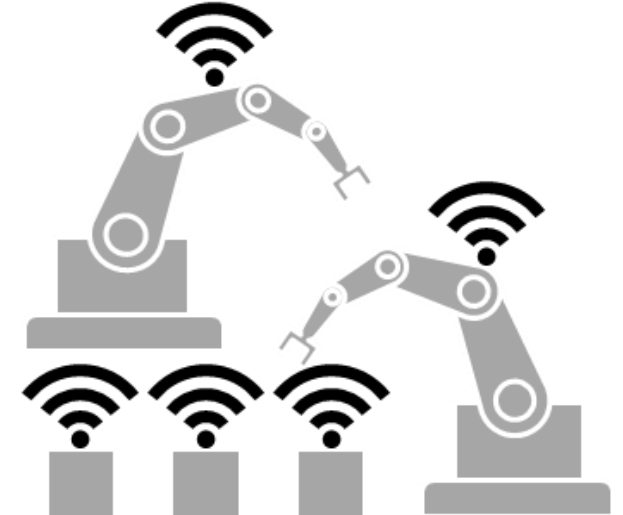
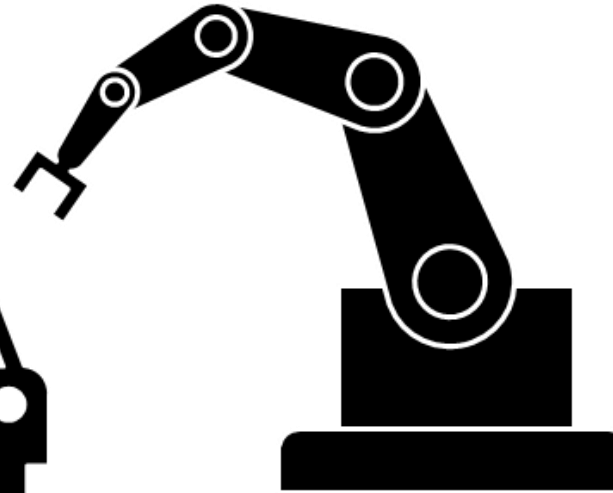
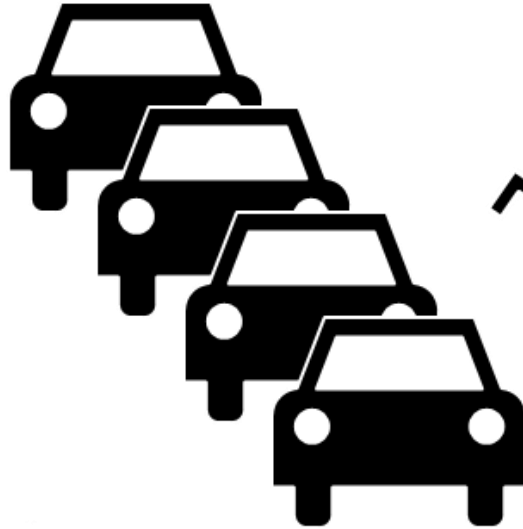
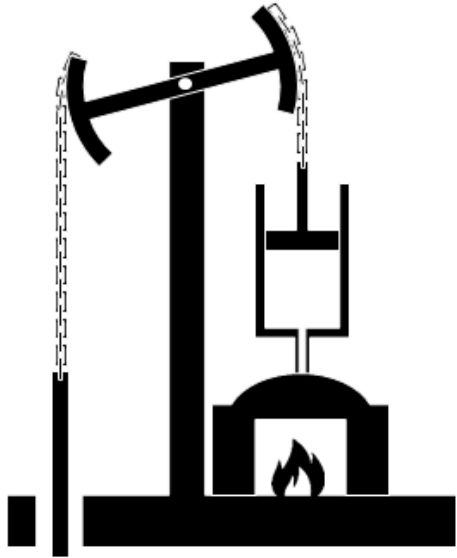




INDUSTRY 4.0

Integration that will contribute to your bottom-line!





