

RICOH
“KAIZEN”

@ Japan Embassy
23 March 2015

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imagine. change.



Presented by

Ms. Shiori Otsuka TUMSAT

Ms. Kwanta Manwichahchai CU

Agenda

- Introduction
- Training Area : Quality Assurance
- Good Point
- KAIZEN
- Our Impression



Product Category

Ricoh Group

Printer



MFP



Printer



Projector

Camera



360° Theta

Digital Camera



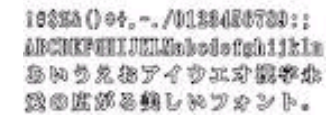
Professional Camera

Software



Smart Device Print&Scan

Industrial Products



Font



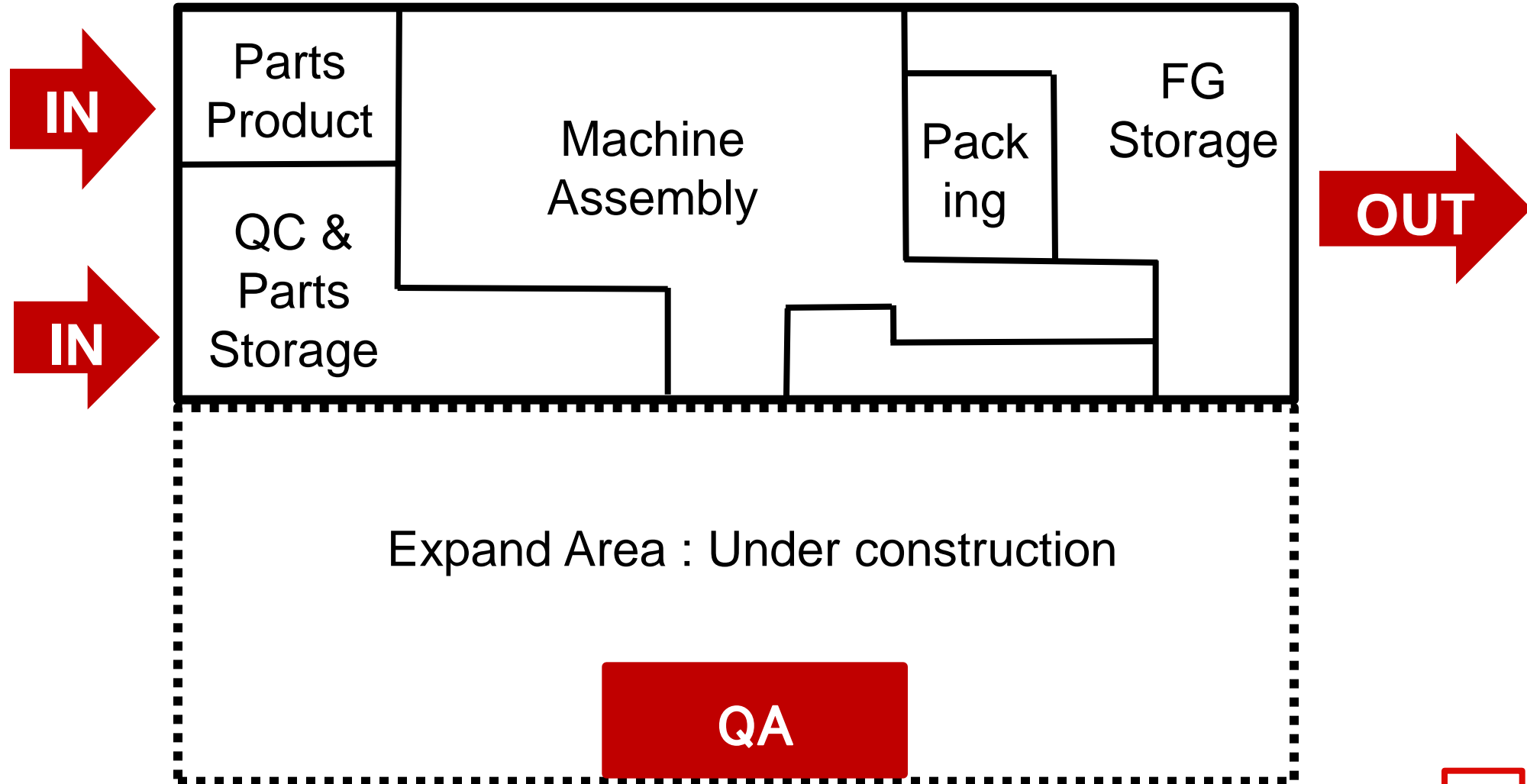
semiconductor



Thermal Media



Lay out of RMT (Printer)





