

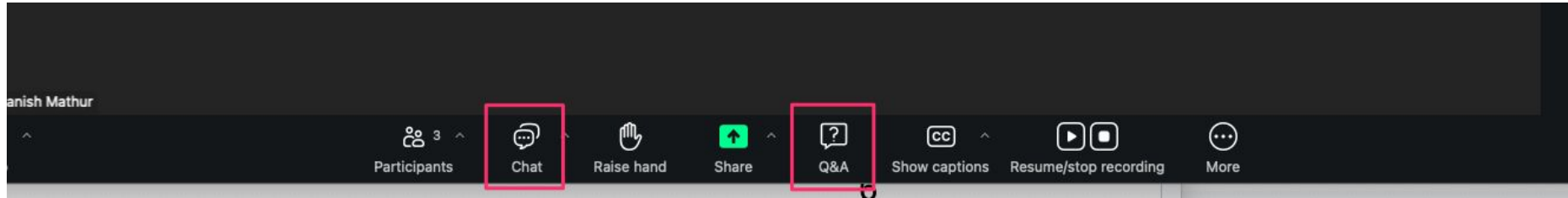
Master Data Management for Supply Chain Excellence

Nov 21, 2024

Agenda

- Panelists
- Brief Intro
- Master Data and the Supply Chain
- Materials Management and Supply Chain
- Supporting Global, Regional and Business Specific Master Data Needs
- Pursuit of Perfect Master Data
- Making Master Data Management Integral to Engineering and Supply Chain Processes
- Q&A

Zoom Logistics



Recording and Presentation will be sent after the session is completed

Panelists

Kris Gorrepati

VP of Product Management

- 20+ years experience in New Product Development and Introduction and Supply Chain Manufacturing
- SAP, Samsung, Ford, Caterpillar
- Auto, High-tech, Software
- Michigan Tech (Mech Engg.), UCLA (MBA)

Manish Mathur

VP of Engineering

- 20+ years experience in PLM, Business Analytics, Software Engineering
- GM, Ford, Siemens PLM, Cap Gemini
- Auto, High-tech, Software
- Michigan Tech (Elec Engg), Walsh College (MBA)

About Cambrian Lab

Mission: To Provide Effective and Practical Solutions for Supply Chain Excellence

Team

Supply Chain, New Product Development and Technology Experts from SAP, Samsung, Siemens, GM, Ford, Applied Materials

Industries

Automotive, High-tech, Semiconductor Equipment, Medical Devices, Consumer Products, Food and Beverage, Chemicals...

Locations

SF Bay Area, Detroit, Boston, Houston, Hyderabad

Expertise

- New Product Introduction, Supplier Development and Master Data Management
- Enterprise and Supply Chain Technology (ERP, SCM, Manufacturing, CRM, Sourcing, Finance)

Examples of Our Work with Different Industry Customers

Embedded Systems, Memory and HPC Computing Systems Manufacturer

NPI Engineering, Master Data
Management

Global Network Equipment Manufacturer

Supplier Development and
Collaboration

Global Industrial Manufacturer

Master Data Management
(Materials, NPI)

Global CPG Company

Master Data Management
(Materials, Costing, PLM)

Tier 1 Global Automotive Supplier

NPI Product Release, Materials, BOM

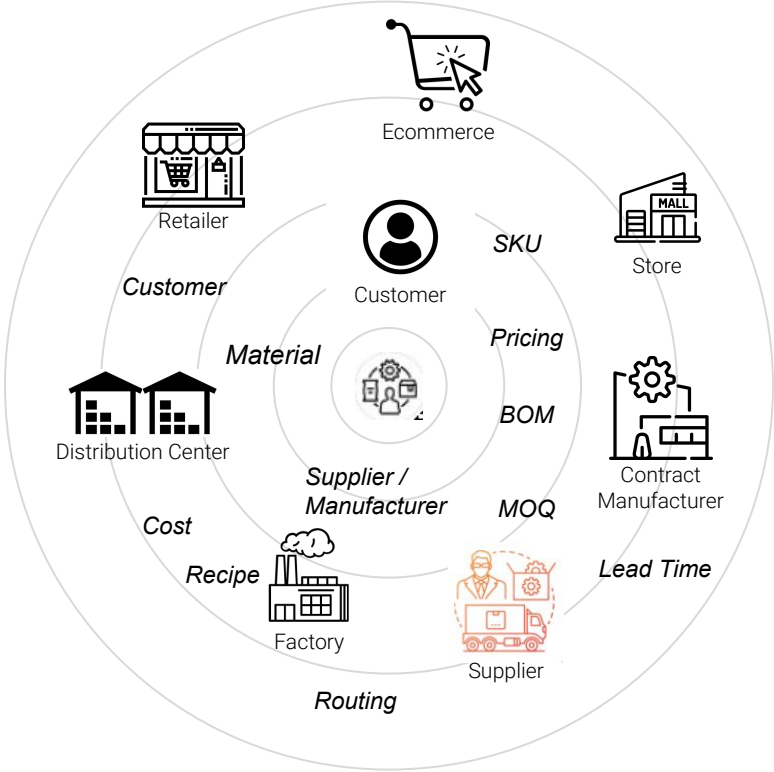
Specialty Chemicals Leader

Master Data Management
(Materials, Customers, Suppliers)

