



Prepared by group 2

JAK PTE LTD

SmartOps Platform



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Industry: Manufacturing & Wholesale Retail Trade



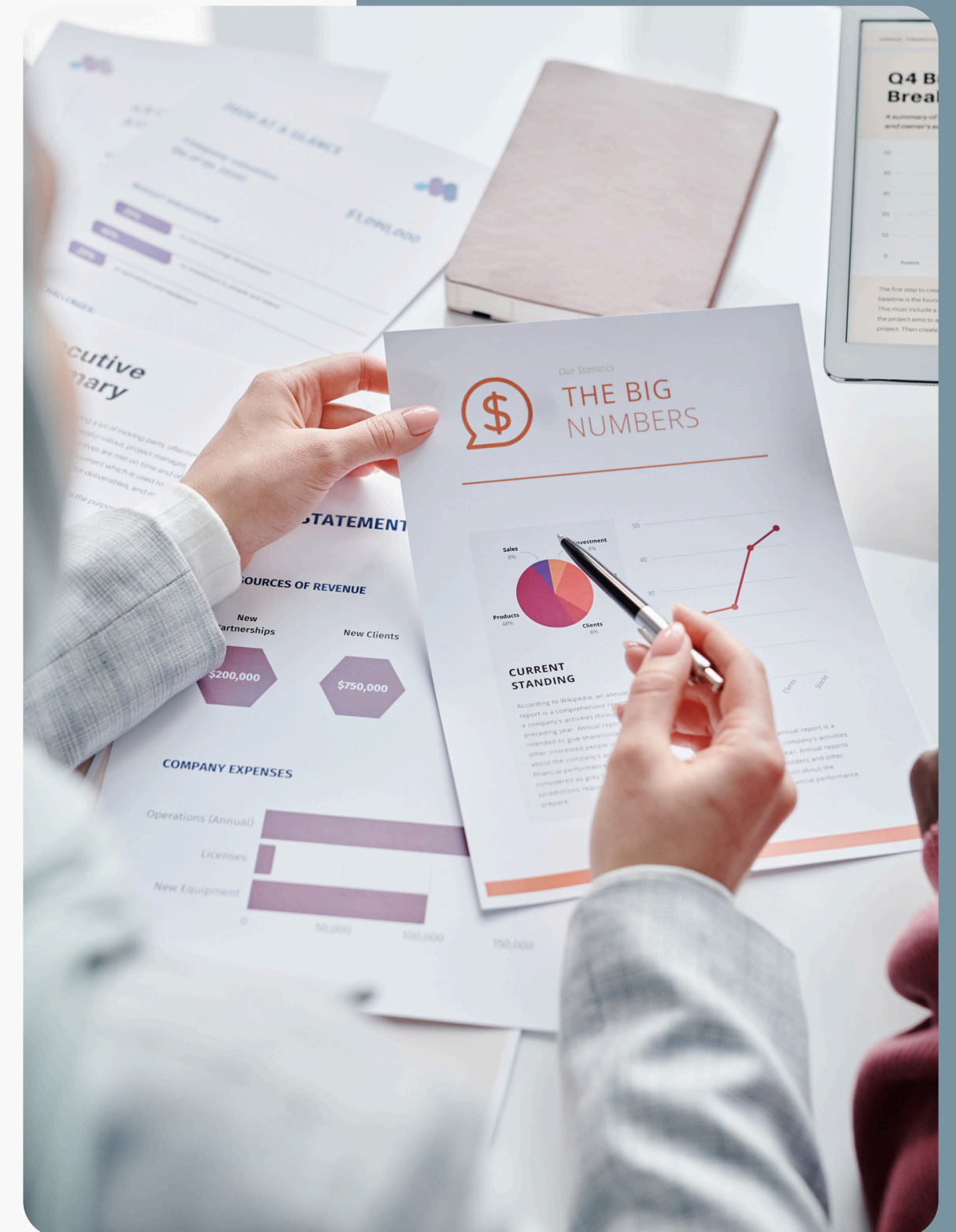
Despite having physical equipment and workforce in place, many factories still rely heavily on manual coordination, fragmented systems, and reactive problem-solving — resulting in inefficiencies and delays.



