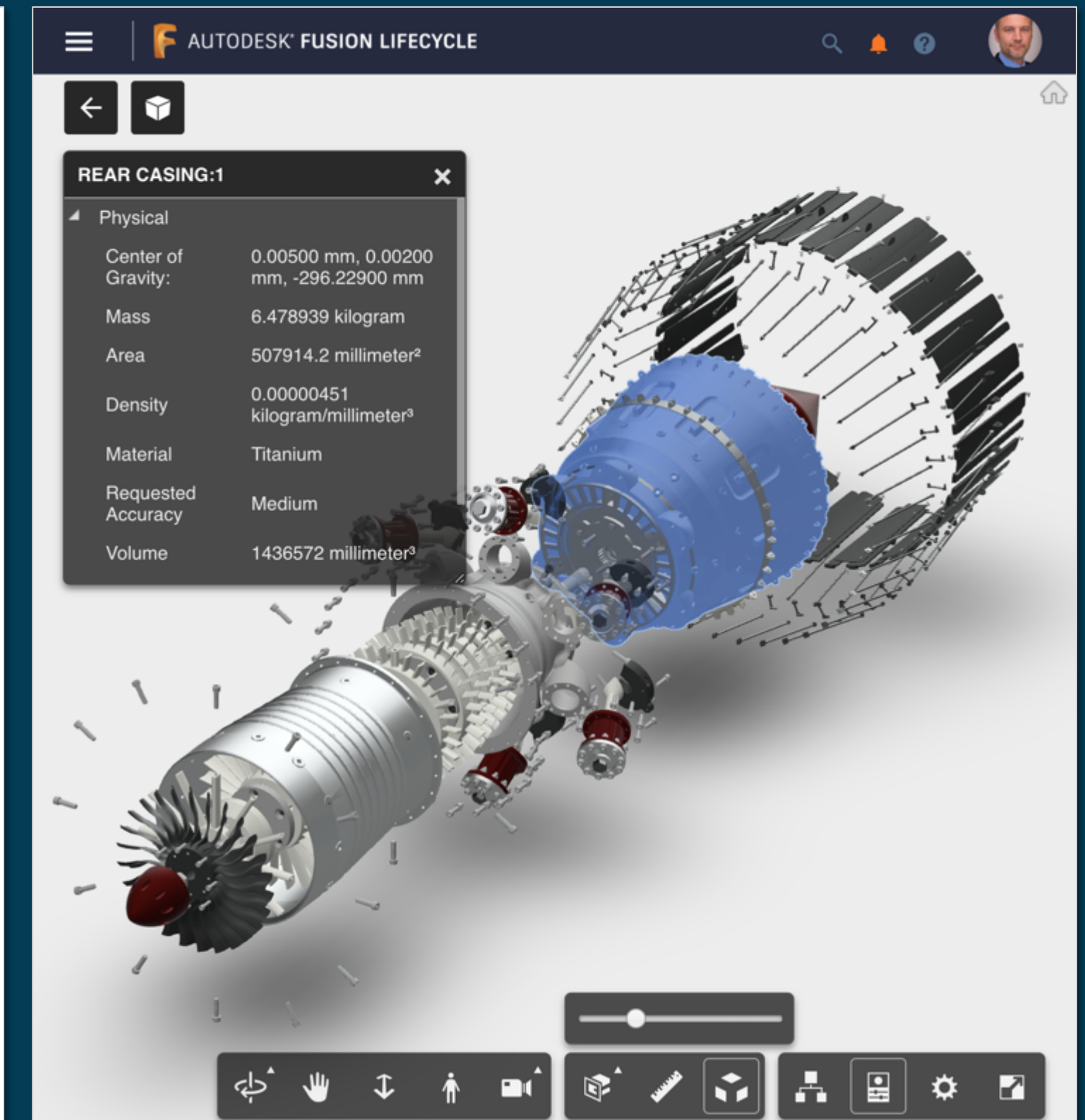
Change Summary

Created on 31.07.2019 01:12 PM

By Sven Dickmans

Last modified on 31.07.2019 05:36 PM

By Sven Dickmans



Basic (1 of 10)

Number

P-000004

Title

Project 4

Description

Start Date

18.03.2020

Template

Standard

Assessment

★★★★

Details (2 of 10)

KPIs (3 of 10)

	Progress	Budget Consumption	Status	Days to next Gate
Project KPIs	<div><div>G1</div><div>G2</div><div>G3</div><div>G4</div><div>G5</div></div>	<div>22%</div>	<div><div>S</div><div>R</div><div>B</div><div>R</div></div>	103

Schedule (4 of 10)

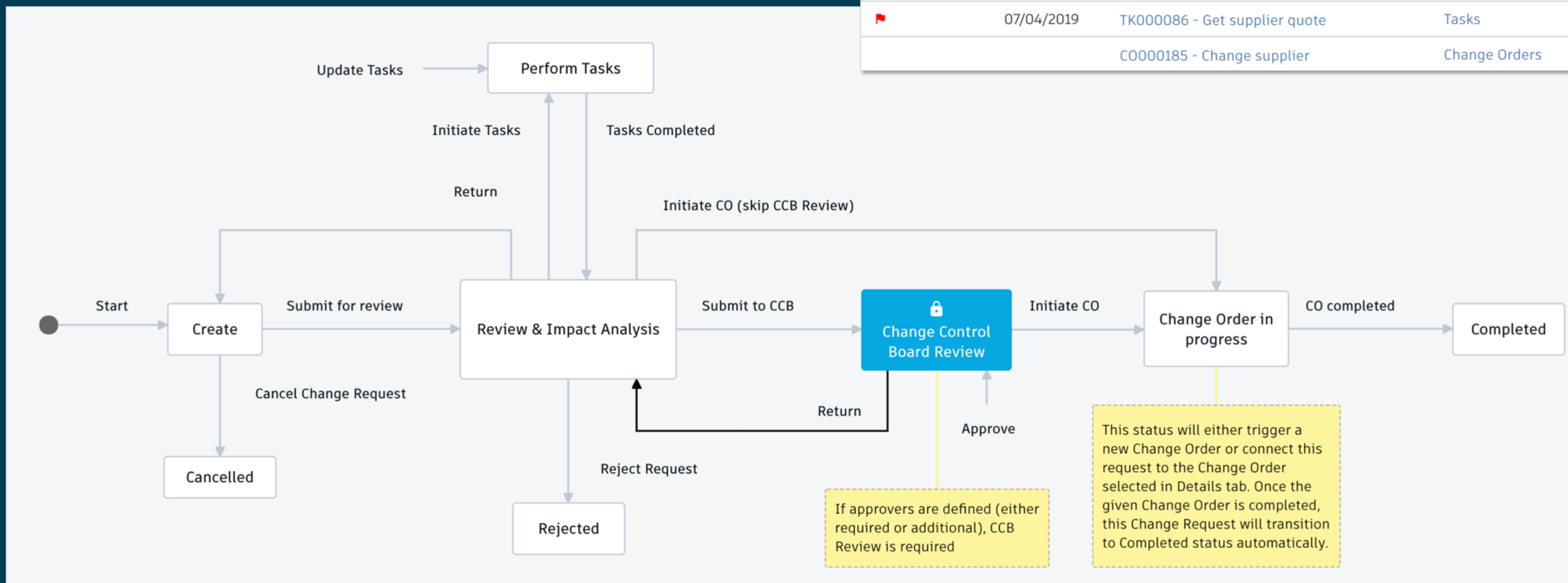
	Specification	Concept	Development	Validation	Production
Target Start	18.03.2020	28.05.2020	07.07.2020	28.07.2020	18.08.2020
Target Completion Date	21.05.2020	29.06.2020	17.07.2020	07.08.2020	28.08.2020
Target Duration	64 (days)	32 (days)	10 (days)	10 (days)	10 (days)