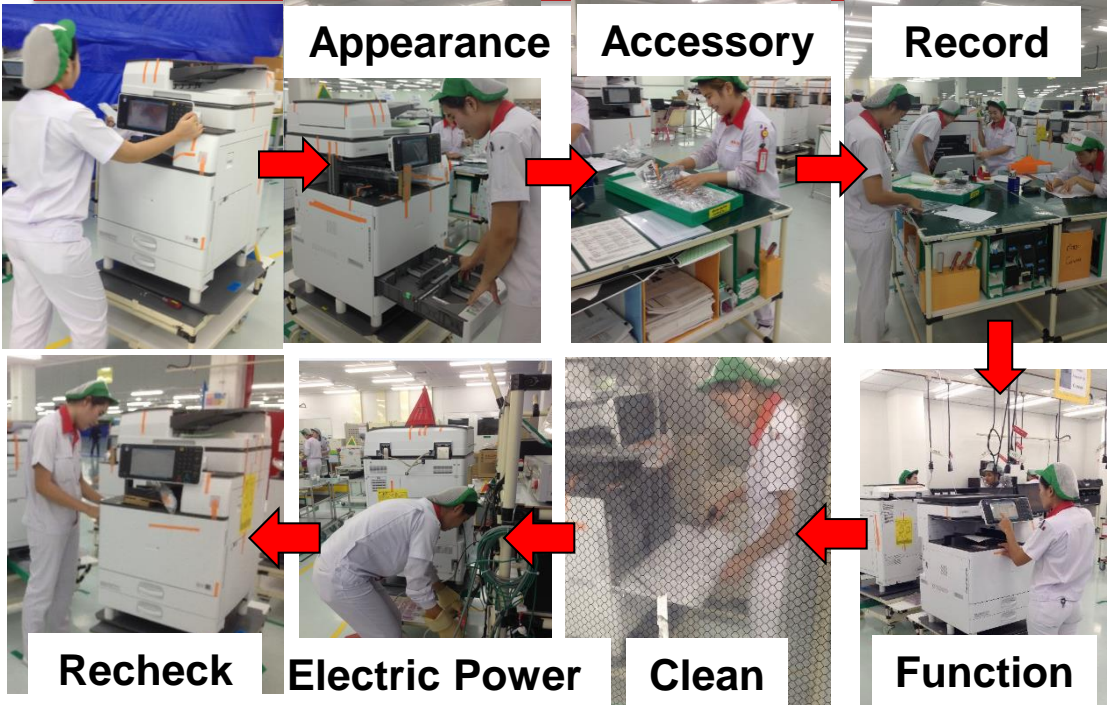
Quality Assurance Process

Quality Assurance

All Products In Line Production

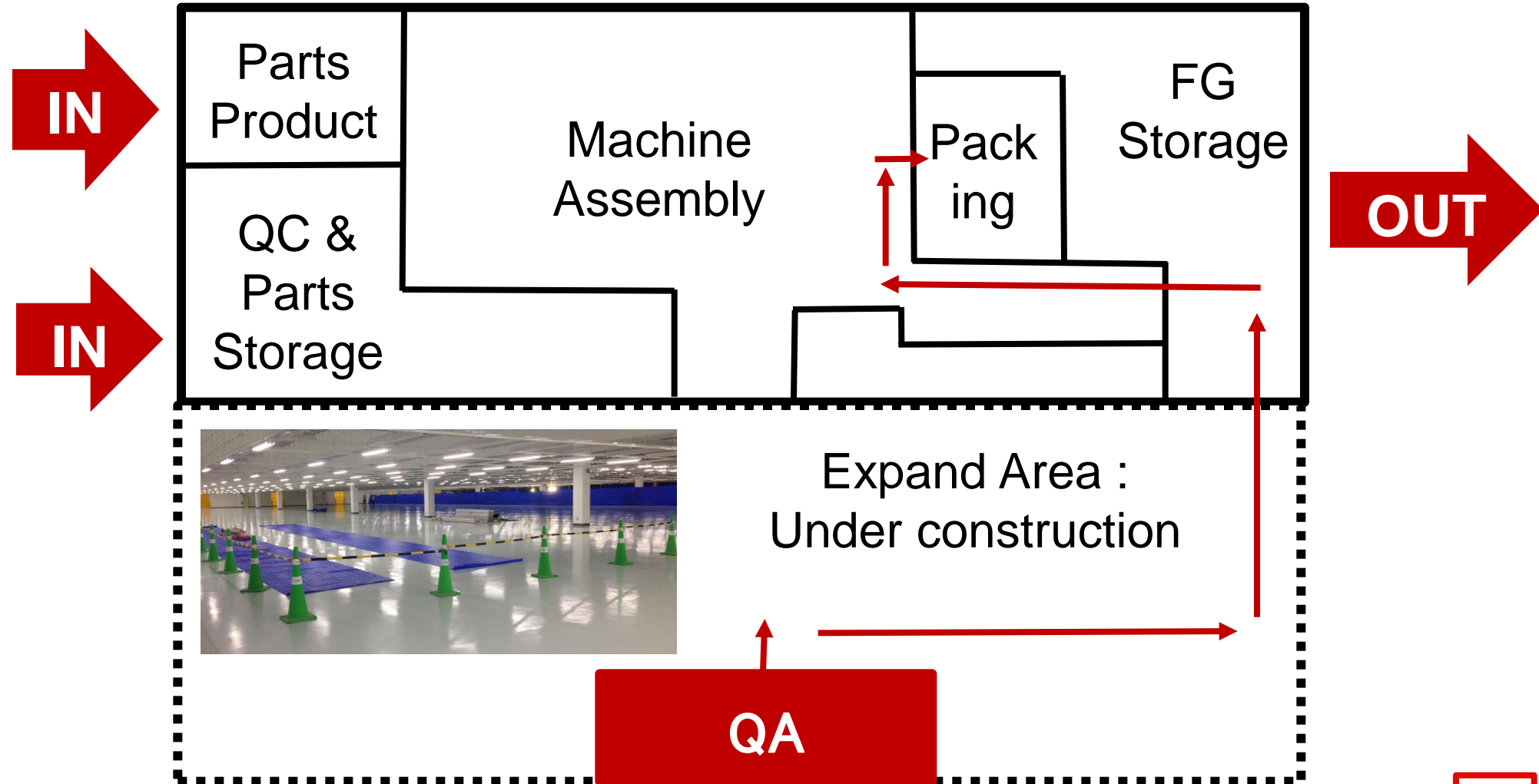


Sampling QA Inspection





Path for production line to QA





GOOD Point in QA

Parts Box



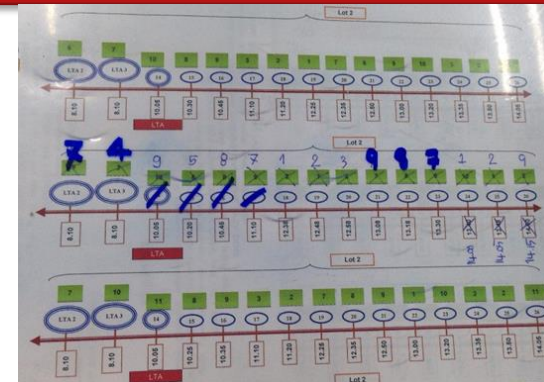
SD Card Reminder



Fixed Space



Sampling Table





KAIZEN Point

Grove



Waiting color inspection

