Quality is Everyone's Responsibility

Digital Workflows for Quality Management Excellence

Kris Gorrepati and Manish Mathur

KaizenKit

Designed by

Cambrian Lab

KZ

Agenda

- Brief Intro
- Quality is Everyone’s Responsibility - Challenges and Opportunities
- Making Quality Cross-functional, Connected and Integrated with Digital Workflows
- Demo
- Q&A

Our Mission

To Make

Quality is everyone’s responsibility
- W. Edwards Deming

A Reality in the Organization and the Supply Chain

About Cambrian Lab

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

Team

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

Industries

Automotive, High-tech, Semiconductor Equipment, Medical Devices, Consumer Products
(**From Fortune 100 to Start-ups**)

Locations

SF Bay Area, Detroit, Boston, Houston

Expertise

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

Panelists

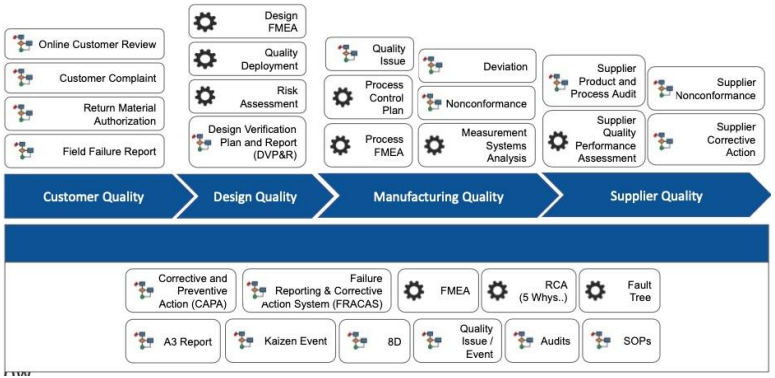
Kris Gorrepati

- 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

Manish Mathur

- 20+ years experience in PLM, Manufacturing, and Data Management
- Ford, GM, Siemens PLM...
- Auto, High-tech, Software
- Michigan Tech (Elec Engg.), Walsh College (MBA)

Making Quality Everyone's Responsibility is a Challenge



Companies struggle to support consistent quality management processes internally and across the supply chain

Root cause

- Quality is the responsibility of only quality department
- No support for cross-functional quality management processes
- Quality processes are disconnected from key business and supply chain processes

Cross-functional Quality workflows are poorly supported

Effect

Poor product and service quality	Reputational damage	High warranty cost
Non-compliance	Customer returns	Supply Chain Disruption

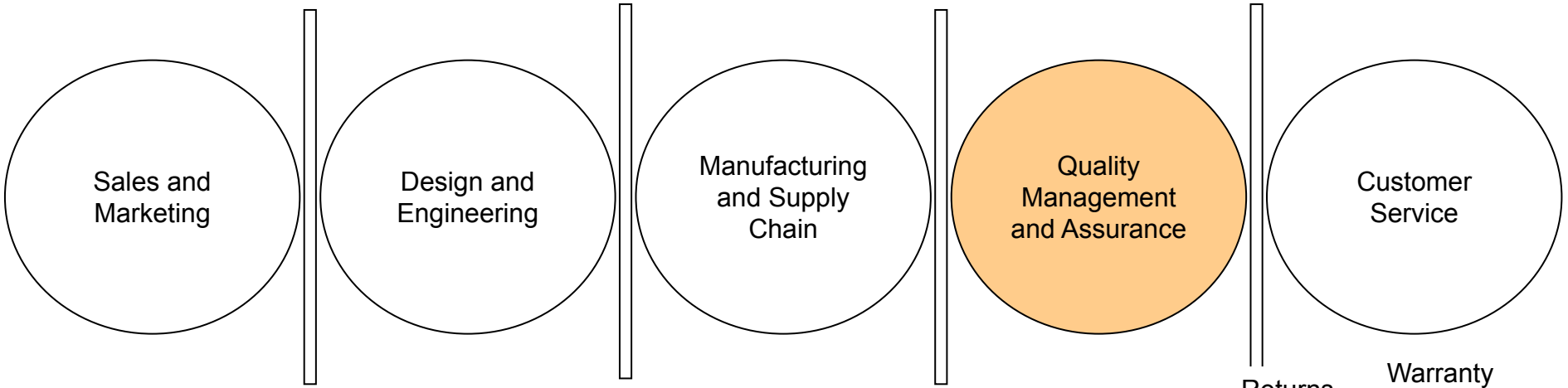
Uniformly bad consequences

Process and Information Silos Are Obstacles to Making "Quality is Everyone's Responsibility"