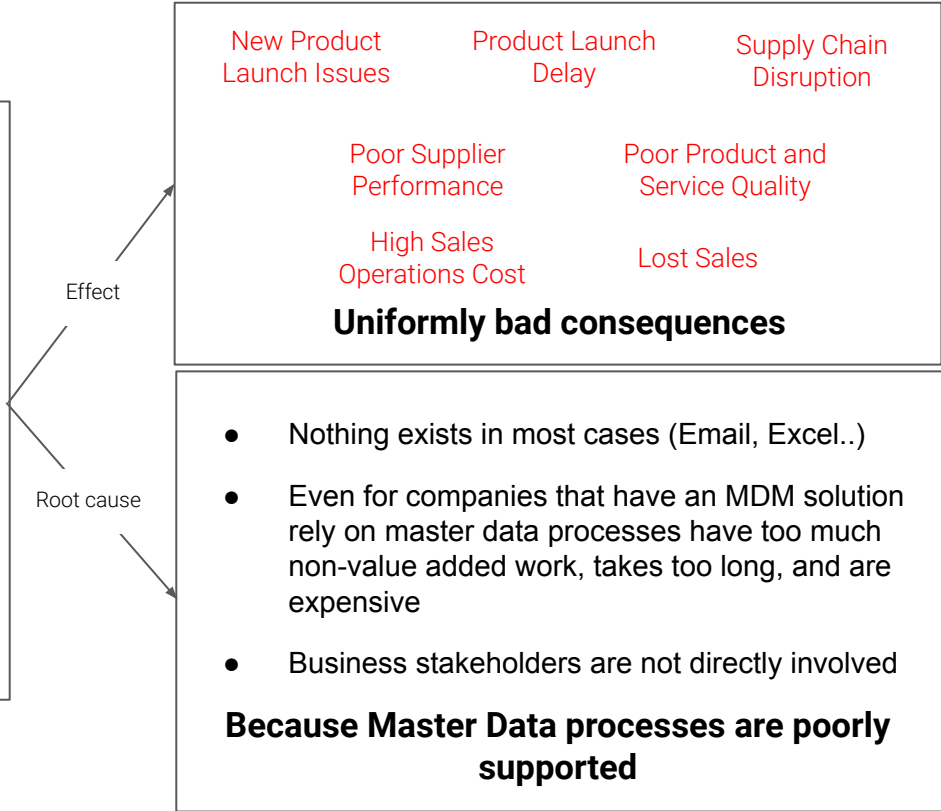
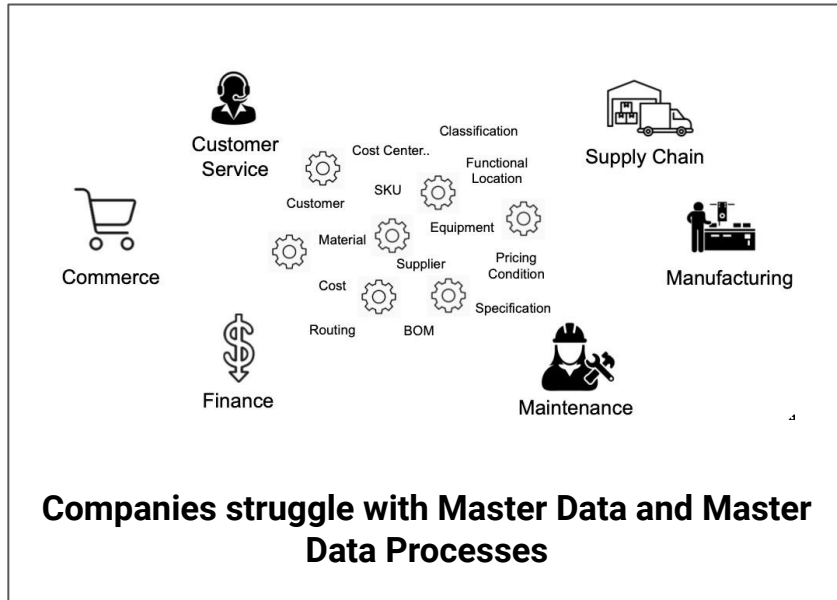
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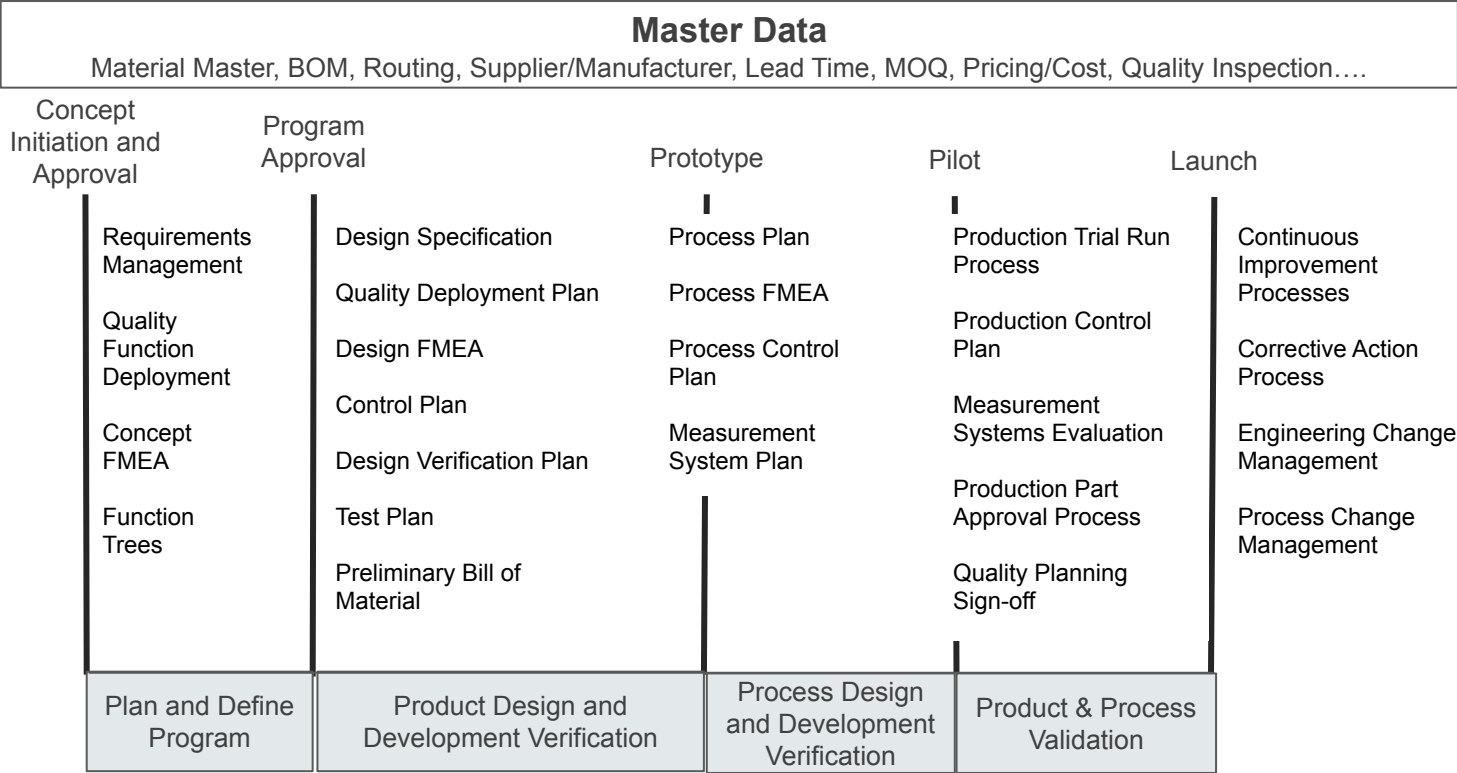
Master Data and the Supply Chain



