

A robotic hand is shown operating a sewing machine. The hand is wearing a grey, textured glove. The sewing machine is black and silver. The background is dark with various digital overlays, including binary code (0s and 1s) and a dashed white line. The overall aesthetic is futuristic and technological.

BIG DATA

AI

GARMENT

EN



BIG DATA



AI



PRODUCTION



OUR VISION

Industrial METAVERSE for Garment Manufacturing
Create the Future of Apparel Industry with AI

SIJE

DIGITAL NEURAL for GARMENT MANUFACTURING

SIJE's technology focuses on connecting production and sourcing.



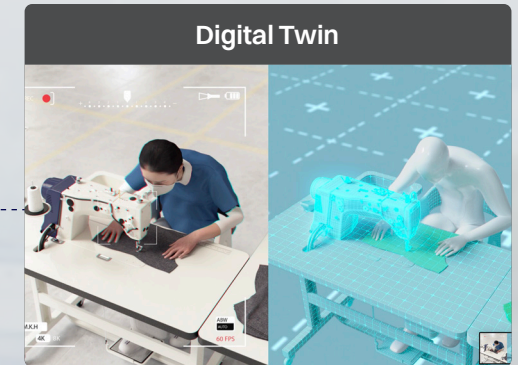
Data Collection

Collect 30 logs of production data per second from a sewing machine.



Real-Time KANBAN

IoT system using Wi-Fi to show production status in Real-Time



Digital Twin

Remote management in a Virtual Site that is an exact replica of Real Factory.



Big Data Analysis

Refine and extract billions of production data into usable data.

