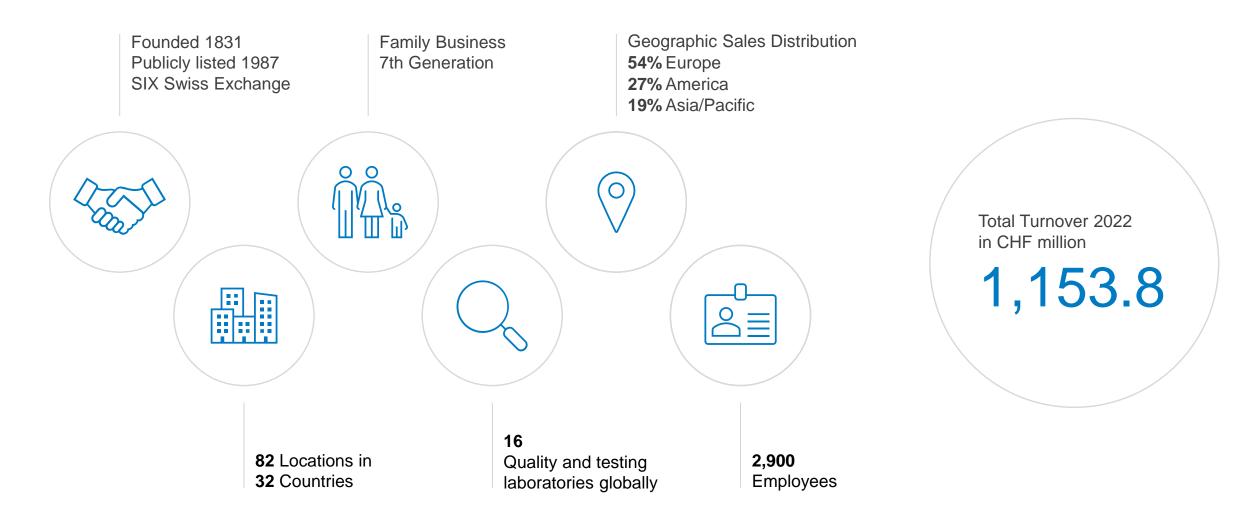


PROVEN PRODUCTIVITY

YOUR TRUSTED PARTNER IN FASTENING AND SMART FACTORY TECHNOLOGY

BOSSARD COMPANY PROFILE



BOSSARD THAILAND BANGKOK – OFFICE

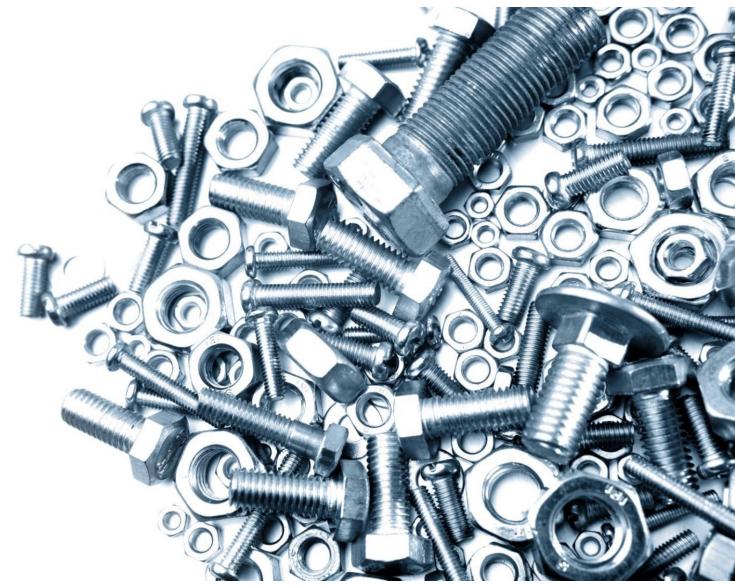


Since October 2000, established and moving on to **23 years in Thailand**



OVER 185 YEAS IN SWITZERLAND
WE ARE EXPERT FASTENERS AND

OVER 30 YEAR
WE ARE PROVIDING
LOGISTICS SOLUTION
TO SUPPLY TO FACTORY



BOSSARD THAILAND CUSTOMERS







Benchmark















































































OUR MAIN PRODUCT OFFERINGS









Product Solutions

Assembly Technology Expert (ATE)

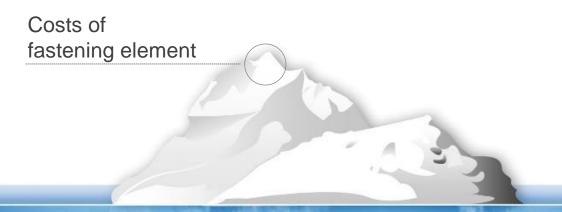
Smart Factory Logistics (SFL)