Requirements, Quality Deployment, Specifications

Systems Design

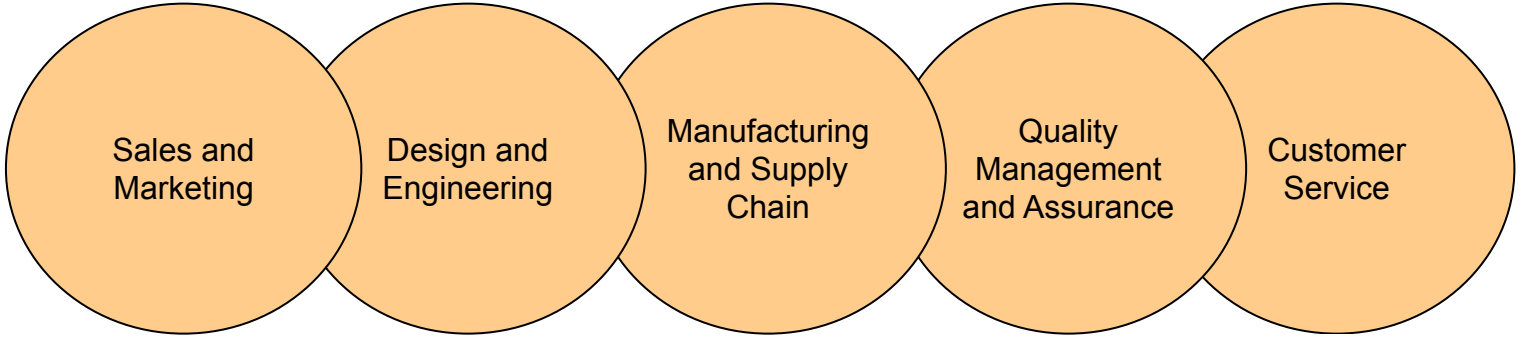
FMEA, Validation, Prototyping, Product and Process Characteristics, Process Plan, Process Validation, Equipment Validation, Control Plans, SOPs, Training, Audits..



Ideally

Requirements, Quality Deployment, Functional Specifications

FMEA, Validation, Prototyping, Product and Process Characteristics, Process Plan, Process Validation, Equipment Validation, Control Plans, SOPs, Training, Audits..



The Main Themes

Plan-Do-Check-Act

Design Validation and Control

Process Validation and Control

Nonconformance

Risk Mgmt

CAPA

Auto

Medical Devices

Food and Drug Manufacturing

Aerospace

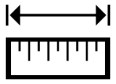
General

Many Sources of Quality and Quality Events

Customer Complaint

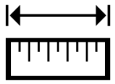
Poor Customer Review

Simulation



Process Measurement

Inspection



Process Measurement

Incoming Inspection

Customer Quality	Design Quality	Manufacturing Quality	Supplier Quality

Return Material Authorization

Field Failure

Test Result

Nonconformance

Supplier Nonconformance

Quality Events are Captured By Different Systems

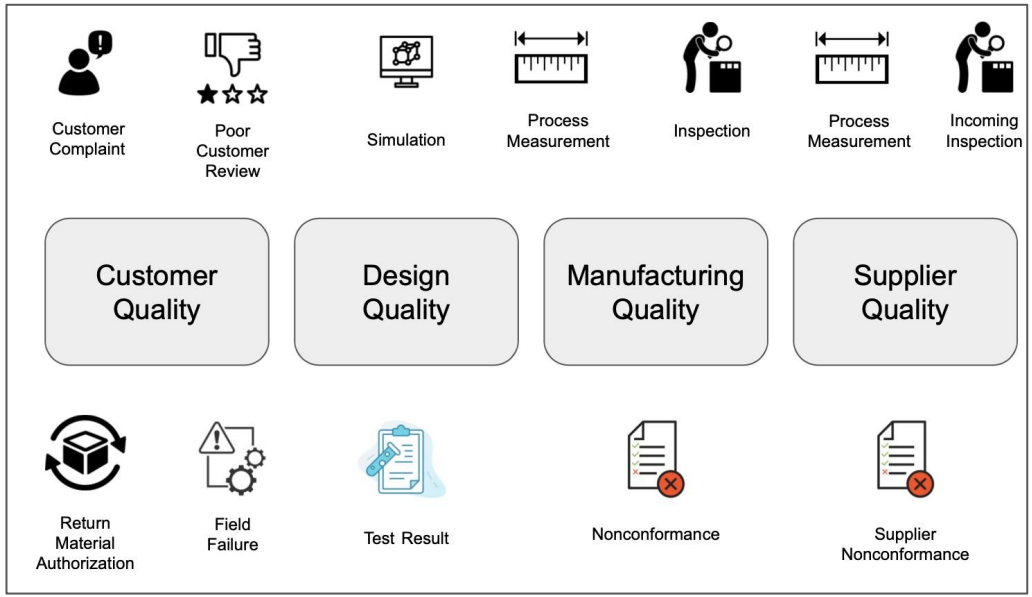
CRM Systems

E-commerce

Testing Systems

LIMS

Inspection Systems



Design/Engineering Systems

ERP Systems

Sourcing Systems

Quality Management Workflows that Make “Quality is Everyone’s Responsibility” a Reality