SOLUTIONS for SMART GARMENT MANUFACTURING

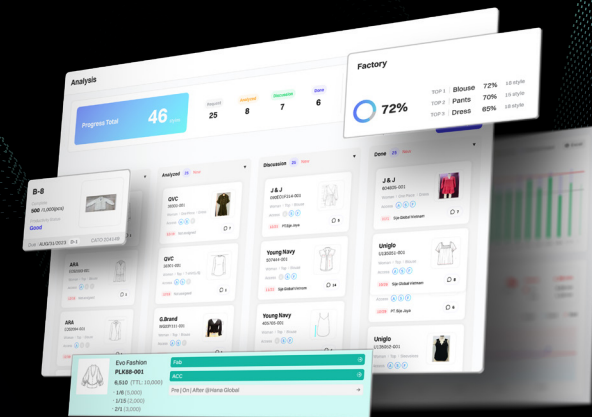
 **Monolog**

Real-Time
Production Monitoring



 **Monolis**

Apparel Supply Chain
Management



PRODUCT MANAGEMENT SYSTEM by AI

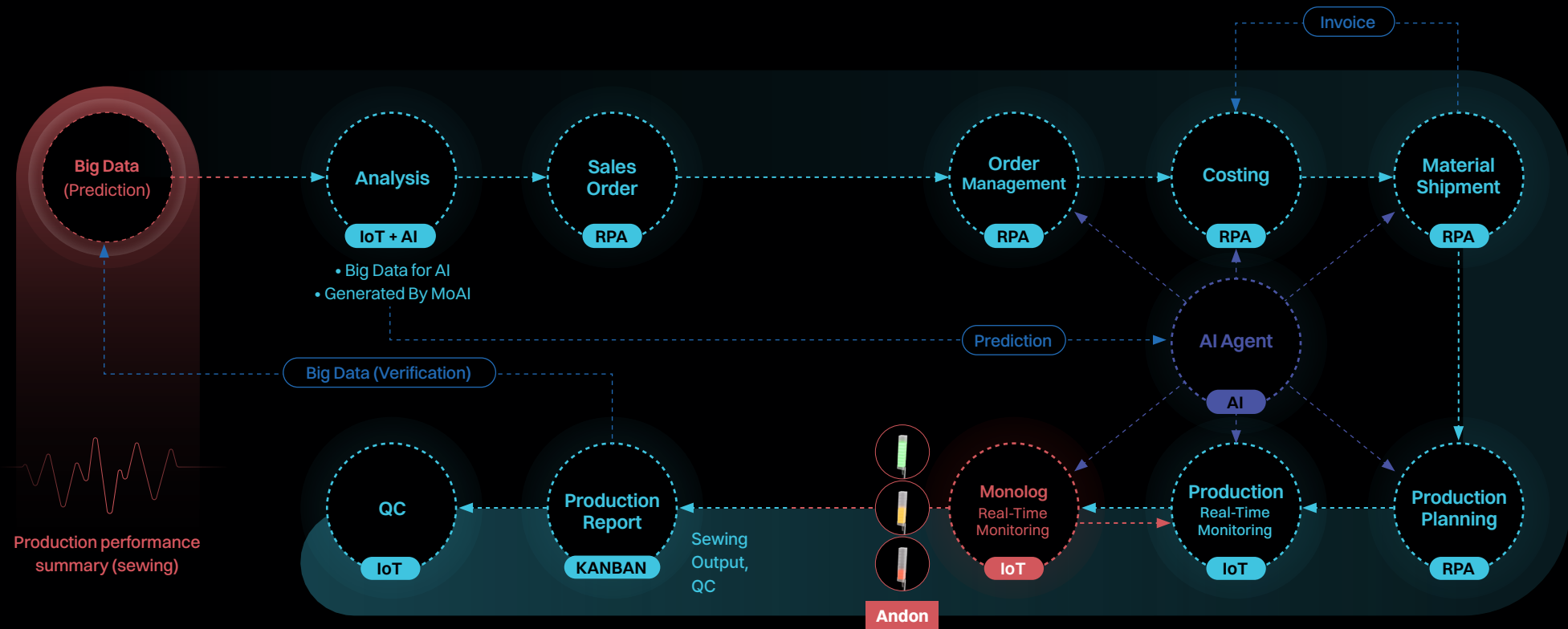
SIJE encompasses the entire process cycle from sourcing, order management, production planning, and management to shipment.

Monolog

Production site monitoring
IoT system

Monolis

Clothing supply management
SaaS solution

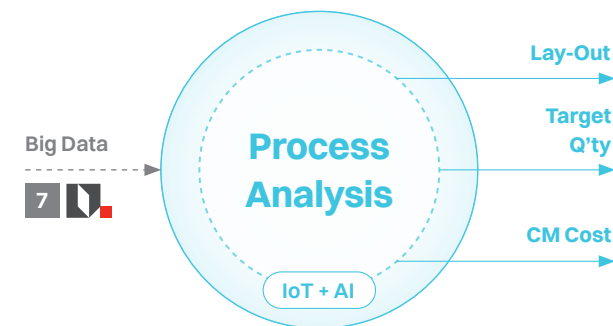


SOLUTION

- 1 Process Analysis
- 2 Sales Order
- 3 Order Management
- 4 Costing
- 5 Material Shipment
- 6 Production Planning
- 7 Production
- 8 Monolog
- 9 Production Report
- 10 QC

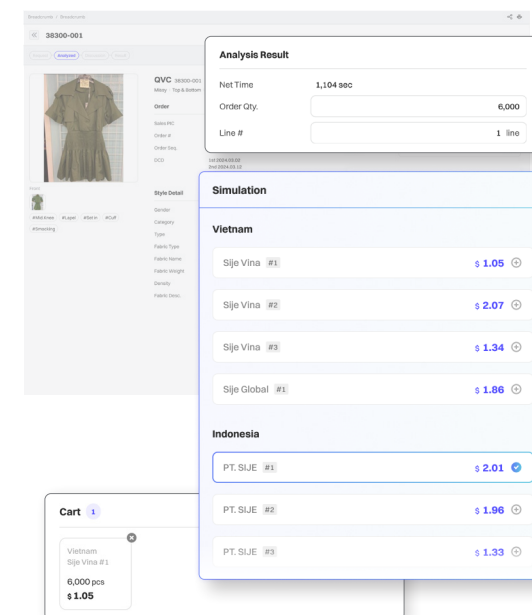
Solution

1



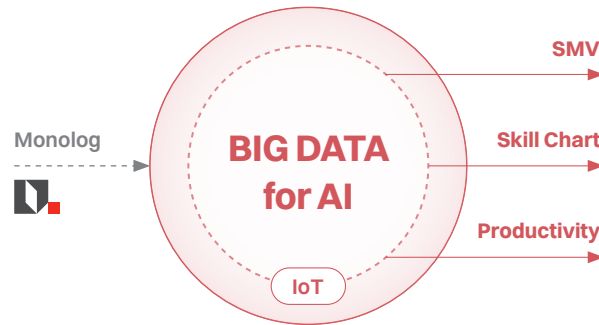
Calculate target quantity and cost through AI process analysis

