



The B2C e-commerce Fun Campaign has developed well over the past six years, but has problems in the process of receiving large fines in 2020



B2C brand online store of sensory unified training equipment Established in 2015



The general manager



The R&D sales OEM

Structure (Dept.)

Administration, Tmall:82% Design, Sales operation, procurement inventory and logistics, Aftersales service

Development

Marketing channel

JD:12% WeChat mall:5% Offline:1% 5.00% 1.00%

12.00% 82.00%

Better design

41 operational products:

Achieve over 50% gross profit Annual sales growth rate: 30% **2020** Double **11** Day

A Fine Event

The order > the actual stock

The order > Urgent stocking

Failed to deliver the goods in time→A fine of ¥193,300

What we should do:



- i . Clear and complete process
- ii. New information system



Politics

Three-Child Policy



Decision on optimizing Fertility Policies and promoting long-term balanced population development

The number of new births increased by more than 1 million

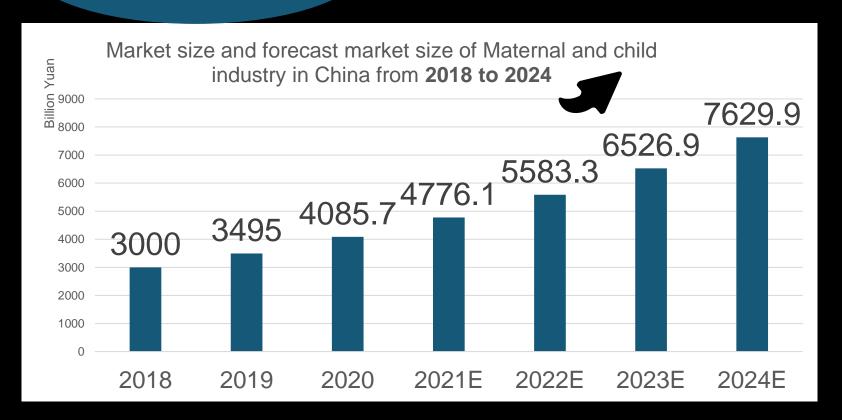


An average annual increase of 800000 newborn population

Resources: Decision of the CPC Central Committee and the State Council on optimizing Fertility Policies and promoting longterm balanced population development [J] Bulletin of the State Council of the people's Republic of China, 2021 (22): 4-8

Economy

Demographic Dividend



Insights



In 2020, the market scale of maternal and infant industry has reached **4085.7** billion yuan. It is expected to reach **4776.1** billion yuan in **2021** 7629.9 billion yuan in 2024 PEST→The post-90s become the main force of consumption in the industry, and the new consumption behavior have been generally improved.

Society





Information-based life service and consumption concept

Traditional parenting experience and parenting methods

Insights



Stimulated by policy factors such as liberalization.

of fertility.

PEST \rightarrow The technical environment of FS is to improve the consumer experience through the intelligent integration of products, channels and services.

Technology

Technological Progress



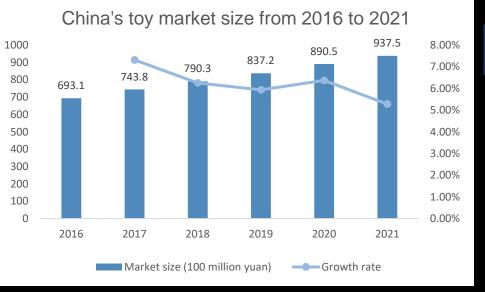
- 1. Refined operation of consumer groups
- 2. Pre sales, after-sales and additional services
- 3. Supply chain anagement

Integrate online and offline channels, and improve the consumer experience through the integration of products, channels and services.

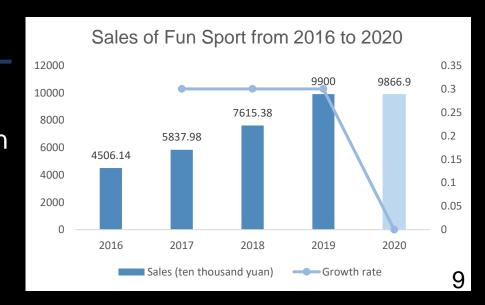
The domestic toy market has a broad prospect, and Fun Sport are developing rapidly.

The scale of Chinese toy market is increasing year by year, and the market demand is large.

The sales of Fun Sports companies are on the rise in recent years.



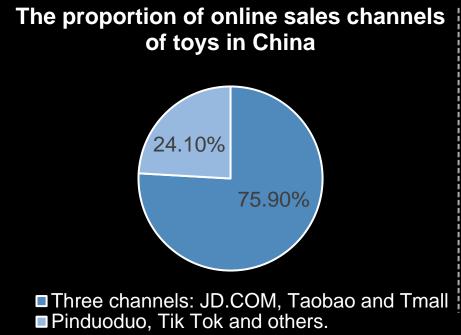
Toy industry concentration is low, the degree of industrial cluster is more obvious.

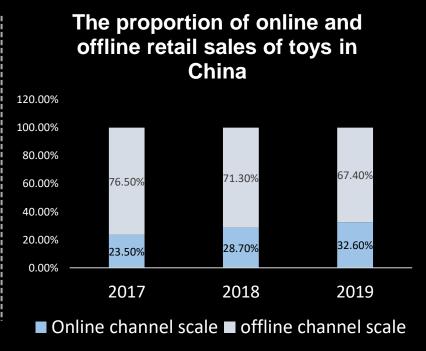


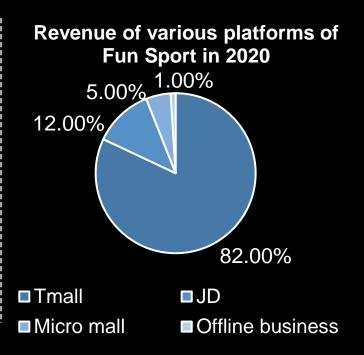
The scale of online sales is gradually increasing & online sales are the focus of Fun Sport.

4

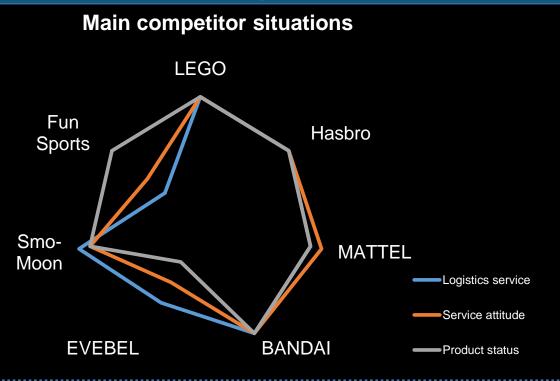
With the rapid development of domestic e-commerce, e-commerce channels have become an important sales channel for domestic toy enterprises.

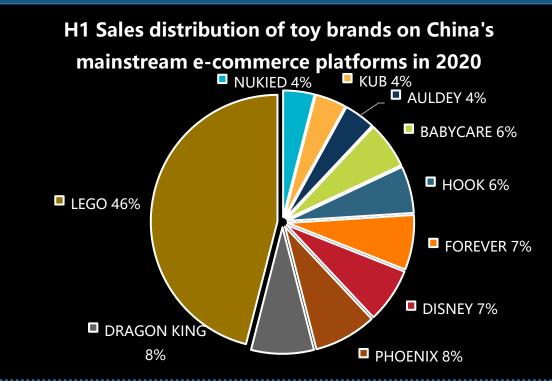






The industry is highly competitive, and interesting sports logistics and services still need to be strengthened to enhance competitiveness





- The competitive landscape for Fun Sports is grim.
- Domestic and foreign competitors are are highly competitive.
- As can be seen from the figure, there are still major problems in logistics service and service attitude of Fun Sports.