Financial Impact Assessment (8 of 10)	
	Cost Impact (+/-)
Labor	300 (\$)
Material	200 (\$)
Tooling	0 (\$)
Sourcing	200 (\$)
TOTAL	700 (\$)
Efforts Assessment (9 of 10)	
	Efforts
Mechanical Engineering	4 (hours)
Electrical Engineering	2 (hours)
Software Engineering	0 (hours)
Preproduction	2 (hours)
Production	0 (hours)
TOTAL	8 (hours)

WORKFLOWS TO GUIDE & TRACK

Define standardised process flows, responsibilities & notifications to increase business process efficiency.

My Outstanding Work								Last updated: 10/06/2020 04:04 PM	
			Due Date	Item Name	Workspace	State	State Set On	State Set By	
			07/06/2020	TK000215 - Customer requirements	Tasks	[2] Assigned	07/08/2020	Peter Van Avondt	
			07/08/2020	DRT0143 - Reduce Material	Design Review Tasks	Assigned	07/07/2020	Peter Van Avondt	
			04/01/2020	DRT0138 - Alternate Components o...	Design Review Tasks	Assigned	04/01/2020	Demir Ali	
			11/21/2019	DRT0088 - Material Change to Plas...	Design Review Tasks	Assigned	07/11/2019	Lee Worton	
			07/19/2019	DRT0086 - Check Interference	Design Review Tasks	Assigned	07/11/2019	Lee Worton	
			07/04/2019	TK000086 - Get supplier quote	Tasks	[4] Review	06/13/2019	Job User	
				CO000185 - Change supplier	Change Orders	Create	06/04/2019	Sven Dickmans	



Number	Progress ↓			
CR-000012	NEW	REV	CCB	CO
CR-000002	NEW	REV	CCB	CO
CR-000010	NEW	REV	CCB	CO
CR-000004	NEW	REV	CCB	CO
CR-000006	NEW	REV	CCB	CO
CR-000009	NEW	REV	CCB	CO
CR-000011	NEW	REV	CCB	CO
CR-000005	NEW	REV	CCB	CO
CR-000001	NEW	REV	CCB	CO
CR-000003	NEW	REV	CCB	CO

REAL TIME STATUS

Identify & resolve bottlenecks and delays in time by user defined dashboards

Home > Tasks

+

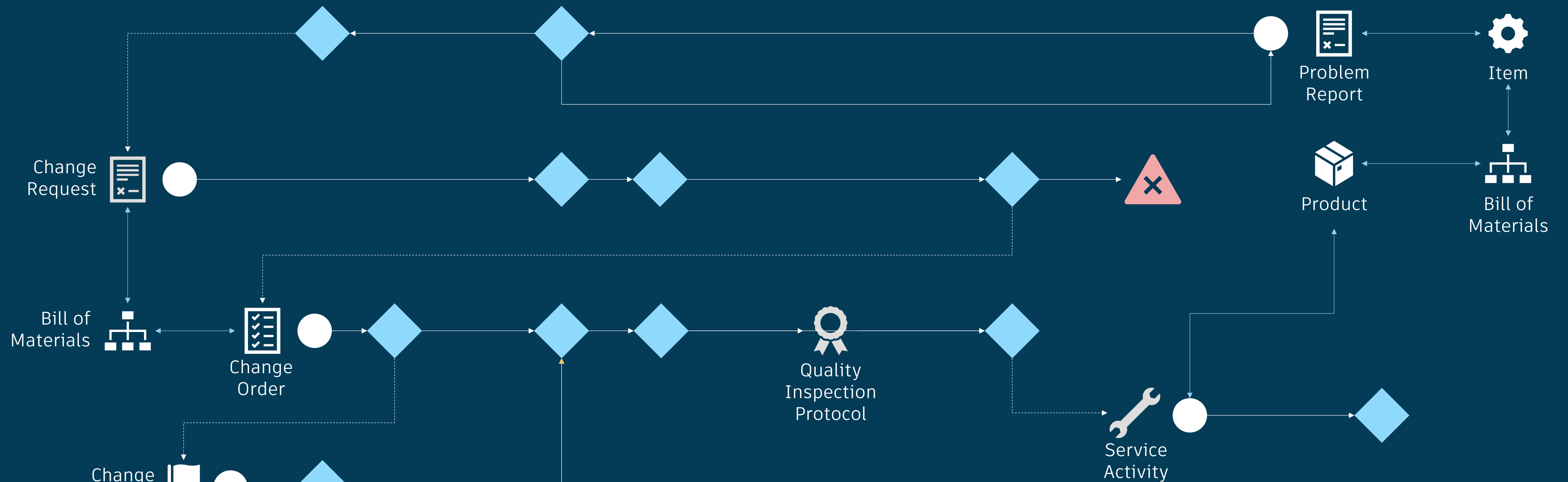
In Work (8) ▾

Item Descriptor	Progress Bar ▾	Flag ▾	Last Upda... ▾	Days Remaining
TK-0106 - Request drawing update by supplier	90%	...	14.01.2019	2
TK-0112 - Validate new customer requirement	80%	.	14.01.2019	16
TK-0116 - Provide Costing	75%	...	01.03.2019	-8
TK-0111 - Design Review	75%	...	14.01.2019	24
TK-0119 - Concept Design	25%	..	14.01.2019	24
TK-0199 - Electronics	0%	?		0
TK-0201 - Documentation	0%	?		21
TK-0204 - Provide Technical Specification	0%	?		-522