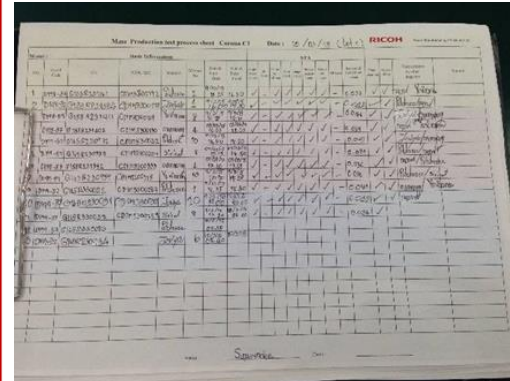


Corona	12
Metis	32
Titas	48
Daiquiri	5

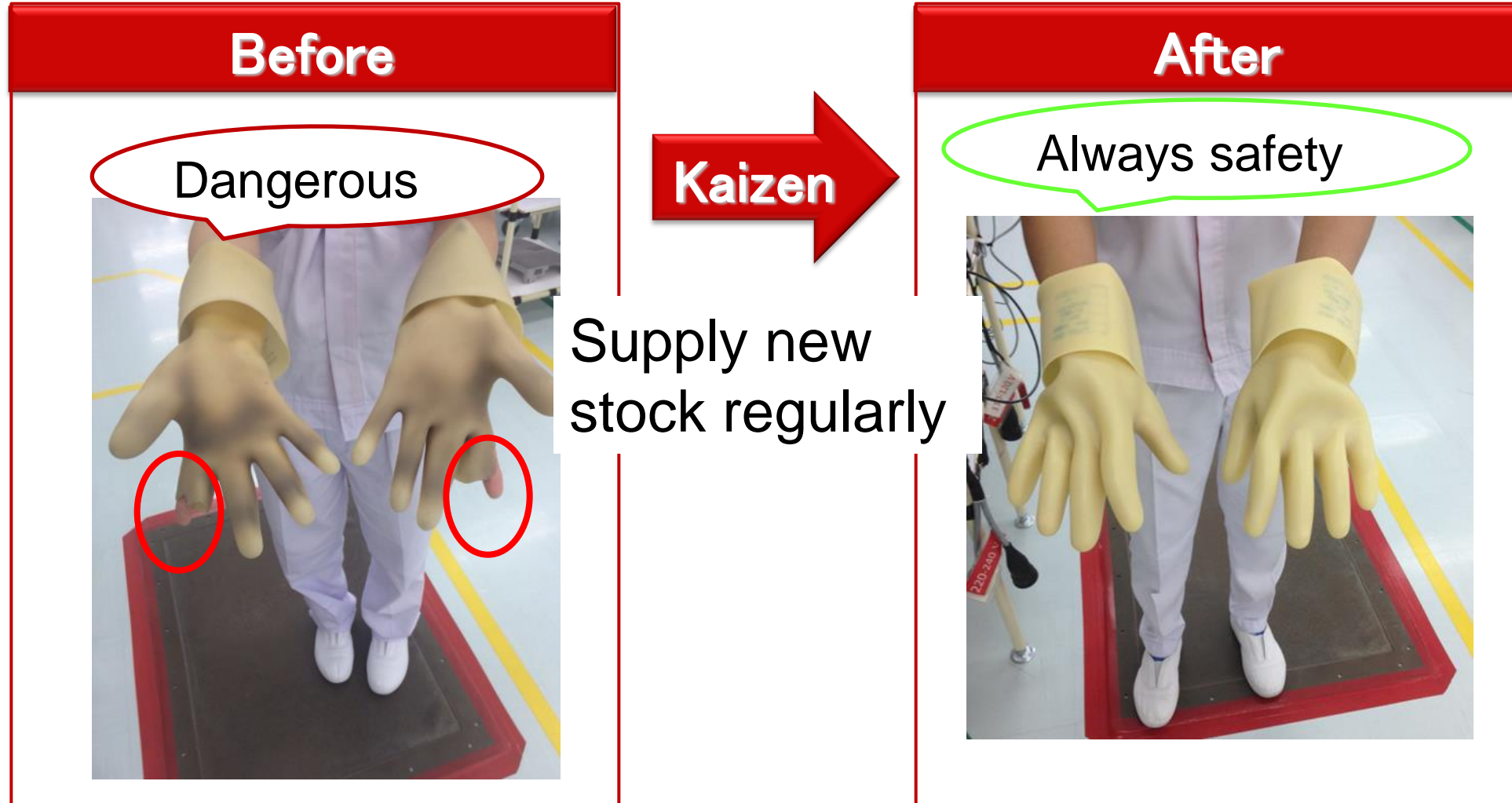
How to move MFP safety



QA control sheet



Kaizen : Torn Glove at the Earth bonding Test area

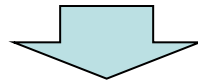




The reason

Why there was not stock

- Lack of communication
- Busy → No time to communication




Proposal