Smart Factory Assembly (SFA)

IT IS ABOUT PRODUCTIVITY

Visible cost 15%

Invisible cost 85%





What going on today



Supply Chain challenges pre-Industry 4.0













SEEM RIGHT ... TO EASY

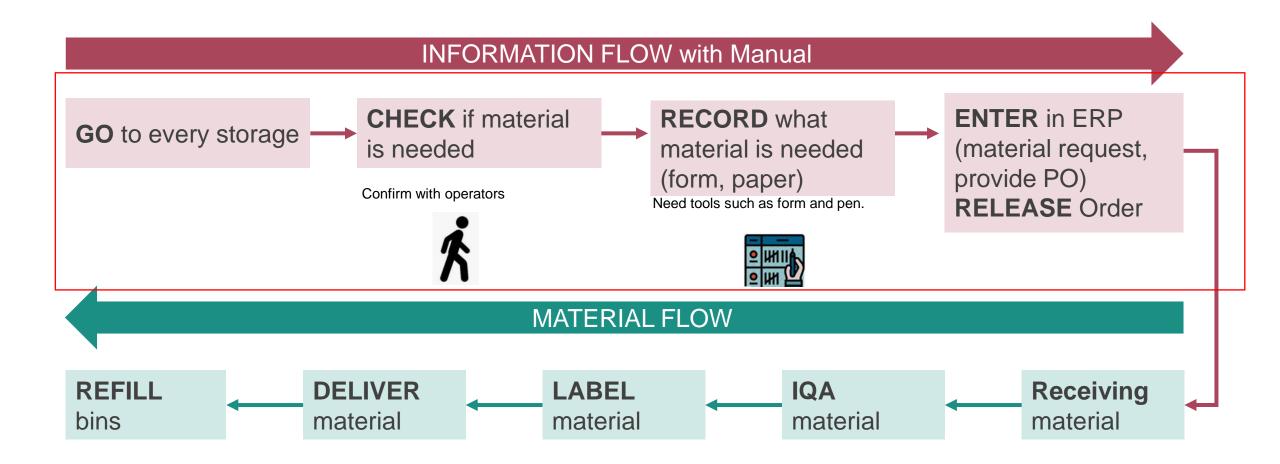
Sometime







RE-SUPPLY MATERIAL REQUEST CONVENTIONAL FACTORY



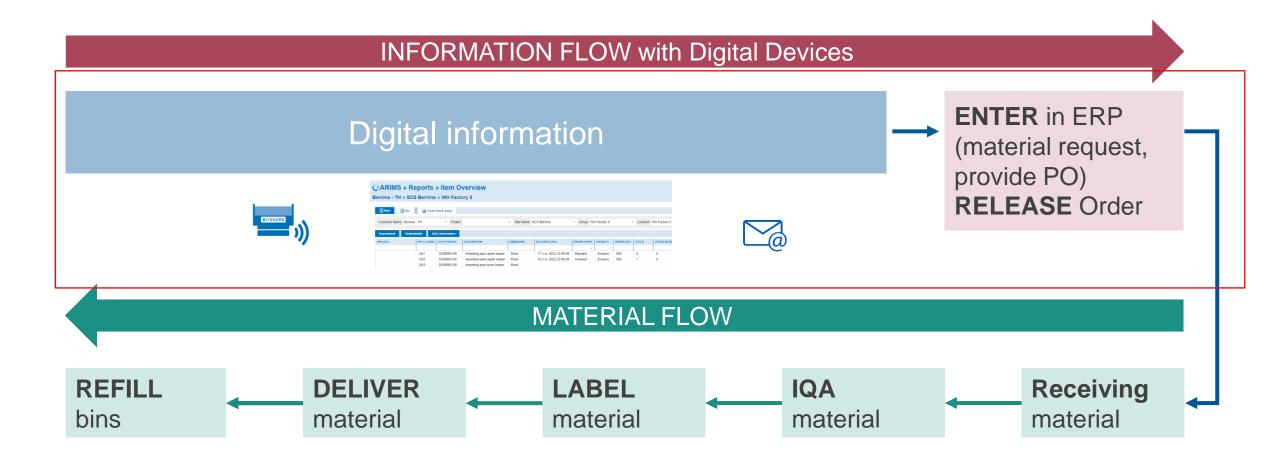
CLASSICAL KANBAN PHILOSOPHY MANY YEARS UNTIL TODAY WITH 2 BINS CONCEPT



Optimization

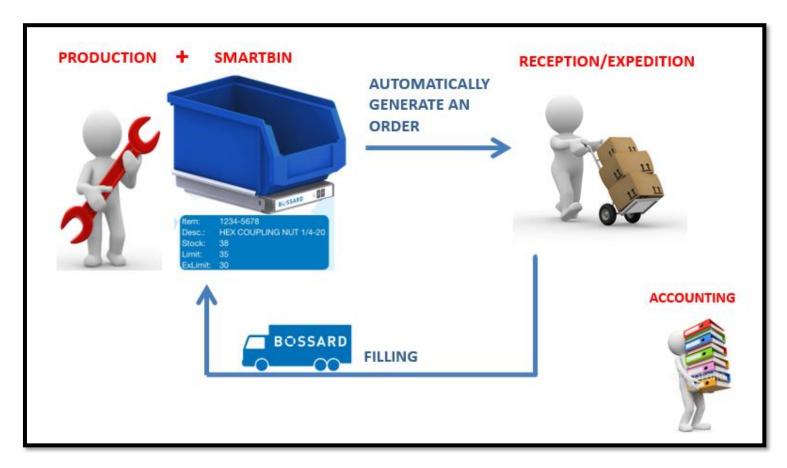


AUTOMATED RE-SUPPLY MATERIAL REQUEST WITH SMART FACTORY



HANDLING PROCESS OF C-PART

TRANSFORM WITH SMART FACTORY LOGISTICS



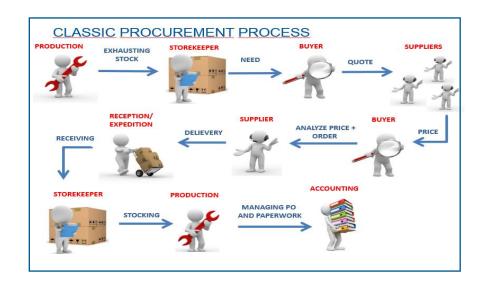
System ordering...

- Simplify
- Automated and Streamline progress
- Digital access and analytics
- Online 24/7 monitoring

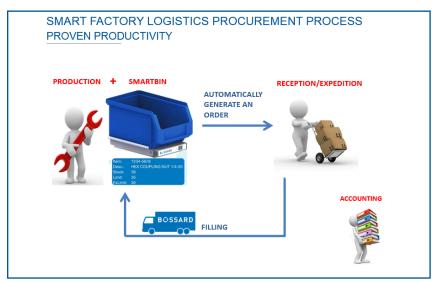


SMART FACTORY LOGISTICS

INDUSTRIAL 4.0 TRANSFORM TO C-PART SUPPLYING

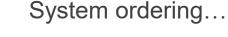






Conventional Ordering....

- A lot of activities
- Manually progress
- Much papers works
- Waiting and motion process
- Work days monitoring



- Simplify
- Automated progress
- Lower Paper work
- Streamline process
- Online 24/7 monitoring





Our Smart Factory Logistics Solution



SmartBin Cloud



FULLY AUTOMATED



WEIGHT SENSORS
Physical stock information



VISUAL PROOF



INDUSTRIAL CLOUD CONNECTION(IIOT)





