



**PROBITY TECHNOLOGIES PRIVATE LIMITED**

Your partner to build and uphold digital enterprise

# ProEx

***Traceability Solution for Electronics Manufacturing Service  
(EMS)***

# Digitilization | Automation | Innovation

*Probity Technologies is focused on delivering value to electronics manufacturers through integrated solutions for data intensive business processes that help enterprises overcome their business challenges.*



**What challenges of EMS  
are we solving?**

Traceability

Mistake-  
Proofing

Human  
Intervention

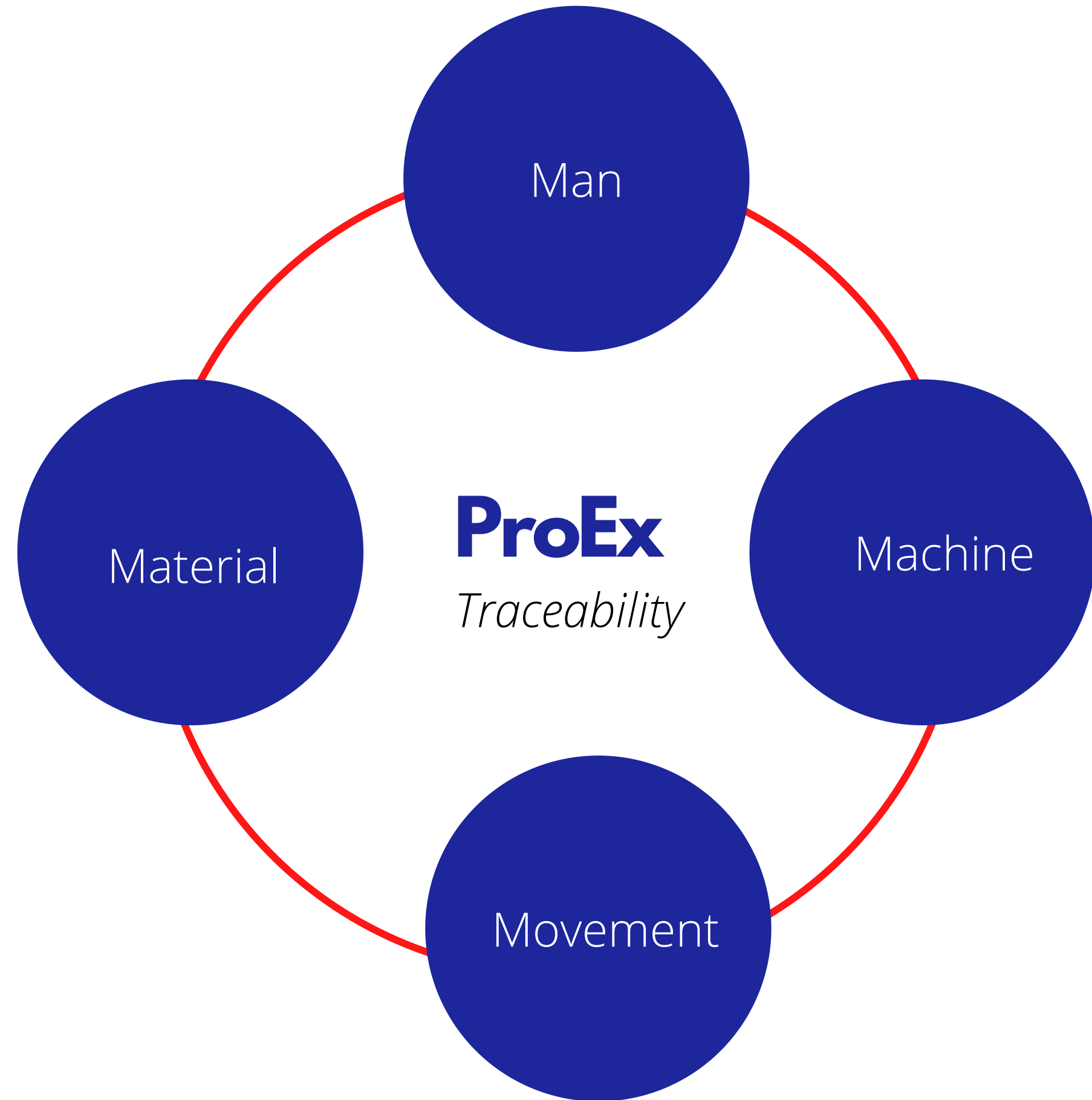
Shop Floor  
Visibility

Process  
Enforcement

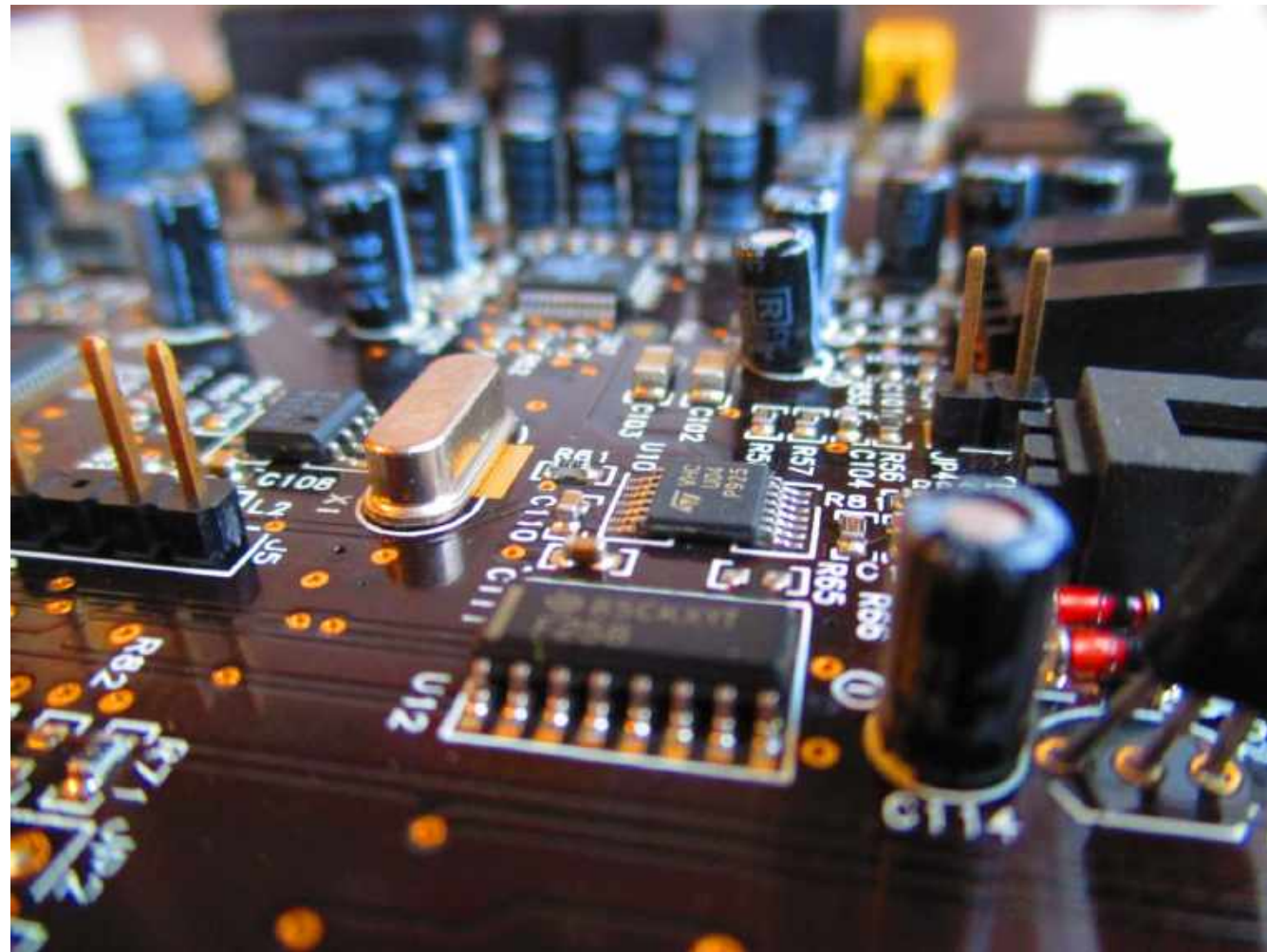
Digital  
Transformation

# Our Solution

# Traceability



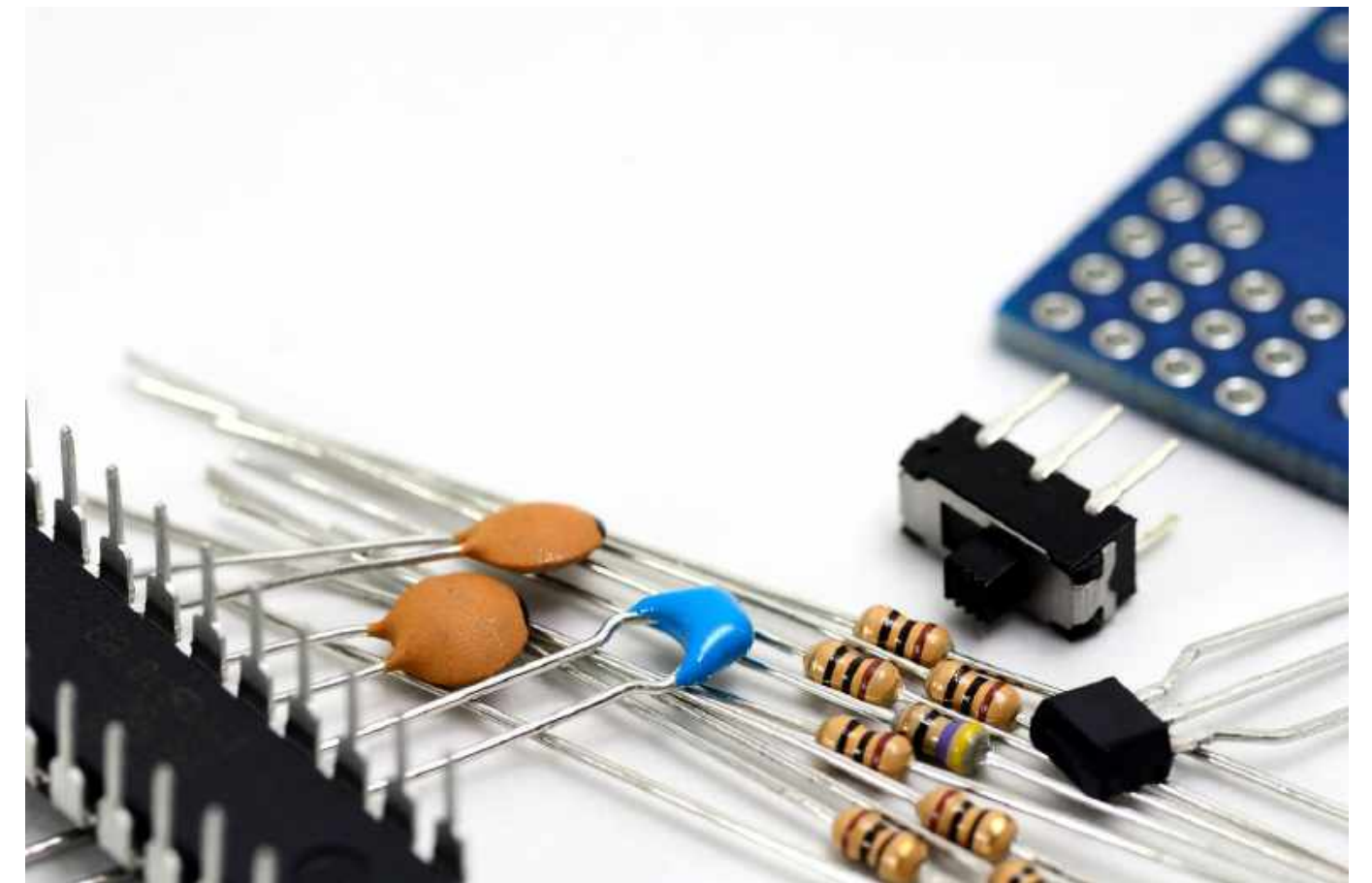
Get Traceability of your product up to last discrete component according to your genealogy



Product



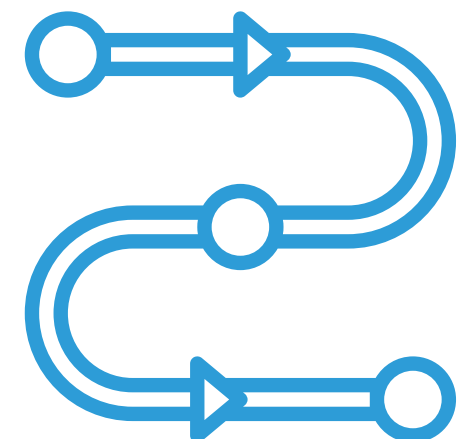
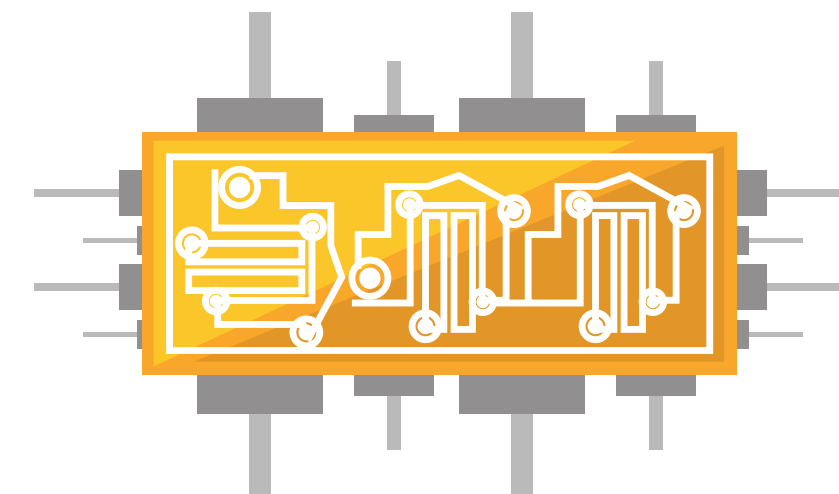
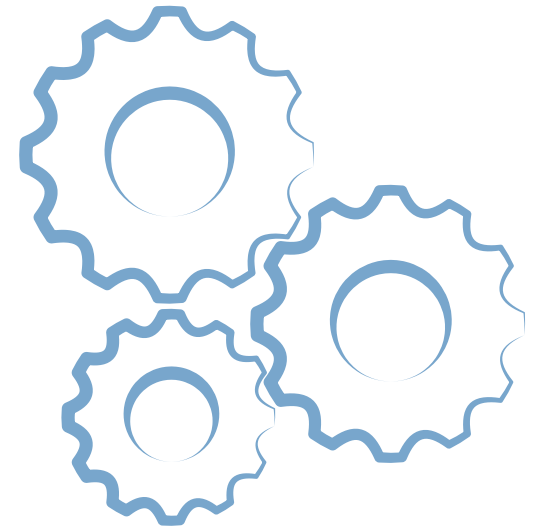
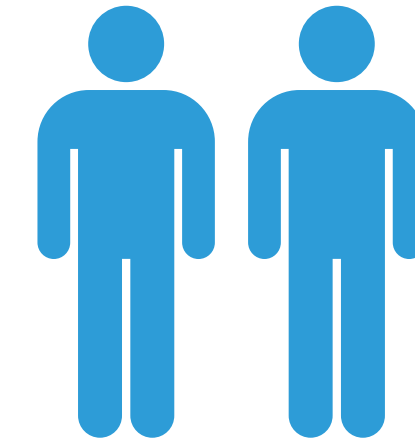
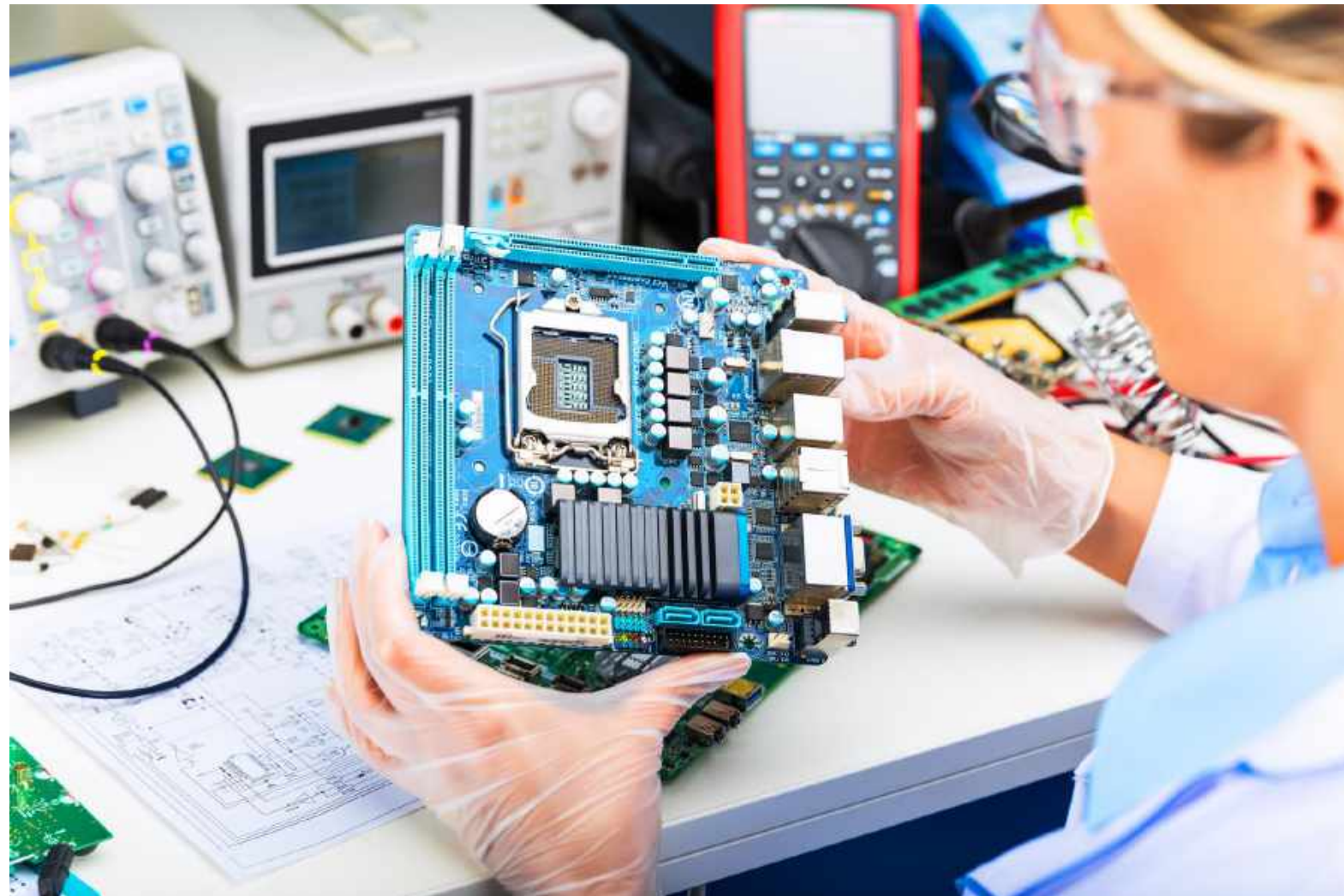
ProEx