1st

Mechanization,
water power, steam
power

2nd

Mass production,
assembly line,
electricity

3rd

Computer and
automation

4th

Cyber Physical
Systems

INDUSTRY 4.0

Industry 4.0. can be divided into 4 major components:

- The Internet of Things (and services)
 - Intelligent machines
 - Big Data
 - Analysis
- AOI Android
SMT platform
IT Server
Pioneer Option Tool

INDUSTRY 4.0 line - integration



INDUSTRY 4.0 line – level Software

Ideal R&D solution, for prototyping
and New Product Introduction

First time right: fast, accurate, no
part waste

Features:

- ✓ Auto-teach function
- ✓ Automatic measurement and vision file generation
- ✓ Edit new of existing Component file (process, vision data)

Quality:

- ✓ - Maintain central parts database



Programming Tool

1. Basic function
2. ASCII Data conversion
CAD-BOM data
3. Line balancer
4. Setup optimizer for
multi PCB Production
5. Visual editor (Virtual
Sticky Tape)

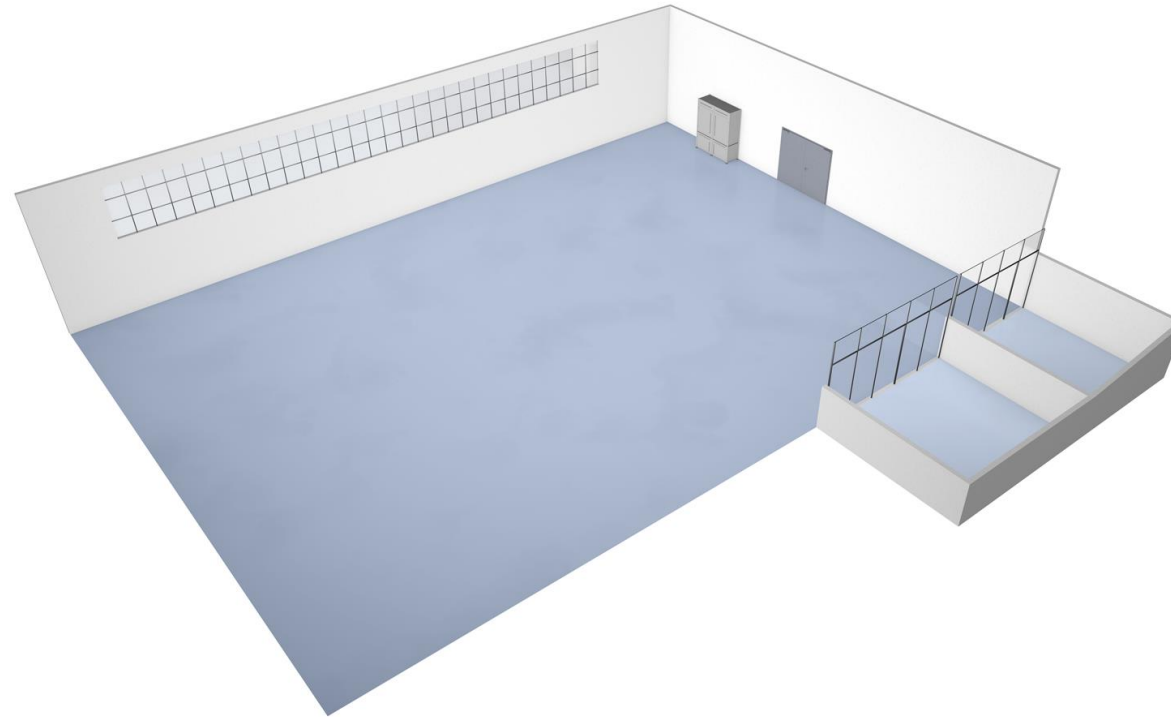
Benefits against Machine SW:

- ✓ Improved and more accurate
which increase cycle time
improvement of 5-10%
- ✓ Grouping function which can
improve change over time
- ✓ Production lot in stead of
program names improve
interdepartmental communication
- ✓ Improved standard functionalities