- 1 Process Analysis
- 2 Sales Order
- 3 Order Management
- 4 Costing
- 5 Material Shipment
- 6 Production Planning
- 7 Production
- 8 Monolog
- 9 Production Report
- 10 QC



Solution

1-1



A large amount of data collected in Monolog processed for MoAI learning

1 Process Analysis
Big Data for AI

2 Sales Order

3 Order Management

4 Costing

5 Material Shipment

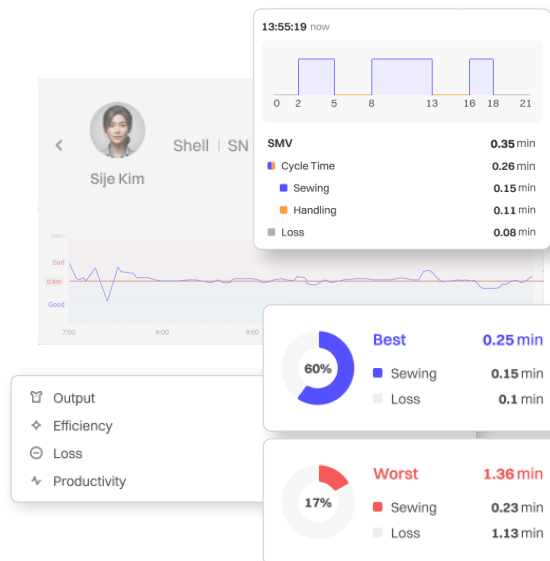
6 Production Planning

7 Production

8 Monolog

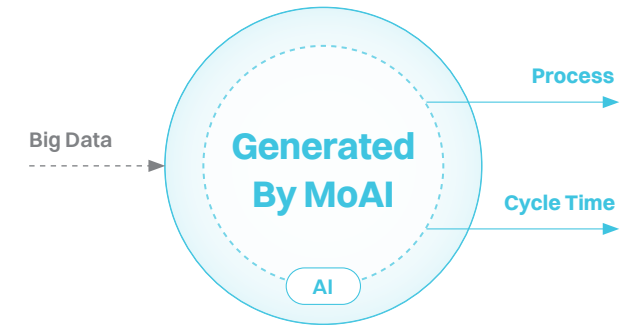
9 Production Report

10 QC



Solution

1-2



Generate the optimal process layout based on log data collected from the production site