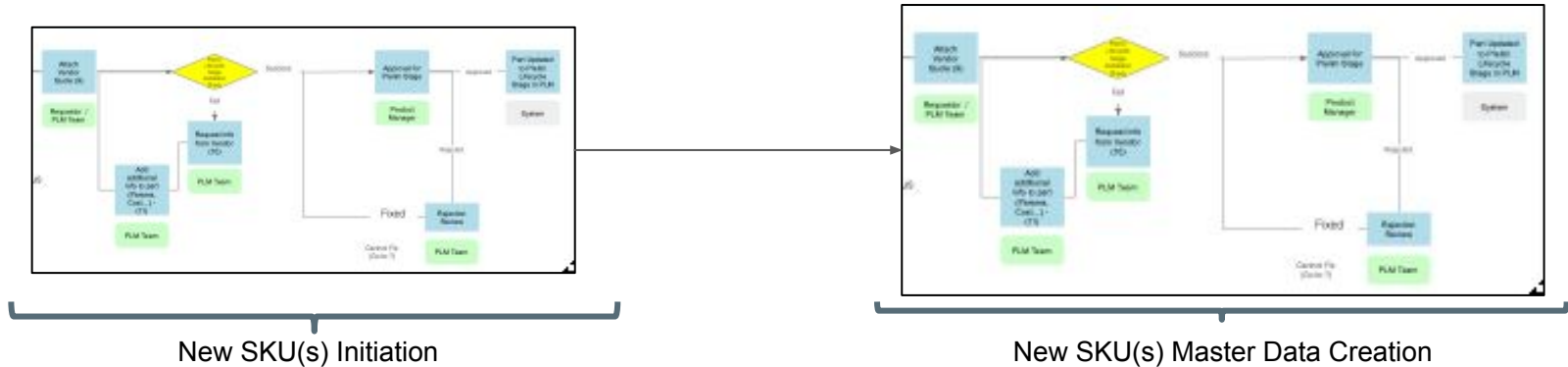
Poor Master Data and Master Data Processes are an Obstacle to Supply Chain Excellence