Quality Workflows that can include and be started by anyone and system

Out-of-the-box Integration to ERP, MES, PLM, Supply Chain systems

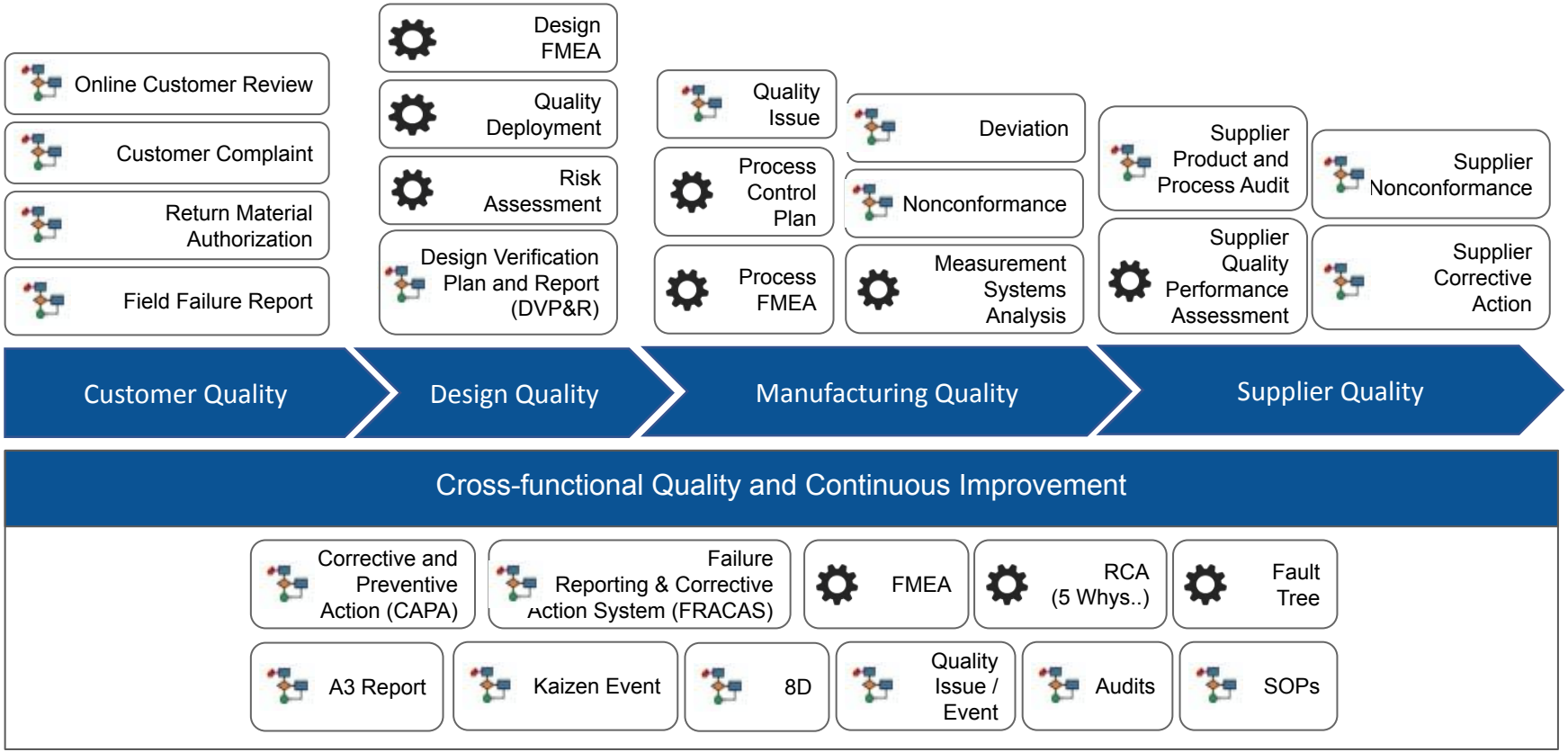
Zero-code

Involves All the Right People at the Right Time