1 Process Analysis
Generated By MoAI

2 Sales Order

3 Order Management

4 Costing

5 Material Shipment

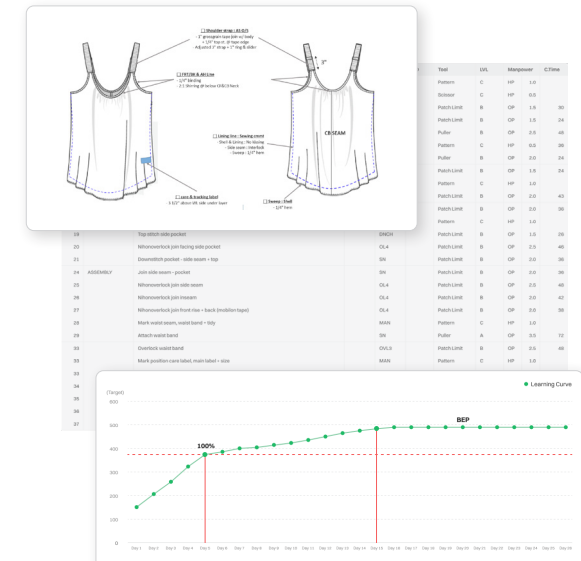
6 Production Planning

7 Production

8 Monolog

9 Production Report

10 QC

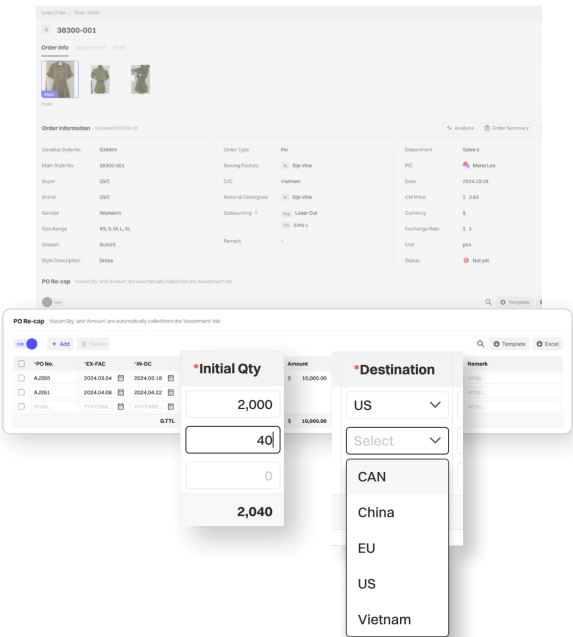


Solution

2



Preparing order documents and listing raw materials



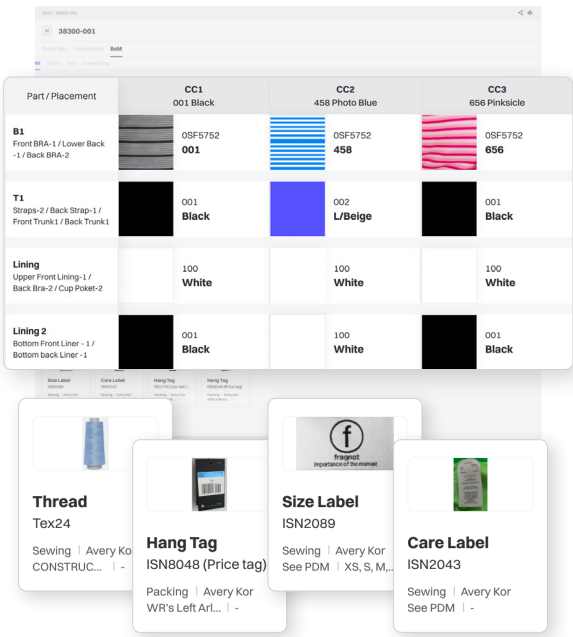
- 1 Process Analysis
- 2 Sales Order
- 3 Order Management
- 4 Costing
- 5 Material Shipment
- 6 Production Planning
- 7 Production
- 8 Monolog
- 9 Production Report
- 10 QC

Solution

3



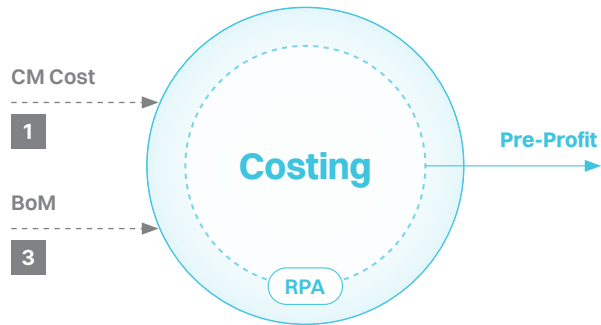
Calculate and purchase raw material requirements



- 1 Process Analysis
- 2 Sales Order
- 3 Order Management
- 4 Costing
- 5 Material Shipment
- 6 Production Planning
- 7 Production
- 8 Monolog
- 9 Production Report
- 10 QC

Solution

4



Prepare a trade cost strategy report

- 1 Process Analysis
- 2 Sales Order
- 3 Order Management
- 4 Costing
- 5 Material Shipment
- 6 Production Planning
- 7 Production
- 8 Monolog
- 9 Production Report
- 10 QC

Sales Order			
PO No.	Qty	Amount	
AJ350	2,000	\$ 12,200.00	
AJ351	4,000	\$ 24,400.00	
AJ352	790	\$ 4,819.00	
G.TTL	6,790	\$ 41,419.00	