- Supply new stock regularly
- Remain the current way

Kaizen : No cart handle

Before



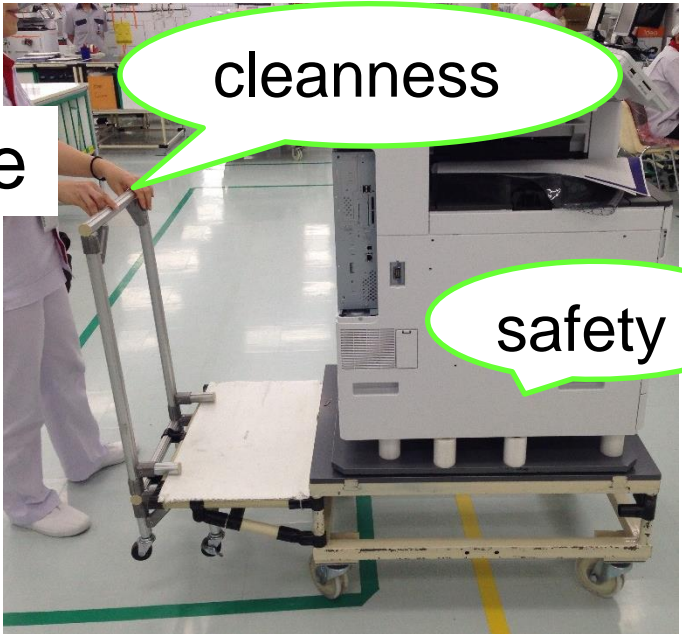
Dirty

Possibility of damage

Kaizen →

Put a handle

After



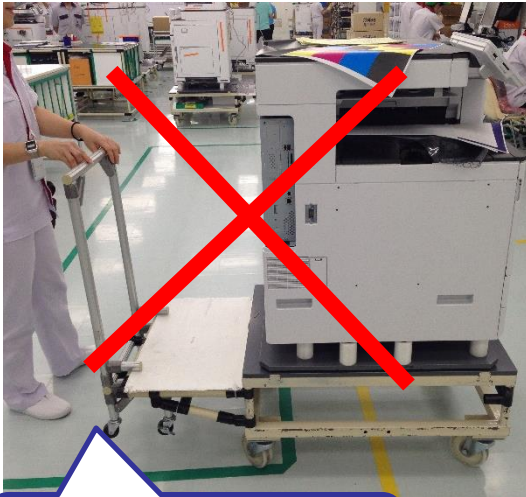
cleanness

safety



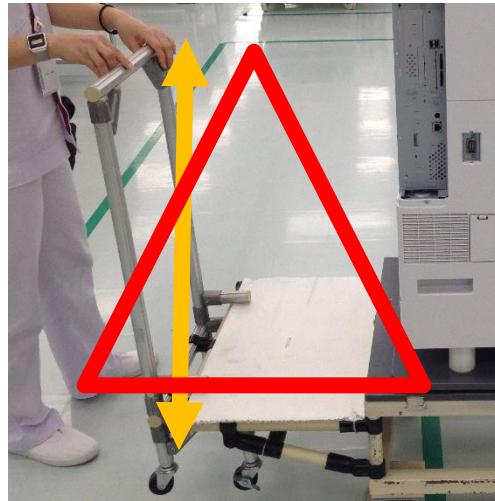
Our idea about handle

Fixed



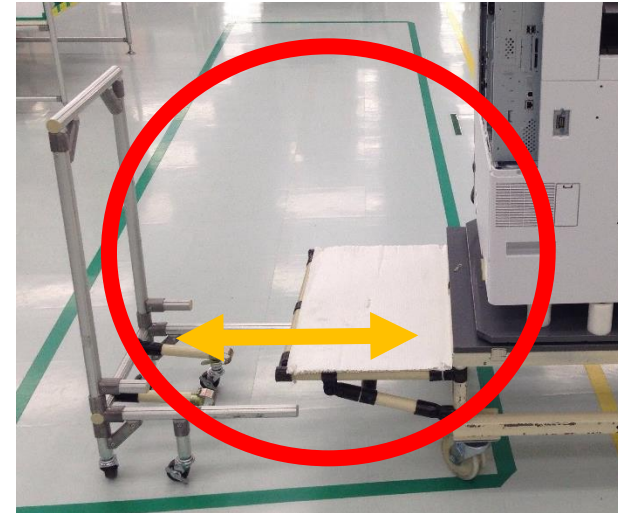
Disturbing

Up & Down



Much cost

Removable



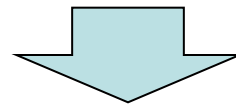


Feedback

Take time to put



Difficult to control



Need Kaizen more!

Kaizen : Waiting color inspection

Before



Long line

Color Inspection	Points	Pages	Units / Day	Total
Metis STA	32	3	1	96
LTA	32	6	3	576
Corona STA	12	1	26	312
LTA	12	3	2	72
Titas STA	48	3	12	1728
LTA	48	3	1	144
Daiquiri STA	5	6	19	570
LTA	5	6	1	30
				3,528