New Product Introduction and Master Data

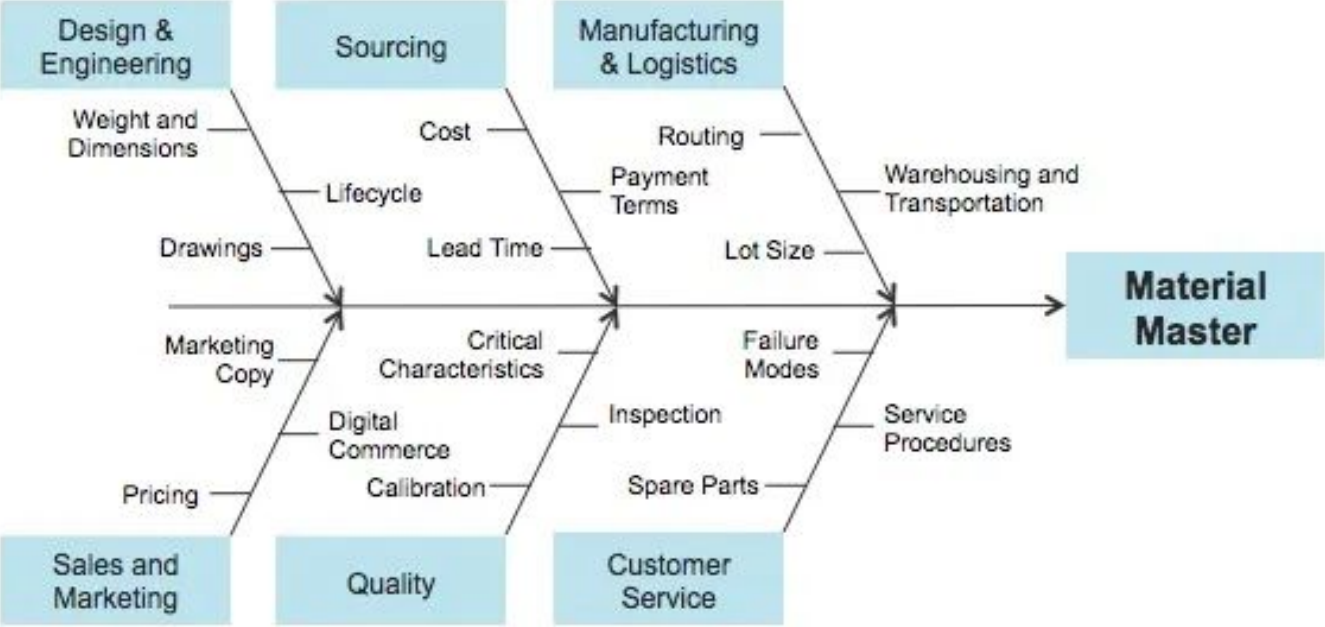


SKU Introduction and Master Data Management

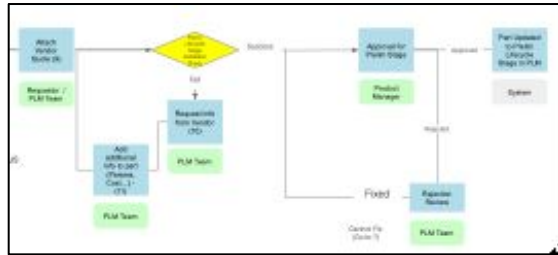


Material Master and the Supply Chain

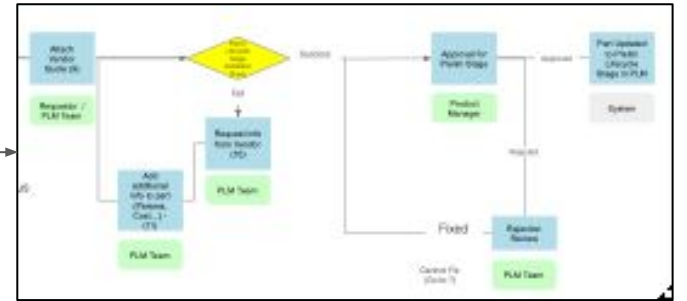
Stakeholders and Decision-making for Materials Master Data



SKU Introduction and Master Data Management - Demo

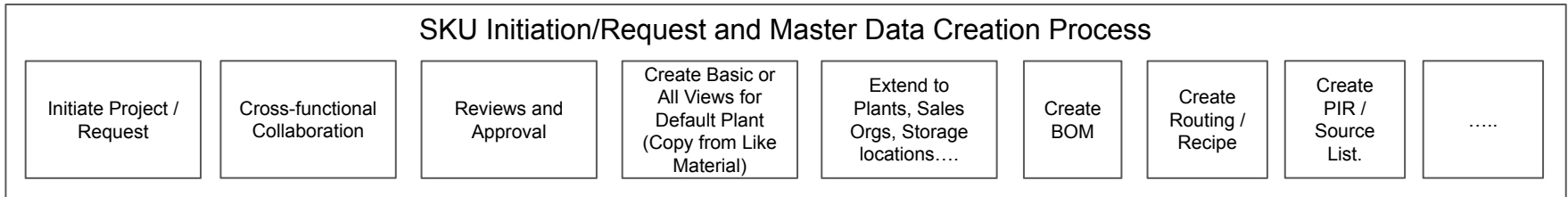


New SKU(s) Initiation



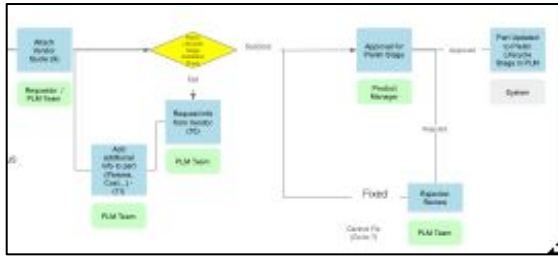
New SKU(s) Master Data Creation

SKU Initiation/Request and Master Data Creation Process



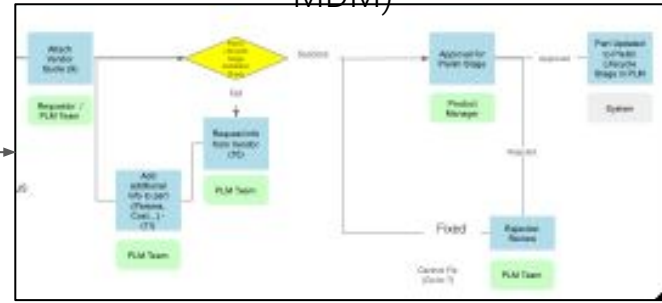
Before (traditional approach)

10-20 days (email, Excel, meetings, Sharepoint..)



New SKU(s) Initiation

10-15 days (manual, traditional MDM)

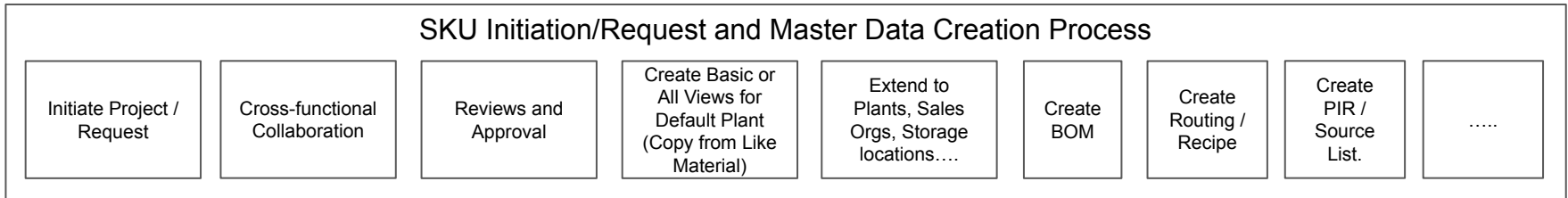


New SKU(s) Master Data Creation

After (Digital Workflow)