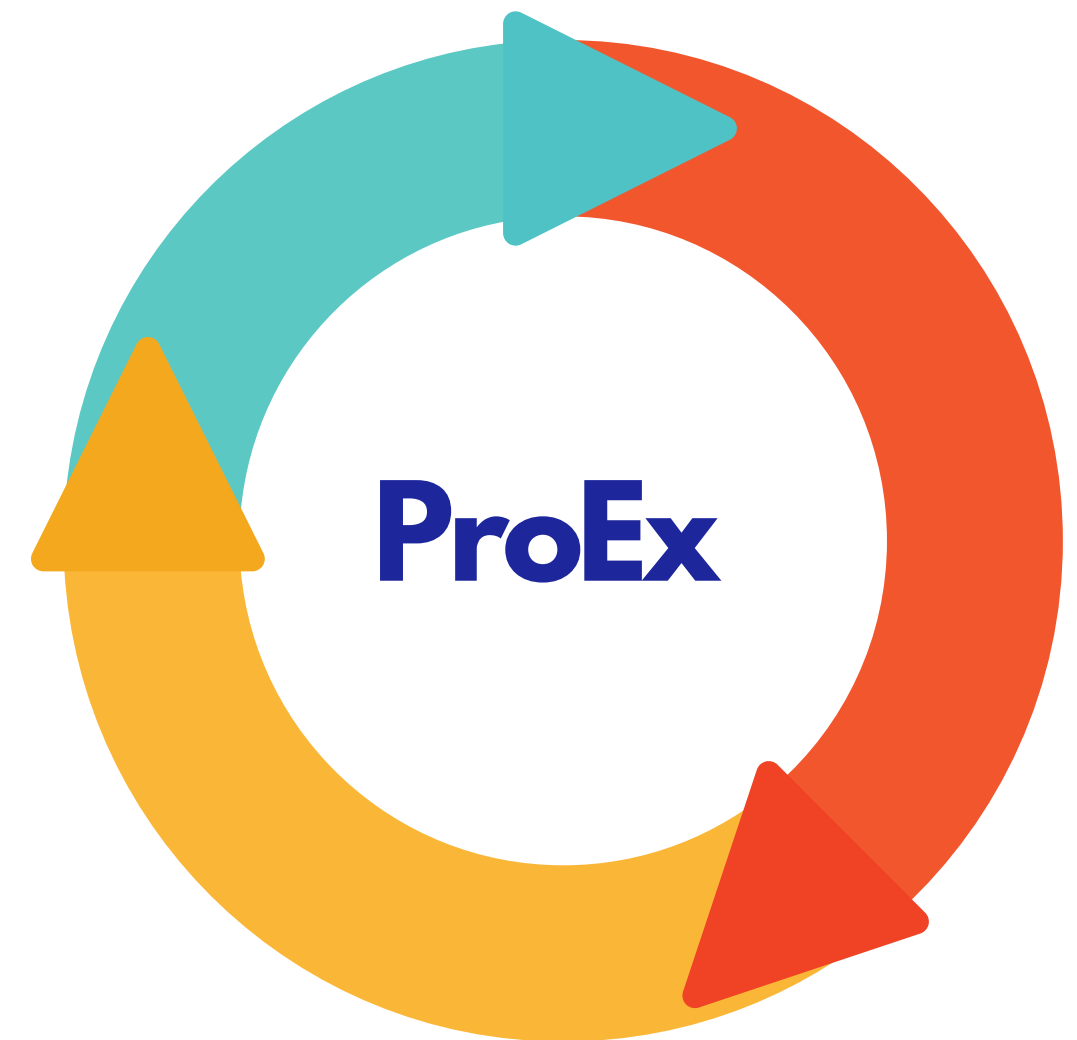
Components

Trace back every manufactured electronic component w.r.t.

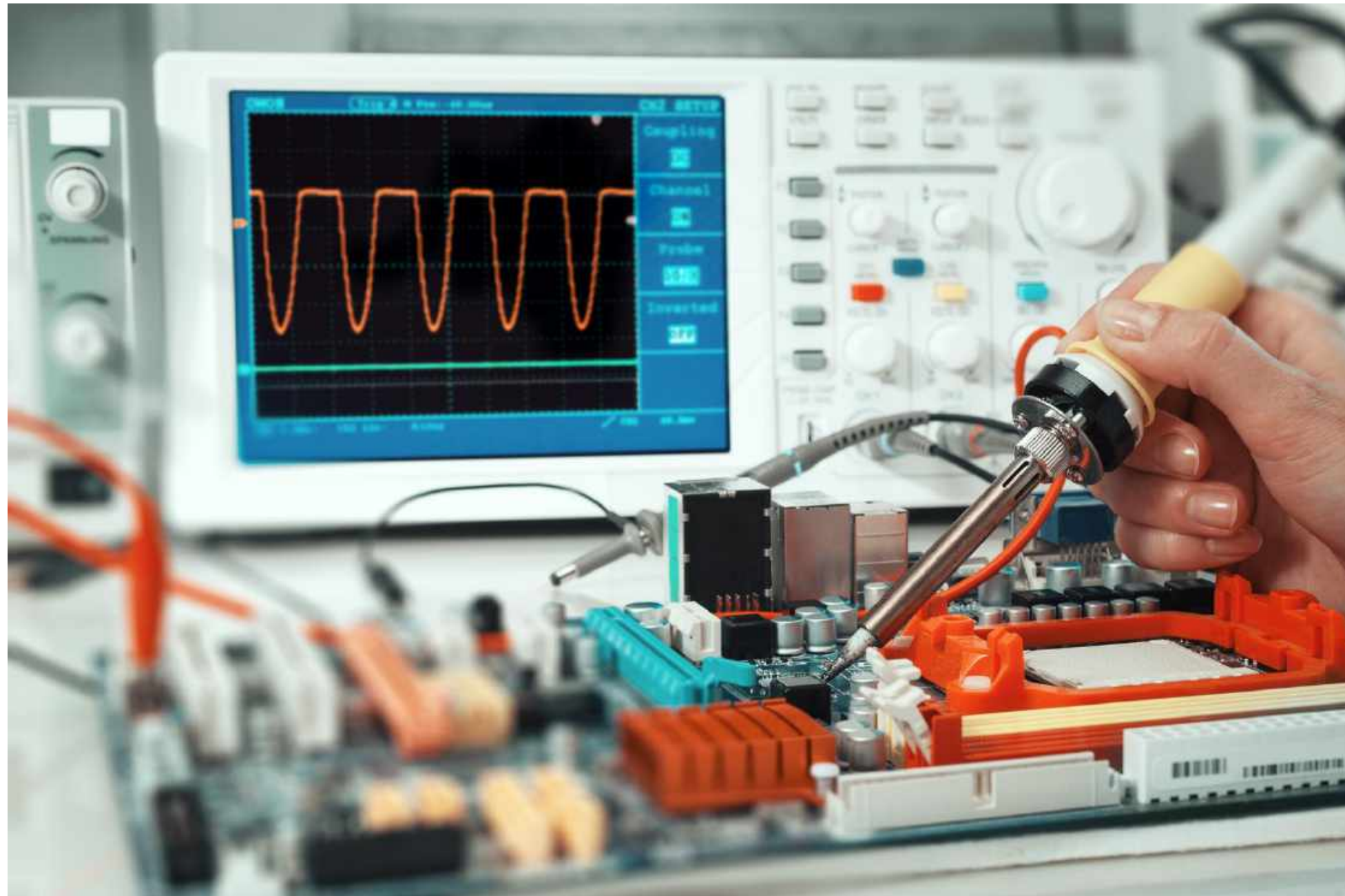
1. Man
2. Machine
3. Material
4. Movement



Streamline your warranty management & recall management systems by efficiently capturing & managing the traceability data.