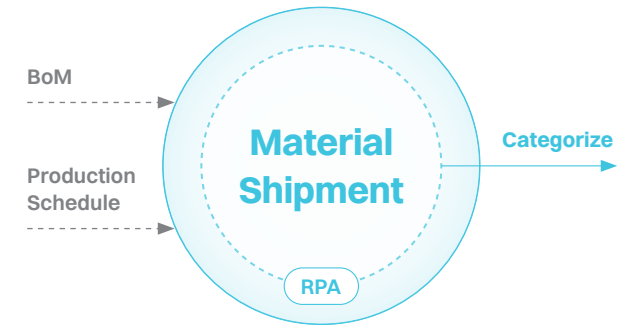
Item	Item Name	Item Detail	Order Qty	Unit Price
Fabric	CHANG'S SHIRAZ L.L.	100% Cotton	21,800	0.550
Fabric	CHANG'S SHIRAZ L.L.	100% Cotton	25,175	0.950
Fabric	Woolen	100% Polyester	12,750	0.350

PO No.	Qty	Amount	
AJ350	2,000	\$ 12,200.00	
AJ351	4,000	\$ 24,400.00	
AJ352	790	\$ 4,819.00	
	6,790	\$ 41,419.00	

Qty	Amount
0	\$ 0.00
0	\$ 0.00
0	\$ 0.00
0	\$ 0.00
0	\$ 0.00

Solution

5

Management of raw material inventory
(Inbound & Outbound)

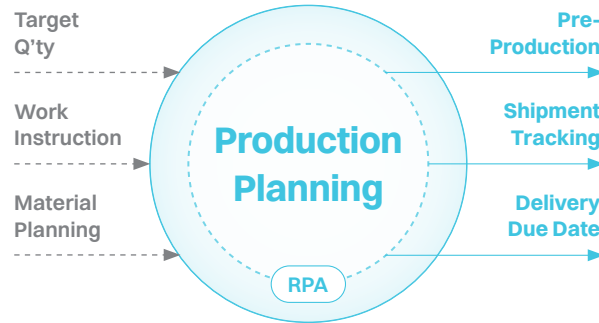
- 1 Process Analysis
- 2 Sales Order
- 3 Order Management
- 4 Costing
- 5 Material Shipment
- 6 Production Planning
- 7 Production
- 8 Monolog
- 9 Production Report
- 10 QC

Ocean			
Shanghai	Guangzhou	Qingdao	
Fixed	Fixed	Estimated	
2025.01.01	2025.01.02	2025.01.03	
2025.01.06	2025.01.07	2025.01.10	
2025.01.08	2025.01.09	2025.01.11	
5,000	2,500	3,731	
1,000		260	
5,000	2,500	3,731	
1,000		260	
5,000	2,500	3,731	
1,260			
18,260	7,500		

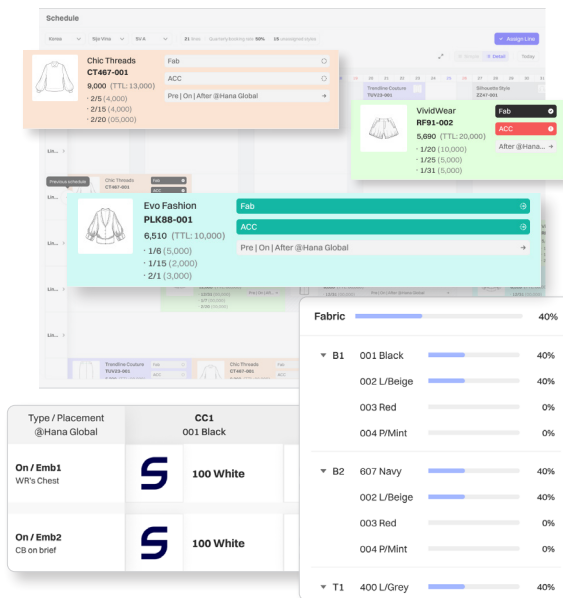
FOC	Total Shipment Qty	Using Stock	G.Total Qty	Bal
	11,330		11,330	-3,731
	1,260		1,260	-260
	11,330		11,330	-3,731
	1,260		1,260	-260
	11,330		11,330	-3,731
	1,260		1,260	0
0	37,770	0	29,880	-11,713