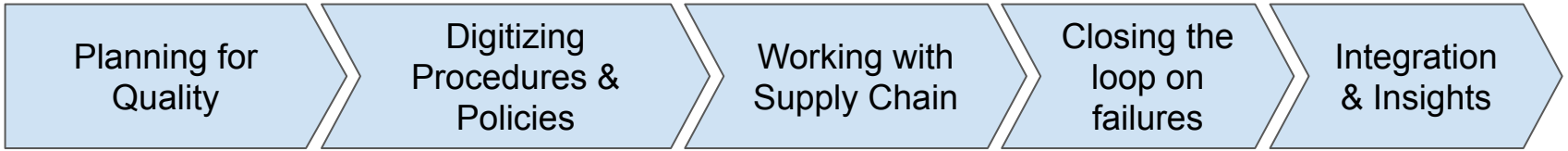
Supply Chain Ready

Integrated and effective quality tools and techniques

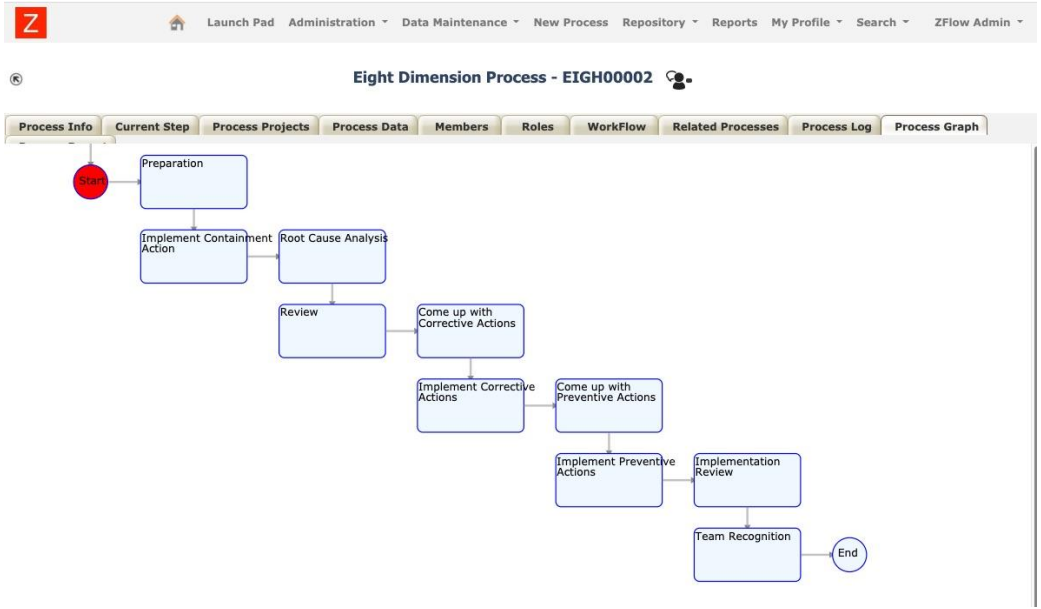
KaizenKit - Digital Workflows for Quality Management Excellence