ERROR PROOF automated error recognition



24 / 7 OPERATIONContinuous inventory monitoring



ARIMSAccess to Operation Dashboard



LEDPick-by- and Put-to-Light option



SmartLabel Cloud











Normal Status

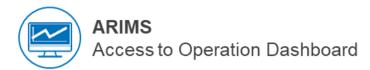


Ordered Status



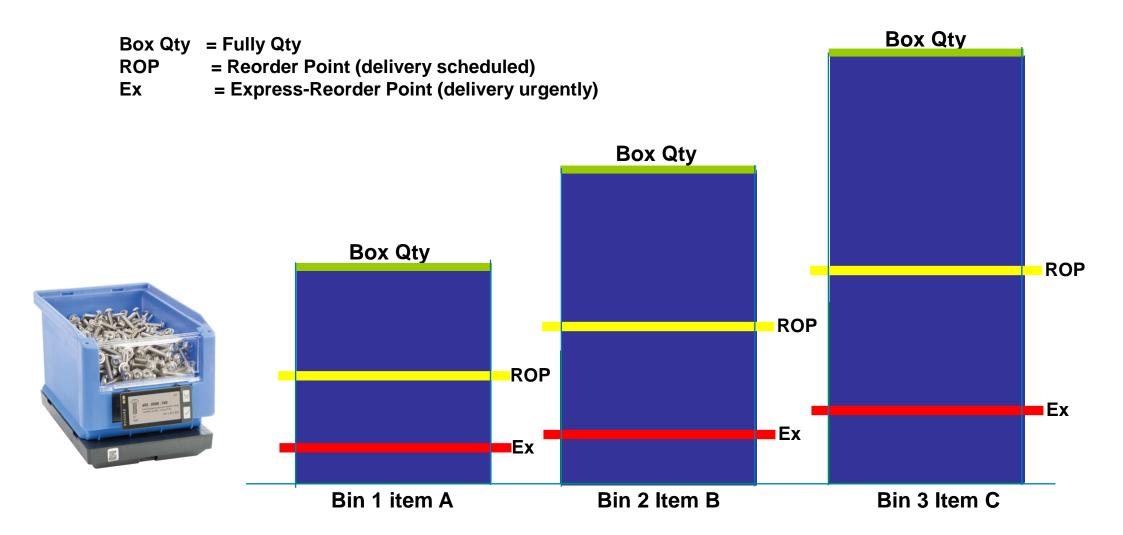








SMART FACTORY LOGISTICS REPLENISHMENT – BUFFER AND REFILL















Search-by-Light, Pick-by-light and Put-to-light