Solution

6



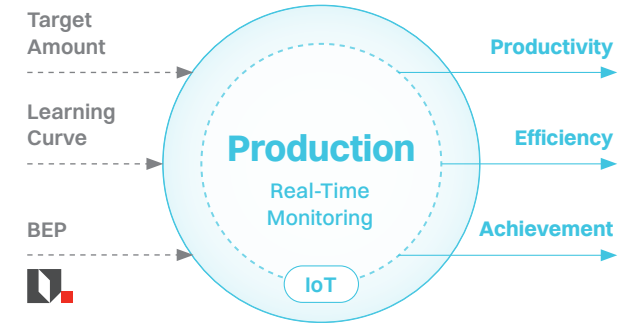
When assigning lines based on analysis, optimal process and operator layout placement



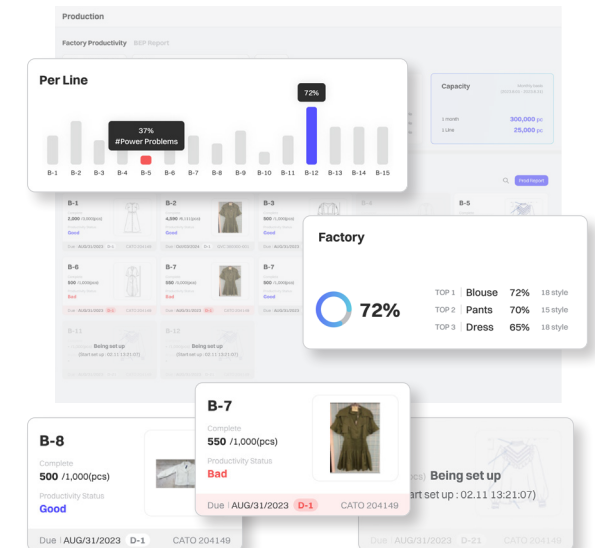
- 1 Process Analysis
- 2 Sales Order
- 3 Order Management
- 4 Costing
- 5 Material Shipment
- 6 Production Planning
- 7 Production
- 8 Monolog
- 9 Production Report
- 10 QC

Solution

7



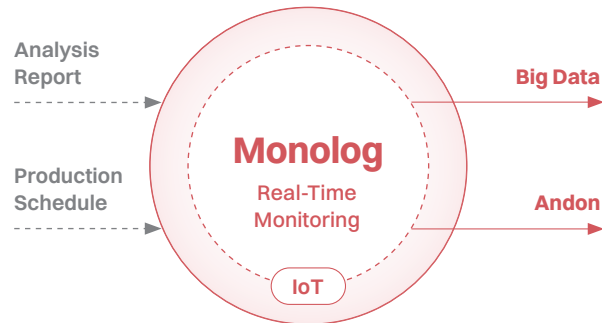
Check the production status in real time from various perspectives, such as time series, performance, and efficiency, to enable quick decision-making



- 1 Process Analysis
- 2 Sales Order
- 3 Order Management
- 4 Costing
- 5 Material Shipment
- 6 Production Planning
- 7 Production
- 8 Monolog
- 9 Production Report
- 10 QC

Solution

8



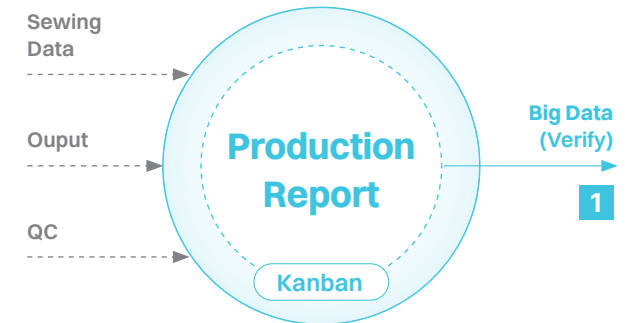
Collect 30 data points per second from the sewing machine during production to measure productivity