Enhance product quality by precisely pointing the cause of failure and take actions to mitigate the risk of failure in future.



Reduce the risk of future failure

OEM Compliance.

Scan Barcode \*

1812020012NZMHN721BBHCH3B

Select \*

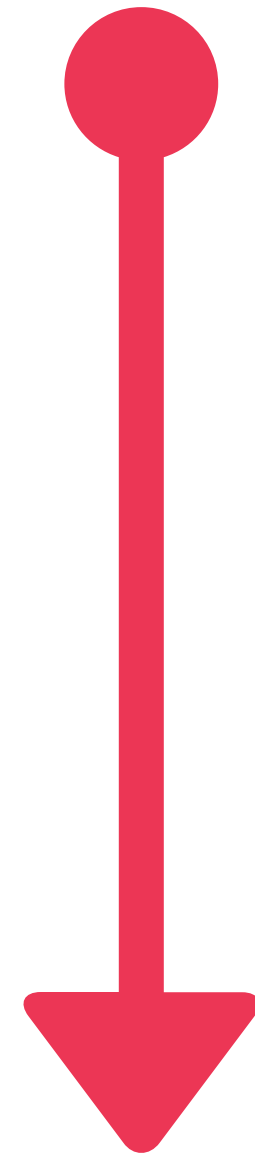
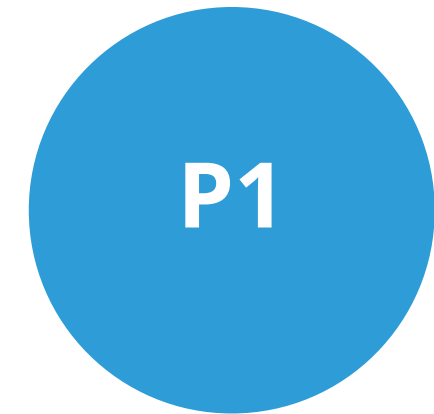
- Traceability without component
- Traceability with component

### 1812020012NZMHN721BBHCH3B Traceability Details

Product Code	Product Description	Line	Equipment	Stage	Group QRCode	Process Start Time	Process End Time	Inspection Start Time	Inspection End Time	Inspection Result	Side	Remark	Rework Component
BBHC	MASTER BATCH MILKY WHITE	Production Line	LASER MARKING	Birthing	T1812020010BBHCH3B	03/12/2018 2:53:42 PM	03/12/2018 2:53:42 PM				NA		
BBHC	MASTER BATCH MILKY WHITE	Production Line	LASER MARKING	Birthing	B1812020010BBHCH3B	03/12/2018 2:53:42 PM	03/12/2018 2:53:42 PM				NA		
BBHC	MASTER BATCH MILKY WHITE	Production Line	AOI	AOI	T1812020010BBHCH3B	02/10/2018 3:25:00 AM	02/10/2018 3:25:00 AM	02/10/2018 3:25:00 AM	02/10/2018 3:25:00 AM	PASS	TOP		
BBHC	MASTER BATCH MILKY WHITE	Production Line	AOI	AOI	B1812020010BBHCH3B	02/10/2018 1:28:00 AM	02/10/2018 1:28:00 AM	02/10/2018 1:28:00 AM	02/10/2018 1:28:00 AM	PASS	BOTTOM		
BBHC	MASTER BATCH MILKY WHITE	Production Line	Omron	Cleaning	B1812020010BBHCH3B	03/12/2018 3:50:28 PM	03/12/2018 3:50:28 PM				BOTTOM		
BBHC	MASTER BATCH MILKY WHITE	Production Line	SPI_LINE1	SPI	B1812020010BBHCH3B	03/12/2018 3:52:22 PM	03/12/2018 3:52:22 PM	03/12/2018 3:52:22 PM	03/12/2018 3:52:22 PM	Fail	BOTTOM		
BBHC	MASTER BATCH MILKY WHITE	Production Line	Omron	Cleaning	T1812020010BBHCH3B	03/12/2018 5:27:14 PM	03/12/2018 5:27:14 PM				TOP		
BBHC	MASTER BATCH MILKY WHITE	Production Line	SPI_LINE1	SPI	T1812020010BBHCH3B	03/12/2018 5:27:27 PM	03/12/2018 5:27:27 PM	03/12/2018 5:27:27 PM	03/12/2018 5:27:27 PM	Fail	TOP		

Traceability generated by ProEx at customer's location

# Process Control & Enforcement



Increase the accuracy of your process execution by constantly monitoring & controlling the process.

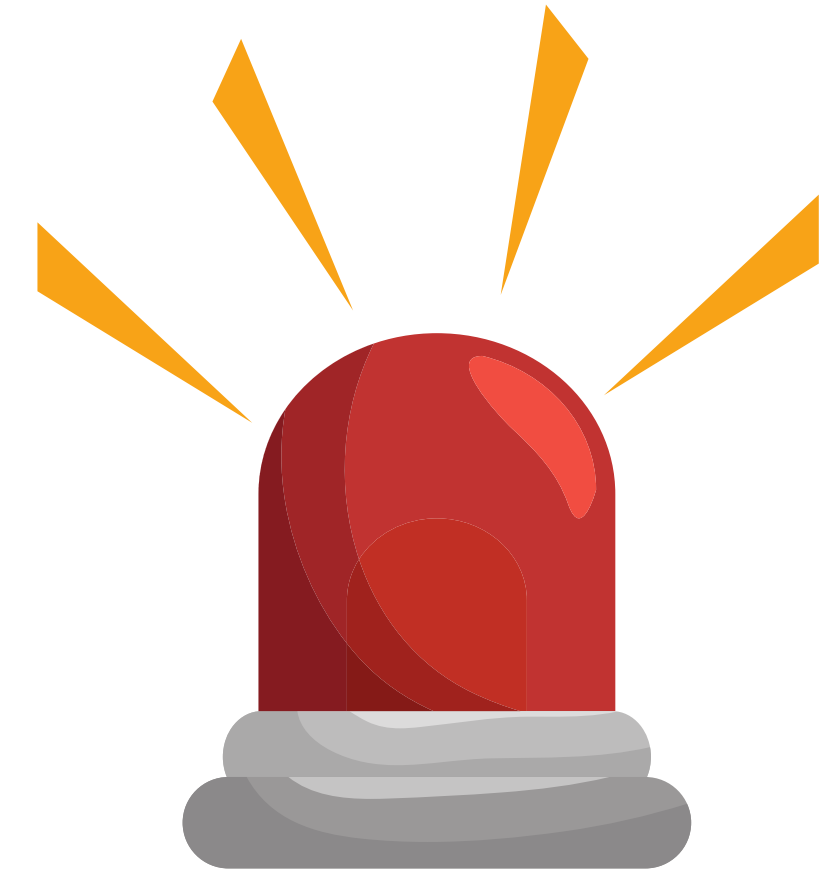


Implement standard Best Practice systems to reduce the risk of in process rejections.



