



TKR VIDEO

<https://tkrdemexico.com/2020/10/30/tkr-de-mexico-s-a-de-c-v-introductory-video/>

"All services and products that we deliver start from **listening to the customer's voice.**"

Satoshi Ota President and CEO

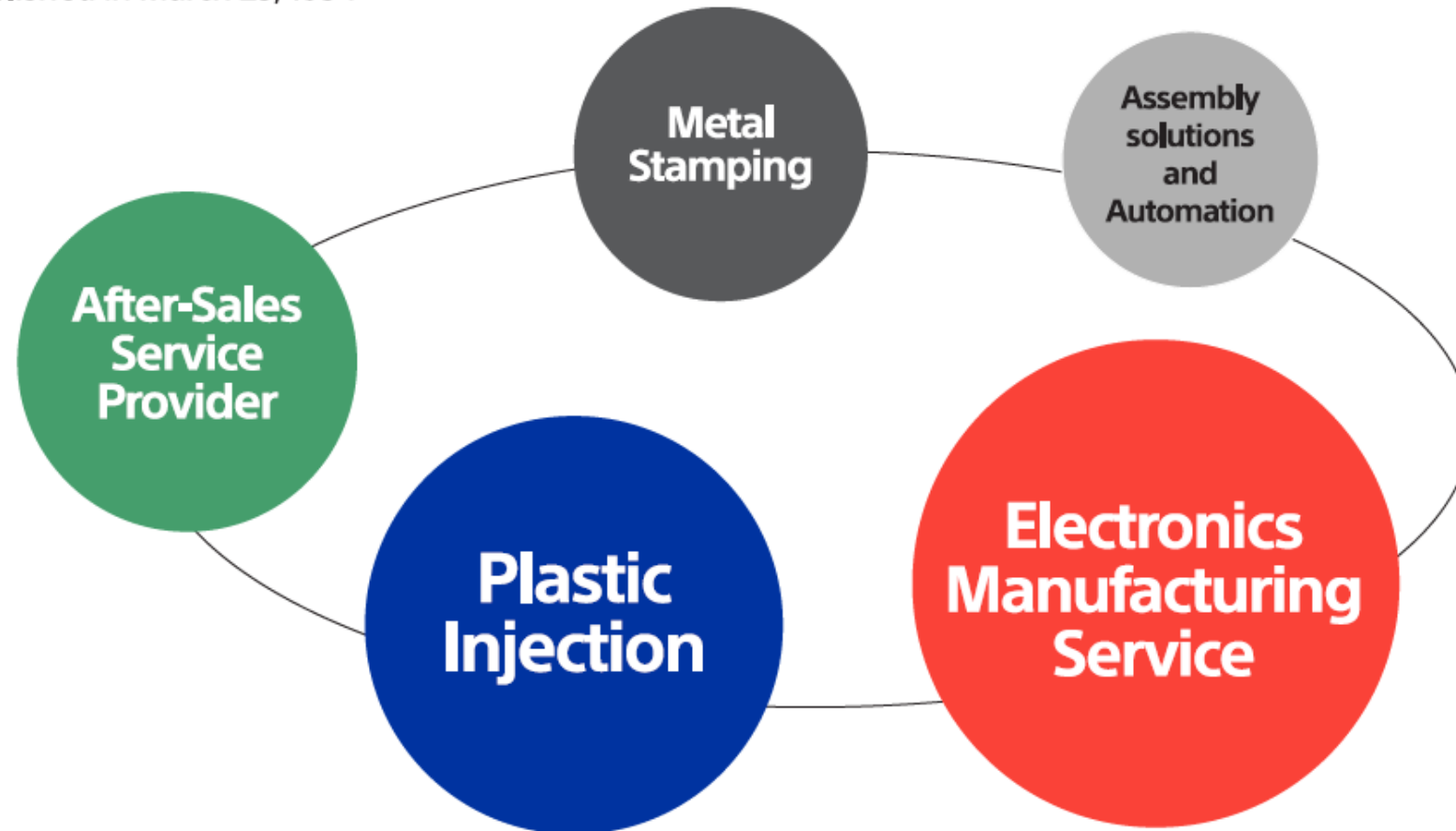
Intro to TKR Corporation

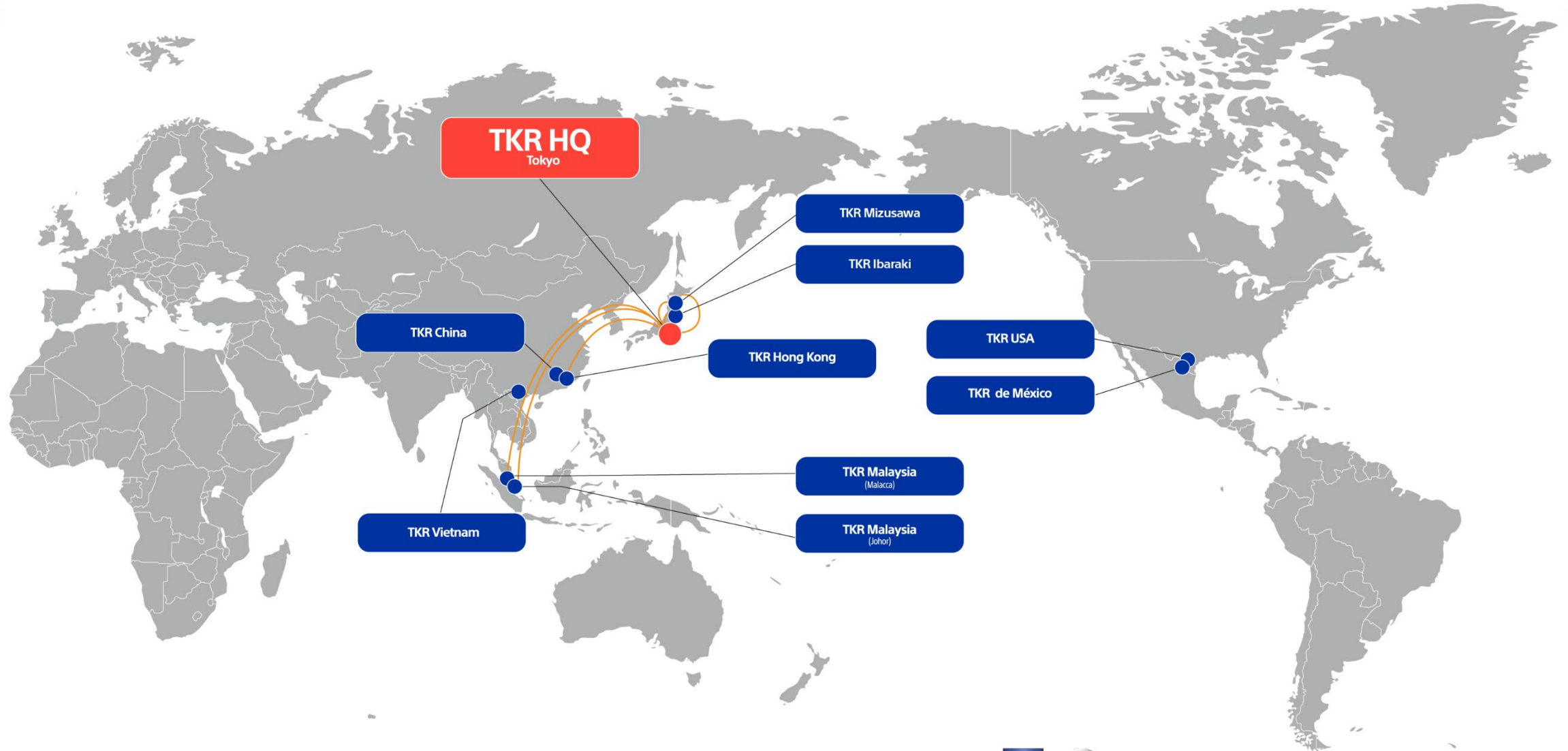


TKR Group is a global Electronic, Metal Stamping, Plastic Injection and an Integrated Manufacturing Supply partner.