REDUCED SEARCH TIMES



ELECTRONIC PICKING

Smooth and fast setup and refill process



NO MISPICKS

Eliminates picking errors





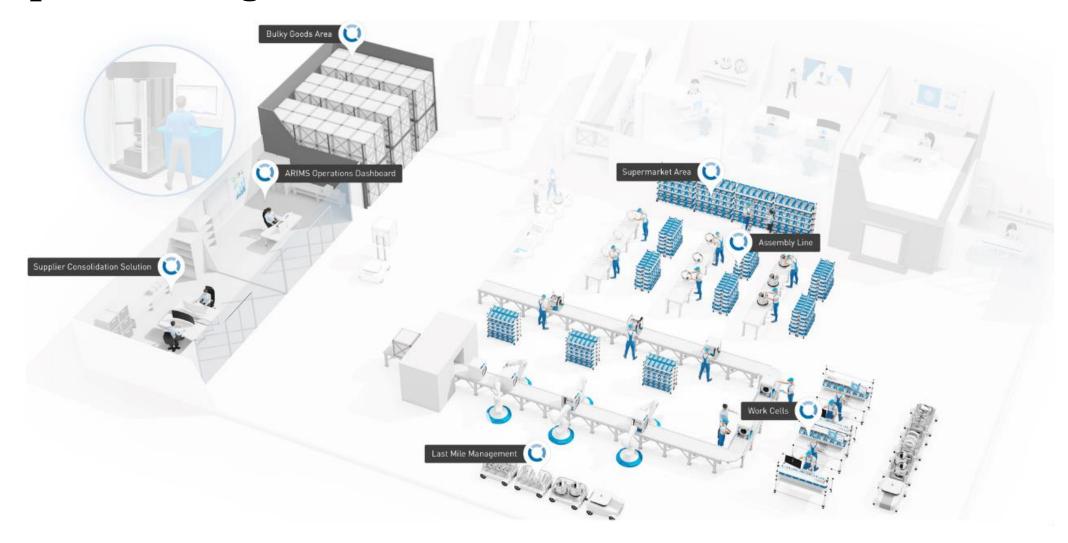




MOBILE APP
Paperless



Shop floor management for internal material distribution

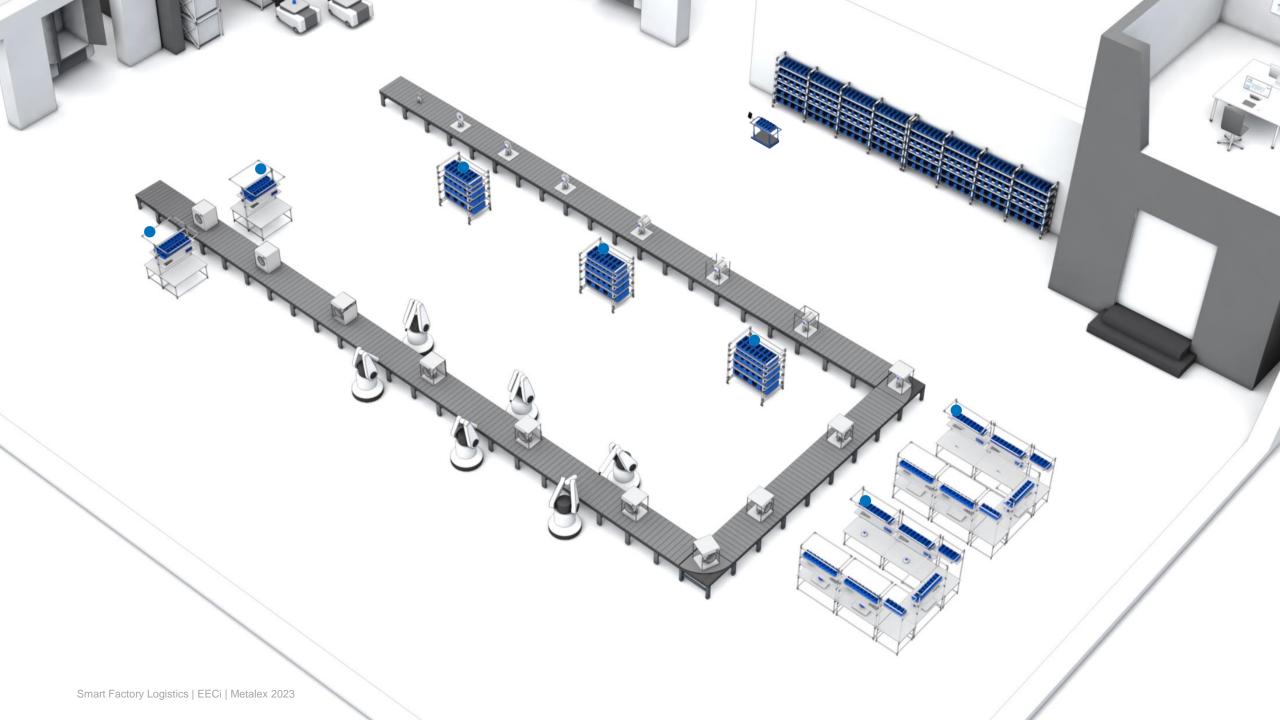


Last Mile Management w/ Search-by-Light, Pick-by-Light and Put-to-Light

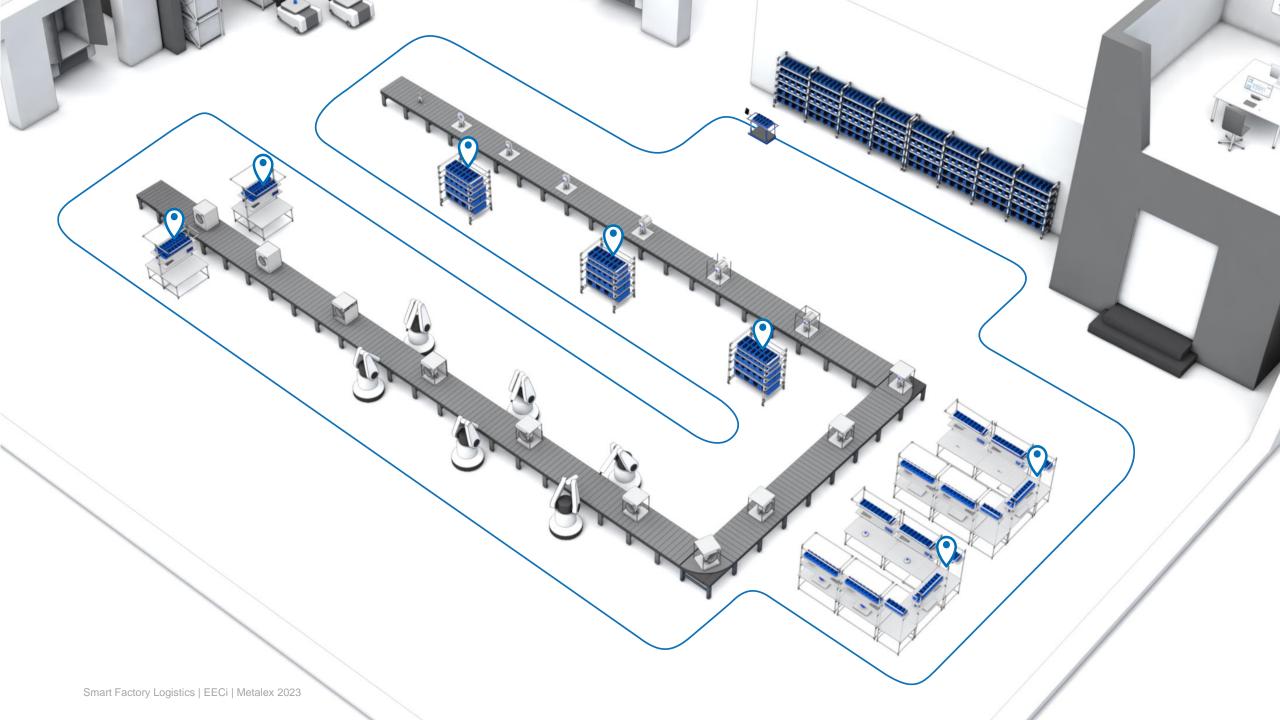