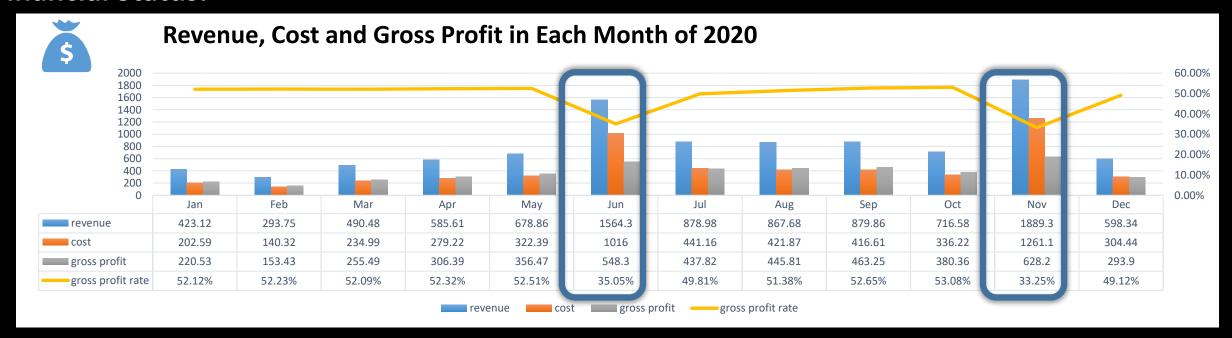








Financial Status:



Direct reasons

Underlying causes

OEM (contract manufacturer)

- 1.Weak bargaining power
- 2.No competition mechanism (Large products)
- 3.OEM increases processing costs

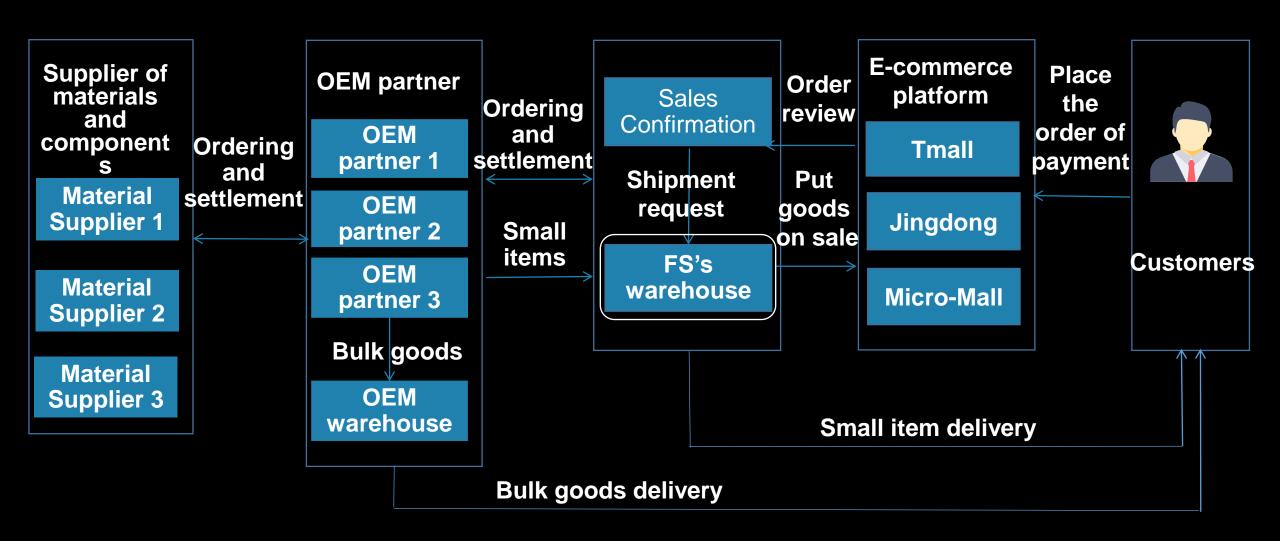
- Warehouse operation process
- Information sharing with OEM
- Imperfect information system
- Multi platform inventory inconsistency

Next part!



Overview of FS current warehouse management and operation process

Case Overview



Warehouse operation process → The frequent receipt of goods makes stock in operation nonstandard and the accounts inconsistent with the facts.

Stock in



Storage



Stocktaking



Stock out



Return and exchange

Cause path:

Multiple receiving and shipping channels

Peak period:

- The warehousing operation is not standardized.
- The quality of returned products is **not** clearly distinguished.
- Lack clear system records



Discrepancy between account and reality

Frequent receipt

- Purchase warehousing
- Return warehousing

Process of Stock in: 3

Before:

The procurement department may have insufficient review.

During: •

The receiver of interesting sports did not carefully check the details.

After:

The receiving clerk failed to ensure that the accounts and goods are consistent.

**Reason code	1.Holes 2.Dirt marks/oil stains 3.Fabric/Yarn detects 4.Broken/runoff/skipped stitches 5.Twist seam 6.Printing defect/shrinkage							
COUNTRY	FACTORY	BUYER	Style NO	Color	NO SIZE	TOTAL	Reason(refer to reason code)	
VIETNAM	нннн	PINK	8019	WHITE		2,400	Hole and stain	





Warehouse operation process → The unreasonable storage of goods leads to no place to put, and the storage efficiency is low.

Stock in



Storage



Stocktaking



Stock out



Return and exchange

Cause path:

- Lack clear regulations
- Unified standards



- 1. Goods being nowhere to be placed.
- 2. Low efficiency of products entering and leaving the warehouse.

Unsalable overstocked products:

Causes:

- (1) **Procurement** problems: Information not synchronized
- (2) New product stock problem:

Inaccurate sales forecast

- (3) **Quality** problems:
- (4) Warehouse management problems: Inexperienced

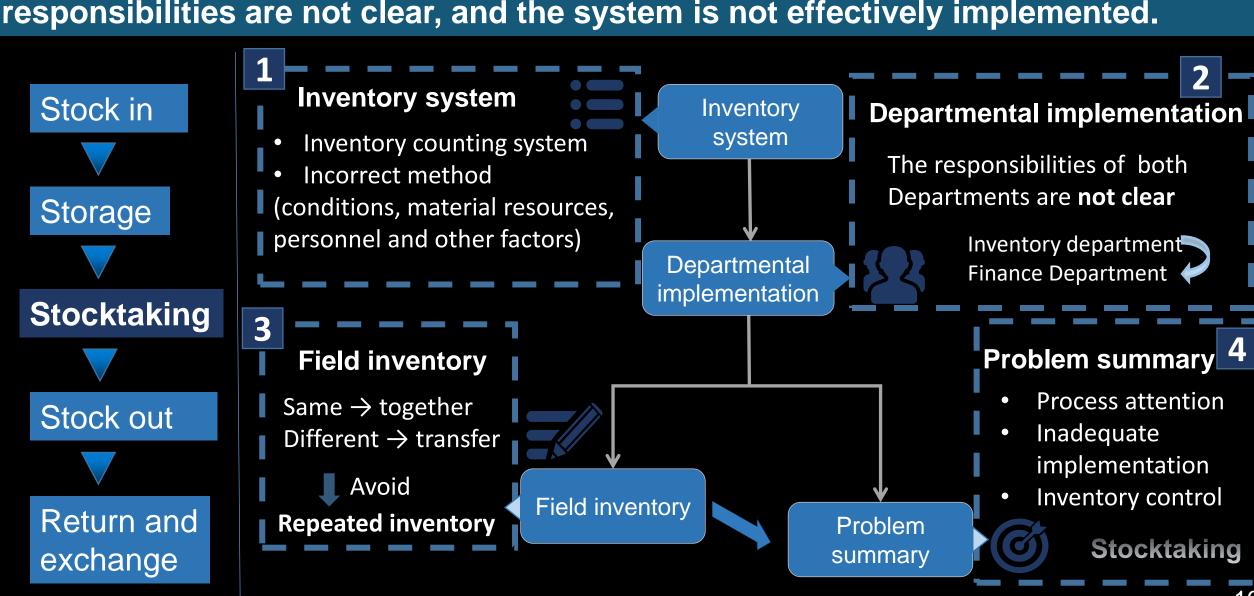
Unable to provide suitable suggestions

Loopholes:

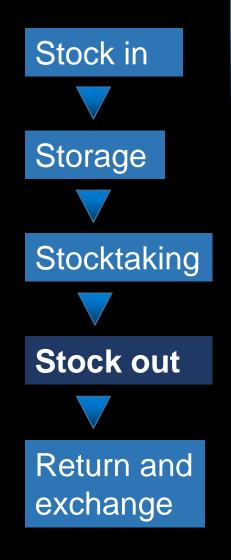
- lack of specific management measures
- small space, but serious backlog