Take a time

Over 3,500 points per day



Kaizen

1. Put a queue

2. Buy a new color inspection machine

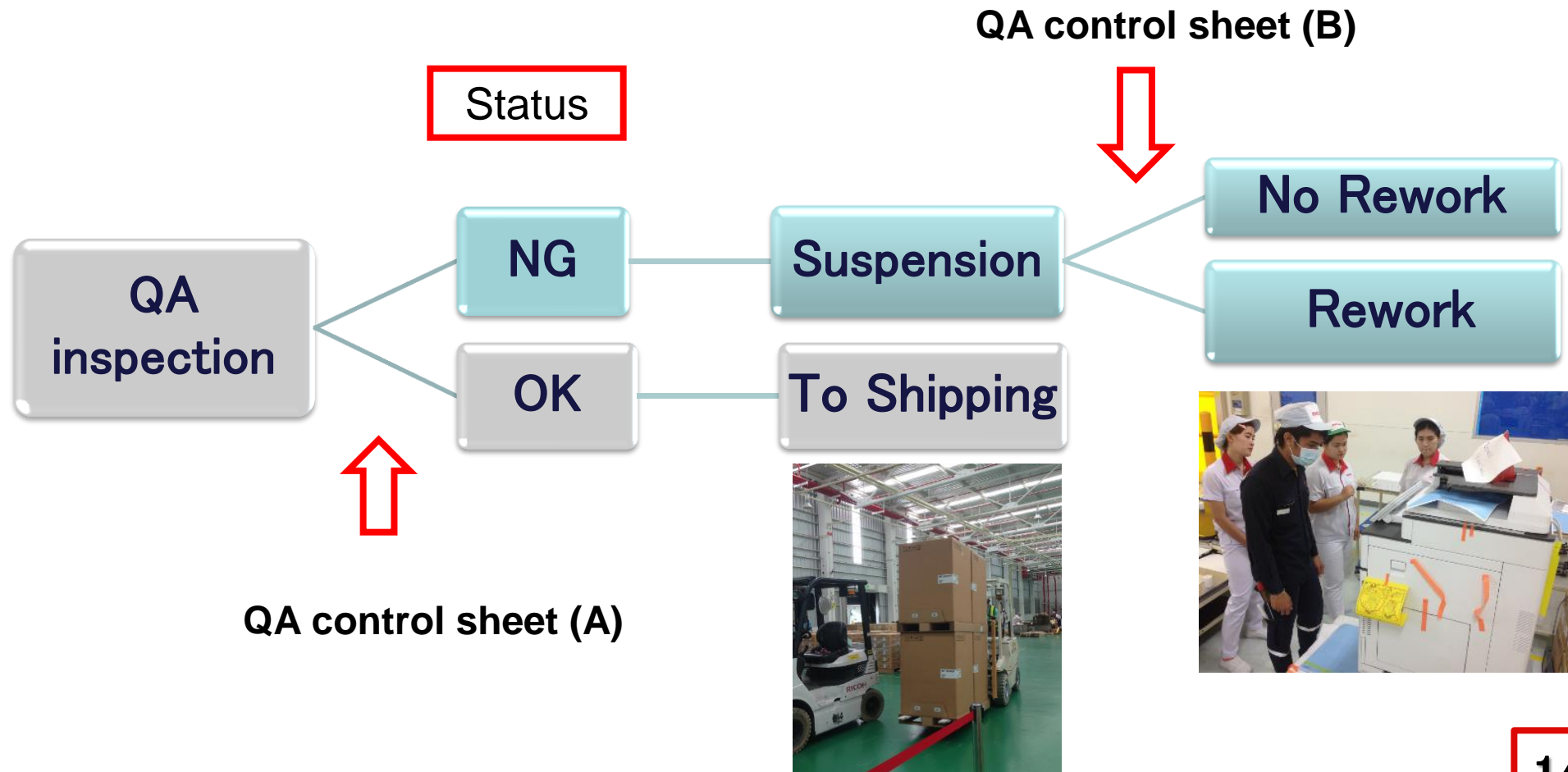
After



1. More **efficient**
2. Job done **faster 10%**
3. Operations are **satisfied**



QA inspection Flow



Kaizen : QA control sheet

QA control sheet

Inside QA area

Outside QA area

Document for Sampling