INDUSTRY 4.0

Factory

Integration



INDUSTRY 4.0 Factory

Integration

First Step Integration

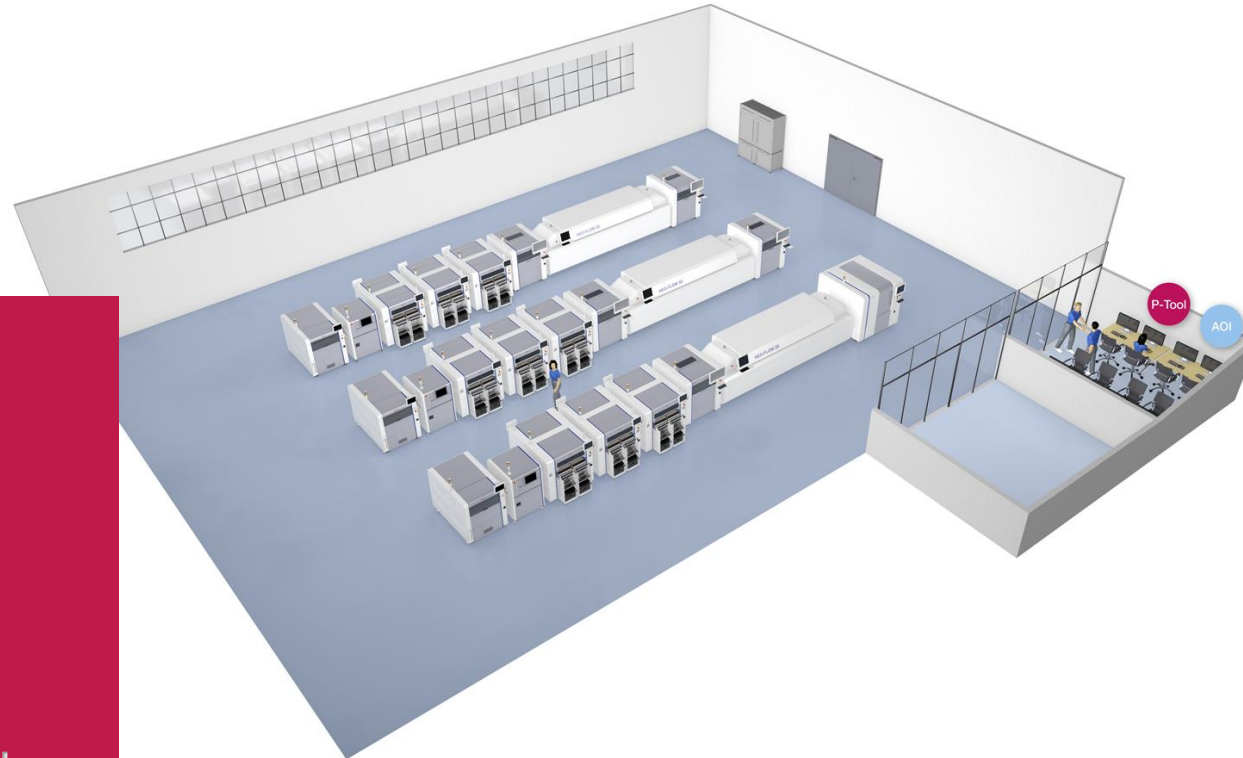
Programming Tool

AOI Offline controlling

Offline Vision Creation

Programming Tool

1. Basic function
2. ASCII Data conversion
CAD-BOM data
3. Line balancer
4. Setup optimizer for multi
PCB Production
5. Visual editor (Virtual Sticky
Tape)