Digital picking list



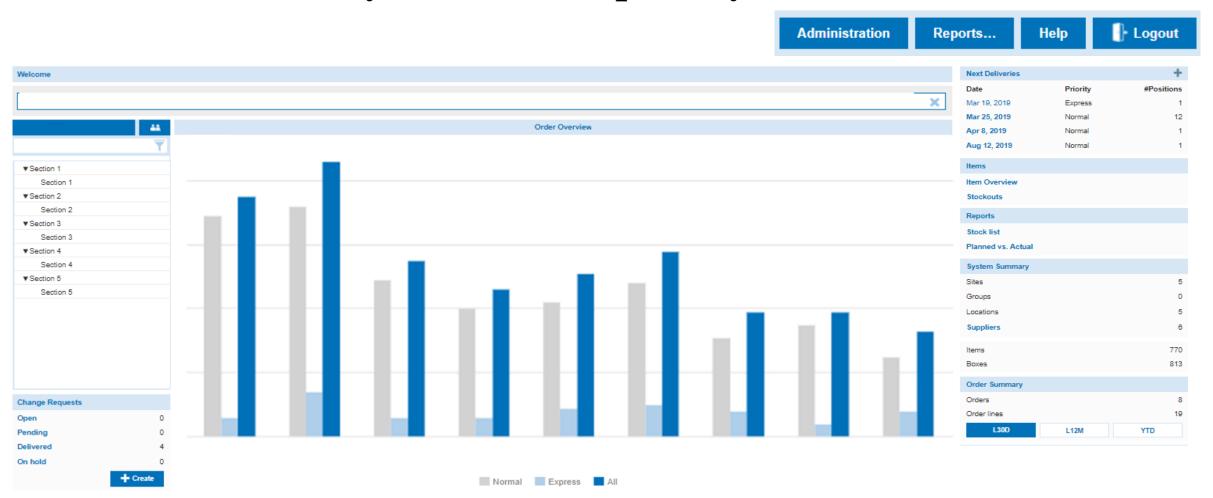
Optimized route plan



Smart Factory Logistics | EECi | Metalex 2023

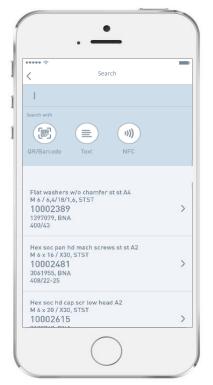


ARIMS – Data Analytics and Transparency



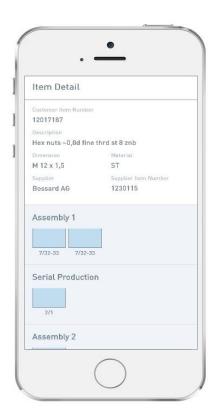
Item Finder

ARIMS Mobile - Real-time information on-the-go



Text

- 2D, barcode reader, text recognition
- NFC Reader (for SmartLabel)