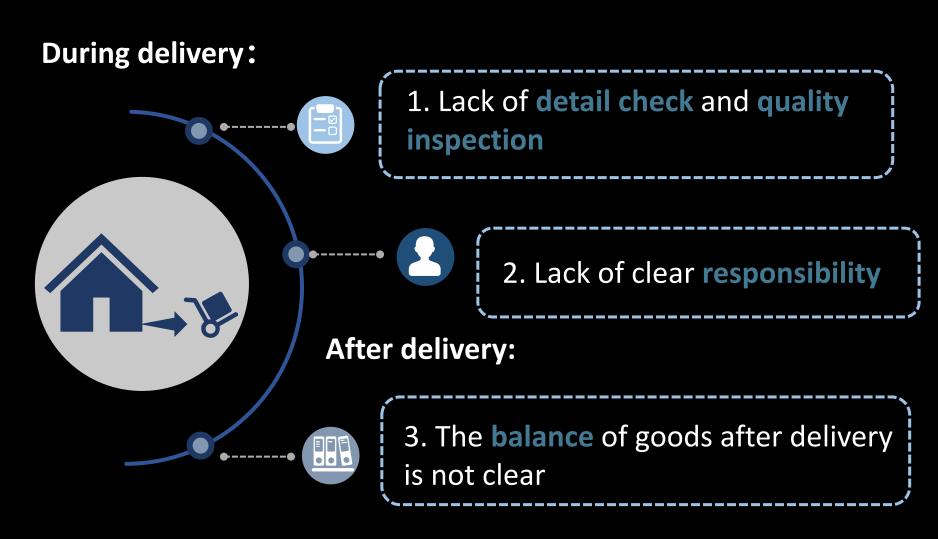
Aftermath:

- occupation of funds
- occupation of warehouse space and human resources
- the **profitability** of enterprises



Warehouse operation process → The balance of goods is not checked accurately, and the accounts and goods are inconsistent.





Warehouse operation process → Lack of effective management, inadequate tracking of repair status, and the returned goods are not recorded in time.

Stock in



Storage



Stocktaking

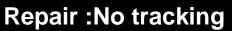


Stock out



Return and exchange

System management



- reasons for commodity maintenance
- corresponding number of maintenance consumables
- 3. maintenance time of each commodity
- 4. real-time progress of maintenance

Registration procedures

Not recorded in time

Problems:

- 1. distribution of maintenance consumables for defective parts
- 2. not ensure the completeness of parts
- → unreasonable situations:

the parts of other defective products will be directly removed for replacement

Return and replacement



Lack:

- 1. specific process of return inspection
- 2. allocation of human resources

Aftermath:

non-standard operation of the warehouse keeper → lack of strict inspection

OEM communication



Ineffective communication

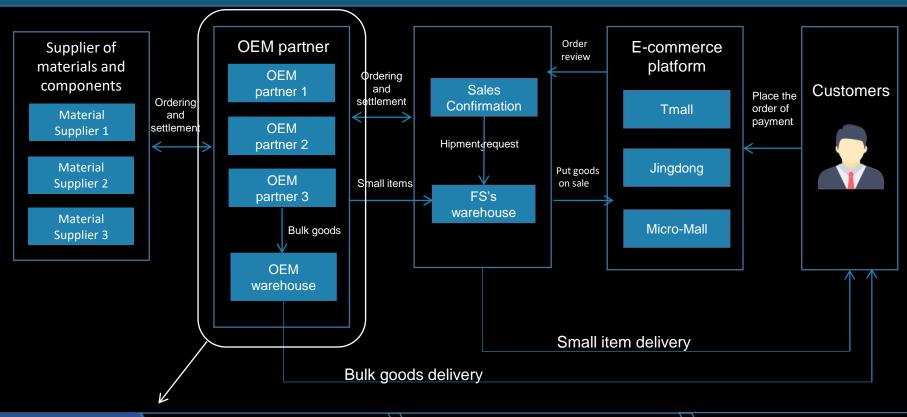
Status:

- returned goods are directly sent back
- not accurately followed up after-repair
- Information communication is not smooth enough

OEM

Fun Sport

without



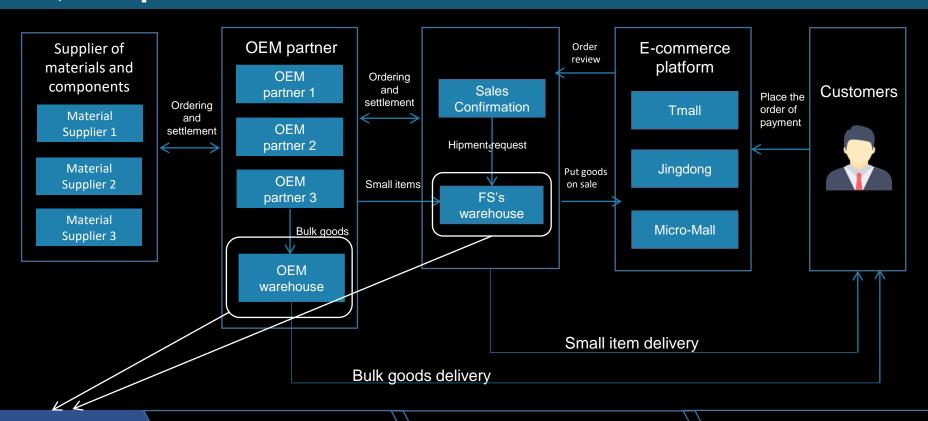
Problems in the inventory management of the OEM:

i. The company cannot detect the OEM inventory in real time.

ii. The OEM warehouse data sharing update is not timely, and the information communication is not smooth.

iii.Inventory and product quality management control is not in place, affecting the enterprise reputation and gross profit

The backward inventory system is reflected in the return and exchange, contract manufacturer, and process record solutions.



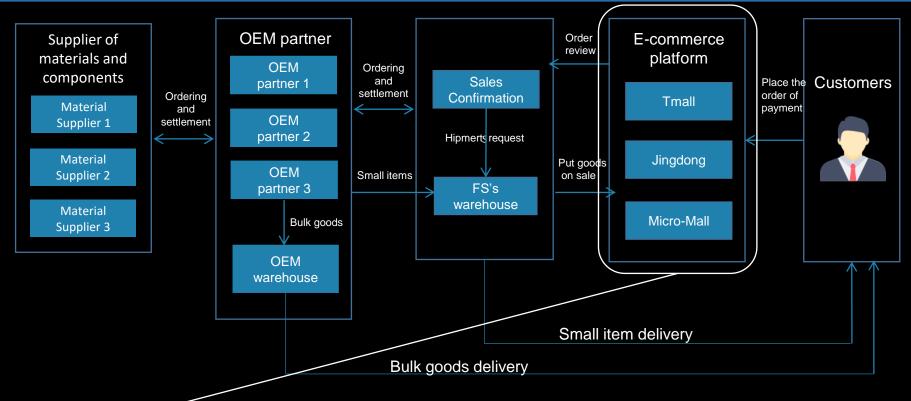
Inventory system cannot meet business require ments:

- i. Unable to reflect the condition of repaired and defective products
- ii. OEM data cannot be synchronized

iii. Lack of clear records of each process

Case Overview

The number of goods on each platform and the actual inventory quantity cannot be updated and synchronized in real time, which can easily lead to oversold.



The platform's loading quan -tity is out of sync with the actual inventory quantity update:

i.The current information management system is lagging behind.

ii. Lack of effective inventory synchronization.

iii. It is easy to oversold and lead to large fines.



Strategy 1 → The products shall be inspected before warehousing and defective products that meet the standard shall be warehoused.

Process—Stock in



Logistics Department: transferred goods



Quality inspection department:

check the quality of materials

qualified



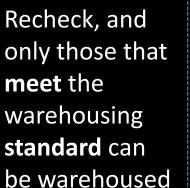
Inventory Department:

store the inventory by category and register the receipt



Financial department:

handle relevant business according to the original vouchers







Insights:

Inspected before enter



Qualified goods

can be stored



Defective product

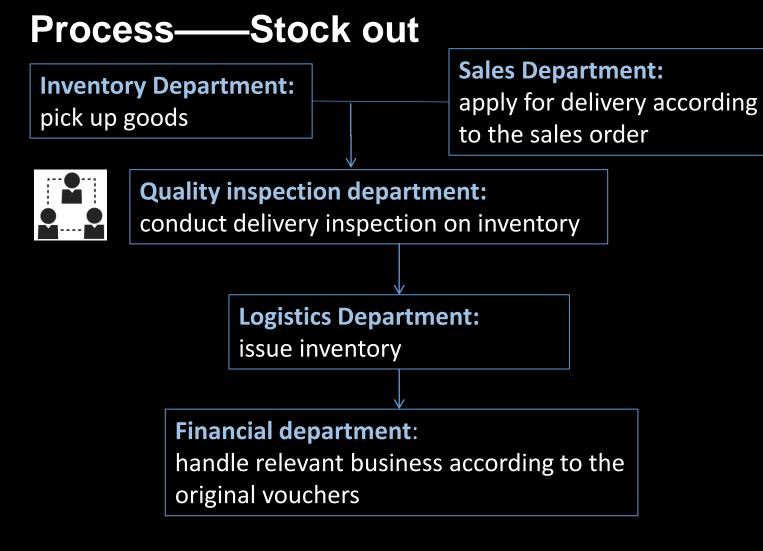
1.recheck

2.find out the reasons

Bookkeeping after receiving the certificate.