Common Problems Faced by Factories

Operational Problems in Traditional Factories:

- Manual & Siloed Operations
 - Production planning done in spreadsheets or whiteboards
 - Shift assignments done manually with no system overview
- No Real-Time Visibility
 - Stock levels and production progress not updated live
 - Shortages or delays discovered only after it's too late



Common Problems Faced by Factories

Process & Management Challenges:

- Over-Reliance on Key Personnel
 - Task planning and resource control depend on one person (e.g., factory manager). If they're unavailable, operations may halt or slow down
- Communication Gaps Across Teams
 - No clear link between production, inventory, and manpower
 - Shift confusion and underutilized manpower are common
- No Centralized Performance Tracking
 - Lack of audit trail or data analytics



Introducing Our Solution



A centralized system to automate production planning, monitor raw material inventory, and manage workers — designed to reduce delays, improve visibility, and support factory growth.



Our Digital Solution



JAK Pte Ltd

- SmartOps Platform

Smart Scheduling

- Matches orders with raw material, manpower, and machines
- Auto-generates production plans for manager approval

Manager Portal

- Centralised order dashboard
- Approves and edits orders
- Assigns shifts
- Tracks production progress
- Creates worker accounts

Our Digital Solution



JAK Pte Ltd

- SmartOps Platform

Live Raw Material Inventory

- Automatically updates from supplier delivery data
- Alerts manager when stock is low

Worker Portal

- Workers can view assigned tasks and shifts

Market Validation

Heavy Reliance on Manual Processes

Only ~30% of manufacturers have fully automated operations for critical areas like:

- Equipment capacity utilisation (30%)
- Sales documents (27%)
- Quality management (24%)
- Inspection sheets (24%)

Frequent Work Delays in Core Operations

62% of respondents reported delays in:

- Inventory data
- Manufacturing throughput
- Equipment effectiveness
- Capacity utilisation

Market Validation

Growing Demand for AI, Cloud, and Document Automation

Respondents are planning to invest in:

- AI (56%)
- Cloud computing (52%)
- Document/records automation (47%)

High Cost of Compliance

Over 40% of manufacturers cite compliance documentation costs as a major challenge.