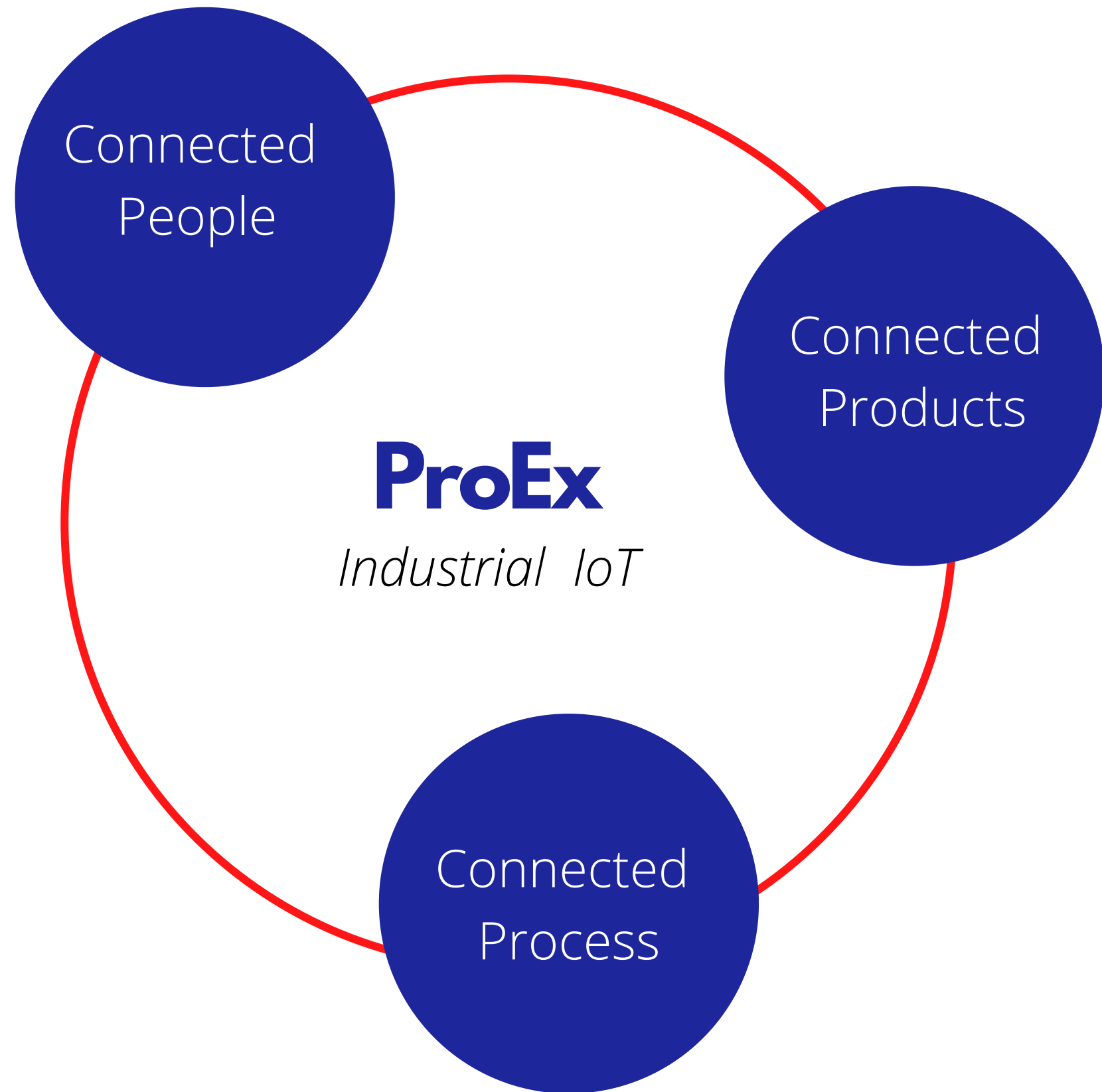
- Process Routing
- Process Mapping
- Digital Assembly Line.

Alarm systems for higher management to track deviation from standard process enforcement.

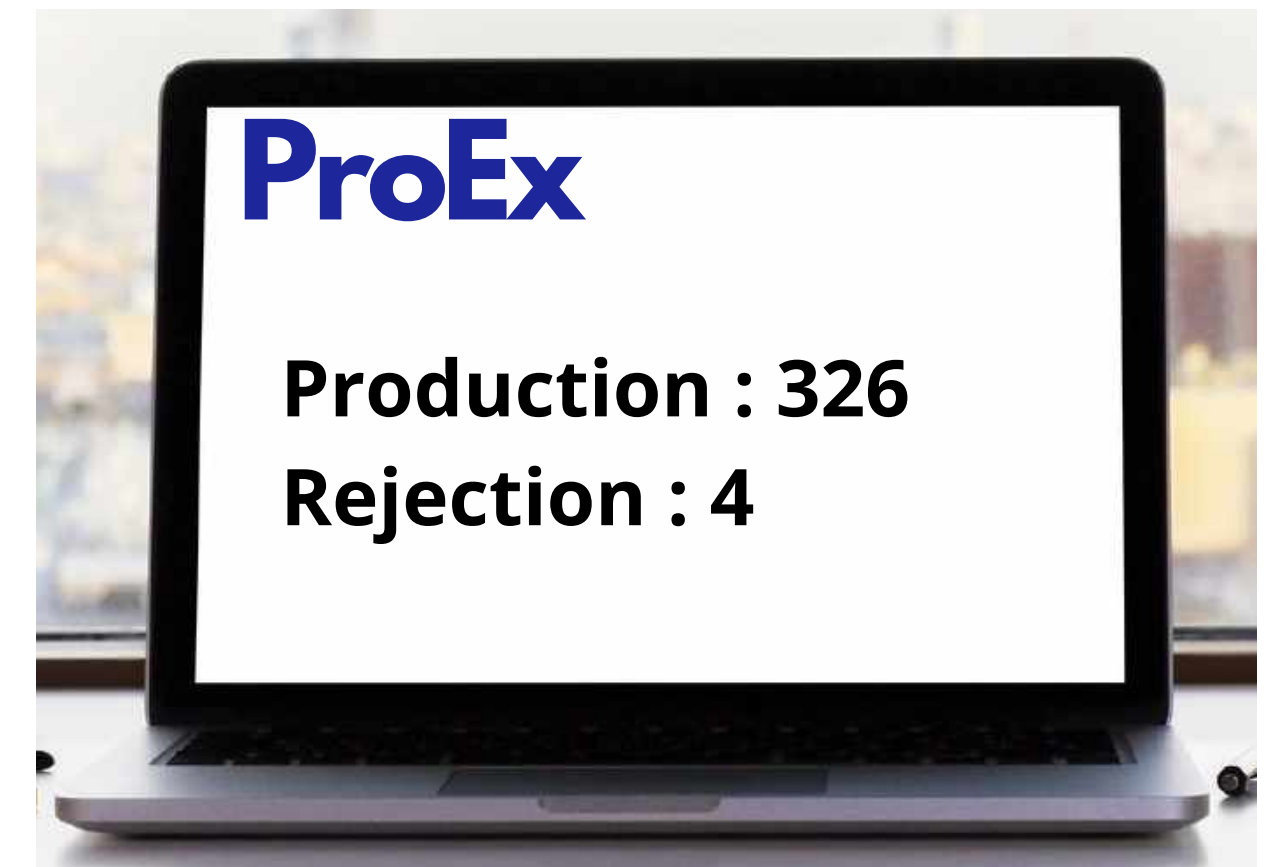
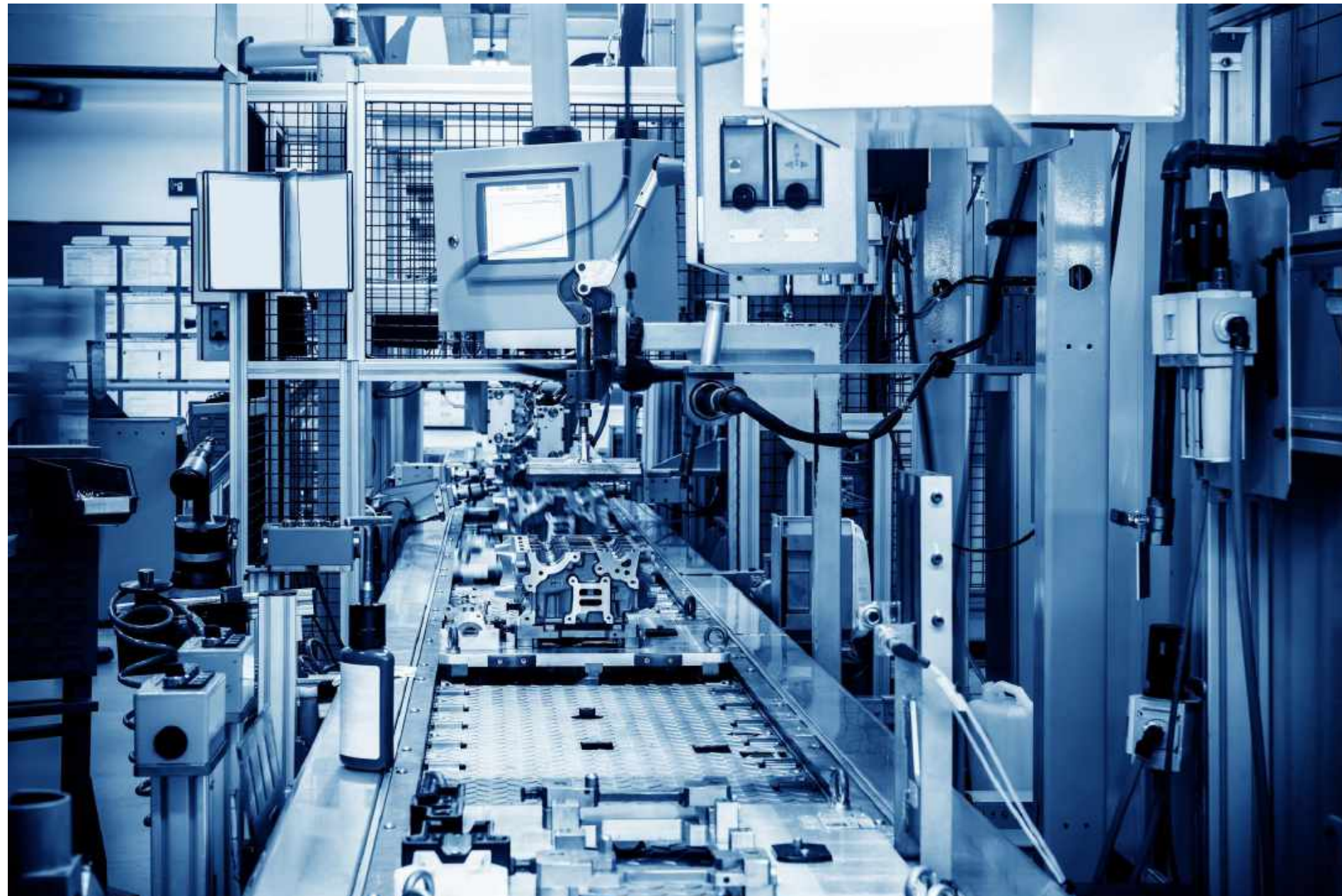


