



Embarking on Industry 4.0

Current Trend in Apparel & Footwear Industry



We Improve Process & People

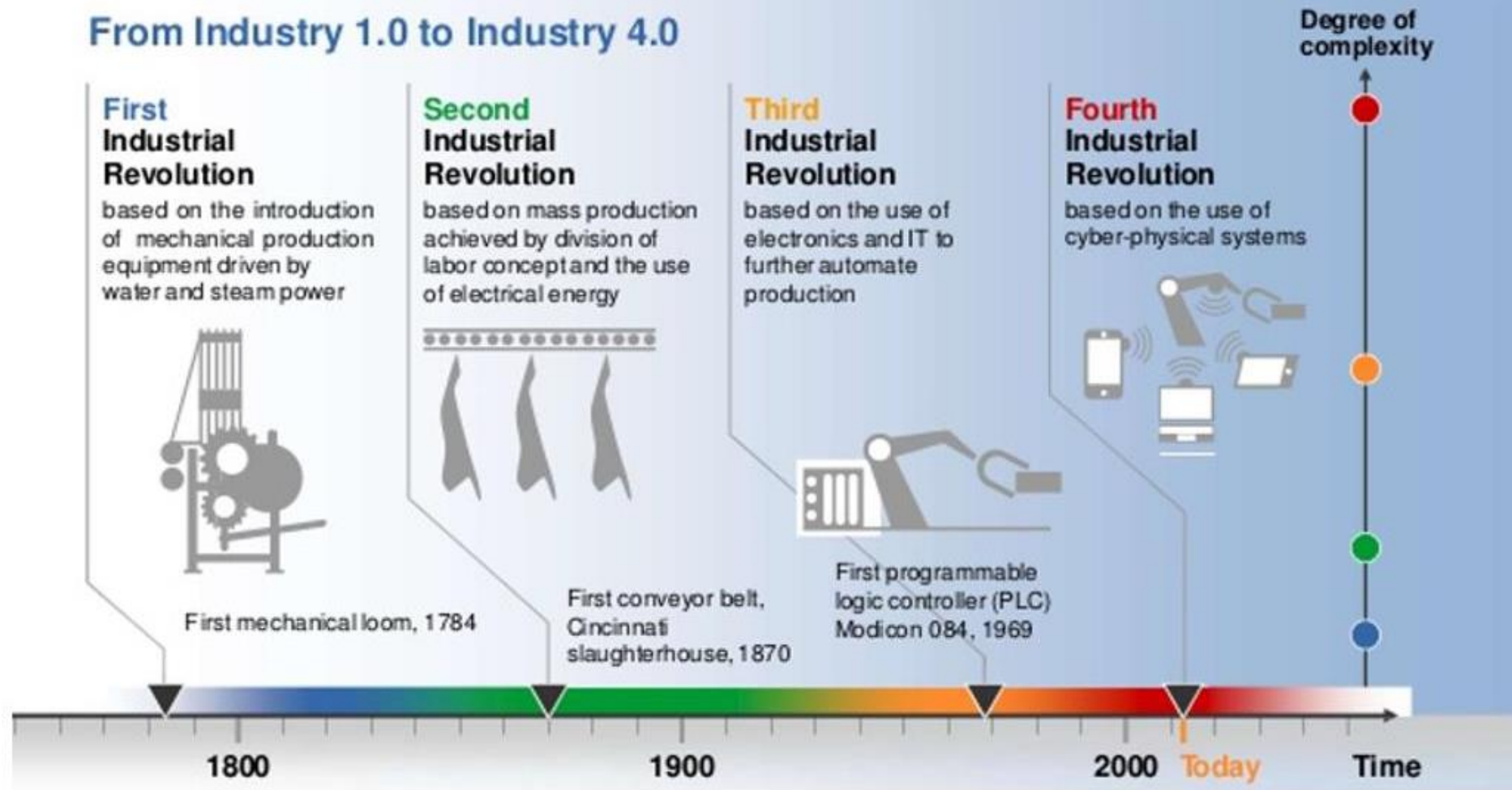
Vector Consultancy

Profile

What is Industry 4.0?



From Industry 1.0 to Industry 4.0



What Fashion Industry 4.0 is not?



It is NOT Just Automation



It is NOT Just Speed

What Fashion Industry 4.0 is?