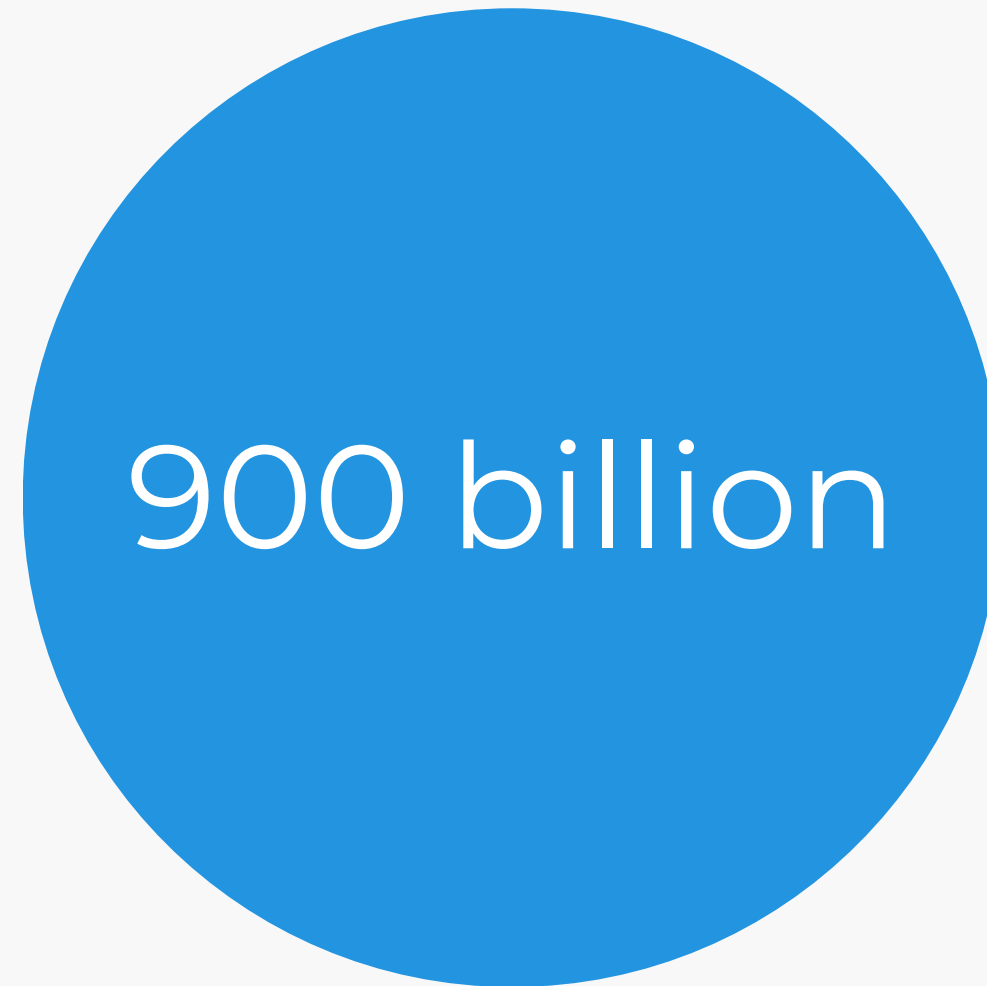
Market Size (2023)

**Manufacturing and
Wholesale market size (USD)**



63.66 trillion

Global



900 billion

**Southeast
Asia**



463.4
billion

Singapore

Business Model



Market Share

0.01% of available market in Singapore



\$2.5K

Average Fee

per company per year



\$10M

Revenue

Expected by 2030

Business Model

- **Subscription-based** Software as a Service (SaaS) company
- **Annual subscription fees** for our smart automation software
- **Additional income:** Customisation services and one-time website integration fees.

JAK Platform – Prototype Walkthrough

<https://www.figma.com/proto/tFWk2y6ugWko9yJSWPa7SW/Entrepreneurship?node-id=o-1&t=F8i9jABoxoEauVQq-1>

Competition

Scheduling + Task Distribution

Best Solution

J²KA Pte Ltd

tolip

FT FactoryTalk
by ROCKWELL AUTOMATION

Manual

Fully Automated

ASPROVA
Think Ahead, Act on Time

ORACLE
CLOUD



Google Sheets / Excel

Scheduling Only

Competition Advantages

REAL-TIME VISIBILITY

Instant updates:

- Inventory
- Production
- workforce status

OPTIMIZED PLANNING

Auto-generates optimal schedules from:

- Materials
- Machines
- Manpower

REDUCED DEPENDENCY

Digitizes production knowledge, reducing reliance on individuals

SEAMLESS COMMUNICATION

Connects inventory, production, & workforce teams, eliminating silos and miscommunication.

DATA-DRIVEN INSIGHTS

Tracks performance and usage trends for continuous improvement and predictive reordering.

AGILE ADAPTABILITY

Enables rapid adjustments to schedules and resources for swift problem resolution.



Conclusion



SmartOps integrated system boosts efficiency by automating inventory, scheduling, shift management, and supplier coordination. Real-time dashboards, smart alerts, and seamless integration reduce delays, improve planning, and enhance service — all without complex AI.





Thank you



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QnA



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References



By implementing a well-researched and innovative sales strategy, our goal is not only to boost immediate sales figures but also to establish a sustainable framework for continued growth and success.

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