Digital as well as analog alarms

# Shop Floor Transparency

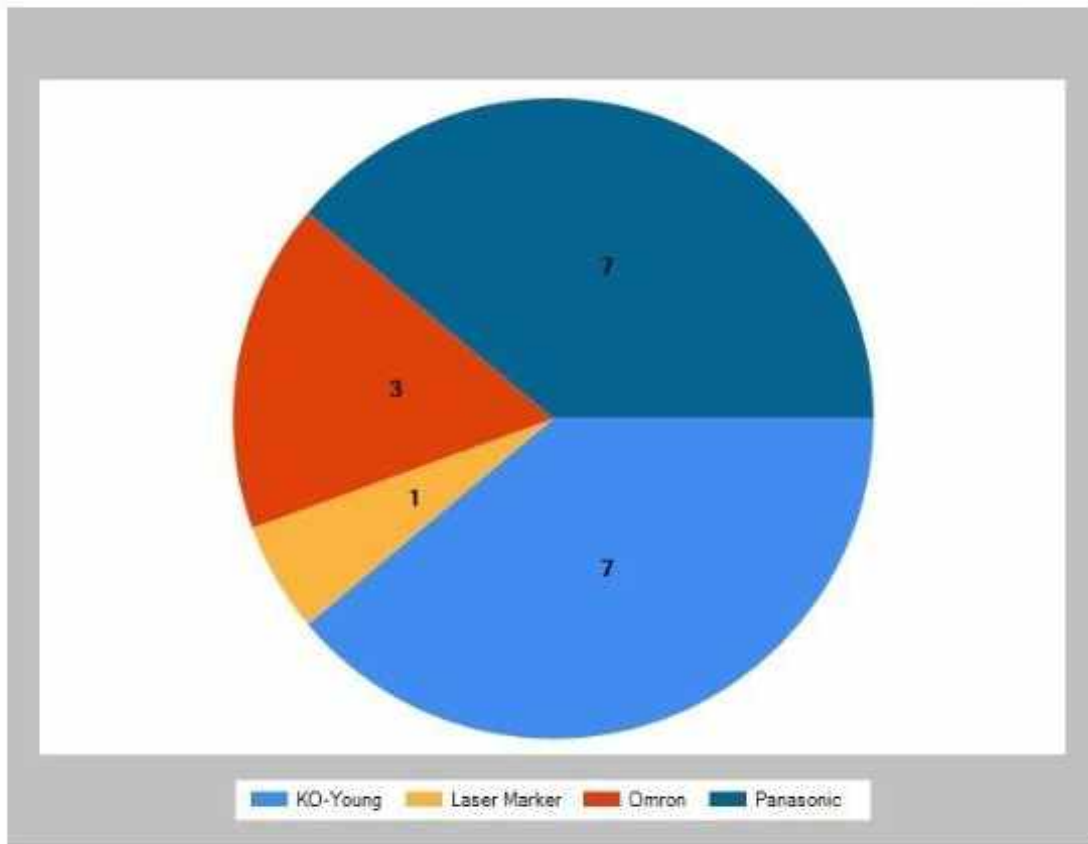


Monitor production and rejection count at real time without manual intervention.