Locations

Detail

Item

- Filling Rate
- Order Overview



- Filling Rate
- Order Overview

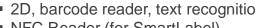
1/16 1/17

1/34 1/35





- Item Delivery Date
- Confirmed delivery qty

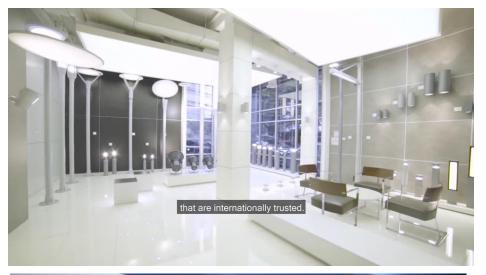


Smart Factory Logistics Use Cases

4 Unilamp

UNILAMP SMARTBIN FOR C-PART AUTOMATED

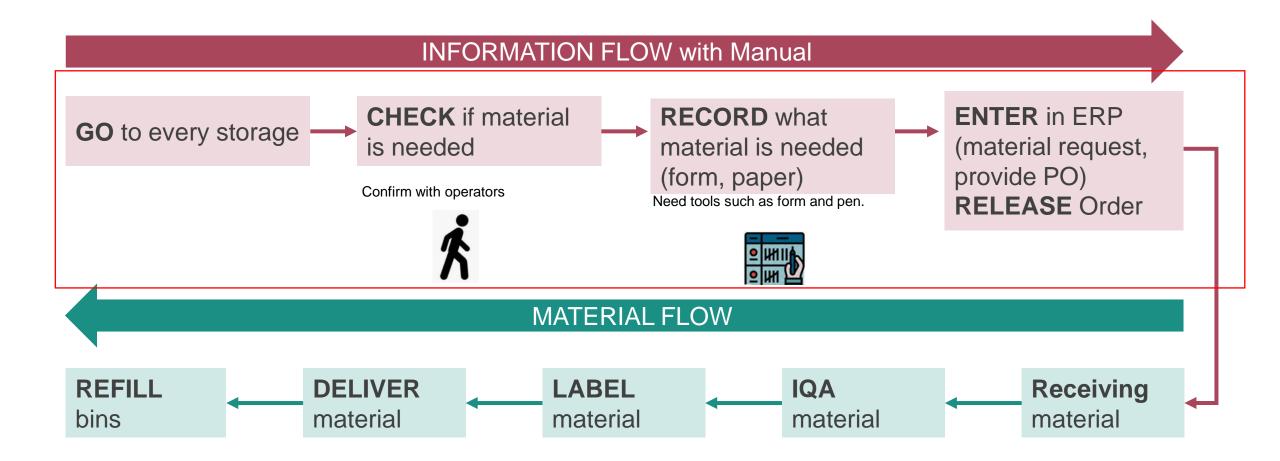




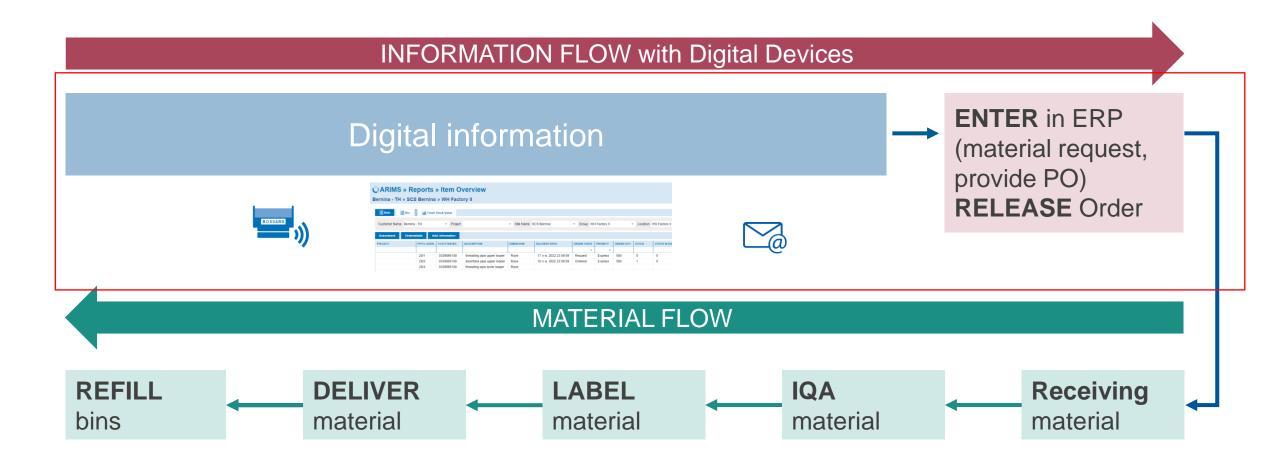




RE-SUPPLY MATERIAL REQUEST CONVENTIONAL FACTORY



AUTOMATED RE-SUPPLY MATERIAL REQUEST WITH SMART FACTORY

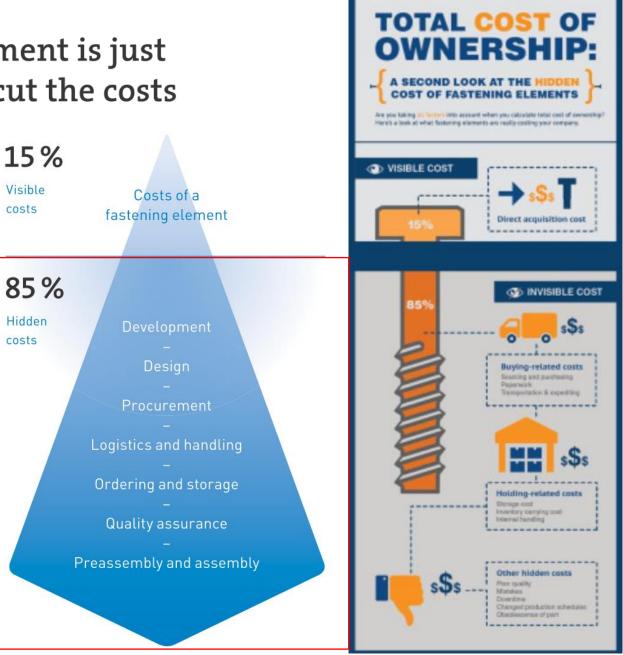


THE RULE OF 15-85

The purchase price of a fastening element is just the tip of the iceberg. At Bossard, we cut the costs of the hidden part.

Keeping production costs down right from the start – that is our goal.

The hidden aspects of fastening elements account for approximately 85% of the total cost of ownership (TCO).



Transparency Logistics with 64% of Cost Reduction

"Bossard is one of our key strategic suppliers who has played a major part in improving our productivity and competitiveness."



