

電子化企業整合作業

組別：第八組

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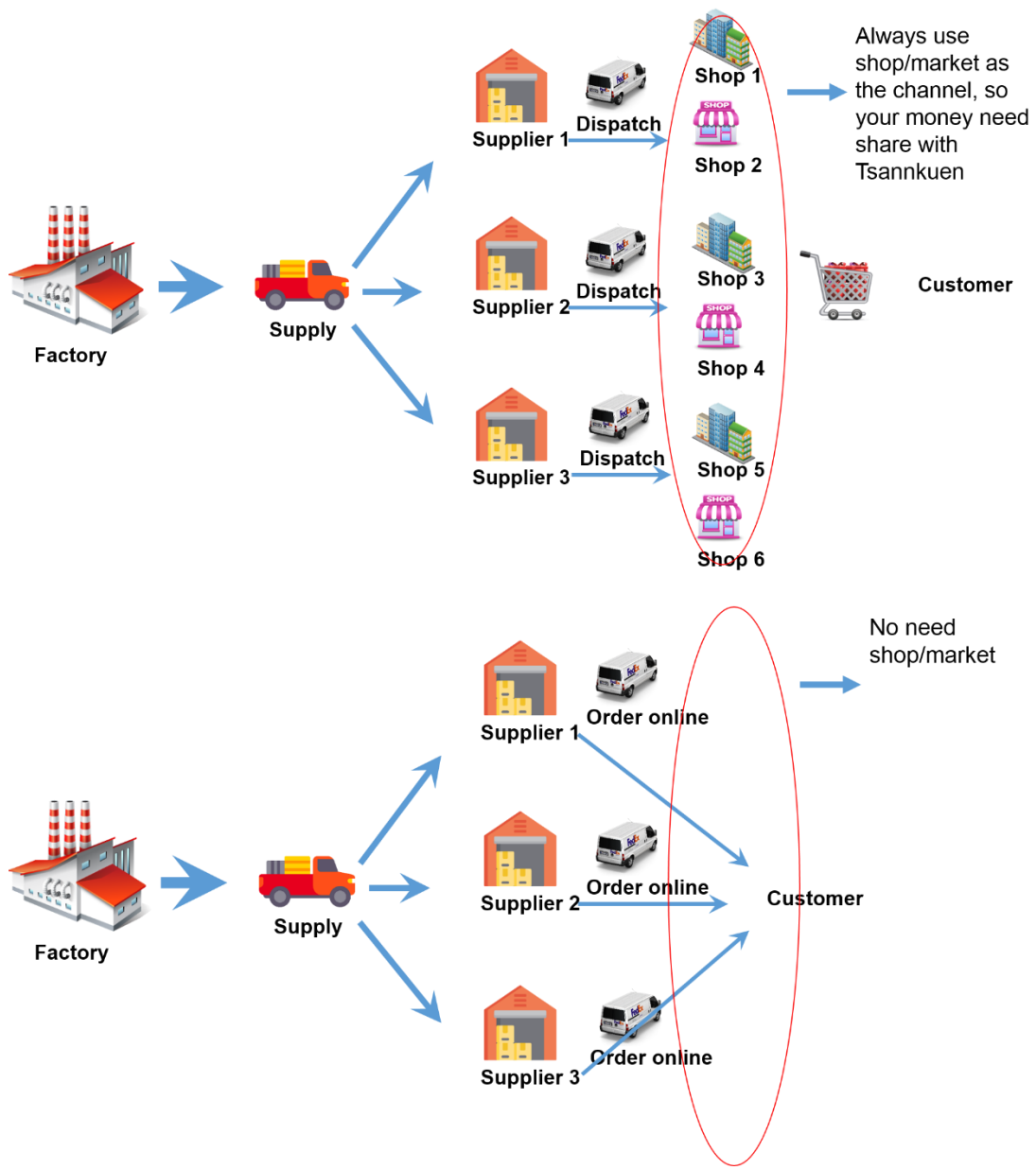
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# 1、 Introduction

In order to improve the business process model from the income project, so we choose the ideal home appliance supply chain as an example. Usually when you buy your new house you will naturally go to the supermarket to buy appliances even it's the 21st century yet. Image this even you are young people you live as old. So in industry 4.0 environment, the enterprise business process must be change. If the enterprise still uses the traditional business model, it will lose competitive from many computer enterprises. Our project aim at using INCOME to analyze the benefit differences in ASIS modes and TOBE models. And show this revolutionary change in the form of web pages. Hence our power-point includes 3 part, respectively is the INCOME ANALYZE, WEB ILLUSTRATE, and finally we will use the WEB SHOW the improvement.