1. QA control Sheet

2. Check List

3. Printed Paper Testing



Only QA

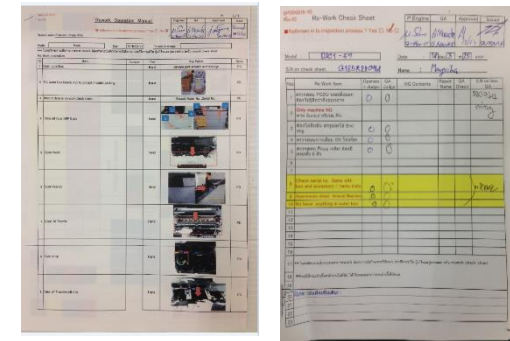


QA work with Production Staff / Repair Staff

Document for Rework

1. Number of quantity & Serial Number

2. Rework Guideline
3. QA control Sheet



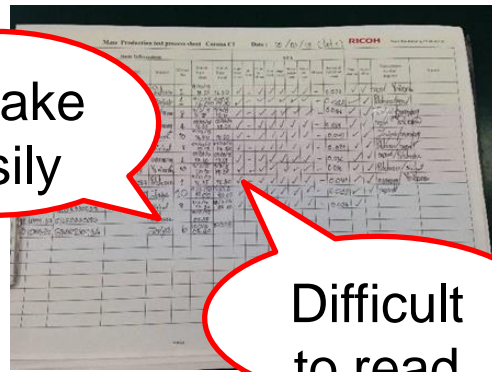
Kaizen : QA control sheet

Before