INDUSTRY 4.0 Factory

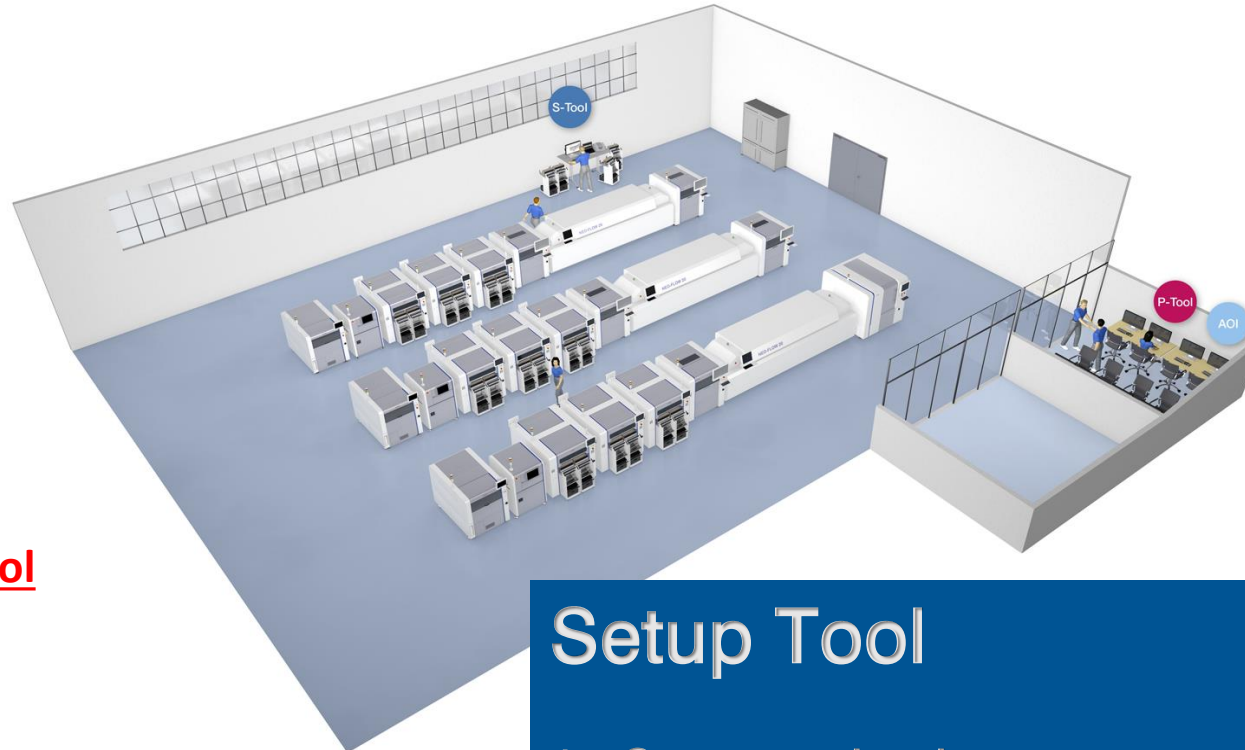
Integration

First Step Integration

PROGRAMMING-TOOL
AOI Offline controlling
Offline Vision Creation
Family & Grouping SW

Second Step Integration

Programming Tool + **Setup Tool**
SET-UP Navigation
MOB/USB BC reading



Setup Tool

1. Setup navigation
2. Mobile Barcode Reader / USB

Barcode Reader

INDUSTRY 4.0 Factory

Integration

First Step Integration

Programming Tool
AOI Offline controlling
Offline Vision Creation
Family & Grouping SW

Second Step Integration

Programming + Setup Tool
SET-UP Navigation
MOB/USB BC reading



Third Step Integration

P+S-TOOL + M-TOOL

Line control

Component QTY manager

Storage Cabinet Interface

Monitoring Tool

1. Line control
2. Centralized Component Remain

INDUSTRY 4.0 Factory

Integration

First Step Integration

Programming Tool
AOI Offline controlling
Offline Vision Creation
Family & Grouping SW