PRODUCT LIFECYCLE MANAGEMENT

Improve operational efficiency and gain key insights to continuously reduce cost, delays and errors



Sales

Engineering

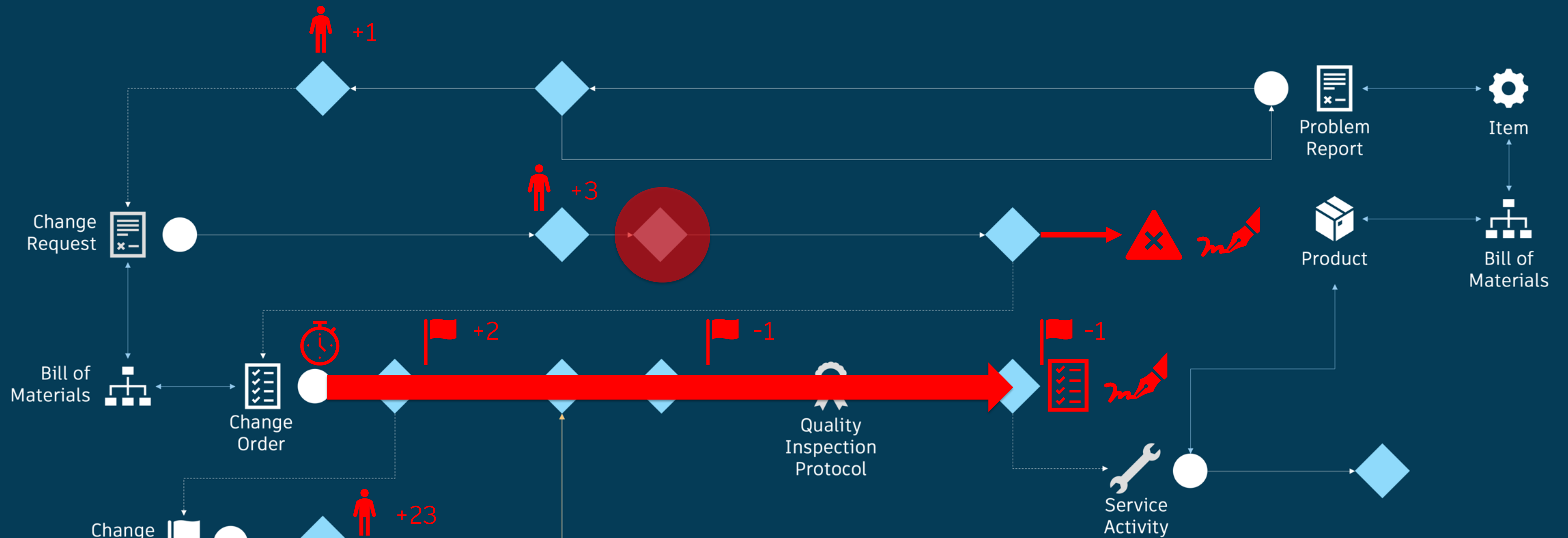
Preproduction

Production

Service

PRODUCT LIFECYCLE MANAGEMENT

Improve operational efficiency and gain key insights to continuously reduce cost, delays and errors