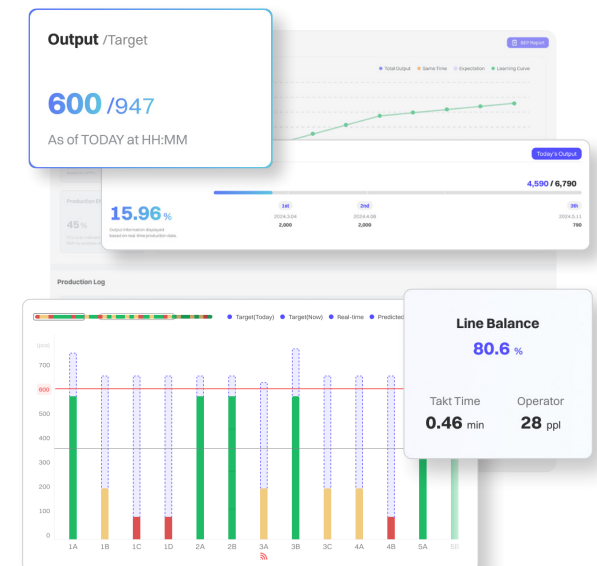
- 1 Process Analysis
- 2 Sales Order
- 3 Order Management
- 4 Costing
- 5 Material Shipment
- 6 Production Planning
- 7 Production
- 8 Monolog
- 9 Production Report
- 10 QC

Solution

9



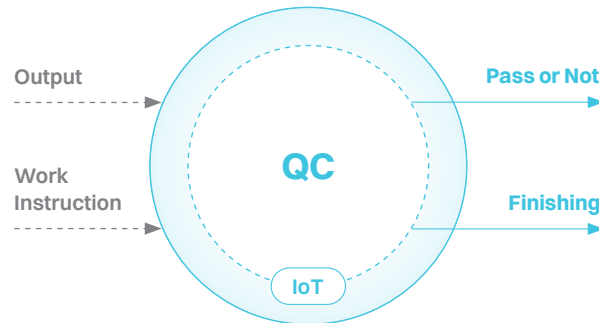
Compare analyze forecasts and actual production status, collected production data is analyzed, processed, and stored in the data library



- 1 Process Analysis
- 2 Sales Order
- 3 Order Management
- 4 Costing
- 5 Material Shipment
- 6 Production Planning
- 7 Production
- 8 Monolog
- 9 Production Report
- 10 QC

Solution

10



Update Real-time QC status and immediate corrective actions when defects are detected

Step 1 Mark the defect area in the photo below.

Step 3 Select the defect type.

Defect

Cutting faults

Oil

Seam Sealing / Yarn faults

Puckering

Off center

MCD&Cutting

Printing

Bonding(CWS)

Sealing

Sewing Line

Slub

Thick and thin

Yarn contamination

Broken ends

Mis pick

Holes

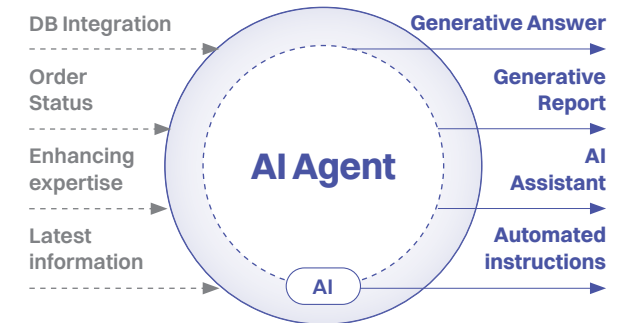
Pass

Defect

- 1 Process Analysis
- 2 Sales Order
- 3 Order Management
- 4 Costing
- 5 Material Shipment
- 6 Production Planning
- 7 Production
- 8 Monolog
- 9 Production Report
- 10 QC

Solution

+



Quickly and easily search and issue instructions on sourcing and production status using an AI Chat Bot.

- 1 Process Analysis
- 2 Sales Order
- 3 Order Management
- 4 Costing
- 5 Material Shipment
- 6 Production Planning
- 7 Production
- 8 Monolog
- 9 Production Report
- 10 QC

+ Chat Bot

Ask me anything...

MEXI

What can I help you?

Is there any pending issue about s#GRN-001 which is about to start?