3-5 days

SKU Initiation/Request and Master Data Creation Process



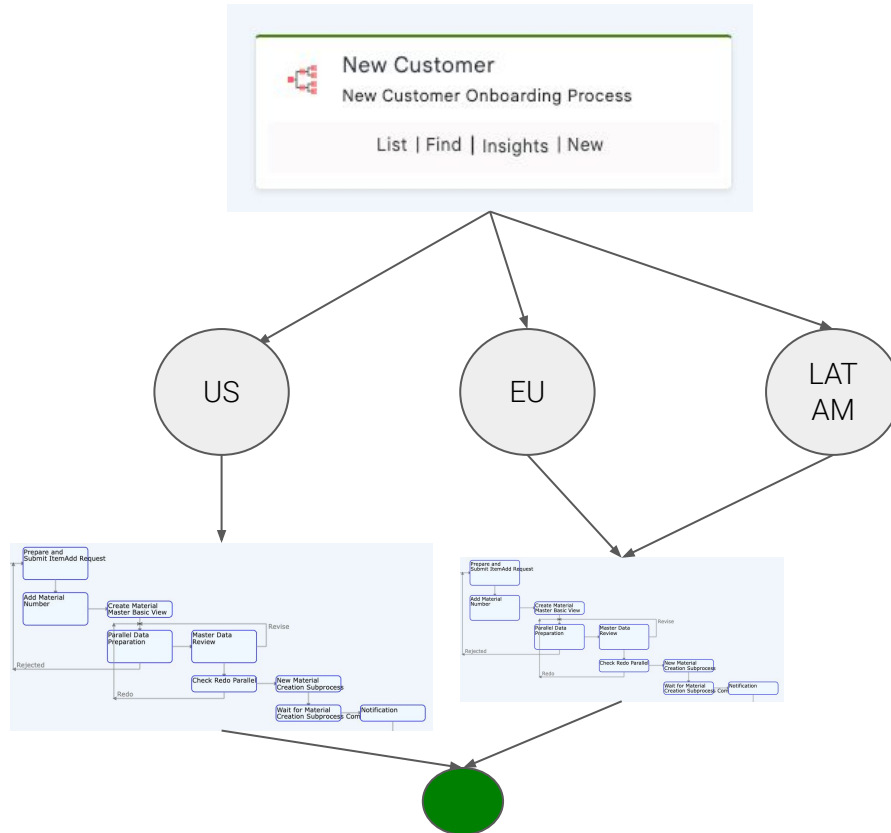
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Addressing Global, Regional and Business-specific Master Data Process Needs



Single Workflow that Supports All



Different Workflows for Different Needs

Launch Pad for Administrator

Material Extension To Plant

- Create New Cost Center
List | Find | Insights | New
- [Redacted]
- Create or Extend Package
List | Find | Insights | New
- Extend Raw or Bulk Material
List | Find | Insights | New
- [Redacted]
- Material Copy from Existing Material
List | Find | Insights | New

Create New Material R and D

- Create New Material
List | Find | Insights | New
- [Redacted]
- Create Non-inventory Material
List | Find | Insights | New

Customer Master

- Create Customer - APAC
List | Find | Insights | New
- Create Customer - China
List | Find | Insights | New
- Create Customer - LATAM
List | Find | Insights | New
- Create Customer - N. America
List | Find | Insights | New
- Create Customer - [Redacted]

Single Workflow vs Multiple Workflows

- Based on our experience you should lean strongly towards different workflows for different needs (materials types, regions, businesses..)
- Flexibility and Agility requirements lead to multiple workflows
- Multiple workflows are non-disruptive from an operations perspective
- Better for information security and compliance

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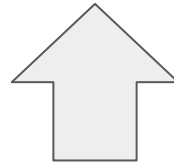
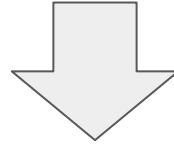
Pursuit of Perfect Master Data

The Ideal Number of Master Data Errors is Zero

Pursuit of Perfect Master Data

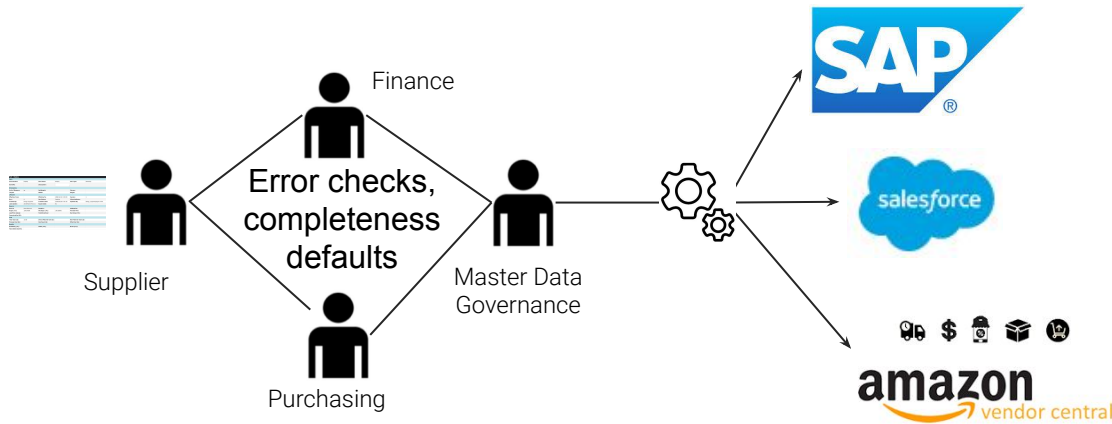
Error-proofing (Create/Update Master Data)

Error-proofing is better and cheaper than Error correction



Error correction (Existing Master Data)