Group Summary

- Established in March 23, 1954





TKR Capabilities Matrix



	Metal Stamping	Injection Plastic Molding	EMS (PCBA)	Final Assembly	Transformer	After Market (Repair & Recertification)	External Structure Desing	Electronic Design	Software Development	Automation	Power Supply
Mexico			●	●		●				●	
China	●	●	●	●	●		●			●	●
Malaysia (Malacca)		●	●	●	●						●
Malaysia (Johor)	●			●							
Japan (HQ/Tokyo)							●	●	●		
Japan (Mizusawa)			●	●							
Japan (Ibaraki)			●	●							
Vietnam	●		●	●							

IMMEX



PROSEC



Distribution Center

TKR USA Inc.

Located in Laredo, Texas

- Receiving
- Warehousing
- Customer Service



Factory

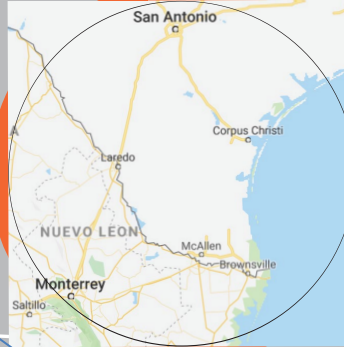
TKR de México S.A. de C.V.

Located in Nuevo Laredo, Tam.

- Manufacturing
- Repair/Refurbish/Exchange

Overview

- **Established:** November 1979 as Sony
- **Acquired by TKR Corporation:** April 1st, 2019
- **Main Operation:**
 - Electronic Manufacturing Services
 - Final Assembly
 - Reverse Logistics



EMS SOLUTIONS

MANUFACTURING
SERVICES

SOFTWARE
DEVELOPMENT
& JIG DESIGN

SYSTEM
INTEGRATION
& TEST

QUALITY &
PRODUCT
ASSURANCE

Equipment and advantage

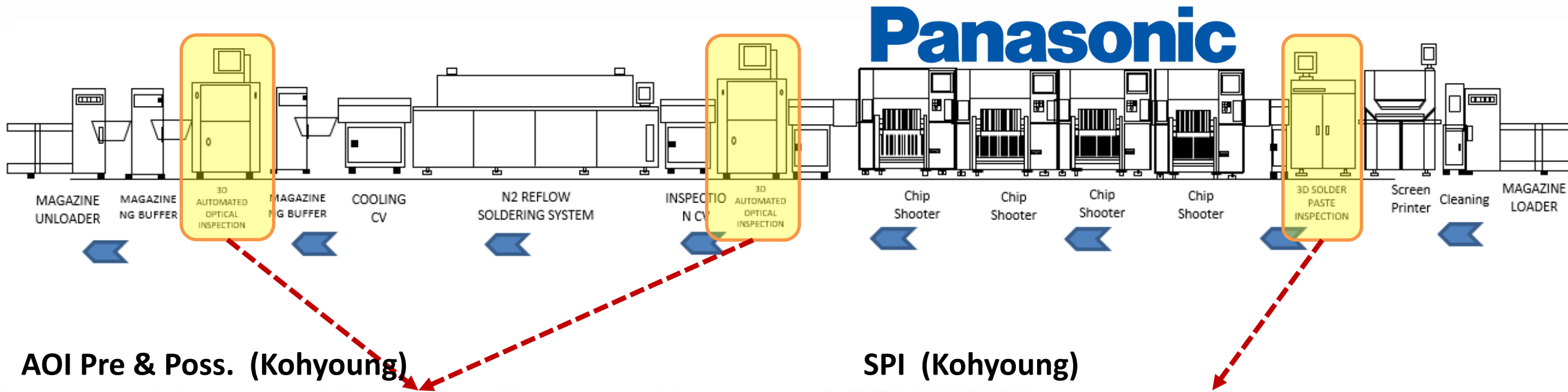
- Clean Room Class ISO7
- Temperature, Humidity and ESD management
- 3D solder inspection
- 3D mount inspection
- Nitrogen (N2) reflow
- ICT (Integrated Circuit Test)
- Robot Solder Station (Hakko)