Sales

Engineering

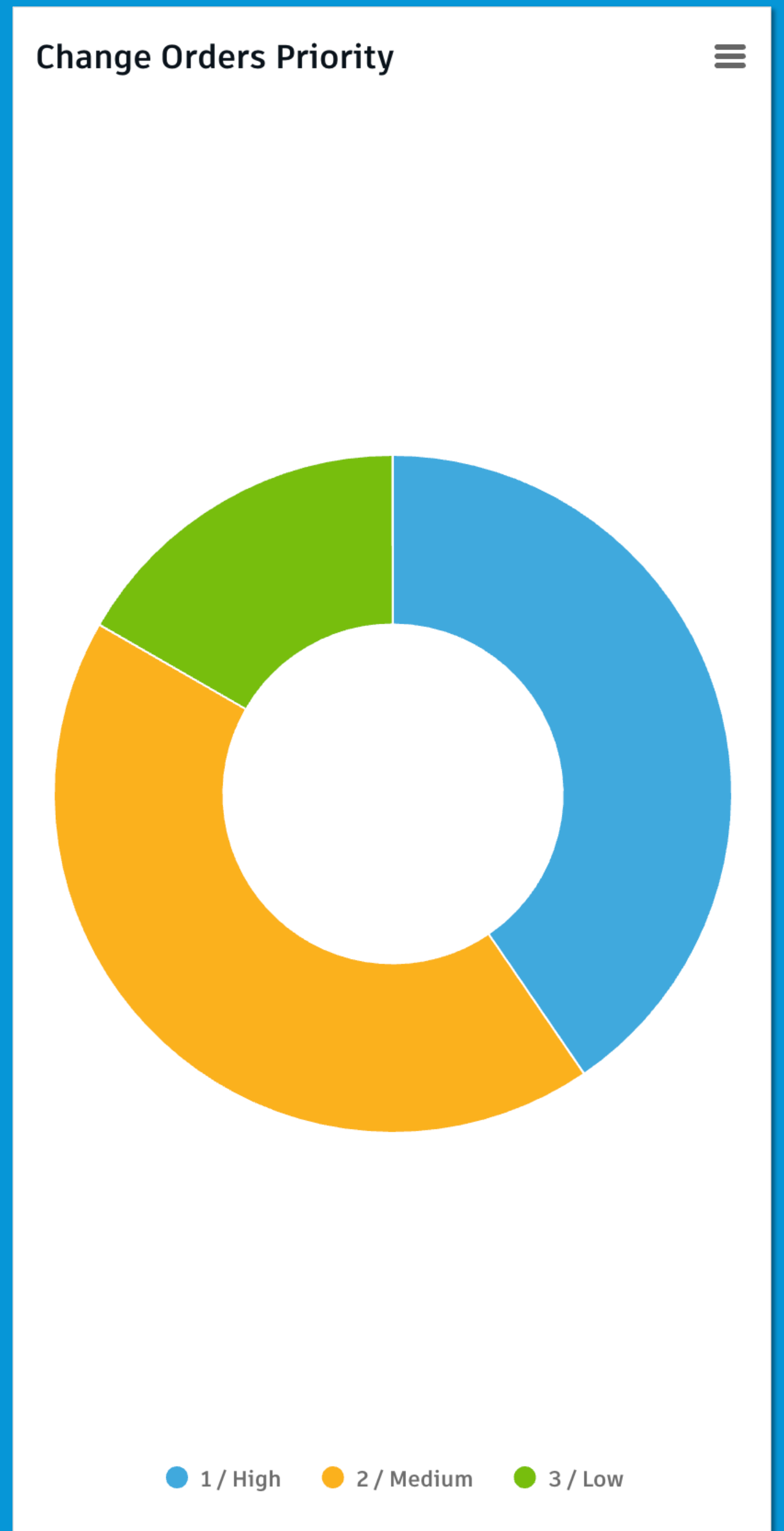
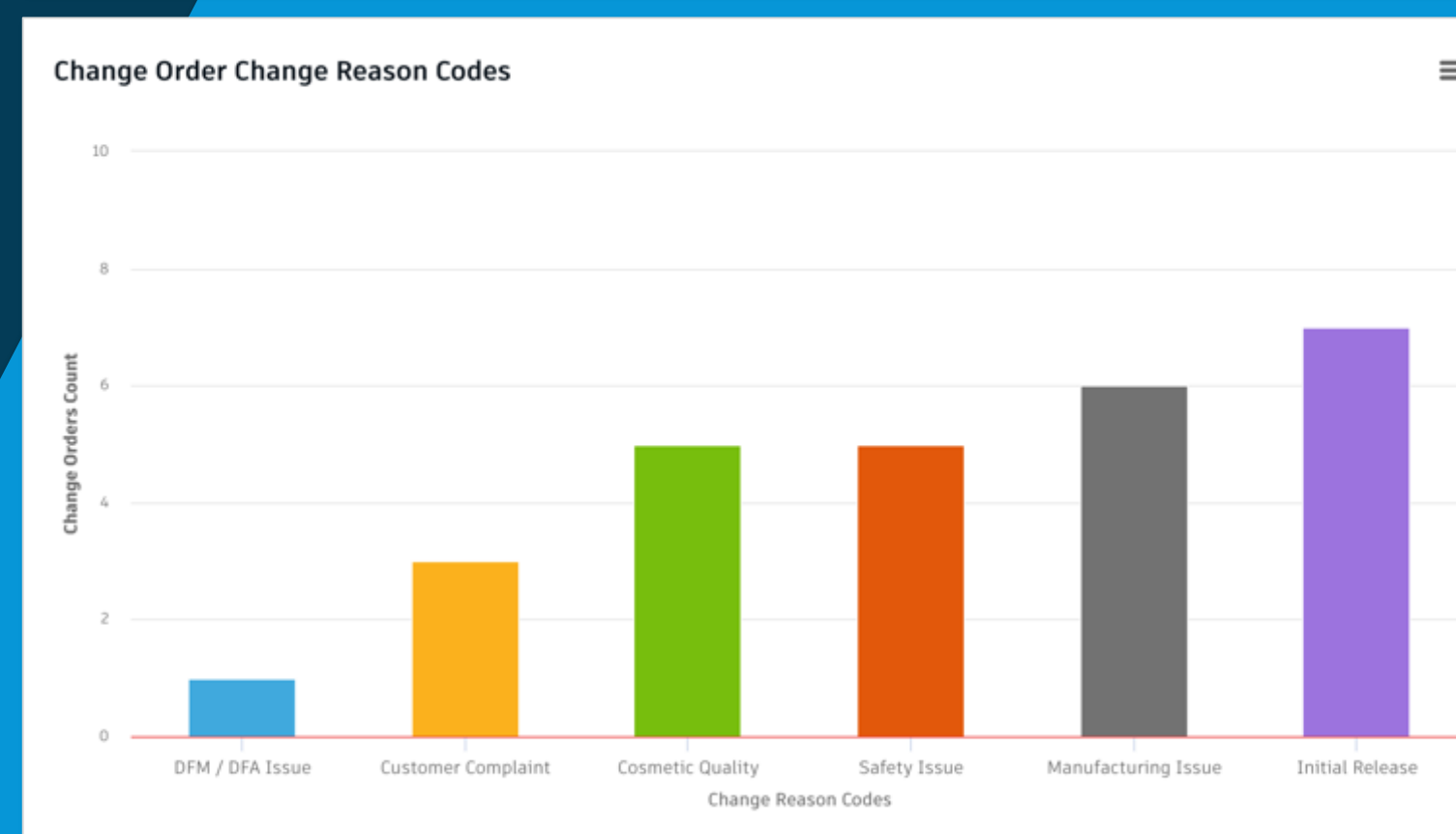