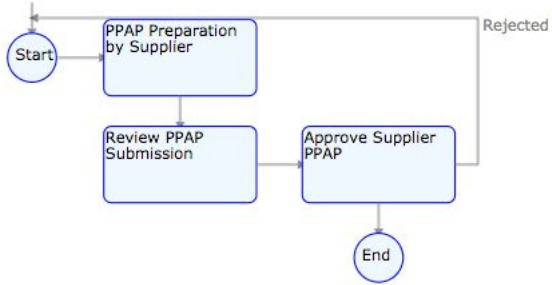


Demo

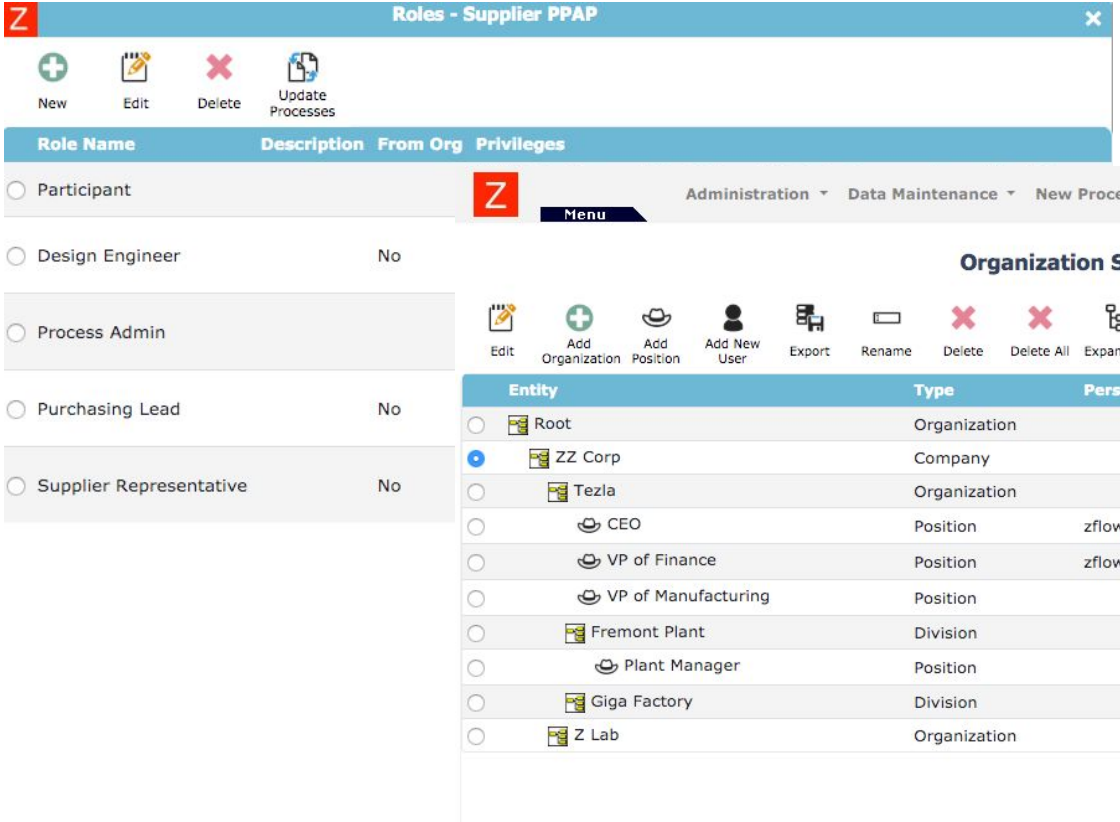

Planning for Quality
Digitizing Procedures & Policies
Working with Supply Chain
Closing the loop on failures
Integration & Insights