Second Step Integration

Programming + Setup Tool
SET-UP Navigation
MOB/USB BC reading



Third Step Integration

P+S-TOOL + M-TOOL

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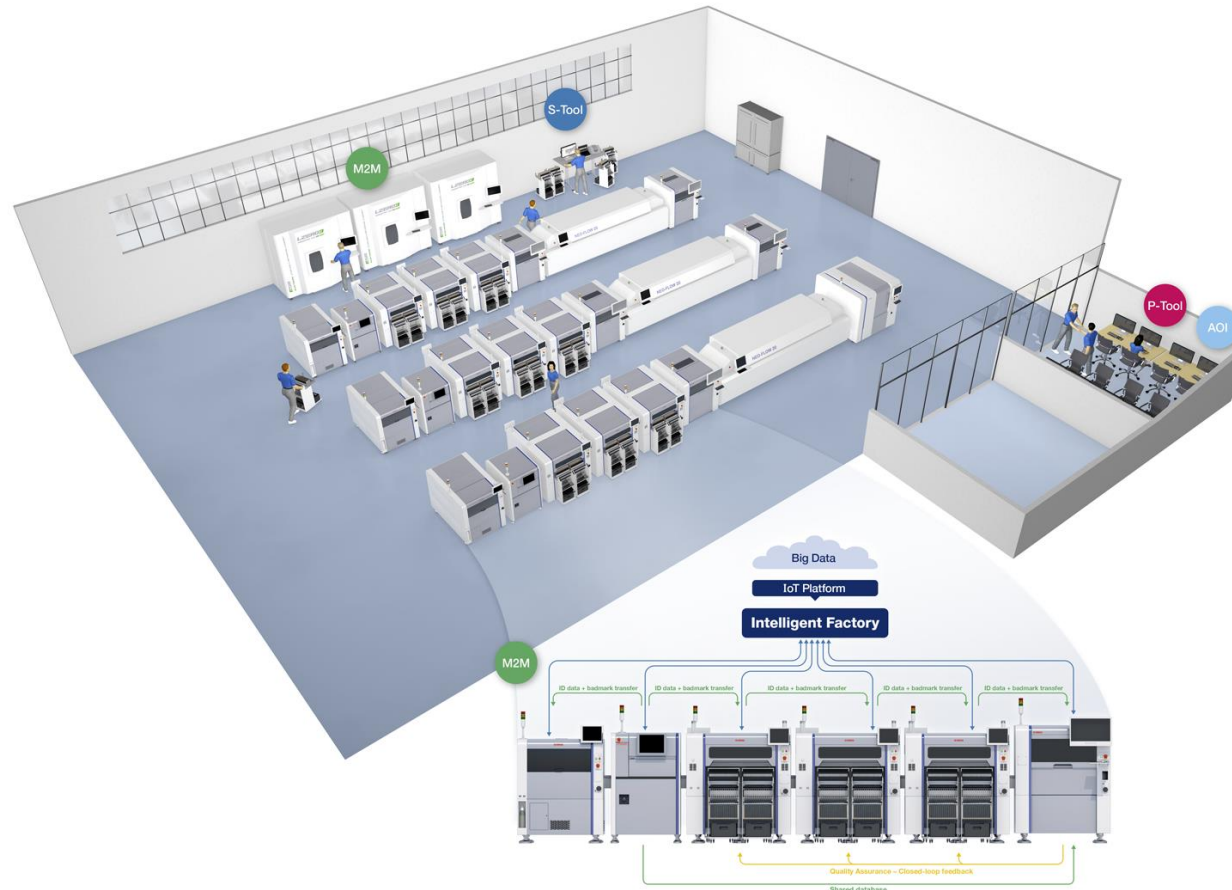
INDUSTRY 4.0 Factory Integration

First Step Integration

Programming Tool
AOI Offline controlling
Offline Vision Creation
Family & Grouping SW

Second Step Integration

Programming + Setup Tool
SET-UP Navigation
MOB/USB BC reading



Third Step Integration

P+S-TOOL + M-TOOL
Line control
Component QTY manager
Storage Cabinet Interface

**THE IT SERVER NOW
CONTROLS ALL DATA TO
MANAGE THE INTELLIGENT
FACTORY**

INDUSTRY 4.0 Factory Integration

First Step Integration

P-TOOL

AOI Offline controlling
Offline Vision Creation
Family & Grouping SW

Second Step Integration

P-TOOL + S-TOOL

SET-UP Navigation
MOB/USB BC reading



Third Step Integration

P+S-TOOL + M-TOOL

LINE - Control

Component QTY manager
Storage Cabinet Interface

THE IT SERVER NOW
MANAGES ALL DATA TO
MANAGE THE INTELLIGENT
FACTORY

**WLAN IOT Devices manage
line control functions in
real time**

INDUSTRY 4.0 Full Factory Integration

ELECTRONICS & APPLICATIONS
14 T/M 16 MEI 2019 JAARBEURS UTRECHT

First Step Integration

P-TOOL

AOI Offline controlling
Offline Vision Creation
Family & Grouping SW

Second Step Integration

P-TOOL + S-TOOL

SET-UP Navigation

MOB/USB BC reading

Third Step Integration

P+S-TOOL + M-TOOL

LINE - Control

Compt. QTY manager

Storage Cabinet Control



THE IT SERVER NOW
MANAGES ALL DATA
TO MANAGE THE
INTELLIGENT FACTORY
WLAN IOT Devices
manage line control
functions in real time

FINAL Step Integration

P+S+M+S-TOOL +

T-TOOL

**TOTAL traceability upto
single component level.
INTEGRATED CONTROL!**

INDUSTRY 4.0

Integration that will contribute to your bottom-line!