Strategy 1 → Check the type and quantity of goods to be delivered according to the plan, and handle the inventory delivery registration after there is no error.





Insights:

- **Check** the variety and quantity and handle the inventory delivery registration after there is no error.
- The delivery procedures can be handled only after passing the inspection.



Strategy 2 → Avoid covering and crowding of goods stacking and negligence in handling unsalable and overstocked products.

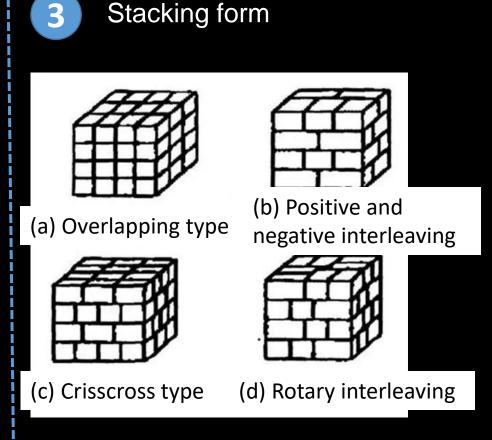
Storage method

- Stereoscopic storage
 - make full use of the storage space
 - adopt threedimensional storage.



- Stacking distance
- Keep proper width and distance Improve the efficiency





Strategy 3 → Establish a sound inventory check system, and pay attention to the inconsistency between accounts and facts in the inventory check.

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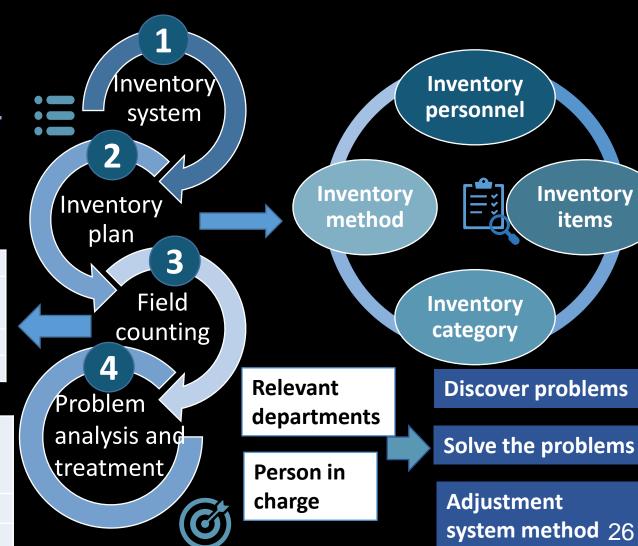
Stocktaking

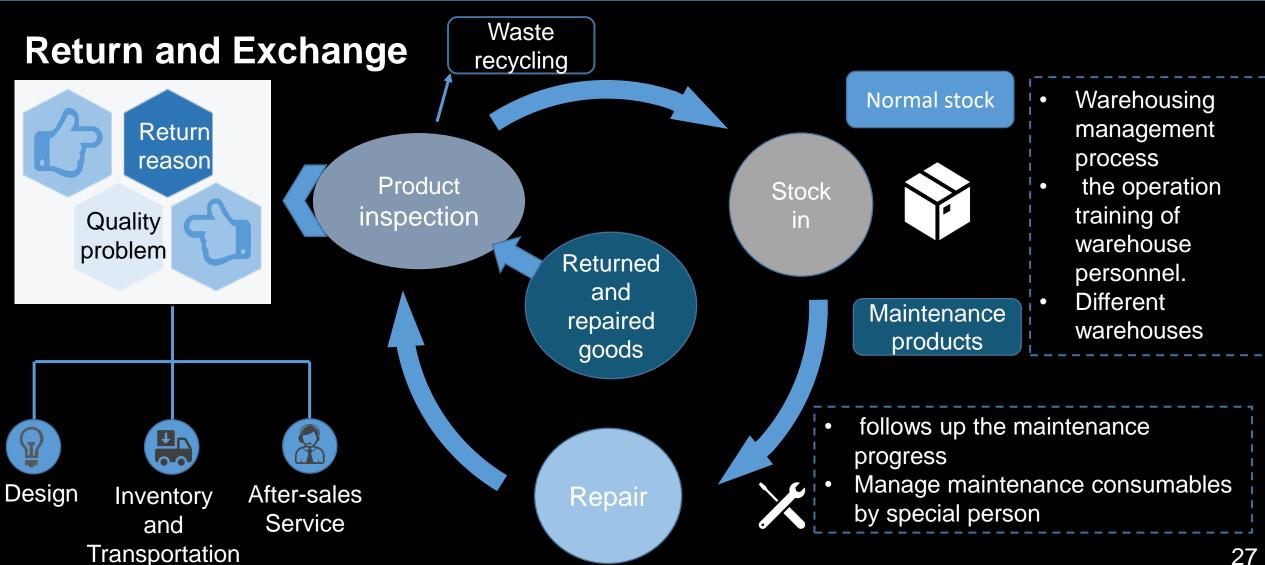
- Regular inventory + irregular inventory
- Jointly formulated by all departments

Excel: (inventory counting details)

		Spot che	Sub Ledger registration			
Number	Location	Inventory type	specification	Amount	Unit Price	Total

COIIL.			
Inventory item list quantity	Actual inventory quantity	Difference	Reasons for discrepancy and responsibilities







Overview of warehouse management issues and Strategies.

Key Issues:

Stock in and out

Inconsistent accounts and facts

Storage method

Warehouse placement problems

Inventory mechanism

System implementation and control

Returned goods

Inadequate tracking and Untimely entry



- Scientific management
- Clear and product warehousing specifications
- Stereoscopic storage
- Stacking distance
- Stacking form

- Multi-sectoral collaboration
- Detailed inventory plan
- Problem analysis and solving

- **Product inspection**
- Rigorous warehousing process
- Follow-up maintenance status

Strategy 5 → With OEM >> Unify the voucher information with the OEM and formulate clear inventory management regulations.

Unified basis:

FS shall provide vouchers for the **OEM** (Original Equipment Manufacturer) on the unified basis for inventory warehousing and delivery.

Inventory change information and relevant basis of the day



Share the sales order quantity, return and exchange quantity and other information

Check:

- The Company shall improve the inventory management regulations.
- At the same time, for the goods stored OEM, the inventory management regulations shall be determined in consultation with the OEM.

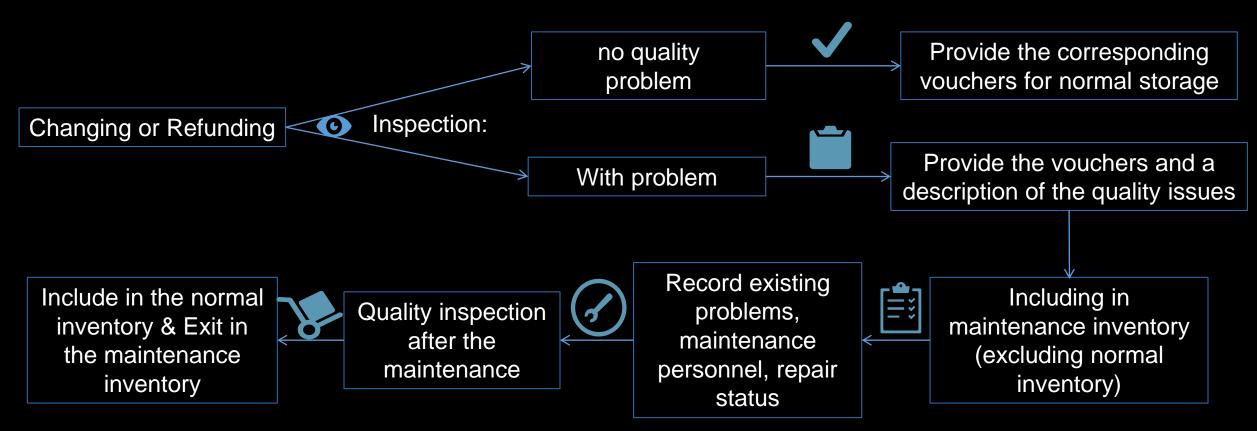
Distribution

The inventory work is mainly responsible by the Inventory Department, assisted by the accountant (Finance Department): Make plans to carry out inventory inventory of OEM regularly and prepare inventory form.