Using Poka-Yoke Principles for Error Proofing



Simplified and Minimal Input

Default Values

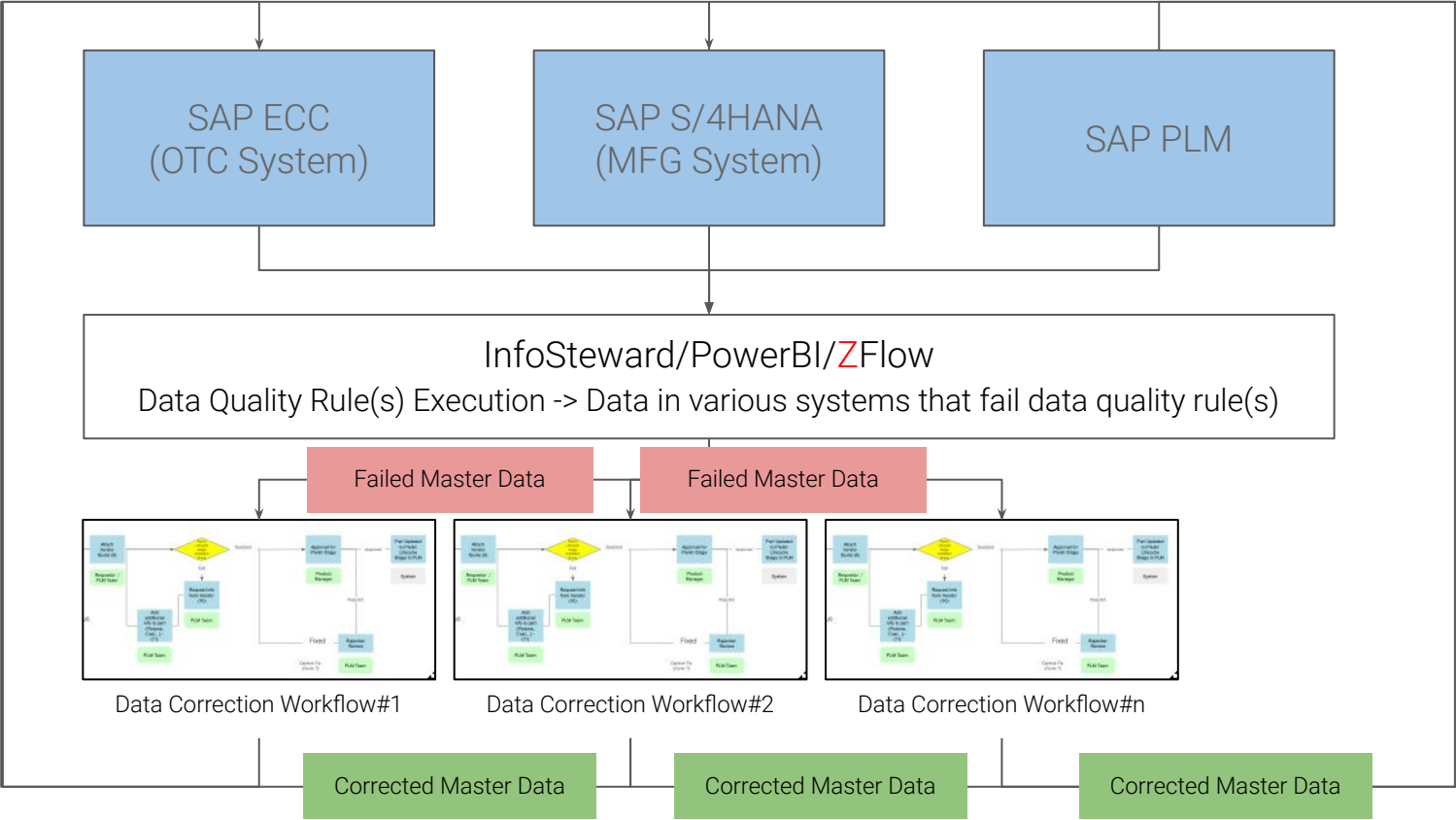
Drop-downs

Dependent auto-selection of values based on logic

Calculated values


Type, Min-Max...

Continuous Data Quality Analysis and Error Correction




Error Correction Workflows

Launch Pad



Data Health Failed Records - ALT UOM CU OTC
All Finished Goods materials excluding Obsoletes should have an Alternate Unit of Measure record for CU OTC

List | Find | Insights | New




Data Health Failed Records - ALT UOM CU WP1
All Finished Goods materials excluding Obsoletes should have an Alternate Unit of Measure record for CU WP1

List | Find | Insights | New



Data Health Failed Records - ALT UOM RBC
All Finished Shave Products should have an Alternate Unit of Measure RBC

List | Find | Insights




Data Health Failed Records - Cash Discount
Sales Org Check Box for Cash Must be Selected

List | Find | Insights | New




Data Health Failed Records - Client DCDF
Materials flagged for Deletion across all Sales Orgs should be flagged for deletion at Client Level

List | Find | Insights | New



Data Health Failed Records - Cost Data Sync
Pulls all data health failed records for rule (MM COST MATCH WP1).

List | Find | Insights



Data Health Failed Records - Delivery Unit
Pulls all data health failed records for missing/incorrect delivery UOM. Replaces Delivery UOM with correct value based on Sales Org & Distribution Channel.

List | Find | Insights




Data Health Failed Records - Lot Size
All materials must have a lot size procedure

List | Find | Insights | New



Data Health Failed Records - Manufacturing Arrangement
Data Health Fails for FERT materials that do not have an attribute for manufacturing arrangement in the Attribute Registry database. Will add the attribute to the database.

List | Find | Insights | New




Data Health Failed Records - Rounding Profile
Pulls all data health failed records for missing/incorrect rounding profile value. Replaces blanks/incorrect values with correct value.

List | Find | Insights



Data Health Failed Records - Shelf Life BOM Compare
Compares BOMS to Components to validate SHELF LIFE Requirements

List | Find | Insights | New



Data Health Failed Records - Variable Order Unit
Pulls all data health failed records for missing variable order unit. Replaces blanks with correct value (1).