Responsive Intelligence



Labor Intensive to Capital Intensive

The Smart Factory



The Future Factory



Automated in Plant Logistics & WH Mgmt



Data Collection across the Supply chain



Data Driven Predictive Maintenance

The Future Factory



Automation & Human M/c Collaboration

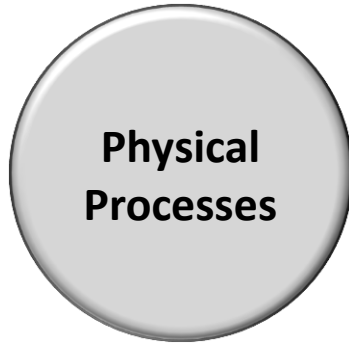


Digital quality system & Advanced SPC



Digital Performance Management system

Embarking on Industry 4.0



**Physical
Processes**

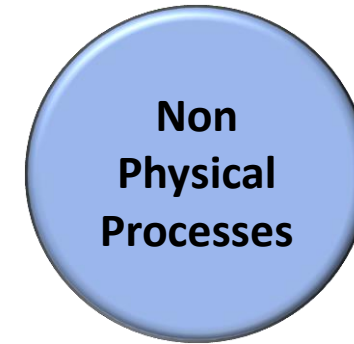
Process Automation

Create Connectivity

Parts / Product Automation

Enable IOT

Bring Flexibility



**Non
Physical
Processes**

Digitalize manual info

Automate manual info

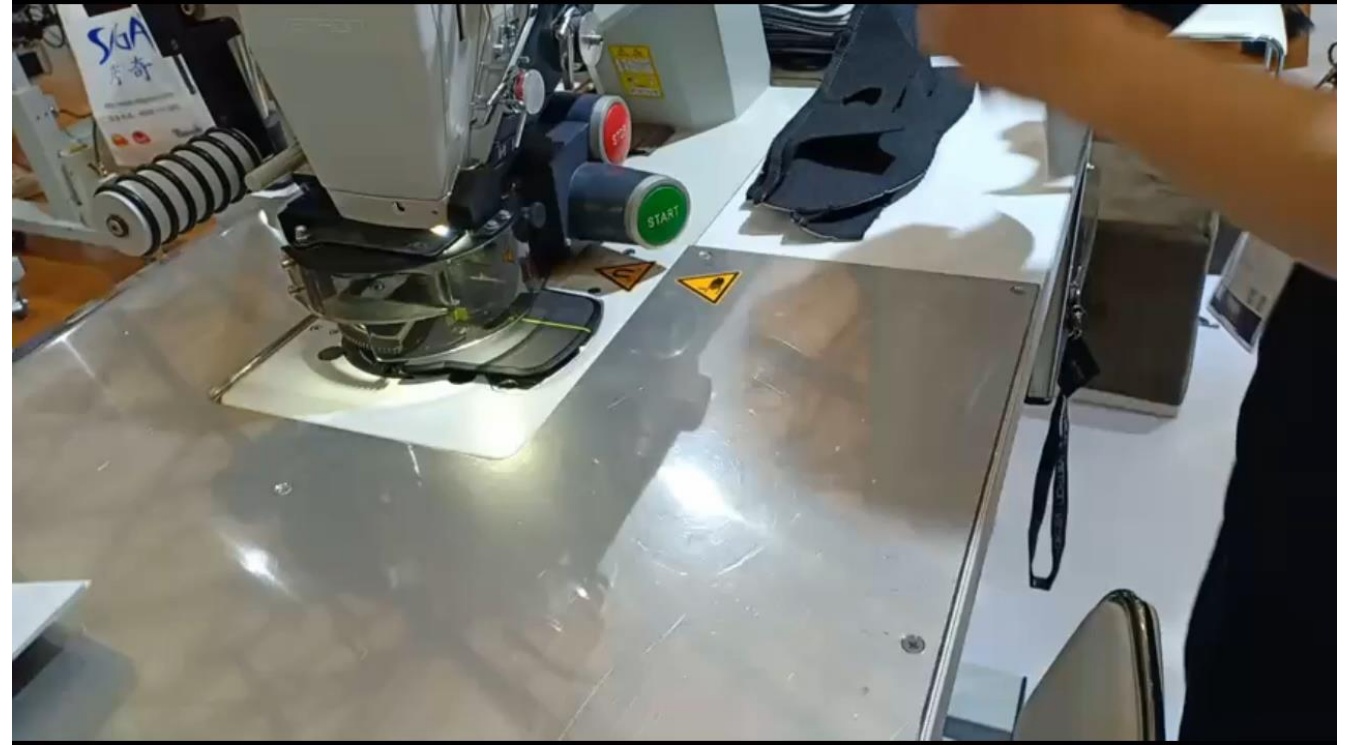
Digitalize Decision making

Automate Decision making

Process Automation - Manufacturing



Process Automation Top stitch & Curve Stitch



Simple Process Automation Marking