Write many times



Mistake easily



Difficult to read

Kaizen

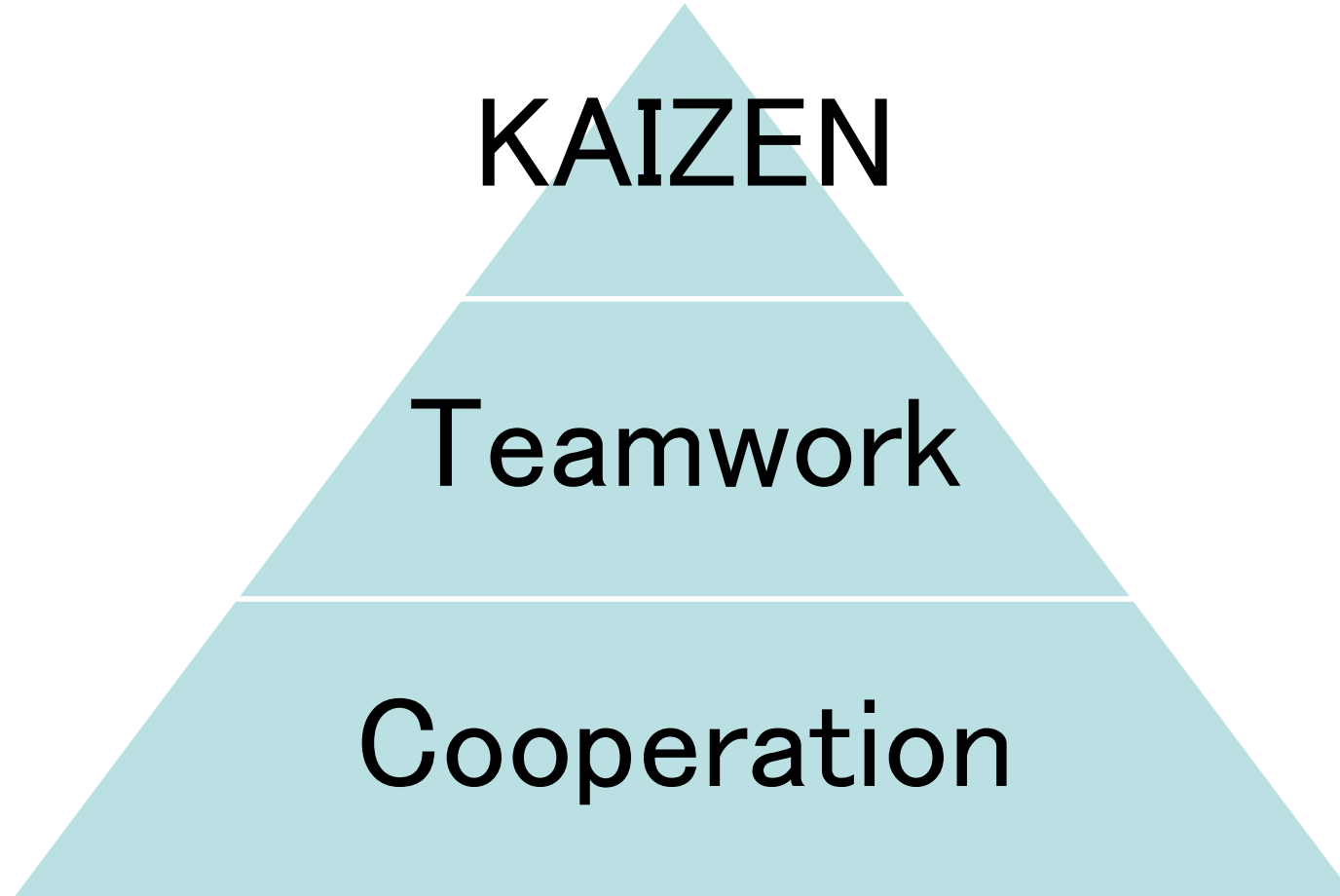
1. Use a barcode scanner

2. Use English & Thai

On Process



1. Reduce Human **Error**
2. Easy to monitor and **analysis** QA job
3. Easy to **evaluate** our operators' work





Thank you

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