PS: Improve the auxiliary: irregular inventory inventory and inventory personnel rotation system

Strategy 5 \rightarrow With OEM >> Improve the return warehousing procedures, add personnel to allocate maintenance consumables, and eliminate problems.

3 System perfection: Set up the maintenance situation record section:



Strategy 6 → With OEM >> Recommended supply chain inventory system:

To OEM:

A more complete inventory management information system



- Take stock of OEM invent ory and **confirm** quantity
- Accurately **follow up** the incoming status of return ed and repaired goods

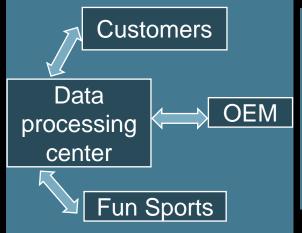
We recommend:

Information is fed back to Fun Sports in time through Supply Chain Inventory **Management System.**

Supply chain inventory management system

An information management system software used to dynamically track inventory status.

- Upstream and downstream in-depth cooperation to achieve information sharing
- Centralized information exchange mode



The data center can:

immediately notify the collected inventory information to other enterprises in the supply chain Result: adjust inventory and production in a unified and timely manner.

Strategy 7 → with OEM >> Strengthen the management's internal control and pay attention to the product quality control produced by the OEM.

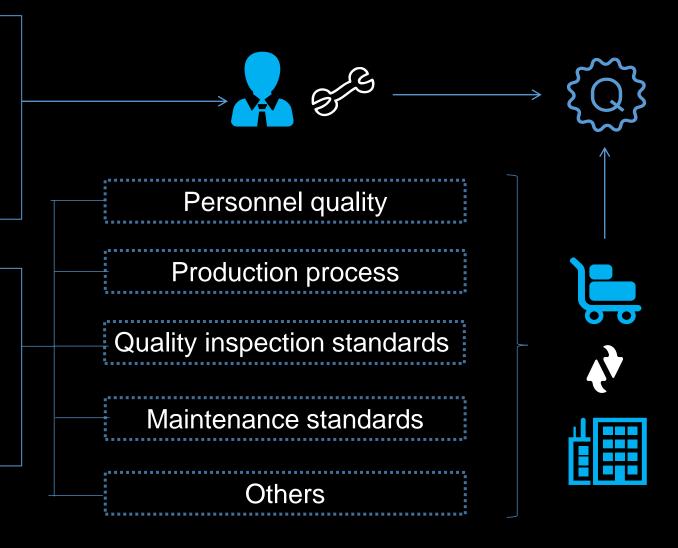
- The company's senior managers strengthen the importance of product quality control and internal control system.
- Strengthen the control of inventory product quality.

The company and OEM



strengthen quality control

reduce product workmanship defects



Expected results

Strategy 8 →Optimize the management information system and reasonably set up sales inventory.

Optimize the management information system: Centralize the inventory information of all warehouses into the information system, then calculate the available inventory and synchronize the sales inventory to the sales platform.

Information System

O2 Physical inventory calculation

O3 Sales inventory calculation

O4

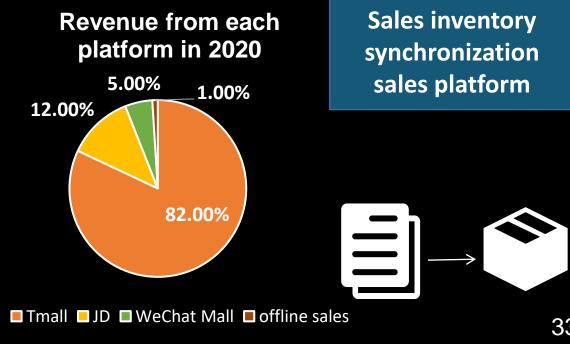
Available Inventory = Physical Inventory - Sales inventory calculation

O4

Sales inventory - Sales i

Pre Occupied Inventory - Locked Inventory Reasonably set up sales inventory:

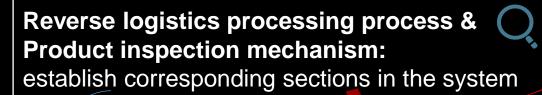
In order to prevent overselling, inventory settings are more than 100% in principle, but according to actual business needs, virtual inventory can be reasonably set, for example, companies can add additional orders depending on the situation to ensure maximum sales.



Strategy 8 \rightarrow Ensure the synchronization of sales inventory information on each platform.

Sales inventory synchronization The synchronization frequency/ 1. Synchronize whenever inventory **System pressure** changes 2.Periodic synchronization 3. Synchronization when below the lower **Oversold risk** threshold 4.Pause synchronization

Considering system pressure and inventory accuracy → Way 2 or 3 is better suited for Fun Sports.



Solution

Detailed inventory management specifications:

stock in, stock out, return and exchange procedures, etc.

System log in inventory system:

Record every inventory management operation and change.

Negotiate with **OEMs**: OEM open some of the interface The enterprise can obtain the inventory data of the OEMs.

Insights

For return and exchange:

- 1.Record the reason
- 2. The quality inspection

Qualified: Warehousing

Unqualified

Recycle:

- 1.Parts recovered and recorded
- 2.Record the problem and access to recovery stock

Repair:

- 1.Record the problem and access to maintenance inventory
- 2. Maintenance and Follow up maintenance status
- 3. Qualified and released from maintenance stock

Requirements → Basic system function : Management of stock in, management of stock out, basic data management

Management of stock in

It needs to be able to: complete the warehousing management process.

Projects:

- Serial number
- scan the code
- Product basic inspection
- Registration information
- Arrange the location
- Maintenance operations

Management of stock out

It needs to be able to:

Complete the process of warehouse management. Improve the information sharing degree of inventory status.

Projects:

- Scan the code
- Product basic check
- Registration

Basic data management

The main purpose is to solve the proce ss operation in the non-standard and tedi ous problems.

It plays an auxiliary role in the **developm** ent of various processes.

Projects:

- Add, delete, change, check the basic data in the database
- Information management of the ware house, inventory, enterprise staff

Data analysis

Requirements → The data statistical management and analysis requirements

(1) Serve the superior management personnel and regularly generate inventory statistics and reports.

(2) Provide data statistics services that are convenient for managers to grasp the current status of inventory and predict inventory demand.

The data statistical management and analysis requirements

Solve the problems of poor data analysis ability and low data exchange efficiency.

(1) Share inventory data with OEMs in real time.

(2) Multi-platform sales inventory synchronization.

(3) Real-time communication between departments.

Lean and efficient production planning, set sales targets, etc.

- Get a complete picture of inventory quantities and inventory status.
- Avoid oversold leading to fines.
- Improve the efficiency and quality of cooperation.

Data management

Requirements → **Inventory management requirements**

Data summary and query

Summarize the information in and out of the warehouse, determine the actual inventory, and the management personnel can query the relevant data.

Inventory

The warehouse manager can take stock of the inventory, and check and adjust the corresponding system inventory information.