Powerful Do-it-yourself Workflow Design and Execution



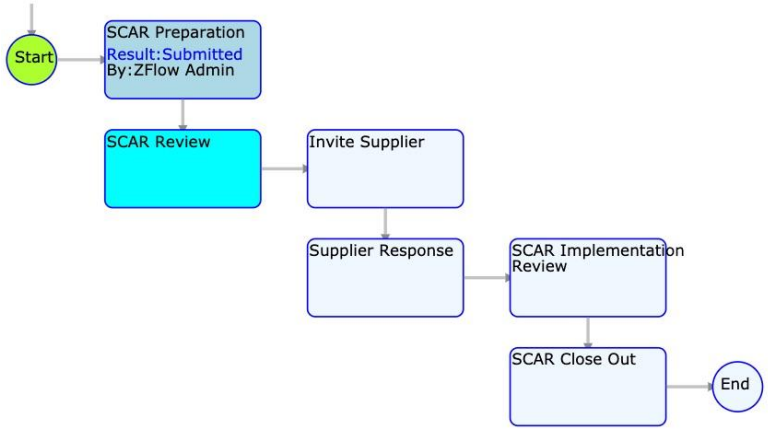


Cross-functional Team Collaboration

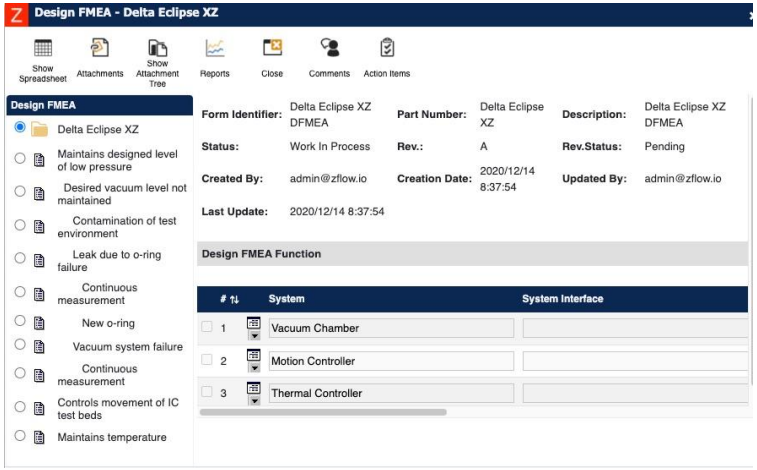


Easy and Secure Supplier/Customer Integration into Quality Management Workflows

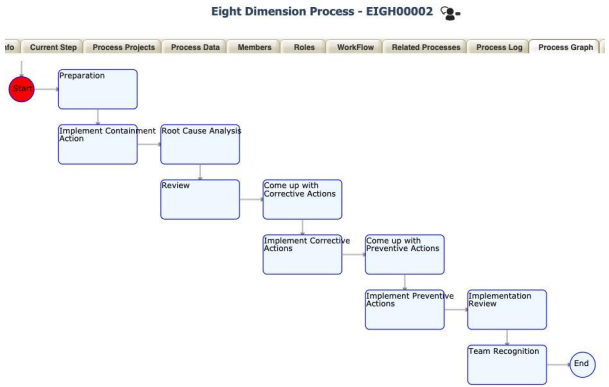
Business Name	Supplier ID	Supplier Relationship Status	Supplier Maturity Level	Supplier Category
Avioq Inc.	SAVIOQ	Active	Advanced	Strategic
Bosch Sensortec	SBOSCH	Qualified	Advanced	Non -strategic
Broadcom	SBRCM	Active	Advanced	Strategic
Carrier UTC	Carrier			
Cirrus Logic	SCIRRUS			
Genco Contractors	Genco			
Generac	Generac			
Honeywell	Honeywell			
Huizhou Desay	SHUIZHOU		Basic	Non -strategic
Intel Corp	SINTC	Preferred	Integrated	Strategic
Jabil	Jabil	Preferred	Integrated	Strategic
Lattice Semiconductor	SLATTICE	Qualified	Advanced	Non -strategic
Lennox International	Lennox			
MetalDyne	MetalDyne	Active	Basic	
Murata Manufacturing	MURATA	Active	Advanced	Routine
Northern Tool and Equipment	NorthernTE			
NXP Semiconductor	NXPSEMI	Preferred	Advanced	Non -strategic
Qorvo Inc	QORVO	Qualified	Advanced	Non -strategic
Qualcomm Inc.	QCOM	Restricted	Advanced	Strategic
Skyworks Inc.	SKYWORKS	Active	Advanced	
TDK Corp	TDKCORP			



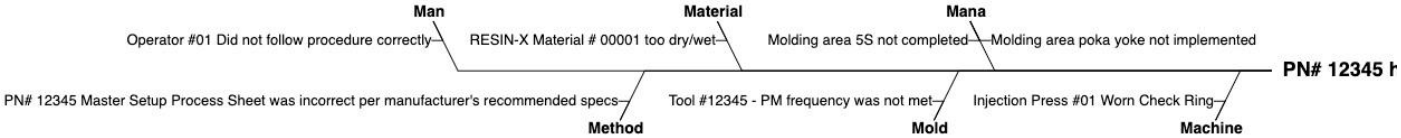
Integrated and Effective Techniques as part of Quality Workflows