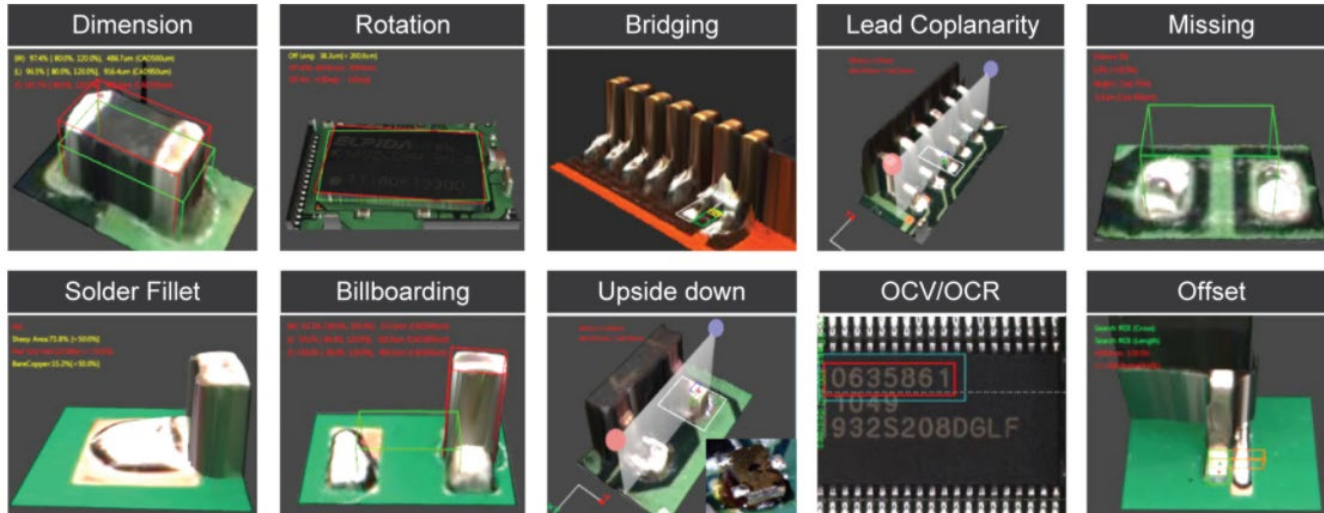
Panasonic Chip Shooters
NPM W2 NM-EJM7D

N
NITROGEN

SMT (Process Flow)

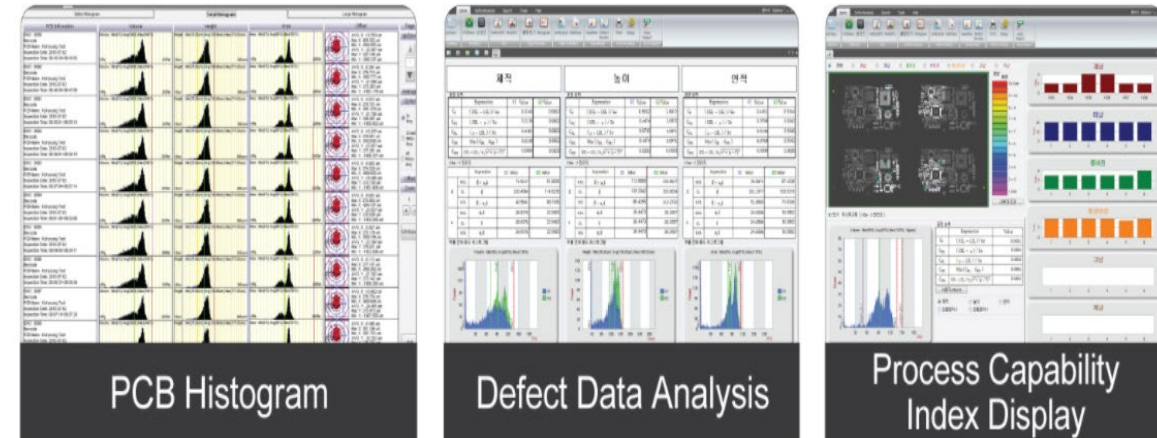


AOI Pre & Poss. (Kohyoung)



SPI (Kohyoung)