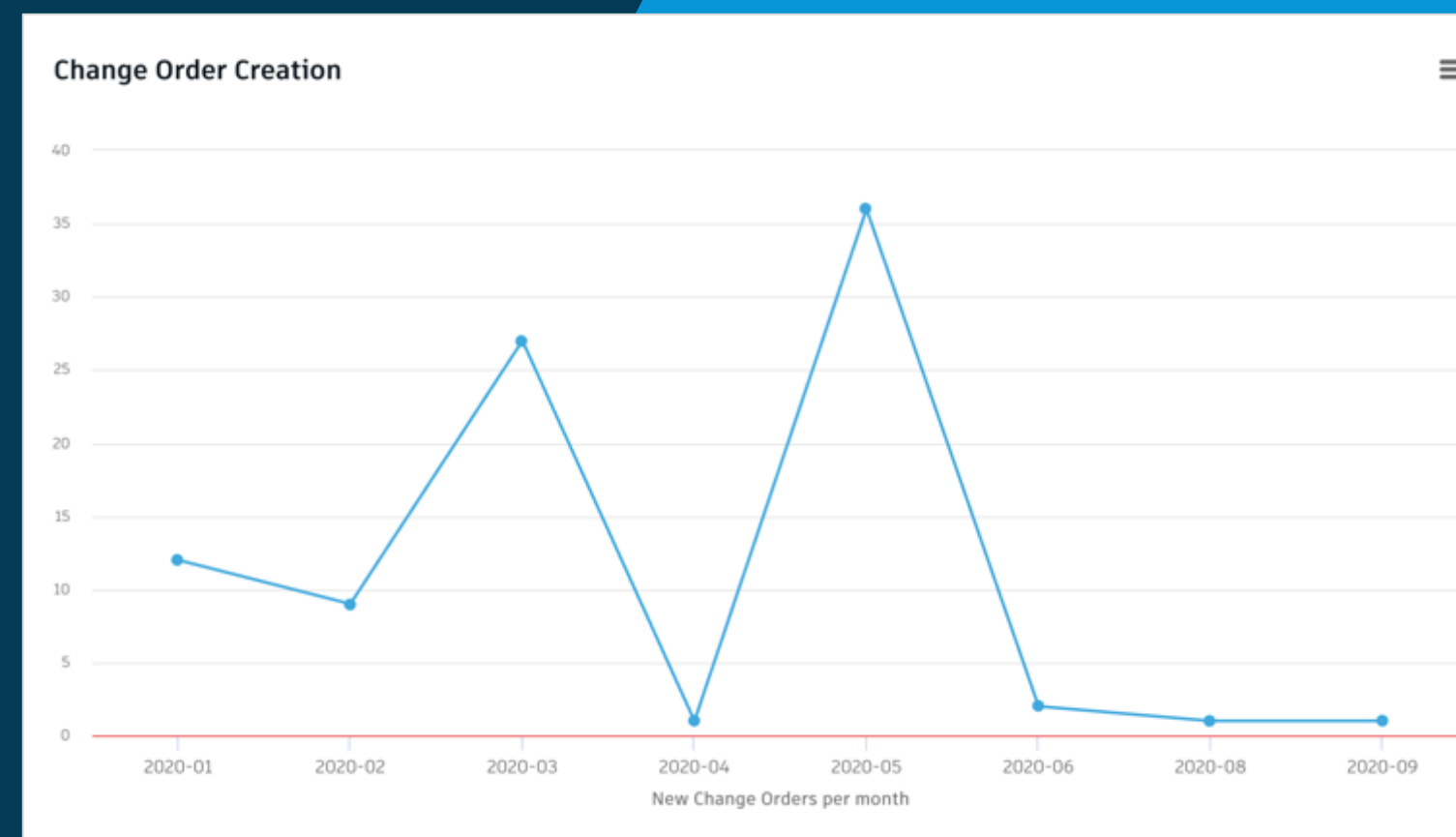
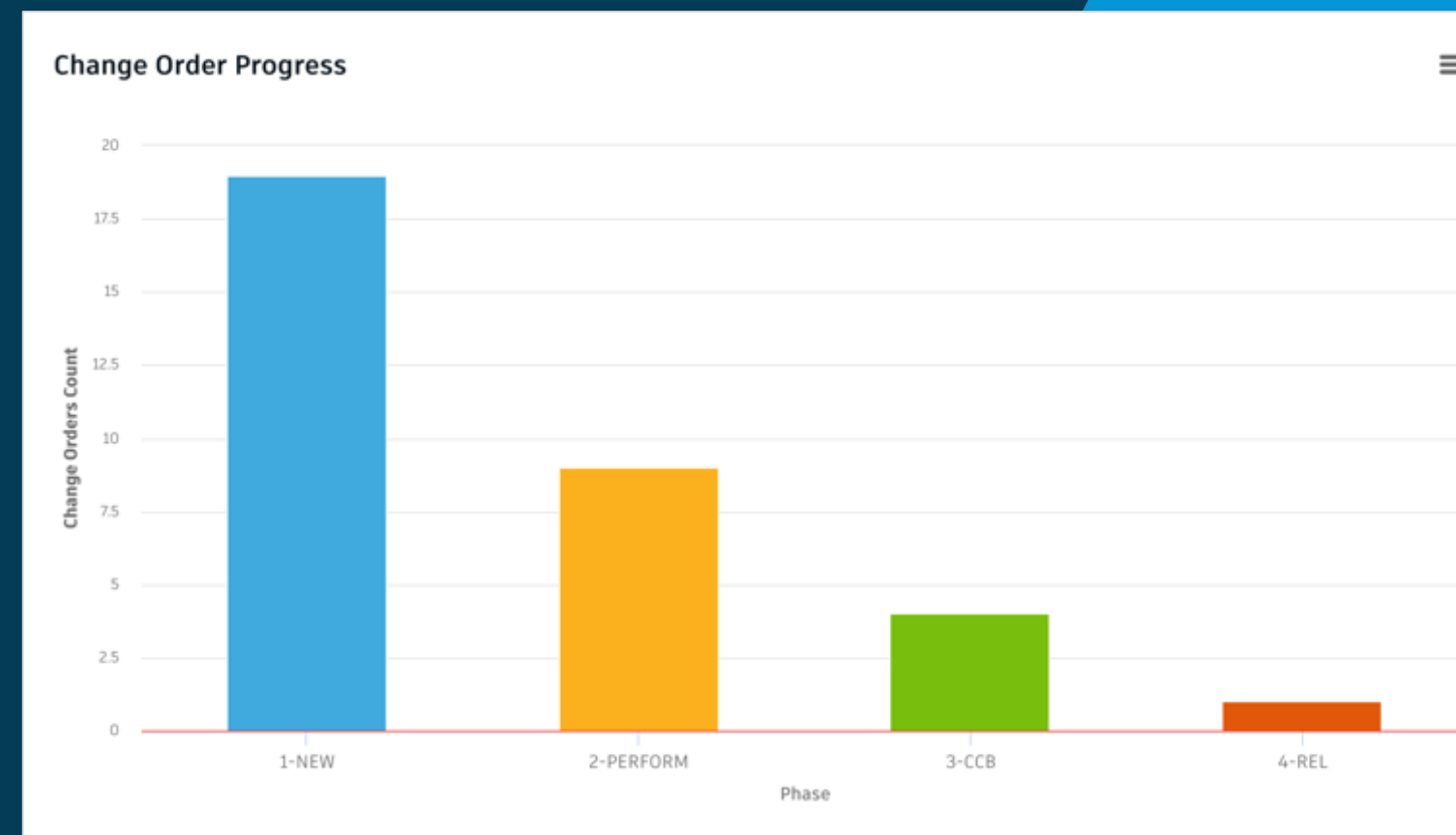
Preproduction