FMEA

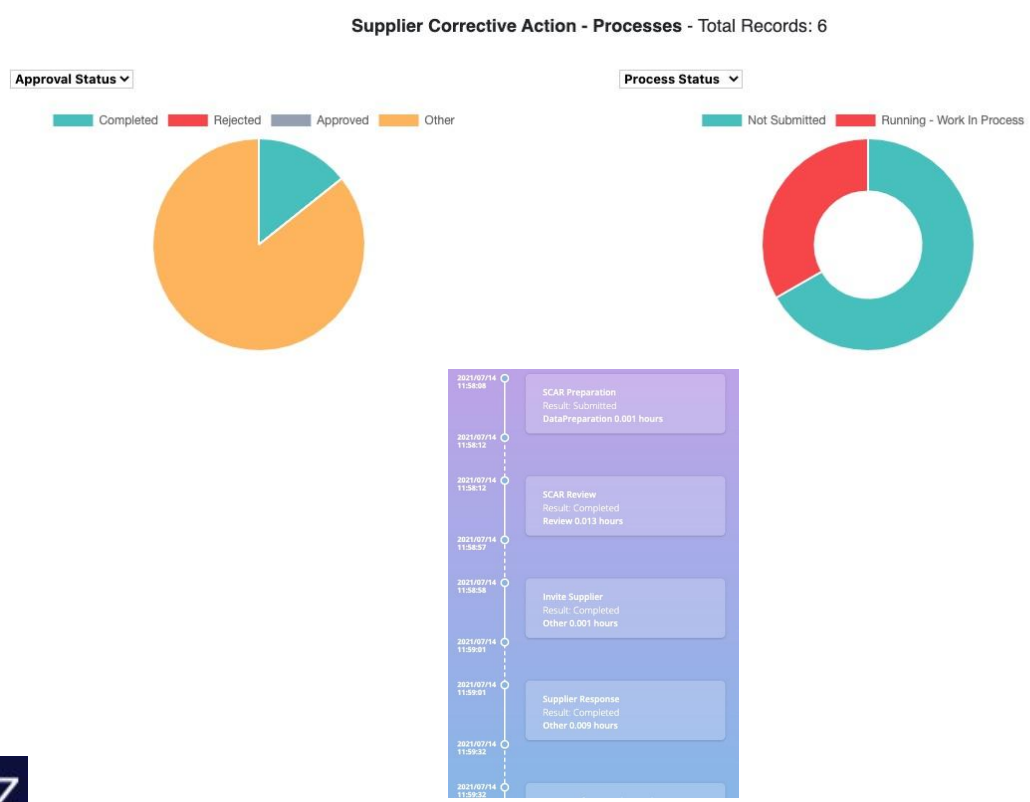


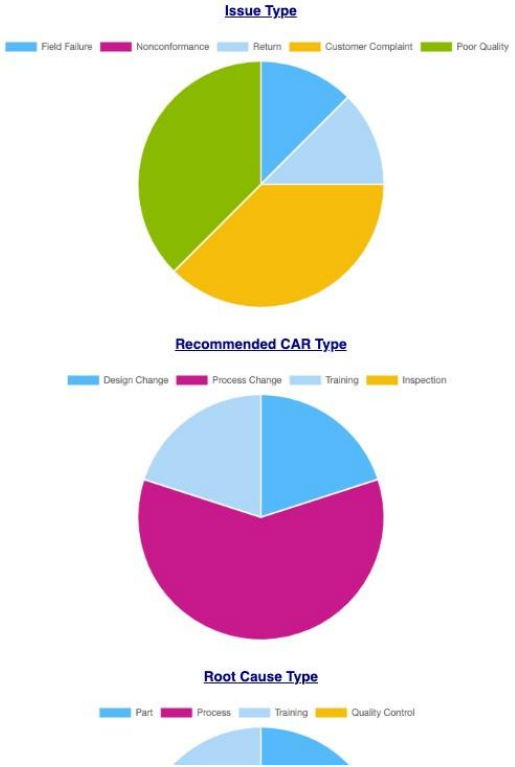
8D



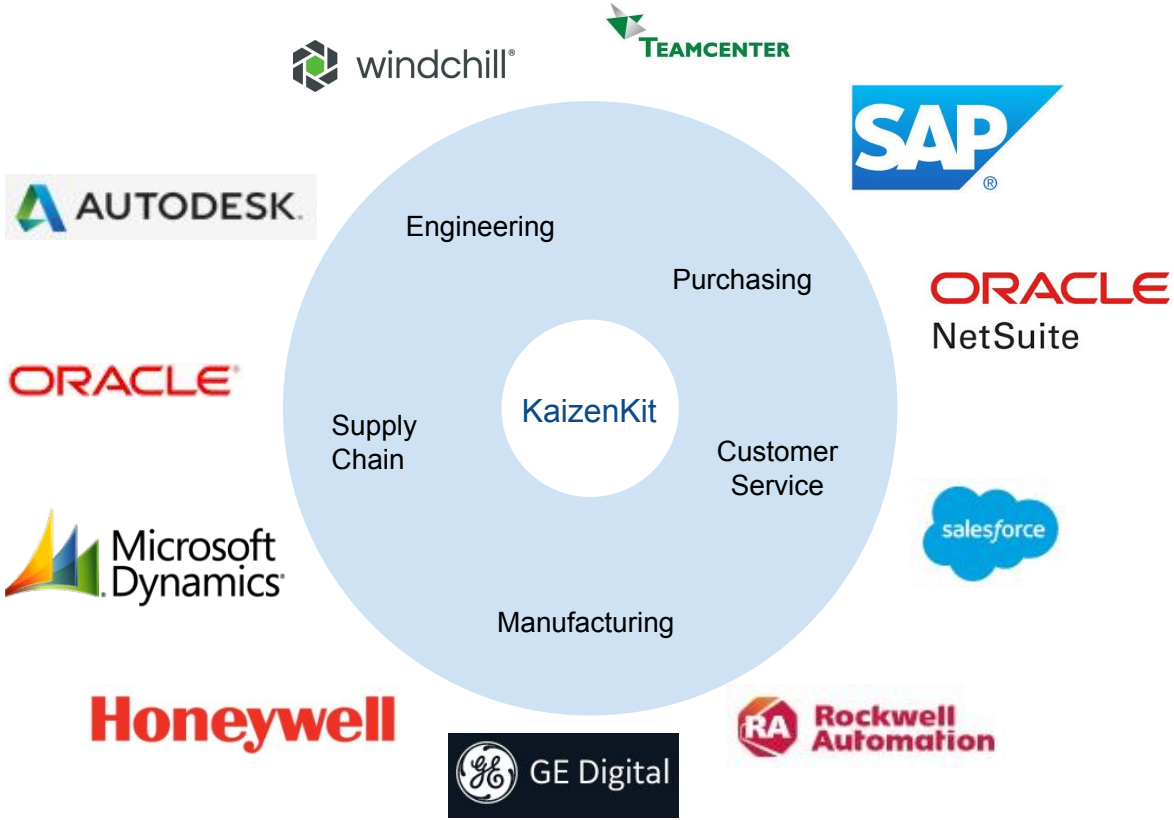
Fishbone

Quality Workflow Status Visibility and Metrics

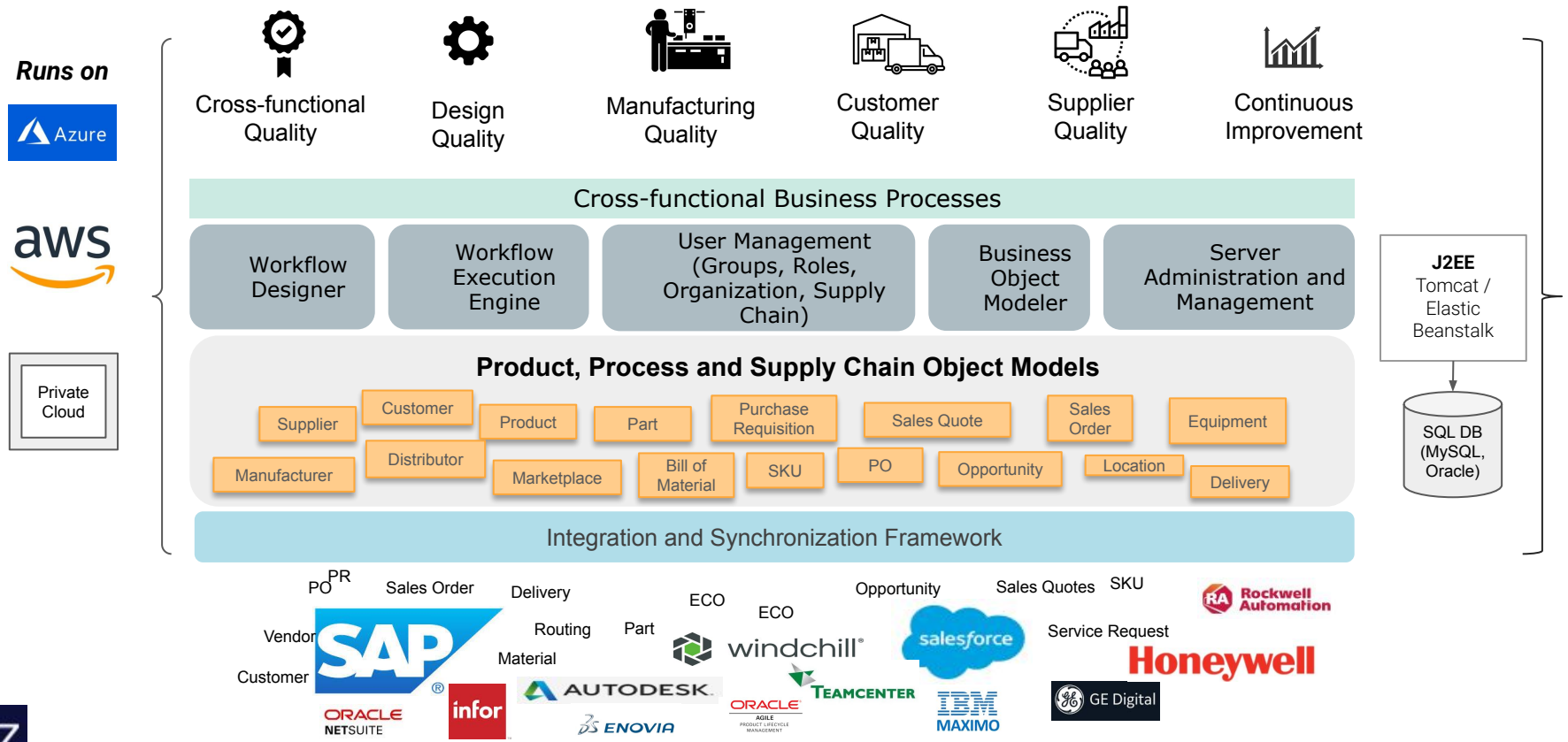




Rich Capabilities for Integrating to ERP, Engineering, Manufacturing and Supply Chain Applications



Architecture



Summary

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

Free Trial

Free Pilot

For More Information

https://www.kaizenkit.io

Kris Gorrepati

Cambrian Lab
+1-408-569-3744
Kris.gorrepati@cambrianlab.net