Pairoj Boonpasart Chief Executive Officer





Our Major Customers

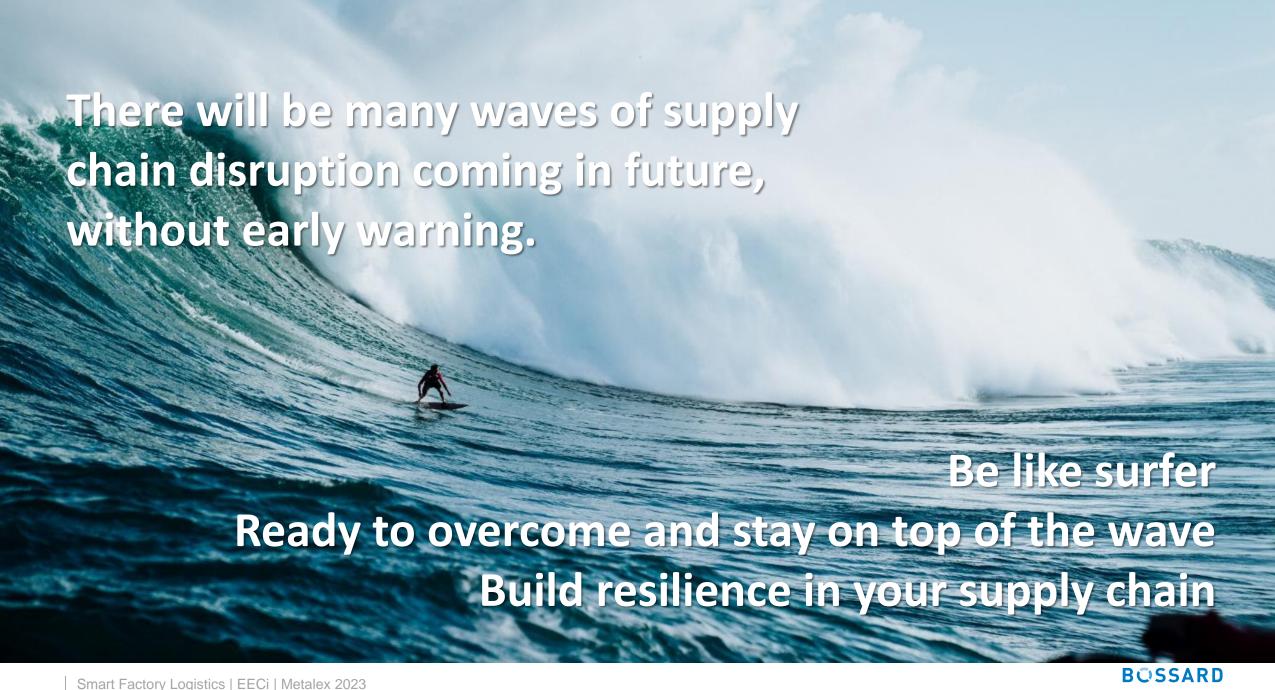


Smart Factory Logistics in Thailand



Future trend





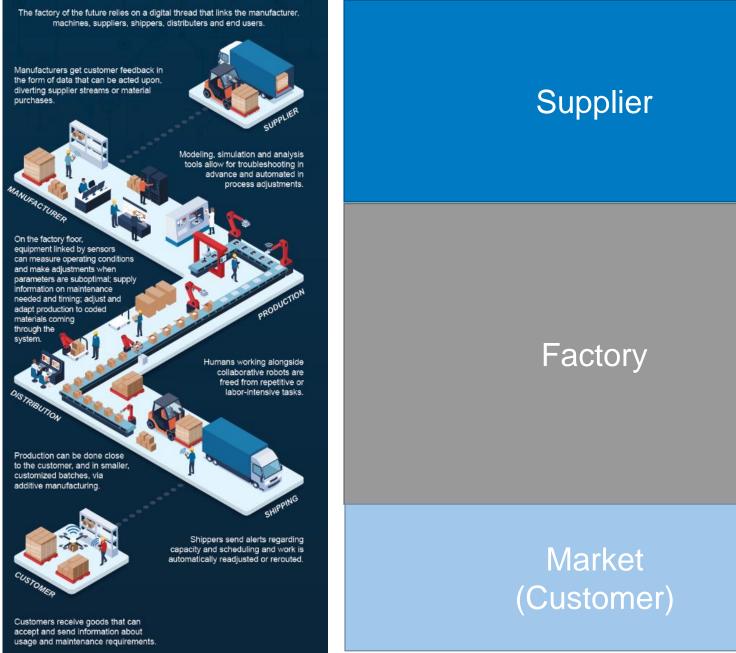




Photo: https://www.nist.gov/mep/manufacturing-infographics/emergence-digital-manufacturing



Bossard Future Smart Factory Logistics