Production

Service



Change Order Priorization



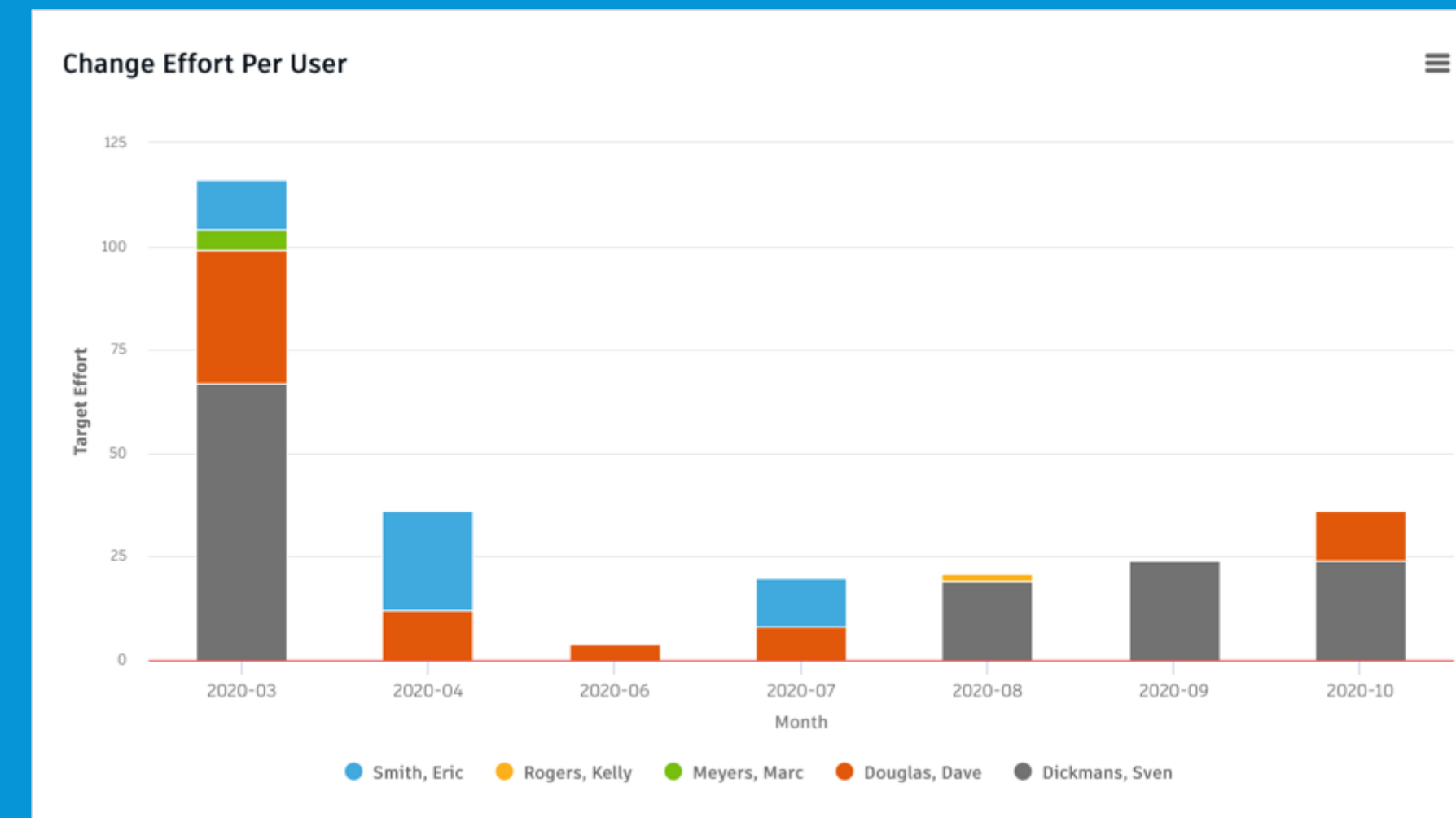


Change Tasks

Managing the change

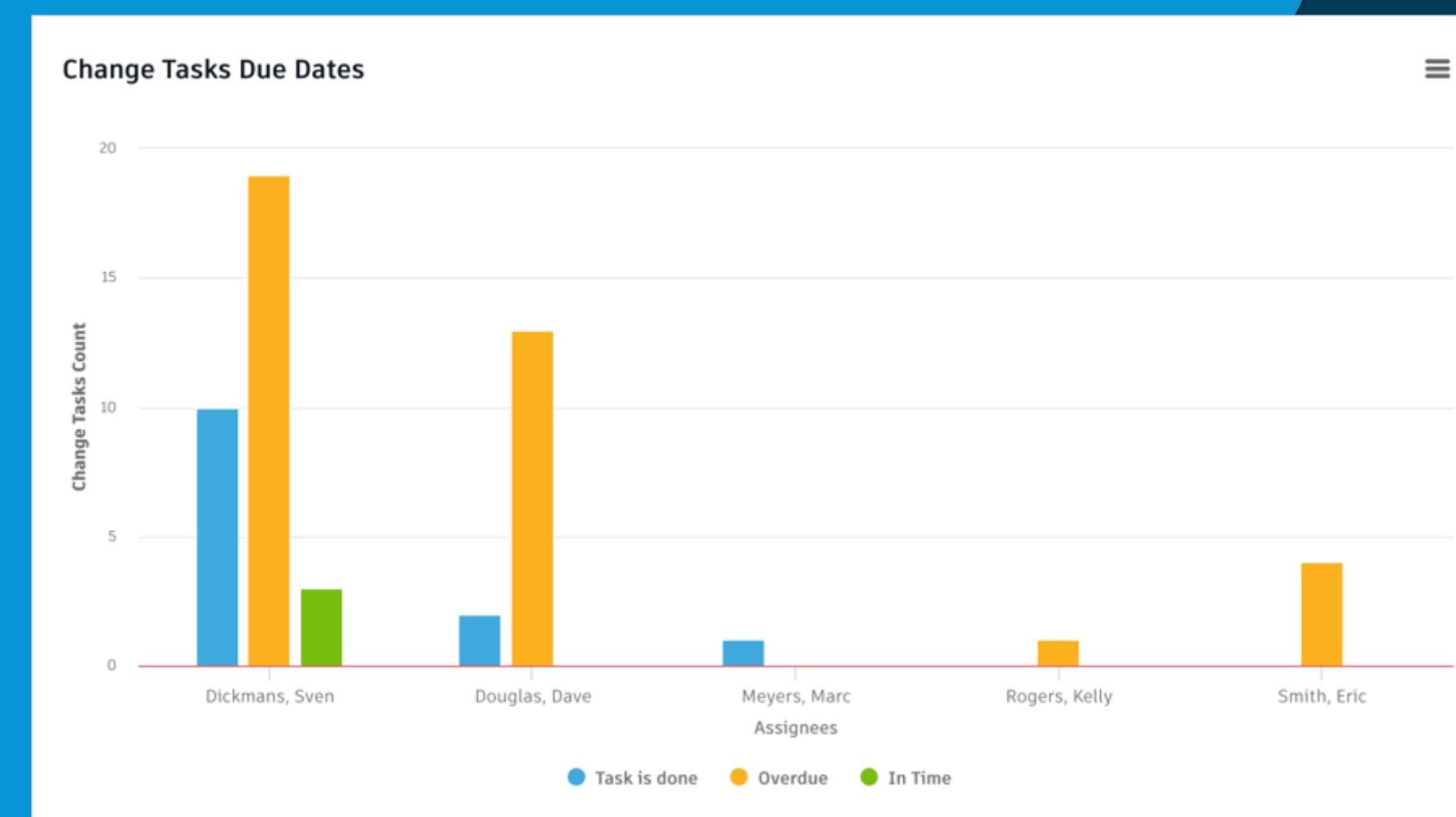
Home > Change Tasks + Tasks To Assign (9) ▾