Template based Simple Automation



Process Automation – Non Manufacturing



Automated Warehouse



Simple Process Automation – Material Movement

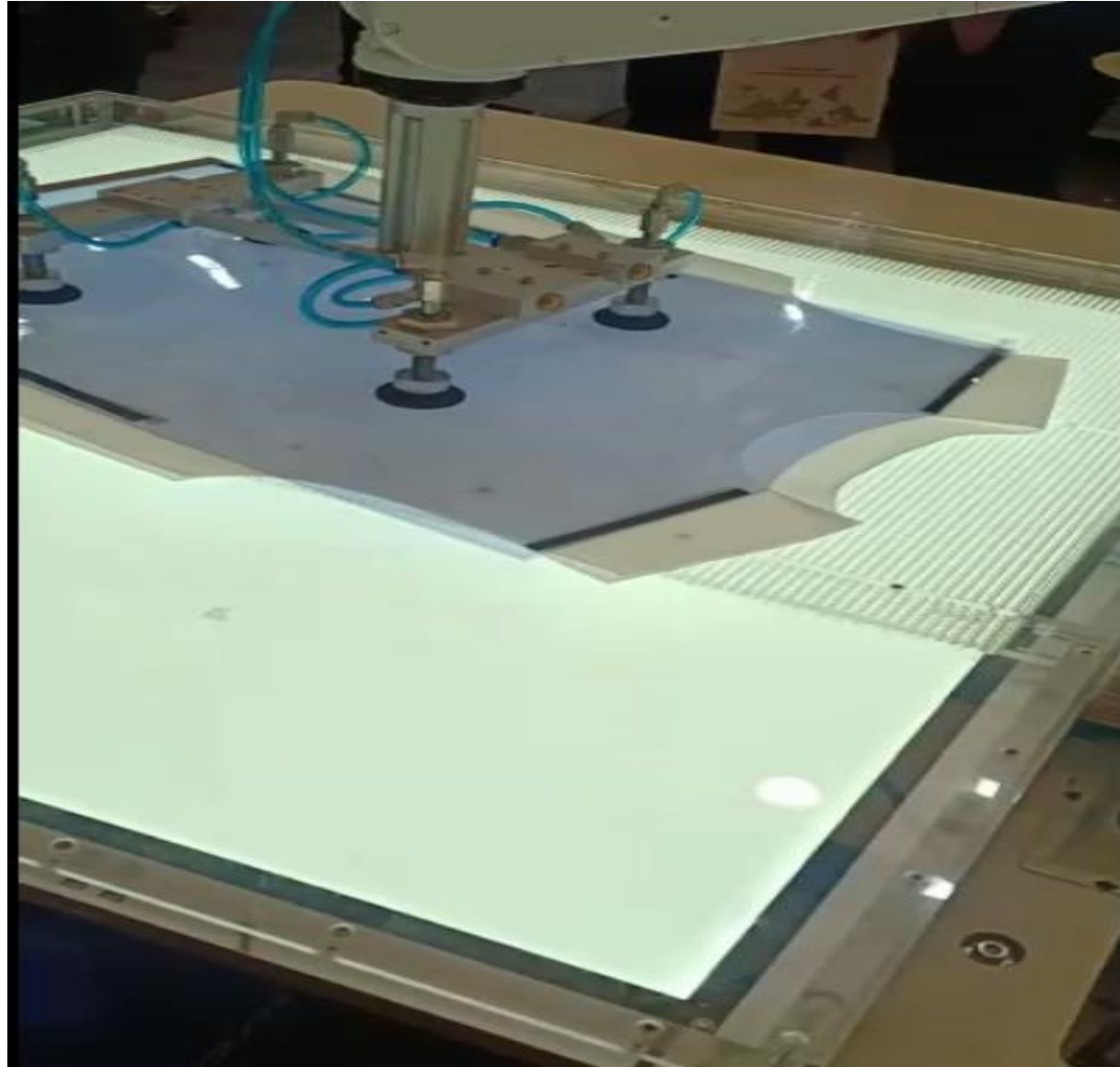


Creating Connectivity

A Responsive Intelligent model



Intelligent Connected Sewing



Robotic Assisted Overlock & Attach - Connected Process



Series of Processes Connected



Pressing

Top Stitch

Button Hole

Button Attach







**Process
Automation**

**Template
Sewing**

**Enable Pick
& Place**

**Connect
Machines**



Non Physical Process – Data Capturing & Analysis



Connecting the Physical world with Digital world



Connected



Manual recording to Digital recording

Digitalization in Maintenance

Dash Board Welcome to Vector TPM

- Add Asset
- Add Location
- Transfer Asset
- Record Maintenance

Master List

- Asset Master
- Location Master
- Part Master
- Supplier Master
- Repair Master
- User Master
- Settings Master