Inventory management requirements

Inventory warning

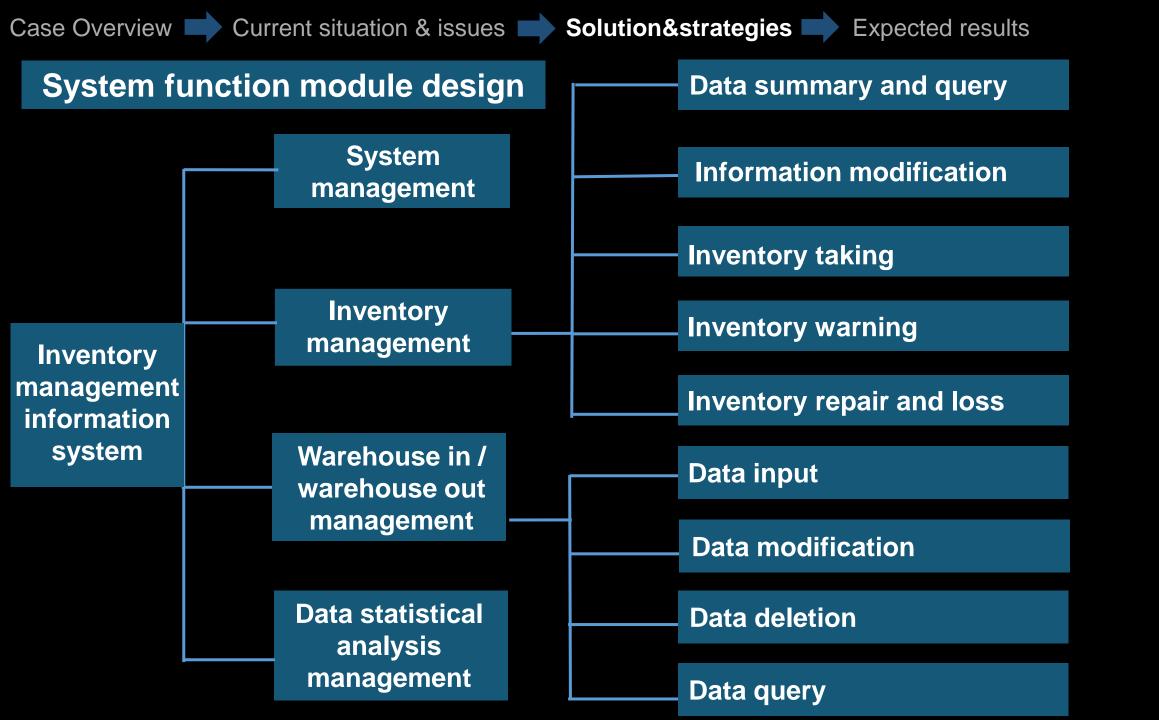
Remind the administrator to replenish when the actual inventory of the warehouse reaches the warehouse cordon.

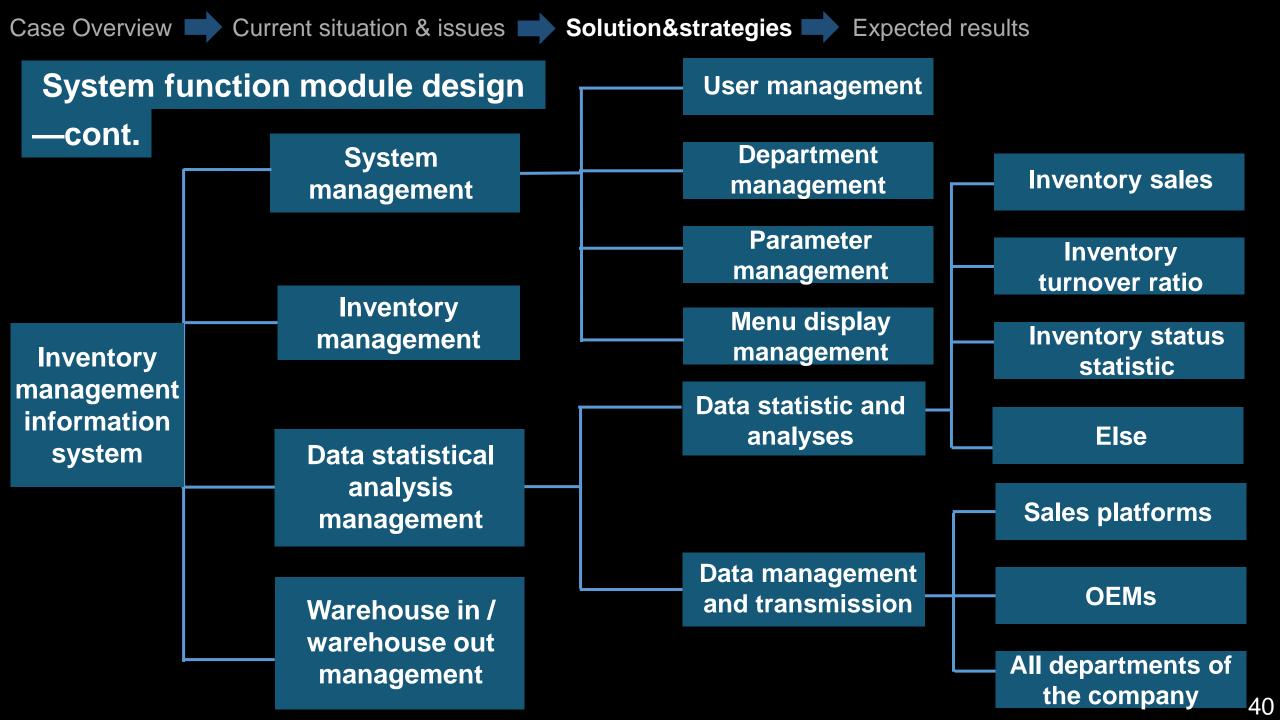
Set inventory status

Set the inventory status, such as pre-occupied inventory, so as to obtain the actual available inventory, which is convenient for each sales platform to synchronize.

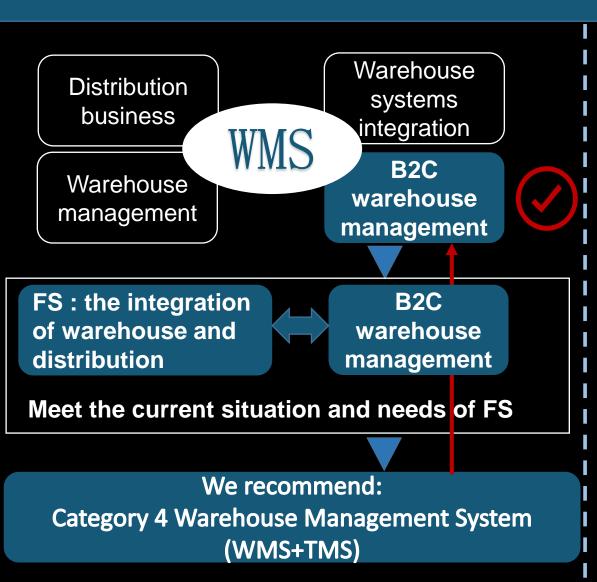
Inventory repair and loss

Record and update relevant data.





Select the purchased B2C inventory management system for it's "best positioned"



Independent development_

- 1.Meet unique needs
- 2. High matching
- 3. High flexibility
- 4. High density protect tion
- 1.Demand for more and better human resources
- 2.Risk of non-standar
- d development
- 3. Upgrade needs at any time
- 4.connect to other systems difficultly
- 5. Time consuming
- 6. Higher cost and risk
- 7.Lack of maturity, rigor and stability

Advantage

FS

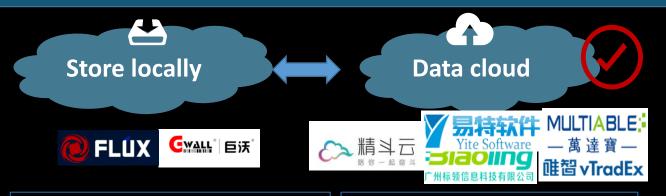
- 1.Small scale enterprise 2. Average fina
- ncial strength 3.Information
- system requir ements are ge
- neral
- We recomme nded:
- Purchase co mmercial sof tware packag

Disadvantage

Outsourcing

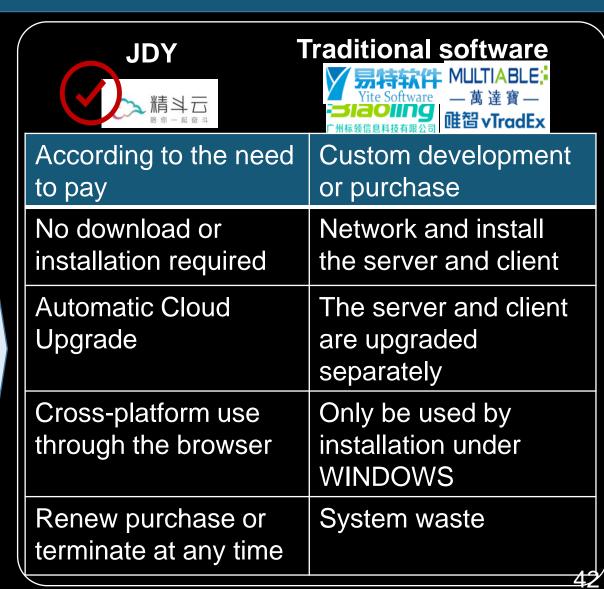
- 1.Short time
- 2. High maturity
- 3.Affordable
- 4. Open software interface
- 5.Professional and complete after-sales service
- 1. Less fit
- 2. Incomplete initiativ e in information const ruction
- 3. Risks in product selection
- 4. Risks in the supplier's operation

Choose JingCloud, the cloud system for it's "best positioned".