Item Descriptor	Days Remaining	Target Completion Date	Flag
CHT-000046 - Replace component	-17	22.09.2020	■ ■ ■
CHT-000049 - Review change with electronics	-16	23.09.2020	■ ■ ■
CHT-000048 - Update BOM	-11	28.09.2020	■ ■ ■
CHT-000047 - Notfy supplier	-9	30.09.2020	■ ■ ■
CHT-000013 - Update BOM	-3	06.10.2020	■ ■ ■
CHT-000003 - Validate Quality	0	09.10.2020	■ ■ ■
CHT-000053 - Update BOM	6	15.10.2020	■ ■ ■
CHT-000051 - Review change with electronics	6	15.10.2020	■ ■ ■
CHT-000052 - Replace component	6	15.10.2020	■ ■ ■

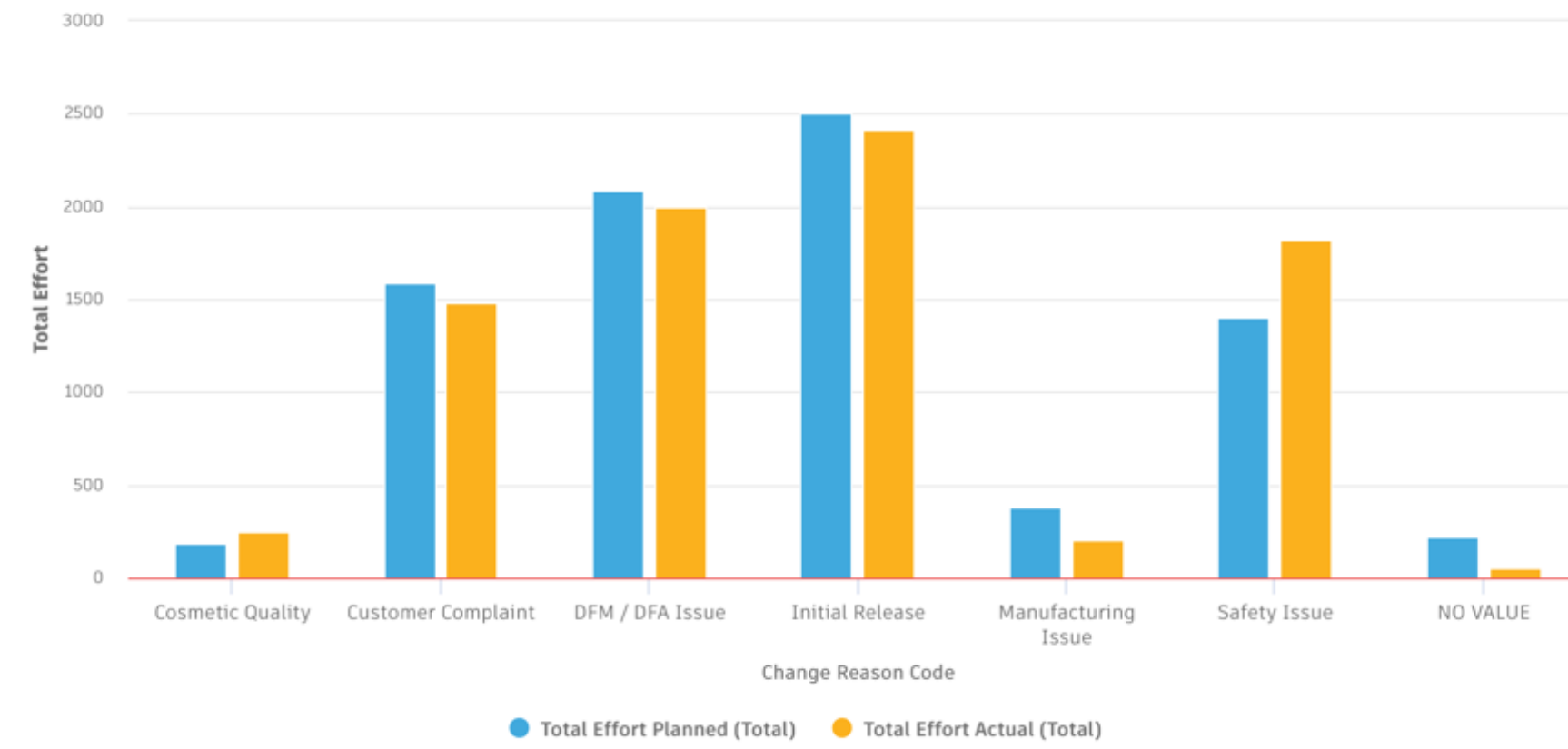


Home > Change Tasks + Due Tasks (37) ▾

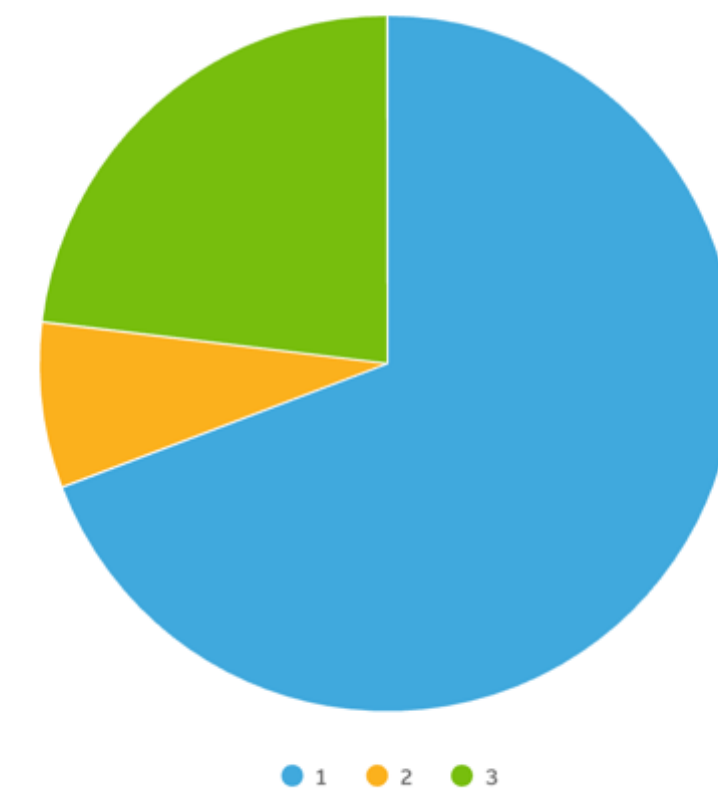
Item Descriptor	Assignee	Days Remaining	Target Completion Date
CHT-000018 - Replace component	Douglas, Dave	-198	25.03.2020
CHT-000019 - Notfy supplier	Smith, Eric	-197	26.03.2020
CHT-000014 - Review change with electronics	Douglas, Dave	-196	27.03.2020
CHT-000017 - Review change with electronics	Douglas, Dave	-196	27.03.2020
CHT-000016 - Update BOM	Douglas, Dave	-192	31.03.2020
CHT-000015 - Notfy supplier	Smith, Eric	-190	02.04.2020
CHT-000023 - Replace component	Douglas, Dave	-185	07.04.2020
CHT-000024 - dummy	Dickmans, Sven	-183	09.04.2020
CHT-000020 - Review change with electronics	Douglas, Dave	-175	17.04.2020