Type / Placement	CC1 001 Black	CC2 100 White
On / Emb1 Wrist Chest	100 White Layout: Approved Color: Approved	456 Photo Blue Layout: Approved Color: Not Project (2nd...)
On / Emb2 CB on brief	SIJE 100 White Layout: Approved Color: Approved	SIJE 456 Photo Blue Layout: Approved Color: Not Project (2nd...)

Here is the answer.

Ask me anything...

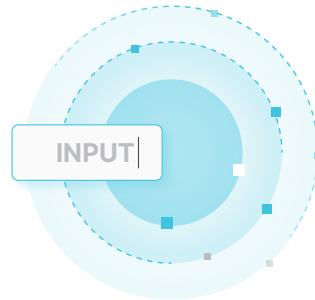
Monolis

APPAREL SUPPLY CHAIN MANAGEMENT

Monolis maximizes productivity through professional and rapid decision-making, and can reduce complex merchandising processes by over 90% through AI-based task automation.

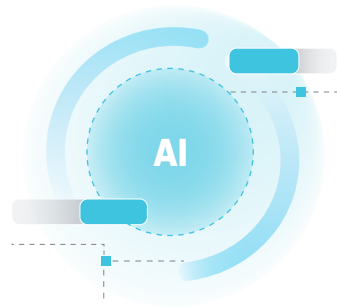
1. Data Automation

By automating all processes with a single input, data can be generated, transmitted, and efficiently utilized in various ways.



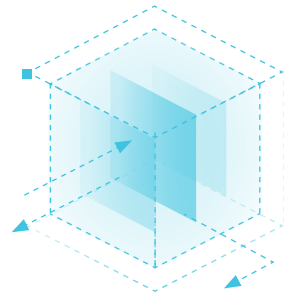
2. Process Analysis (AI)

Using the data collected from the Monolog, automatically design process layouts and calculates manufacturing cost by just scanning the work instruction.



3. Intelligent Merchandising

The intelligent system operated based on sourcing theory and SOP is automatically performs high-level tasks comparable to experts.



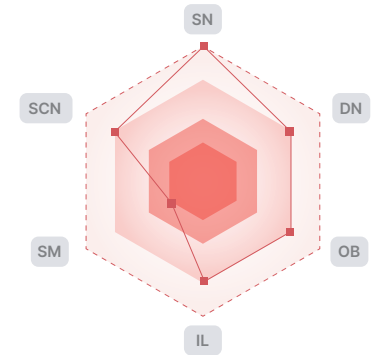
Monolog

DEEP LEARNING TECHNOLOGY USING BIG DATA

Monolog leverages data to effectively drive improvement activities. By visualizing production status in real time, you can establish a strategy to increase productivity depends on the situation.

1. Standard Minute Value (SMV)

Considering various factors such as fabric characteristics, machine and needle types, worker skill level, and specific working conditions, we quantify sewing proficiency using a self-developed advanced algorithm.



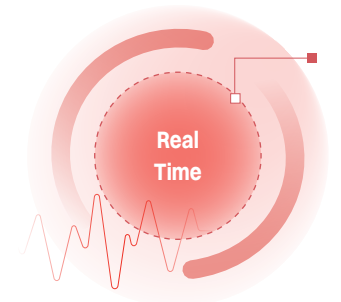
2. Productivity

Efficiency and loss time calculates logically by analyze the statistics on the distribution of irregular production hours due to Manpower.



3. Defect Recognition

By analyzing machine data, we identify machine defects and diagnose in real time whether any defects may occur during the sewing process through pattern analysis.



MAKE COMPLEX SOURCING MANAGEMENT 'EASI'

SIJE is continuously striving to provide smart factory solutions optimized for clothing manufacturing.

In particular, the user-friendly interface maximizes the user experience.



Monolog

Real-Time Production Monitoring



Monolis

Apparel Supply Chain Management



Monolis has won the main prize of the iF Design Award 2024, one of the top three design awards in the world.

The iF Design Award, organized by the German Industrial Forum since 1953, is a highly prestigious award that is rigorously evaluated from a design perspective, including aesthetics, innovation, convenience, suitability, and efficiency.





SJE

Email biz@sijecorp.com

Web <https://sije.io>