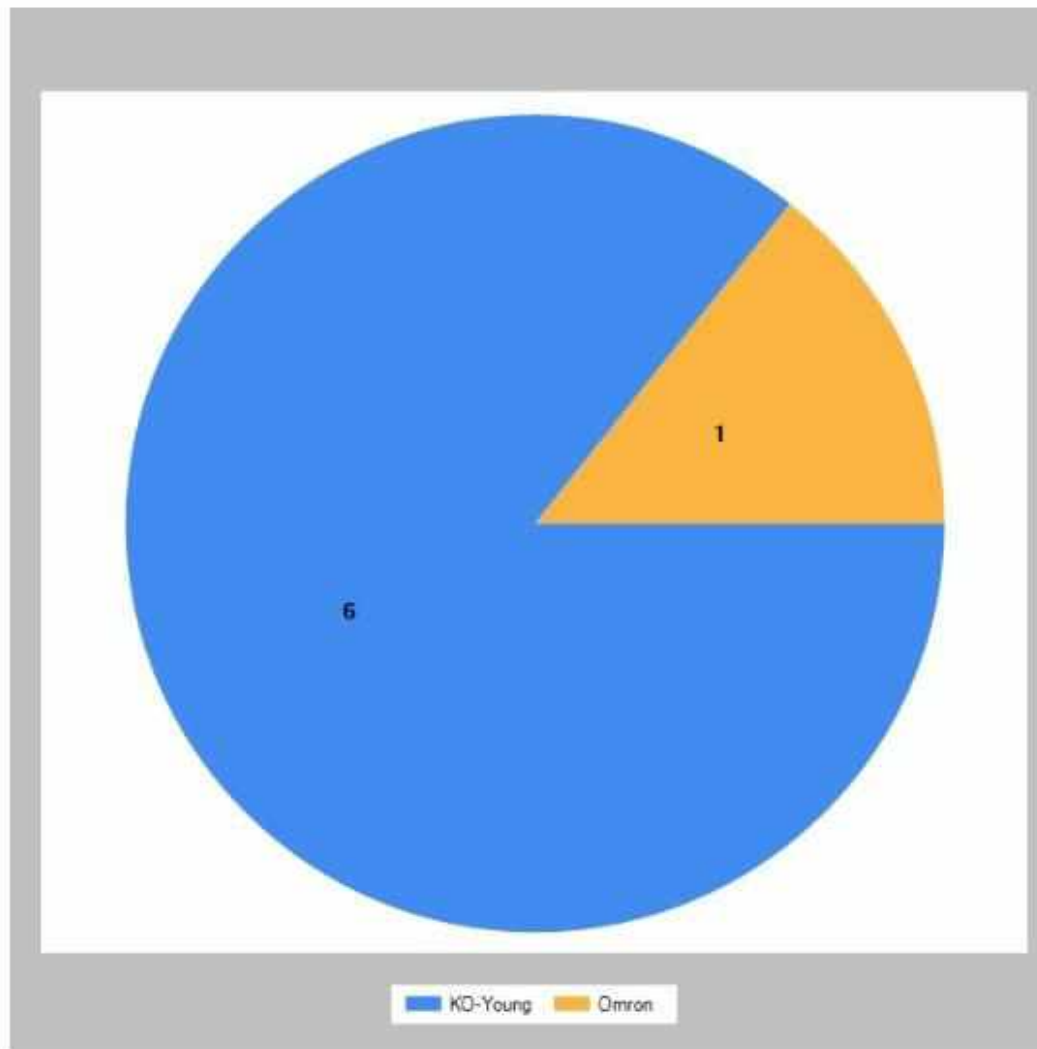
## Equipment-wise Production Report

Equipment	Production Count
KO-Young	7
Laser Marker	1
Omron	3
Panasonic	7



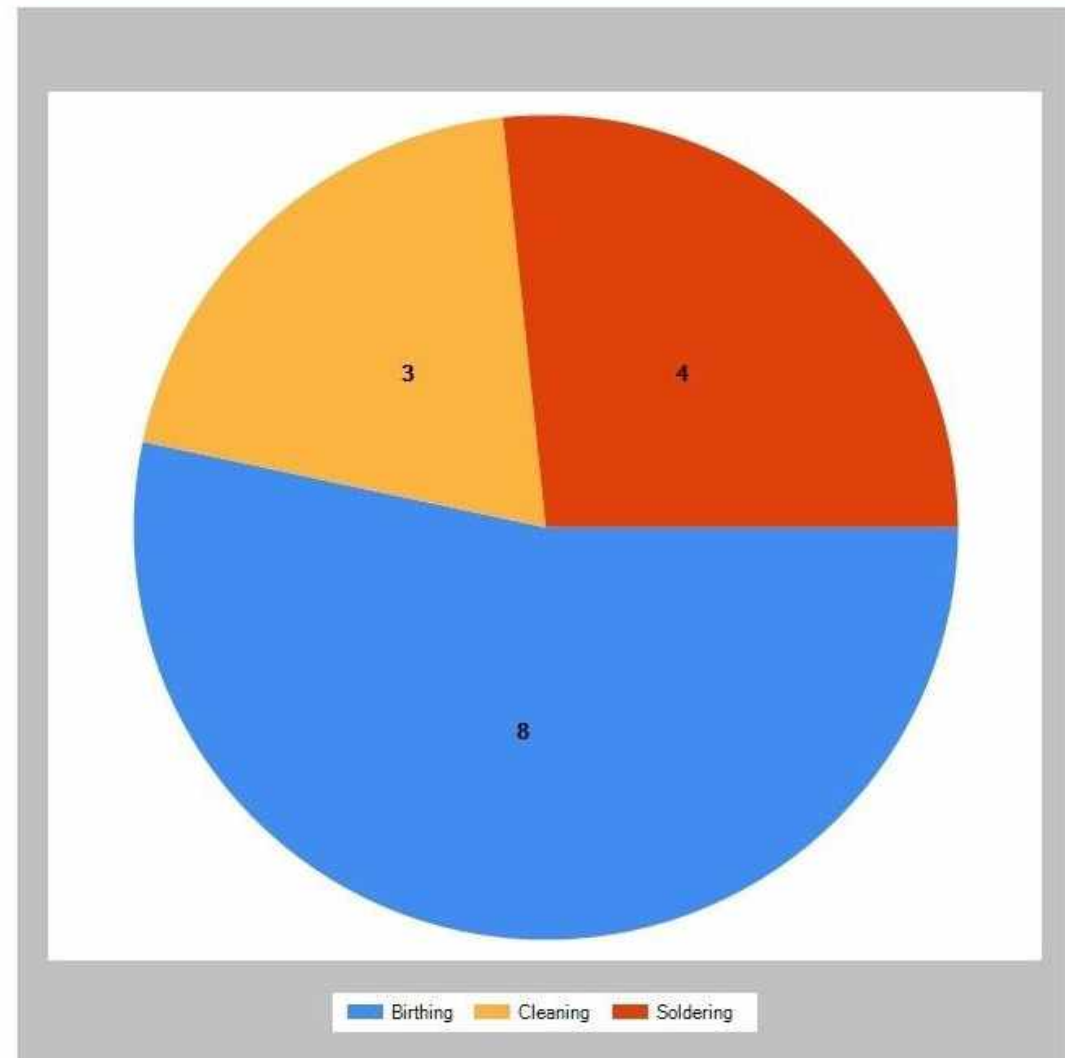
## Equipment-wise Rejection Report

Equipment	Rejection Count
KO-Young	6
Omron	1



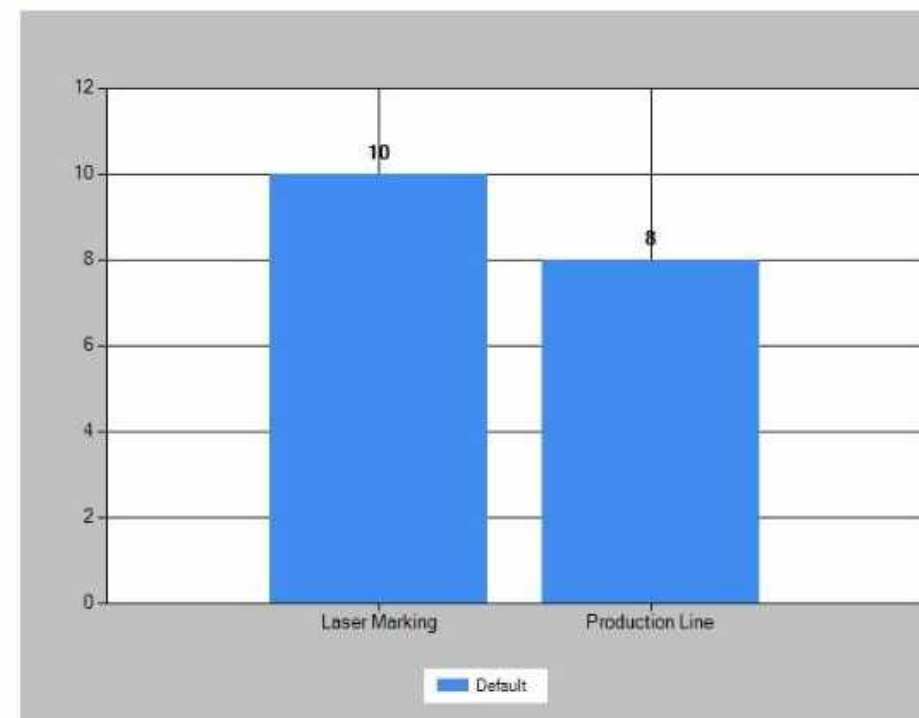
## Stage-wise Production Report

Stage	Production Count
Birthing	8
Cleaning	3
Soldering	4



## Assembly Line-wise Production Report

Assembly Line	Production Count
Laser Marking	10
Production Line	8



Accurately measure your OEE , OLE and optimize it for increase in total production efficiency

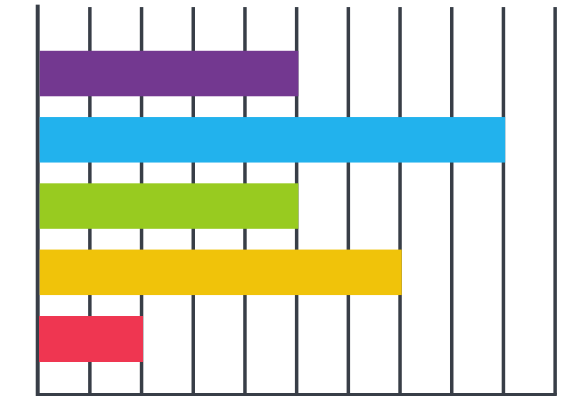
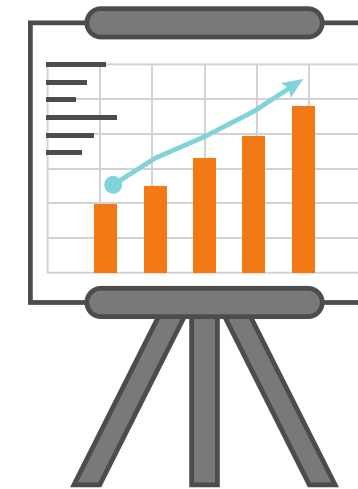
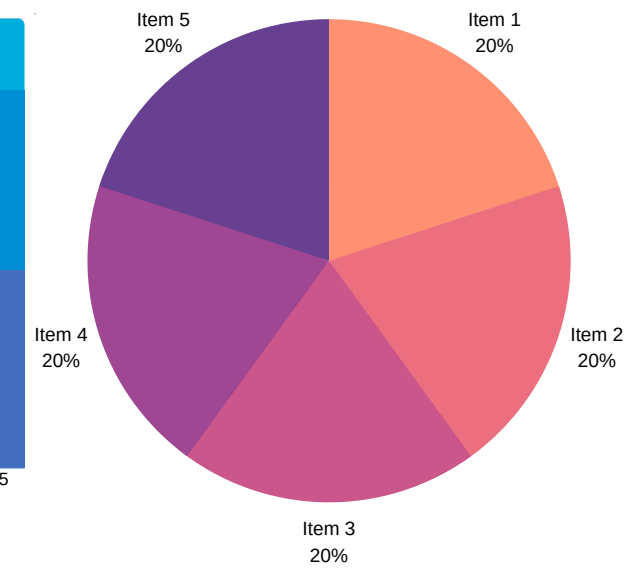
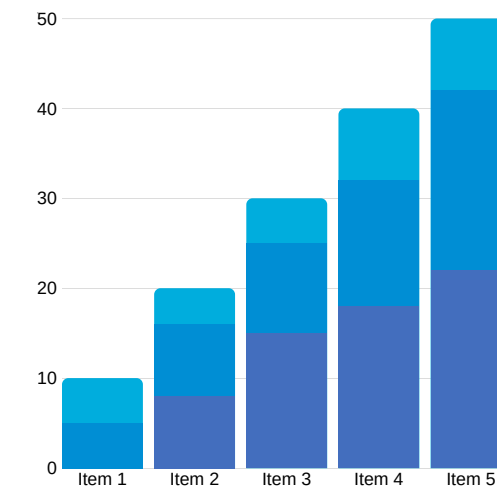