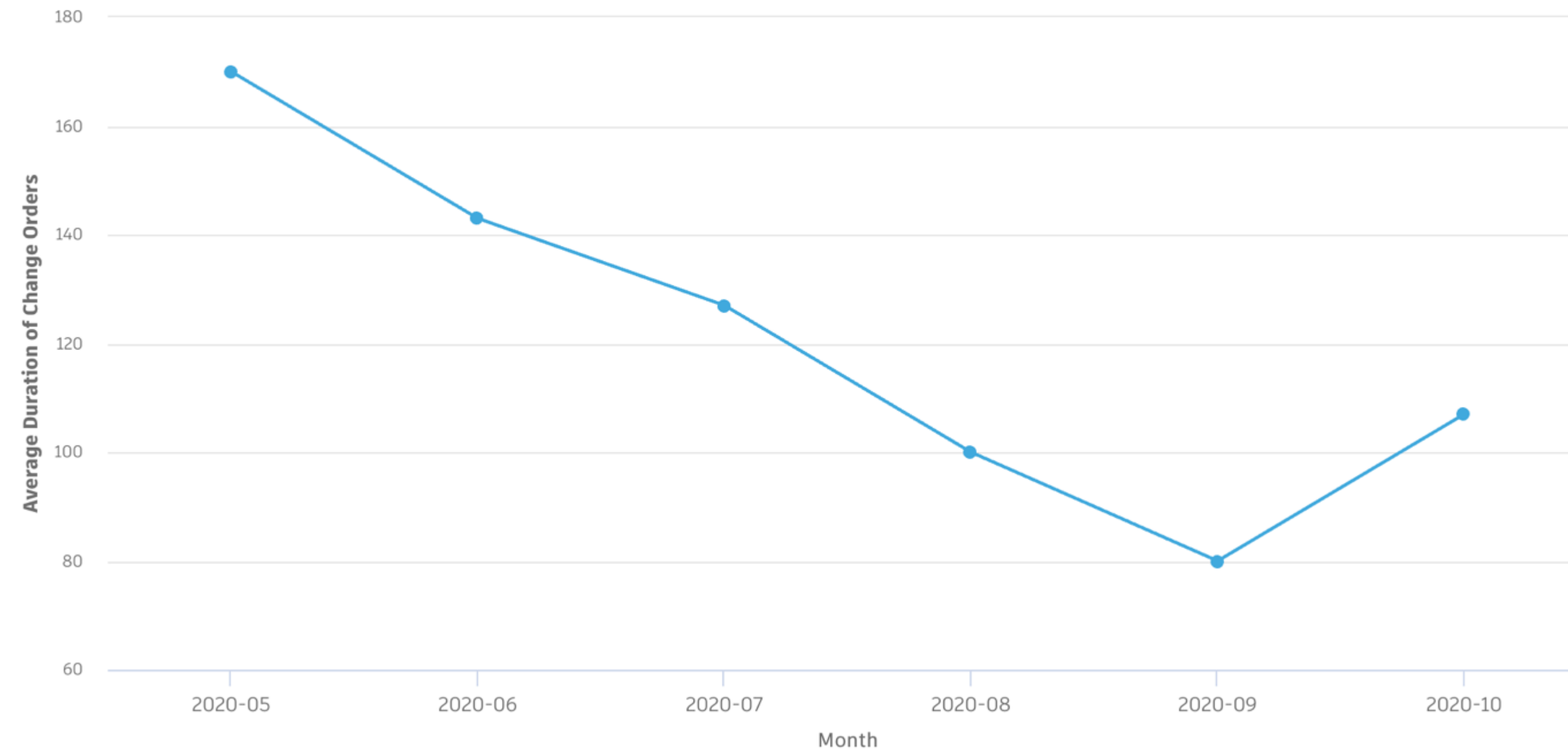
Total Change Efforts Comparison



CCB Reviews Per Change Order



Average Change Order Duration Per Month



Change Order Performance

Ready-to-use Vault PLM



New Product
Introduction



Enterprise BOM
Management



Change
Management



Quality
Management



Supplier
Collaboration

What else?

Supplier Scorecards
Quality Inspections
Claims
Supplier Audits
Supplier Change Requests
8D Reports
Requests for Quote
Non Conformances
Corrective Actions / Preventative Actions
FMEA Analysis
Equipments & Service Requests
APQP Projects
Design Reviews & Tasks
...



How is it different compared to ...

OneDrive? Process & Data Driven Collaboration instead of basic File Sharing

BI? Not just reporting at process end but integrated in collaboration platform

ERP? Not covering financials, logistics and warehouse but flexibility required for product creation processes

PDM? Not covering engineering document management

Project Management Task management fully integrated in product data & change management

FLEXIBLE

The system adapts to you,
not the other way around

Video with system configurations had to be removed for PDFs
Find given recordings online:

Improve Data Quality

<https://youtu.be/f5M53iGcl88>

Enrich Data

<https://youtu.be/lX8lAmyfTfs>

Adjust Standards

<https://youtu.be/YQ8VAvj47ZY>

Reduce Complexity

https://youtu.be/MvZ_bq9wAEs

Prevent Delays

<https://youtu.be/LwR5jpoOobY>

Handle Exceptions

<https://youtu.be/VkncfhZ6SnM>

Product Lifecycle Management BENEFITS

Standardize your
business
processes

Unmatched
transparency for
all stakeholders

Track efficiency
in real time

Continuously
adjust based on
findings





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