

Problem

Why you need a solution

The sewing industry is inherently difficult to quantify due to its complexity.

How can clothing be produced more cost-effectively?

SIJE

We are not just an IT solutions provider.

We deliver smart innovations

for lower costs, faster

production, and higher quality.

Solution for Garment Manufacturing



D Monolis

Apparel supply chain management solution

D Monolog

Production site monitoring IoT device Go to Youtube 7

Solution

Digital Transformation of Labor-Intensive Manufacturing

D Monolog Real-Time Production Monitoring



Production monitoring IoT system

Monolog is an advanced IoT device driving the digitalization of apparel manufacturing, analyzing sewing patterns to generate millions of process data points each day.



1

Press the red button to update production and SMV in real time.

2

Captures 30 data points per second.

3

Tracks data regardless of worker location or process changes.

D Monolog

Dataization of sewing machine work

Data is extracted from human-machine interactions, capturing pedal movements and vibrations to distinguish machine operation from fabric handling.



M



1. Pedal Operation Detection



2. Counter Button + Sewing Machine Pattern

Data Collection

Data visualization

Real-Time Monitoring

Real-time data processing accurately visualizes production output, allowing instant bottleneck detection through Andon and Kanban systems at each factory.

1. Andon

Real-time production monitoring through data analysis

Production Traffic Lights Good Warning Serious



2. KANBAN

Real-time production monitoring dashboard

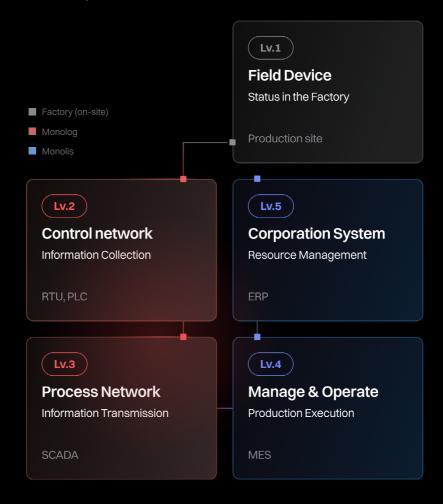




Digital Neural

Smart Factory

SIJE establishes an information network that integrates real-time factory production data into MES and ERP systems.



Big data

With a focus on scale, diversity, speed, and accuracy, our system swiftly and precisely collects millions of process data points and variables generated daily on the factory floor.

Deep Learning

Utilizing big data, our system processes information in real time to accurately display production status.

Data analysis (SMV)

Monolis process analysis driven by Monolog data

type	part_batch	op	seq	mc_type	ns	fabric_shell	smv_pred	action
blouse	back	attach i-lining keyhole + cut		im		100% ecovero viscose, voile crepe	19.9	ор
blouse	back	overlock keyhole facing		ovl3		100% ecovero viscose, voile crepe	20	ор
blouse	back	ease keyhole facing		sn		100% ecovero viscose, voile crepe	20	ор
blouse	back	ironing fold facing		im		100% ecovero viscose, voile crepe	о	hp
blouse	back	fold edge stitch keyhole facing		sn	0.0625	100% ecovero viscose, voile crepe	•	ор
blouse	back	attach keyhole facing		sn		100% ecovero viscose, voile crepe	30	ор
blouse	back	cut + back stitch keyhole facing + downstitch top		sn	0.0625	100% ecovero viscose, voile crepe	32	ор
blouse	back	ironing keyhole finish		irn		100% ecovero viscose, voile crepe		hp
blouse	back	make self loop, balik + tacking		sn		100% ecovero viscose, voile crepe	15	ор

Production Efficiency

Use data to enhance production efficiency and quantify expected gains to optimize processes, lines, and factories.



Analysis of Work patterns Detects and notifies of anomalies by patterns



Displays work imbalances

by process for corrective

Line Balancing

action



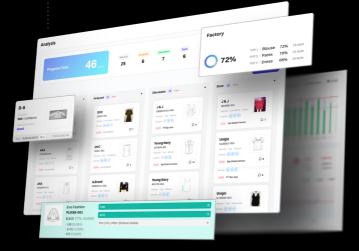
Management of workers Manages workers using productivity indicators



Solution Smart Solutions for Automating Apparel Sourcing

D. Monolis SaaS Solution for Apparel Supply Management

- Digitalization of Production Costs & Material Management
- Cloud-based system
- Automated process analysis & optimization





SaaS Solution for Apparel Supply Management

D. Monolis

A production management and sourcing program that combines big data and AI, built on Monolog data.



Big data

Monolog data automatically generates process layouts and calculates manufacturing costs based on work instructions.

RPA

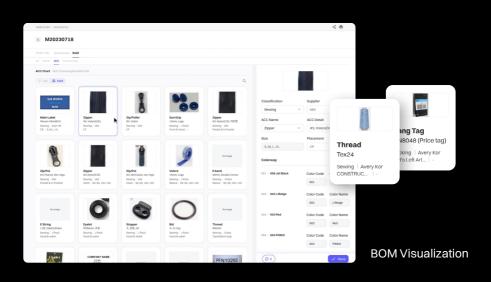
An intelligent system, built on sourcing theory and SOP, executes expert-level tasks while automatically processing and transmitting data.

Merchandising

With a single input, various data points are automatically calculated

optimizing sourcing tasks like BoM management, material ordering, and export control to maximize productivity.