List | Find | Insights

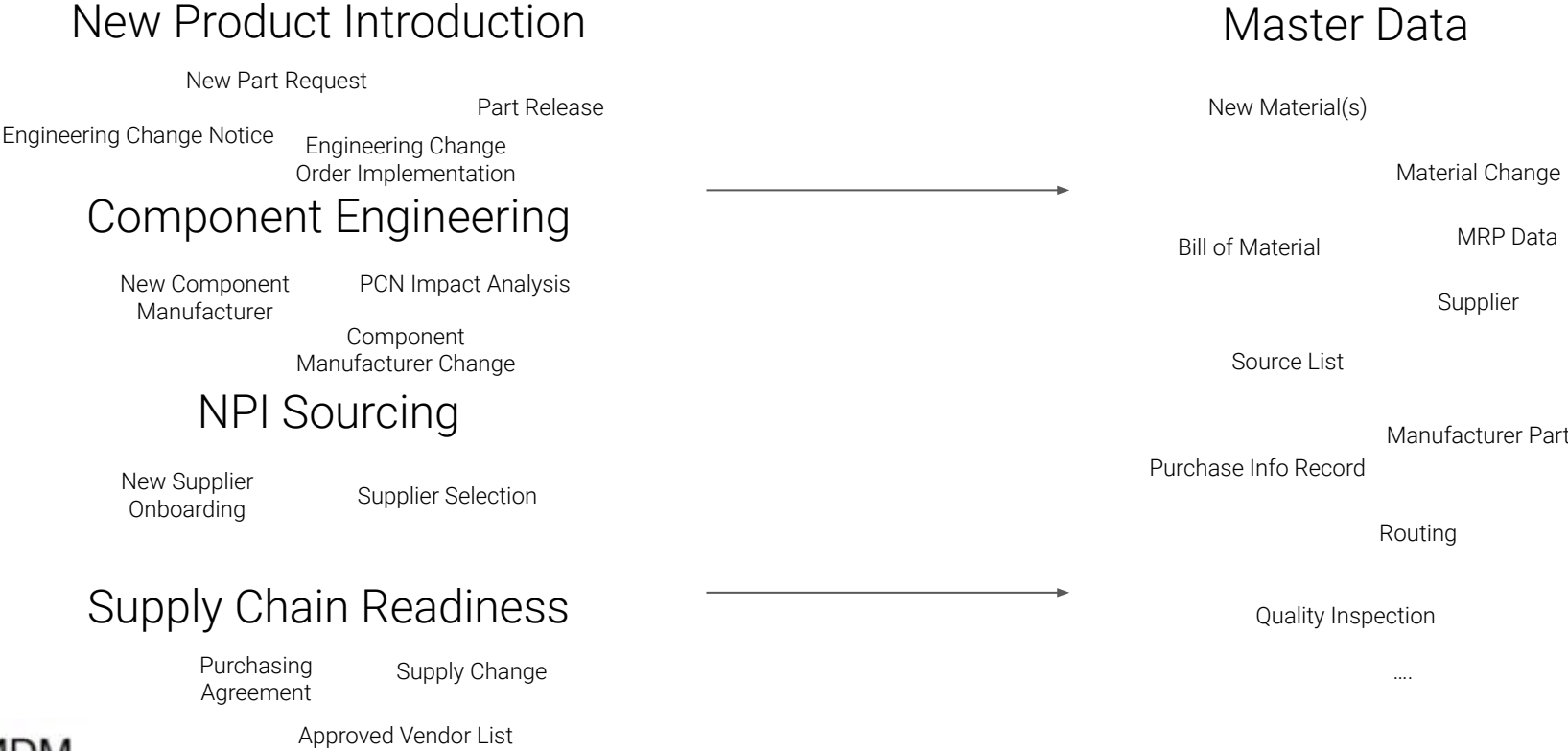
Error Correction Workflows

<u>Start</u>	Process Start	
<u>Get Delivery Unit Failures</u>	Special Function SQL- [REDACTED]	1
<u>Verify Failures Exist</u>	Go To	
<u>Calculate Changes Required</u>	Special Function CallUserDefinedFunction	
<u>Enter Correct Data</u>	Data Preparation	
<u>Validate & Approve Updates</u>	Approval	
<u>Update SAP</u>	Special Function [REDACTED] -DeliveryUOM	
<u>Review SAP Errors</u>	Review	
<u>Send Confirmation Notice</u>	Notification	
19 <u>End</u>	Process End	