# 1.1 Problem introduction



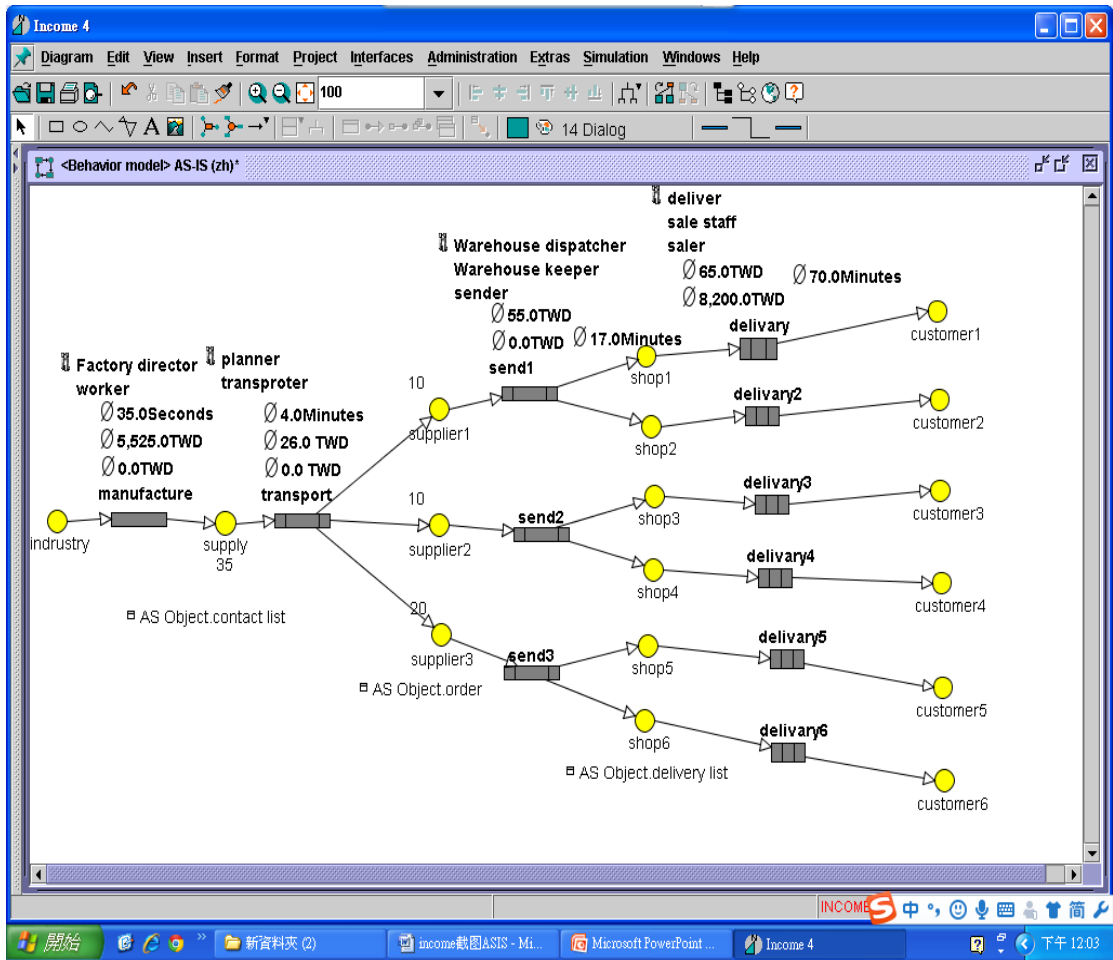
# 1.2 Solution



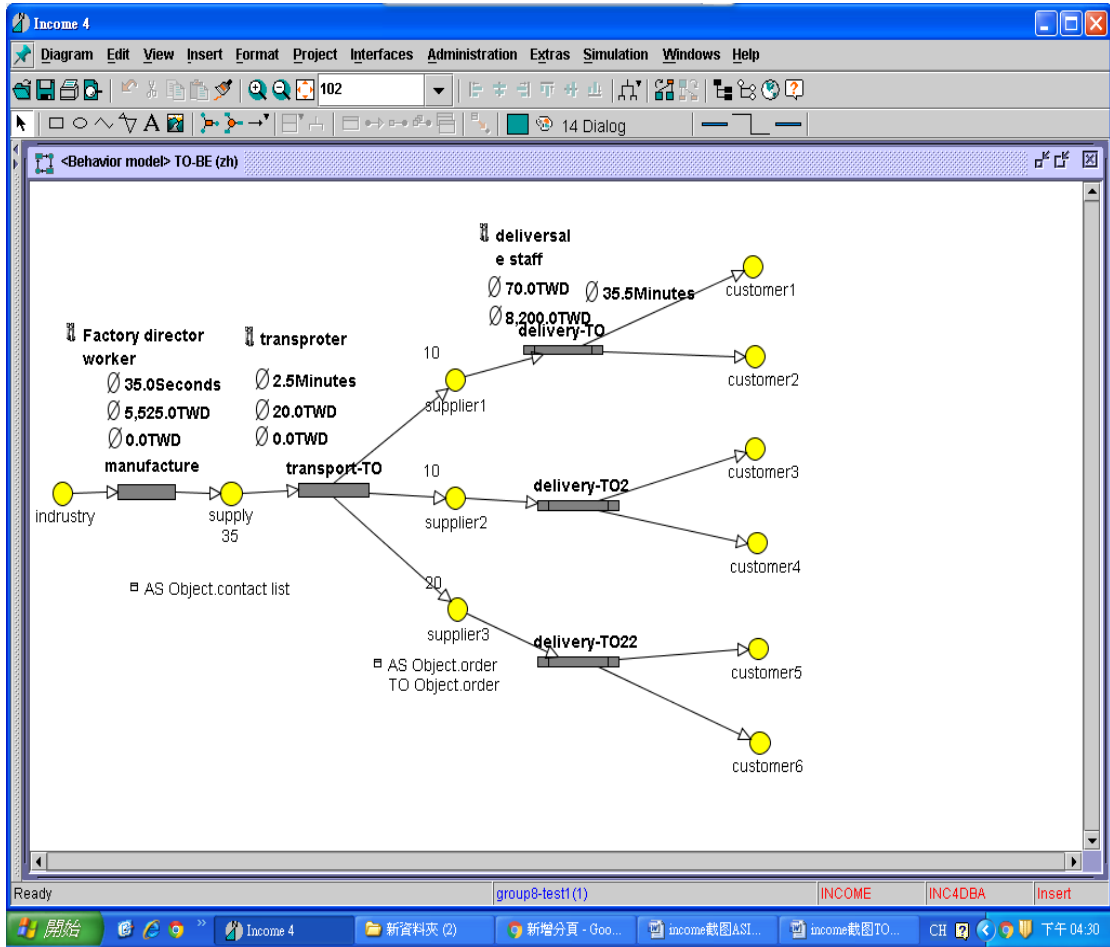
## 2、Income analysis

### 2.1 Behavior model

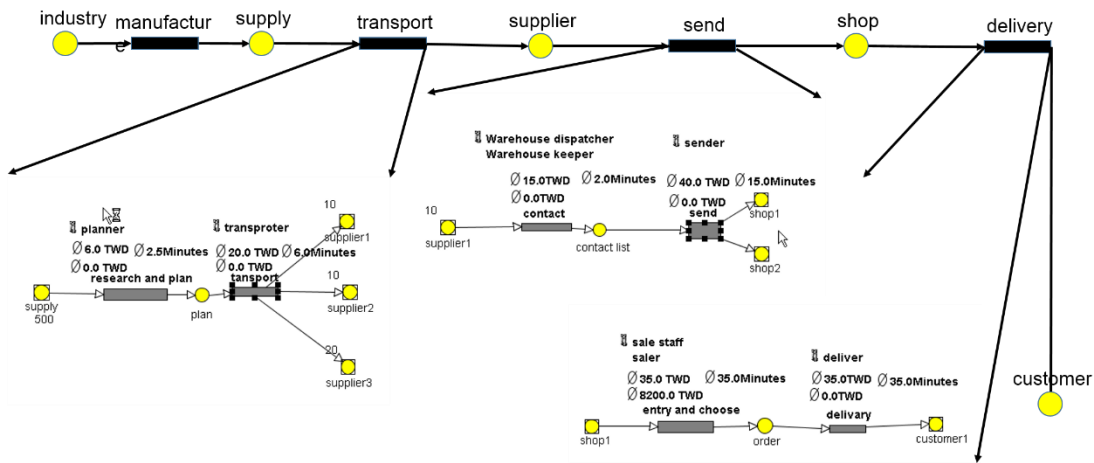