Buyer		20	24.12.19			C/O Fac	tory		2024.12.19		т	otal Qty	2,29	97,580 pc
Buyer A 105 styles Buyer B 84 styles		<u> </u>				Country A 105 styles Country B 84 styles				Total Amount \$ 16,591,164.				
					Country C Country D		70 styles							
		les						62 styles				AL		
Buyer C		70 st	les											
Buyer D		62 st	les											
- Busine E		EA.ab	doo_											۹ 0
		Main Style No.	Season	Buyer	Brand	1st Dely	Order Qty	Unit	Order Amount	Sewing Factory	C/0	Order Type	Status	PIC
		482843-001	Fall24	G.buyer Inc.	G.Brand	2023.09.09	50,000	pcs	\$ 425,000.00	Garment Import Ex	China	Pre	Not yet	🌖 Sije Ki
		482845-001	Fall24	G.buyer inc.	G.Brand	2023.09.09	3,000	pcs	\$ 12,000.00	Garment Import Ex	China	Pre	Not yet	🌖 Sije Ki
		482846-001	Fall24	G.buyer Inc.	G.Brand	2023.09.09	5,000	pcs	\$ 20,000.00	Garmont Import Ex	China	Fix	Not yet	🌖 Sije Ki
		482847-001	Fall24	G.buyer Inc.	G.Brand	2023.09.09	6,000	pcs	\$ 24,000.00	Garment Import Ex	China	Fix	Not yet	Sijo Ki
		601555-001	Fall24	G.buyer Inc.	G.Kids	2023.09.23	15,000	pcs	\$ 69,000.00	Garment Import Ex	China	Fix	Not yet	🌖 Sije Ki
		001550-001	Fall24	G.buyer Inc.	G.Kids	2023.09.23	26,000	pcs	\$ 124,900.00	Garment Import Ex	China	Cancel	Approved	Sije Ki
		601557-001	Foll24	G.buyerinc.	G.Kids	2023.09.23	130,000	set	\$ 663,000.00	Garment Import Ex	China	Fix	Approved	Sije Ki
		601558-001	Fall24	G.buyer Inc.	G.Kids	2023.09.23	6,400	set	\$ 35,200.00	Garment Import Ex	China	Fix	Approved	🌖 Sijo Ki
		601590-001	Fall24	G.buyer Inc.	G.Kids	2023.09.23	7,800	set	\$ 70,200.00	Garment Import Ex	China	Pre	Approved	Sije Ki
		601592-001	Fall24	G.buyer Inc.	G.Kids	2023.09.23	8,000	pcs	\$ 60,000.00	Garment Import Ex	China	Fix	Approved	Sije K
		601600-001	Fall24	G.buyer Inc.	G.Kids	2023.09.23	13,000	pcs	\$ 71,500.00	Garment Import Ex	China	Cancel	Approved	Sije Ki
		708500-001	Foll24	G.buyer Inc.	G.Toddler	2023.09.30	20,000	set	\$ 124,000.00	Garment Import Ex	China	Fix	Approved	Sije Ki
	0													
		708501-001	Fall24	G.buyer Inc. G.buyer Inc.	G.Toddler G.Toddler	2023.09.30	26,000	pcs pcs	\$ 221,000.00 \$ 221,000.00	Garment Import Ex	China	Fix	Approved	Sijo Kit

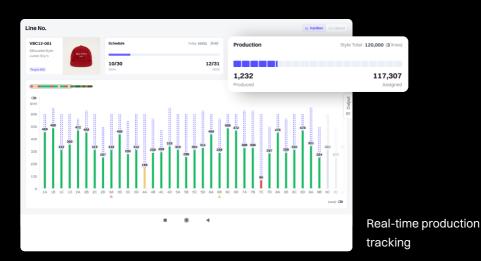


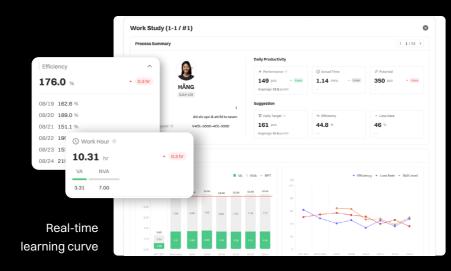
RPA

Production

Real-time Production Status Monitoring

Through process analysis, target production volume and costs are precisely calculated, setting standards for sourcing and manufacturing.





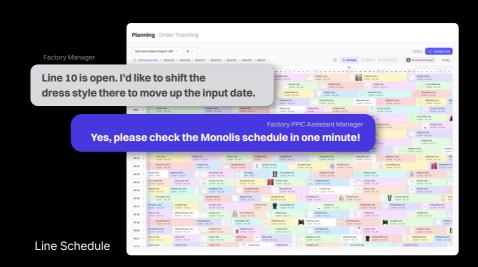
IoT

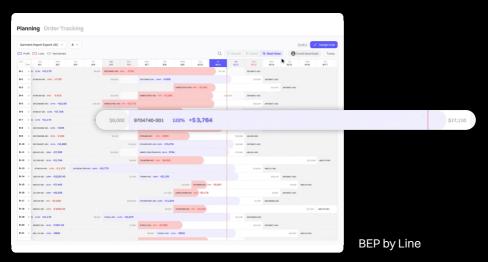
Planning

RPA

Optimizing Process and Task Allocation for Each Line Through Analysis

Production planning is based on order volume and deadlines, with real-time ETA tracking and visibility into each line's BEP status.





Using Monolog and Monolis together maximizes efficiency by leveraging real-time shop floor data.



Field data collection

Data processing

Utilizing Big Data, Al, and Deep Learning

Data-Driven Production & Sourcing

D Monolis

Process Analysis & SMV

Vision

Digital transformation of the apparel supply chain

Digital transformation not only boosts efficiency but also shapes future key industries.

> Productivity Work Improvement Efficiency

Increase 🔺

10.7% + 29.8% = +**C** Increase 🔺

Cost Reduction

Connecting the present and future of apparel manufacturing, we create lasting value through innovation.

D. Monolog	Real-Time Production Monitoring
D Monolis	Annarel Sunnly Chain Managemen



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