Koh Young - SPC Capability



Test Equipment Development

Di²H

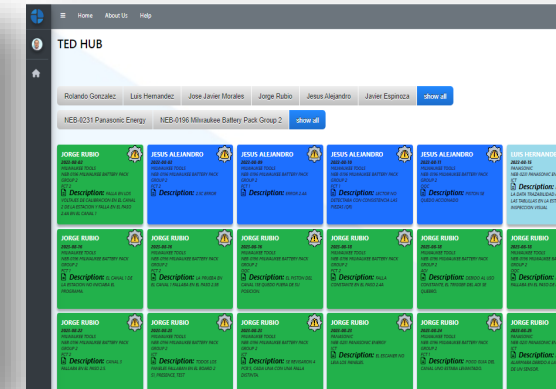
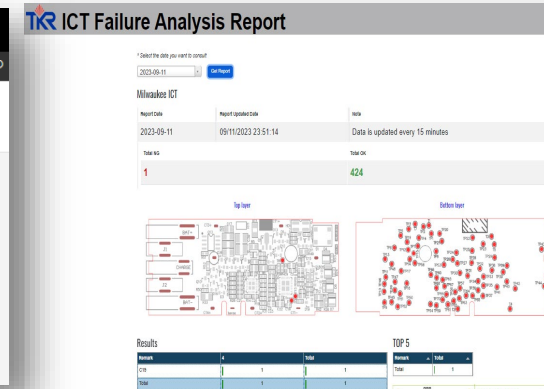
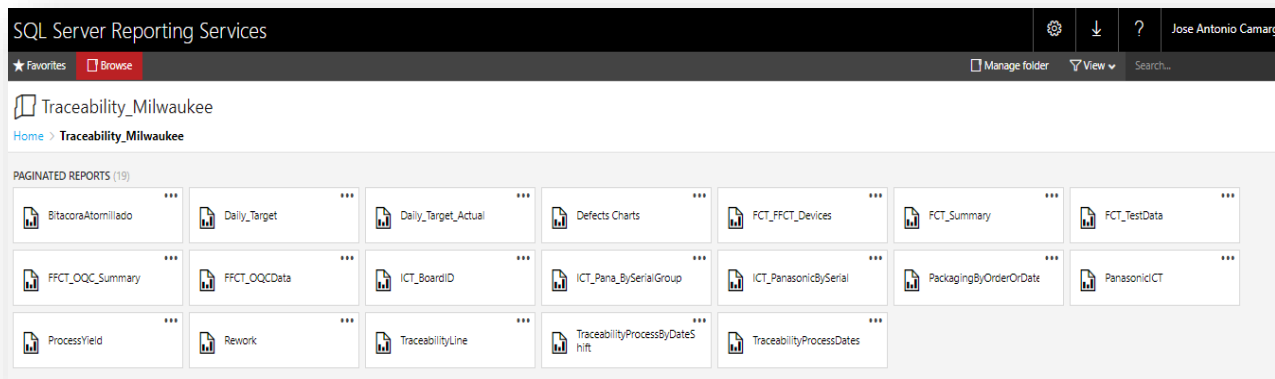
- Prototyping
- Pin Mechanical Jig Design
- Electrical Design (PCBA Design)
- Test Procedure Programming.
- Validations (Strain and Gage R&R)
- In-House Modifications, Upgrades.



Software Development

Di²H

- Traceability Software
- Real time Production Record Ok/Ng
- ICT and Functional Test Data Analysis