1567
Total Number of Assets

BDT 1.3m
Spare Part Expenses

102.5 Hrs
Down Time


235
Total Number of Transfers

Top 3 Problems


Skip	75%
Loose Stitch	13%
Bobbin	10%

Record Maintenance

Search Asset



Asset Code: SNLS
Asset Name: Single Needle Lock Stitch Machine
Asset Brand: Juki
Model Number: DDL 1080 Checkbox



Scan Asset | Change Parts | Maintain | Report

Part Name: | Reason:

Value: 2000 | Downtime: mins

Change Parts | Record

History

20 mins down time on 20 Apr 2019 due to Skip stitches
Spare Part Hook Shuttle Changed on 20 Apr 2019

Business Intelligence Investment in Near Future



79%

Cameras and video analytics for operational purposes



79%

Loss prevention and inventory visibility elements enabled by operational technology



78%

Software analytics for loss prevention, price optimization



77%

Big data solutions for storing and analyzing IoT generated data



75%

Predictive analytics



75%

Cameras and video analytics for customer experience



72%

Visual analytics for making sense out of IoT data



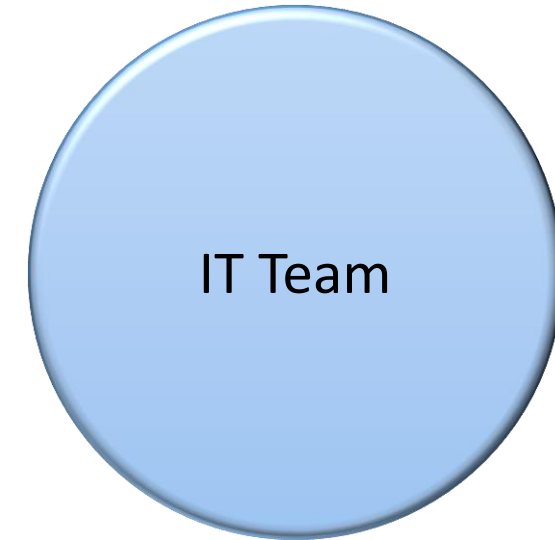
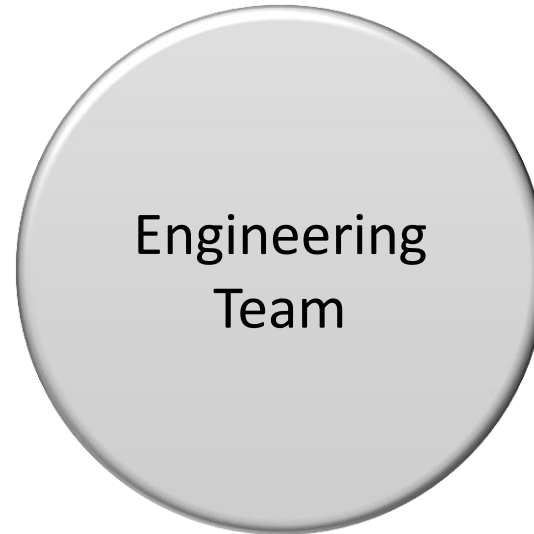
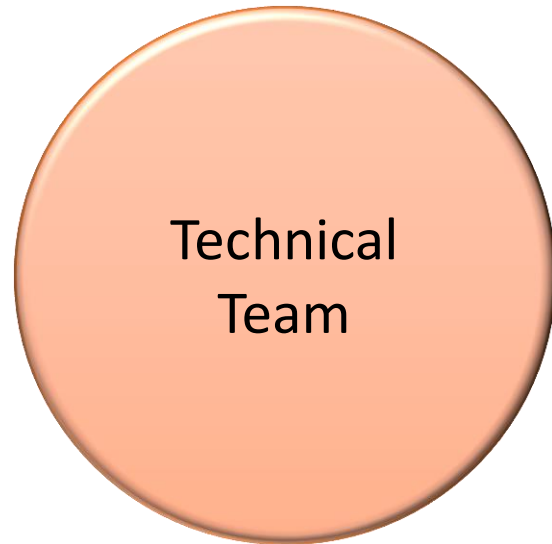
72%

Cognitive computing to drive optimizations and insights

Camera based Inventory Management system







Key Skills Required

Complex Problem Solving

Critical Thinking

Creativity

People Management

Emotional Intelligence

Begin your Industry 4.0 Journey



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