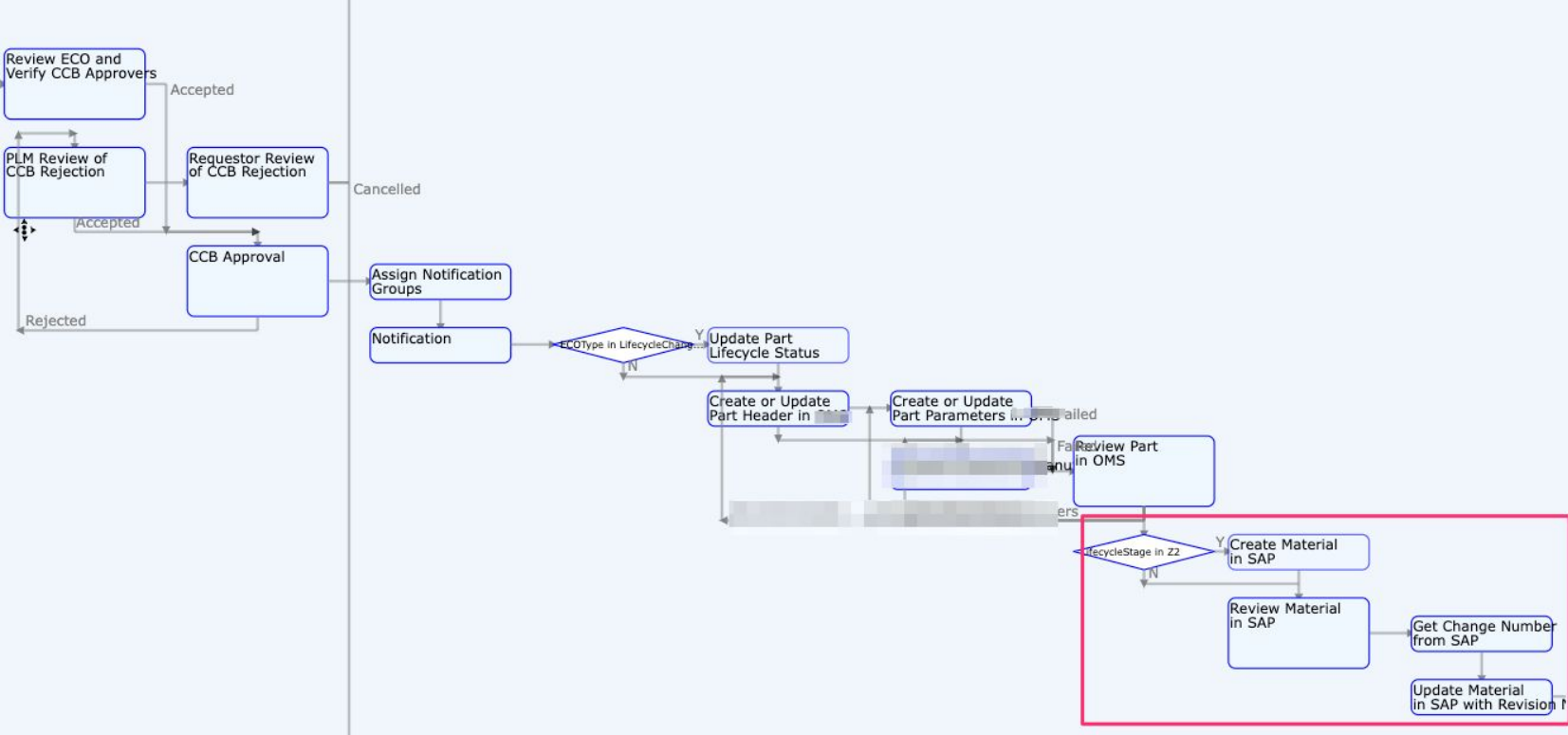
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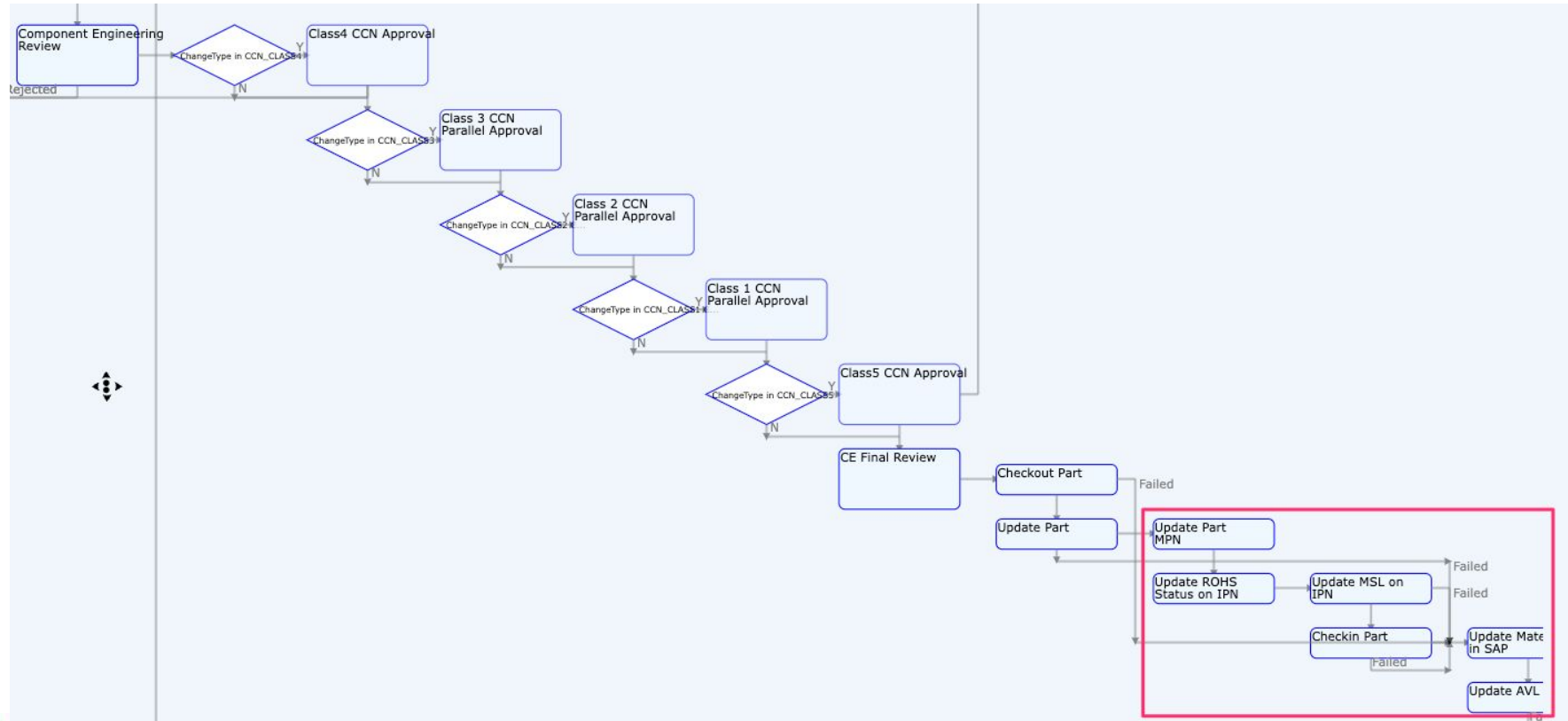
Master Data is Integral to NPI and Supply Chain Readiness



ECO Example



Component Change Example



Summary

- ❑ *Proven success in many industries*
- ❑ *Easy to adopt and loved by users*
- ❑ *It only takes minutes to get started*

Test Drive

Free Pilot

For More Information

[More about ZMDM](#)

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