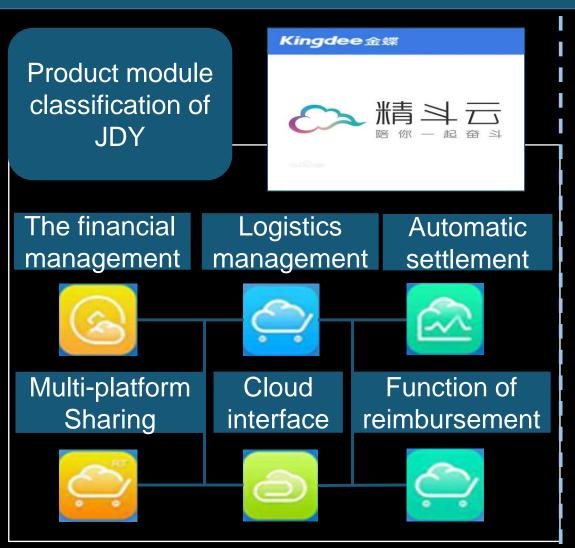
- Data is stored locally, making it more secure
- **High cost**
- More appropriate service
- Suitable for **customized** services of large-scale enterprises
- It's not cost-effective for start-ups like FS

- Data stored in the cloud, making it more convenient.
- Low cost
- The customer industry covers a wide range of fields and is universal
- Meet the functional needs of start-ups
- cost-effective





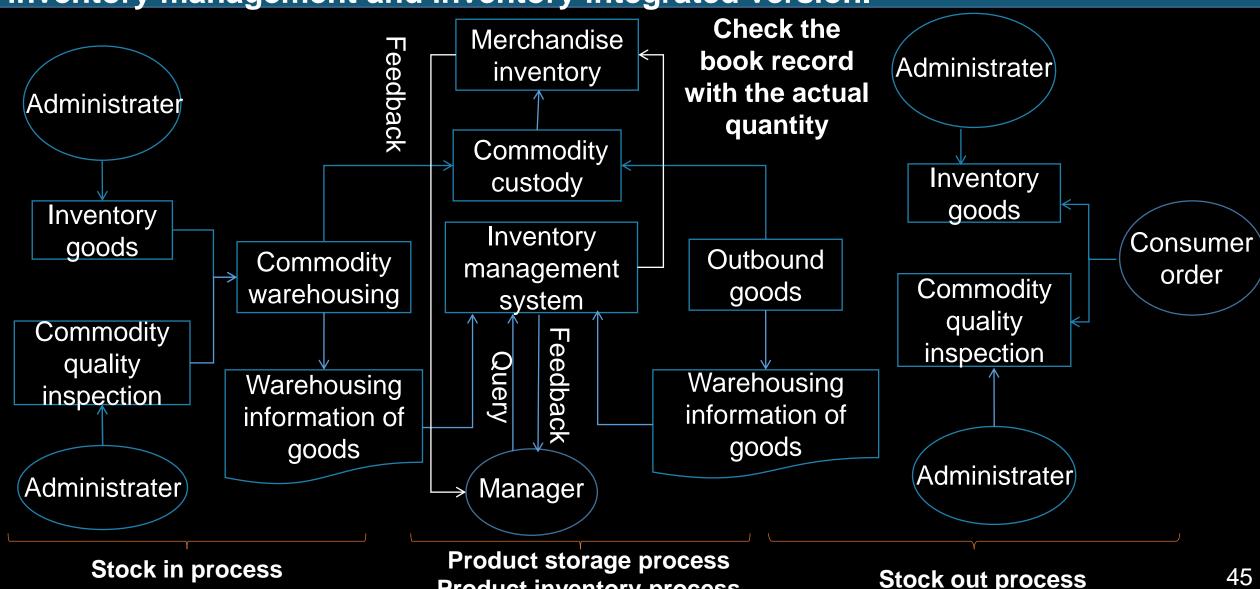
The bucket cloud function is in line with the needs of interesting sports.



Characteristics	Specific function	
Commodity characteristics management	Add auxiliary attributes according to the needs of the industry	
Multiterminal synchronization	Real-time synchronization: web page, APP, enterprise WeChat	
Master orders in time	Assist purchasing & reduce inventory overhang	
Customer churn warning	Grasp the operation situation of each platform	
Automatically generate business documents	Check for accuracy	
Standardize the process & strengthen internal control	Multilevel approval: perform boundary point operation confirmation	
Various management systems & multiple interfaces	Convenient: Expand system functions & Share data	

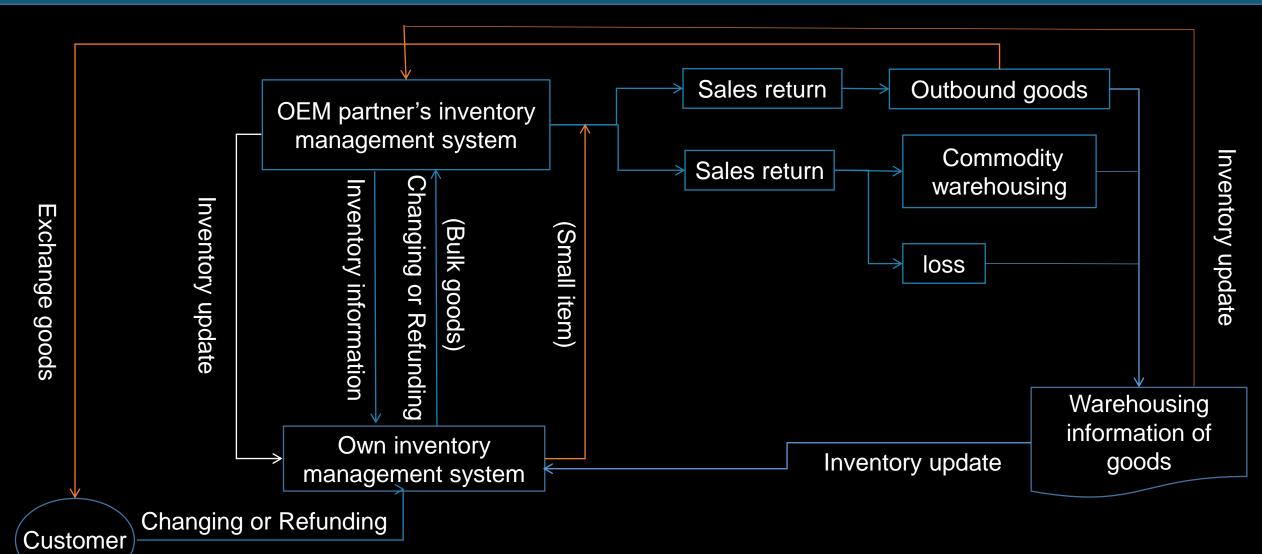


FS's improved inventory management business process - warehousing, inventory management and inventory integrated version.