$$\text{OEE} = \text{Availability} * \text{Quality} * \text{Performance}$$

# Paperless Shopfloor.



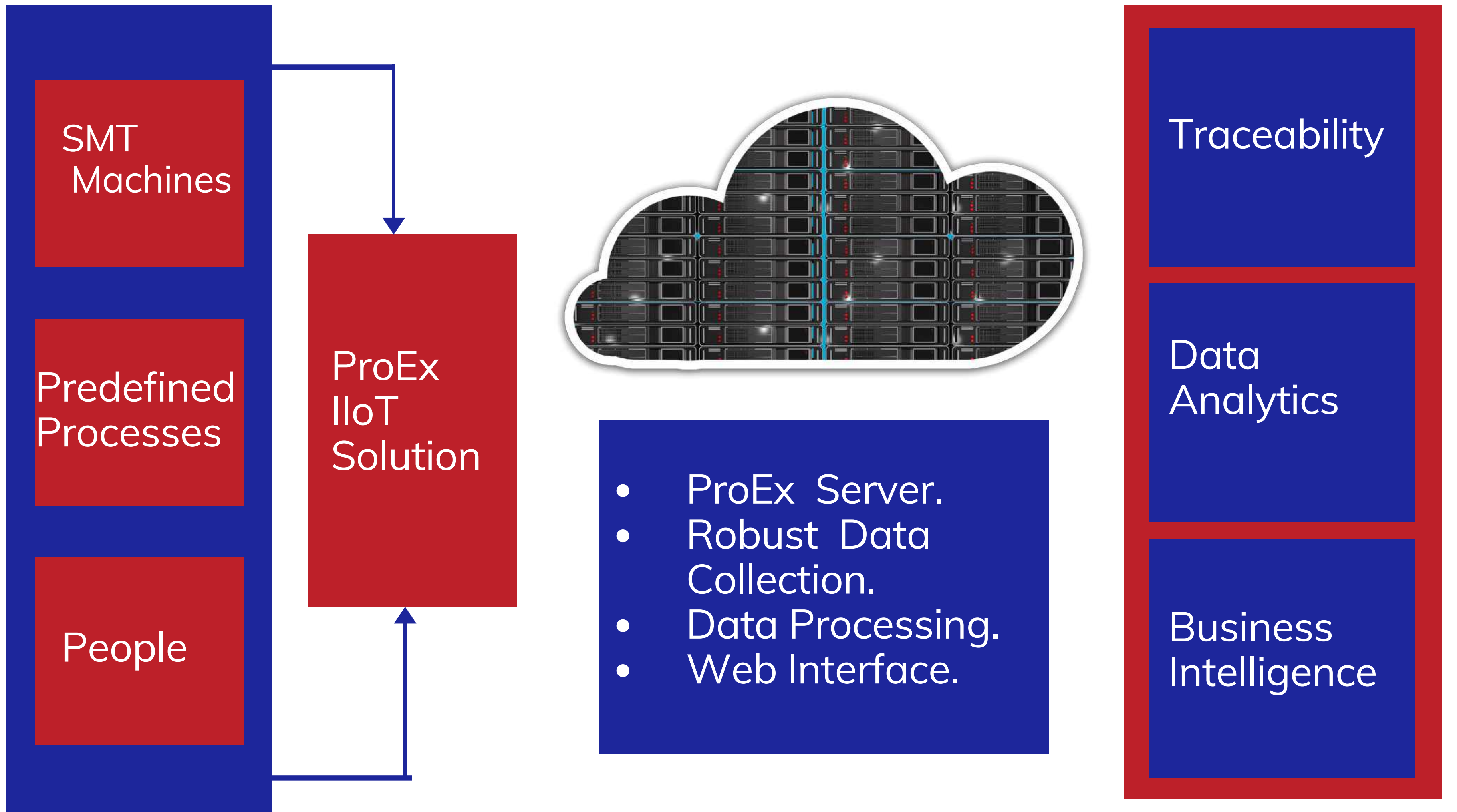
# Manufacturing Data Analytics



Data driven Decision Support System for management to substantially increase operational productivity.



# ProEx Solution Landscape



SMT  
Machines

Predefined  
Processes

People

ProEx  
IIoT  
Solution

- ProEx Server.
- Robust Data Collection.
- Data Processing.
- Web Interface.

Traceability

Data  
Analytics

Business  
Intelligence

# Customer Testimonial



*We were looking for practical solution for our electronics manufacturing unit to get full traceability and ensure process enformcemnt. We deployed ProEx for this purpose, we are using it since 2 years and find it very useful. It integrated with our machines on assembly lineto capure data directly and generate required MIS.*

*- Sugawara San, VP Katolec-Minda*



**ProEx has captured  
manufacturing data of  
more than 20 million  
products..!**

# Our Leadership



## Mr. Jitendra Kulkarni

- 25+ years in manufacturing industry
- Global IT Head of Indian Auto Comp Giant
- Expert in strategic part of implementing IT solutions in manufacturing industry



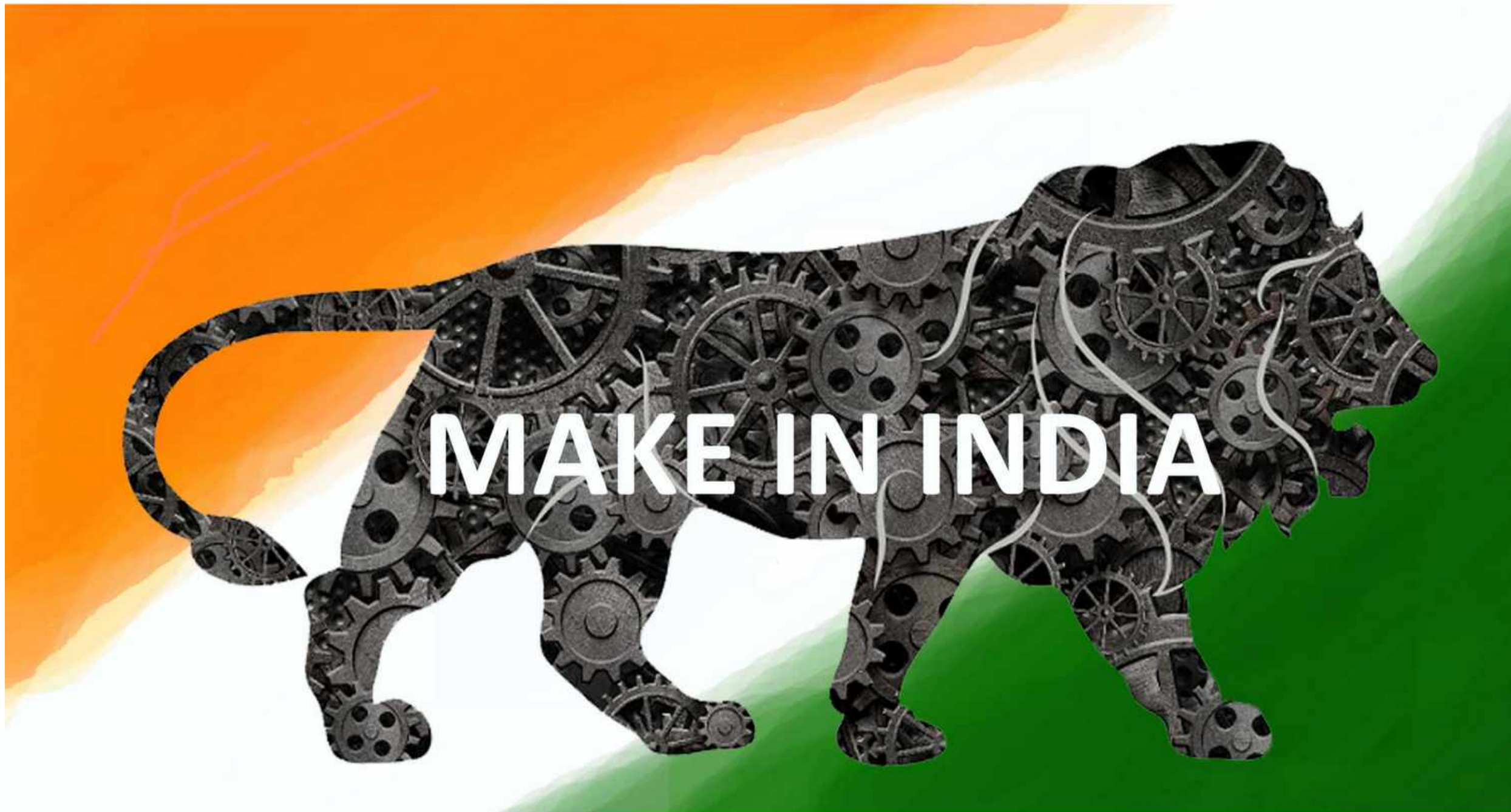
## Mr. Sanjay Kadam

- 17+ years in manufacturing industry
- Lead IT in east asian countries for manufacturing companies
- Expert in strategic part of implementing IT solutions in manufacturing industry



## Mr. Falgun Mistry

- 23+ years of overall experience with specialisation in solution design for digital presence
- 13+ years of experience in custom automation, product/service design & innovation



Designed & Developed in India



# Take your first step

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