Traceability Concept

1

Parts Traceability

Part Number, Mfg. Number,
Lot Number, Part Supply
Time and Quantity

2

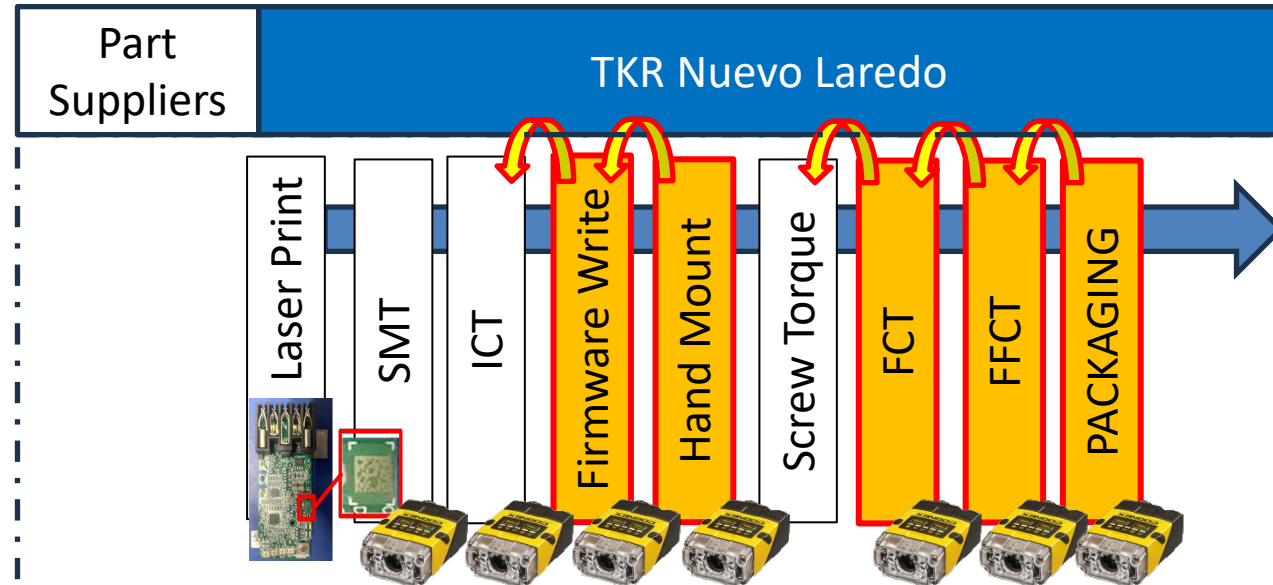
Production History & Control

Production Record, OK/NG
Record, Rework Record,
Shipment History

3

Process Control

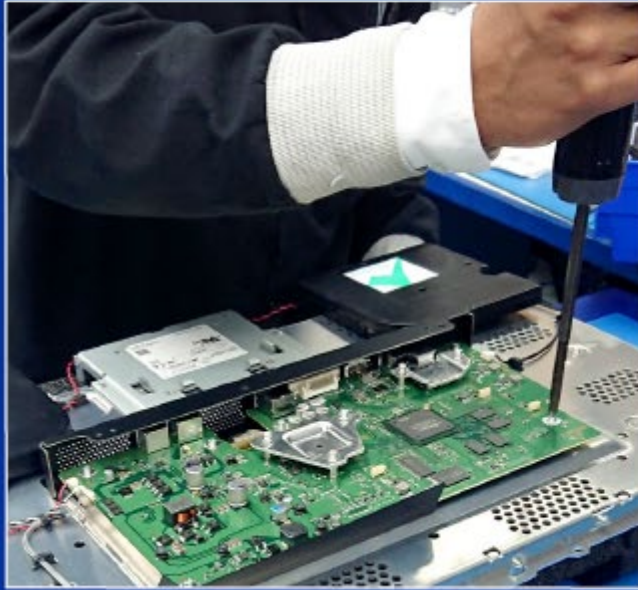
Avoid Process Skip until
packaging. Avoid input
different Model in Line.



(1) Skip Process

- Ensure all products pass all process.
- Ensure all shipped products are OK functionally.
- Prevent model mixing.

(2) Real Time Data Analysis



Capabilities

Tailored service capabilities to meet and exceed customer requirements while maintaining the lowest costs possible.



Board
Component
level repair



Cosmetic and
mechanical
repair



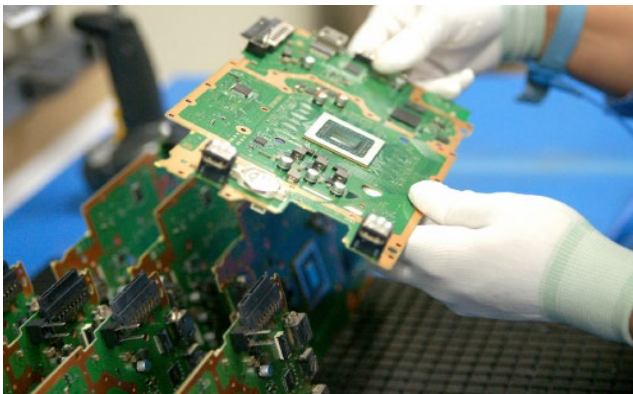
Salvage parts,
recovery
& testing



Electrical
troubleshooting
and module
replacement



Software
update
services



Turn
Around
Time
1.6
days