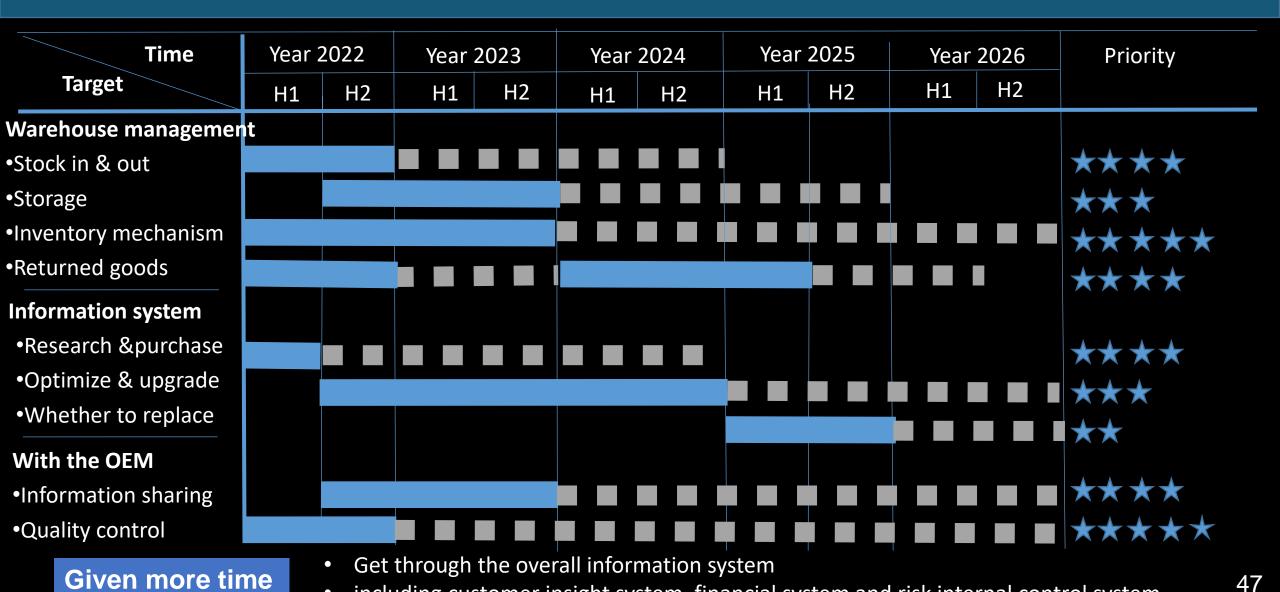


Product inventory process

FS's improved inventory management business process - return and exchange, with OEM information exchange.



Five years roadmap——Customized into FS according to research and analysis



including customer insight system, financial system and risk internal control system

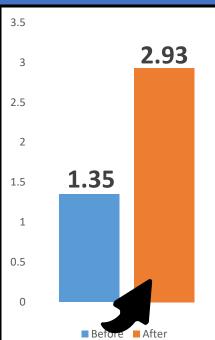
Warehousing capacity:

Matching ratio between account and reality

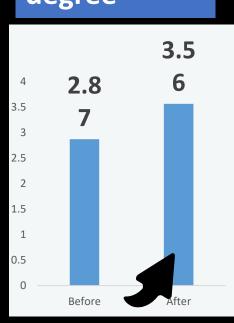


Management level evaluation:

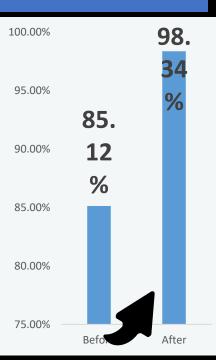
Information sharing degree



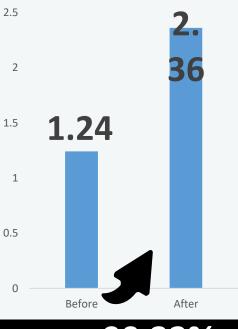
Operation specification degree



Customer satisfaction



Management decision support degree



7.85% 117.04% 24.04%

15.53%

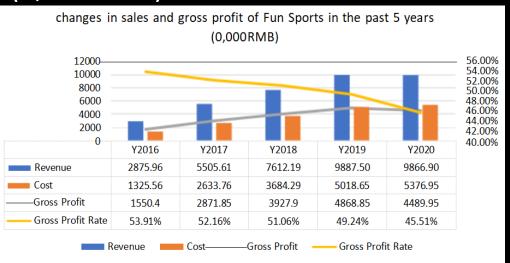
90.32%

Resourse: LV Chang Design and implementation of warehouse management information system for R & amp; D enterprise a

Appendix -- Benefits of informatization upgrading to enterprises & Combined with the actual financial situation

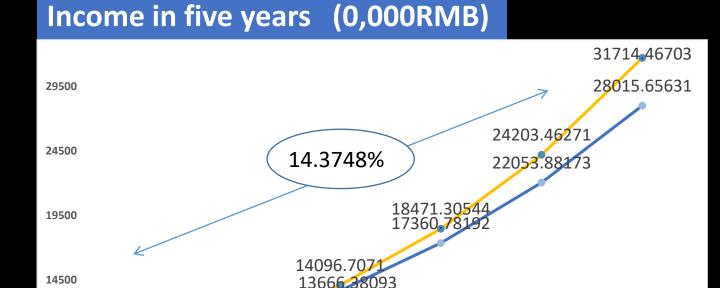
Review (before)

Changes in sales and gross profit of Fun Sports in the past 5 years (0,000RMB)



In 2020, the gross profit margin decreased **L** significantly!

Utility prediction of information investment on FS (after)



2022E

2023E

2024E

2025E

Resourse: Chen Lina Research on investment decision model of enterprise informatization project from the perspective of cloud service [D] Capital University of economics and trade, 2016

9866.9

2020

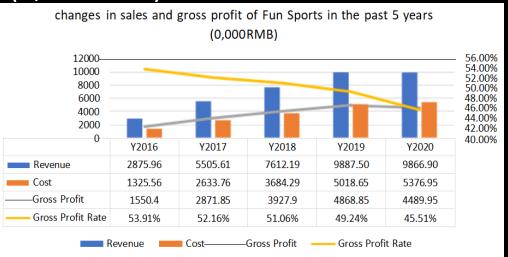
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2021E

Appendix -- Benefits of informatization upgrading to enterprises & Combined with the actual financial situation

Review (before)

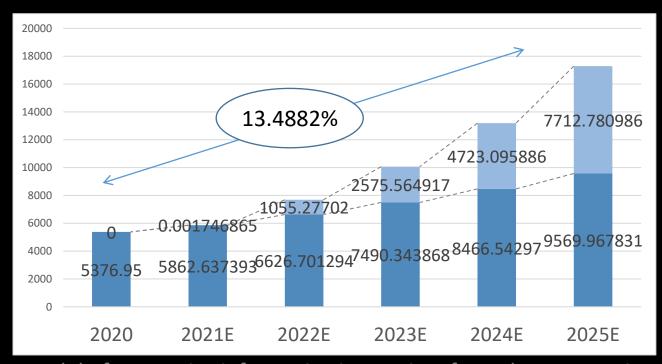
Changes in sales and gross profit of Fun Sports in the past 5 years (0,000RMB)



In 2020, the gross profit margin decreased **L** significantly!

Utility prediction of information investment on FS (after)

Cost&cost reduction in five years (0,000RMB)



Resourse: Chen Lina Research on investment decision model of enterprise informatization project from the perspective of cloud service [D] Capital University of economics and trade, 2016

Summary → Our report not only gives the measures to strengthen inventory management, but also gives effective suggestions for enterprise information system construction

Current situation & problem	Key strategies & initiative	Risk	Mitigation
 Board domestic market & e-commerce Exposed original problems Lack of inventory system management The information system can't meet the demand 	 Optimize business process Strengthen cooperation with the OEM Improve inventory management ability Update the information management system 	financial riskoperating riskPersonnel risk	complete planInternal controlinformationmanagement
 Current market situation Policy support Expansion of market scale The rise of e-commerce channels Inventory management problem 	 Formulate warehousing specifications and strengthen the training of warehouse management personnel. Collecting, checking and storing to prevent 	financial riskCash DeficitMistakes in asset management	 Rigorous risk- benefit estimation shall be made before the implementation of
 Unable to check the OEM's inventory and product quality Lack of systematic flow in and out of warehouse. Improper storage of goods 	 unsalable sales. Strengthen multi-sectoral cooperation Scientific inventory, special person in charge, solving omissions. Follow up the maintenance status in real time. 	 operating risk Error in internal management Internal self- 	the scheme.Set up beforebreaking, toensure the normaloperation of
Imperfect inventory systemImproper management of returned and repaired products	Information management system (IMS)Establish a central inventory system	stealing • System failure or malicious	enterprises.Formulatesupervision
 Information management system (IMS) Multi-platform inventory cannot be updated synchronously. 	 Establish system interface and share real-time data. Constructing departmental communication 	attackPersonnel riskImproper	systemClear jobrequirements
 The data between the enterprise and the OEM can't be shared instantly. The current inventory system is difficult to meet the needs of warehouse management. 	 channels Set inventory alert Establish inventory information records. Strategic decision support 	staffing • Unable to adapt to the position	 Establish network protection to ensure data and system security