By using simple nouns and verbs to represent business processes ,  
Easy to understand and analyze the cost of the links and links that can be improved



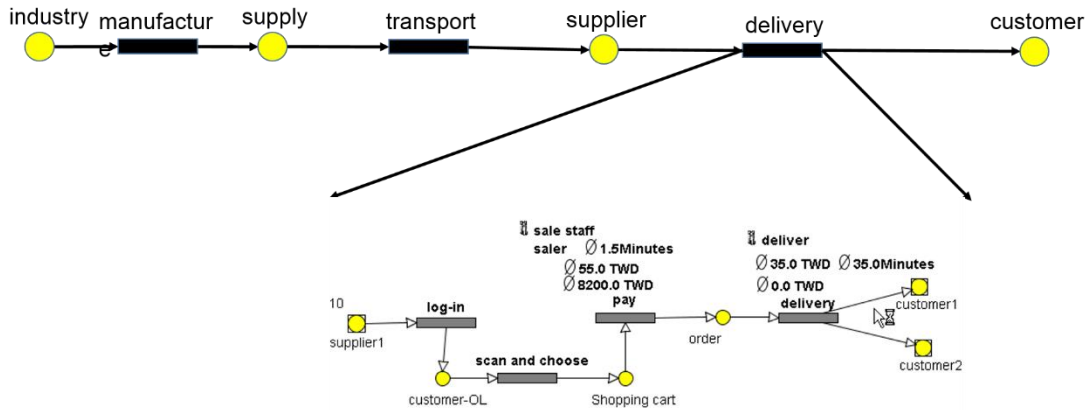
AS-IS



TO-BE



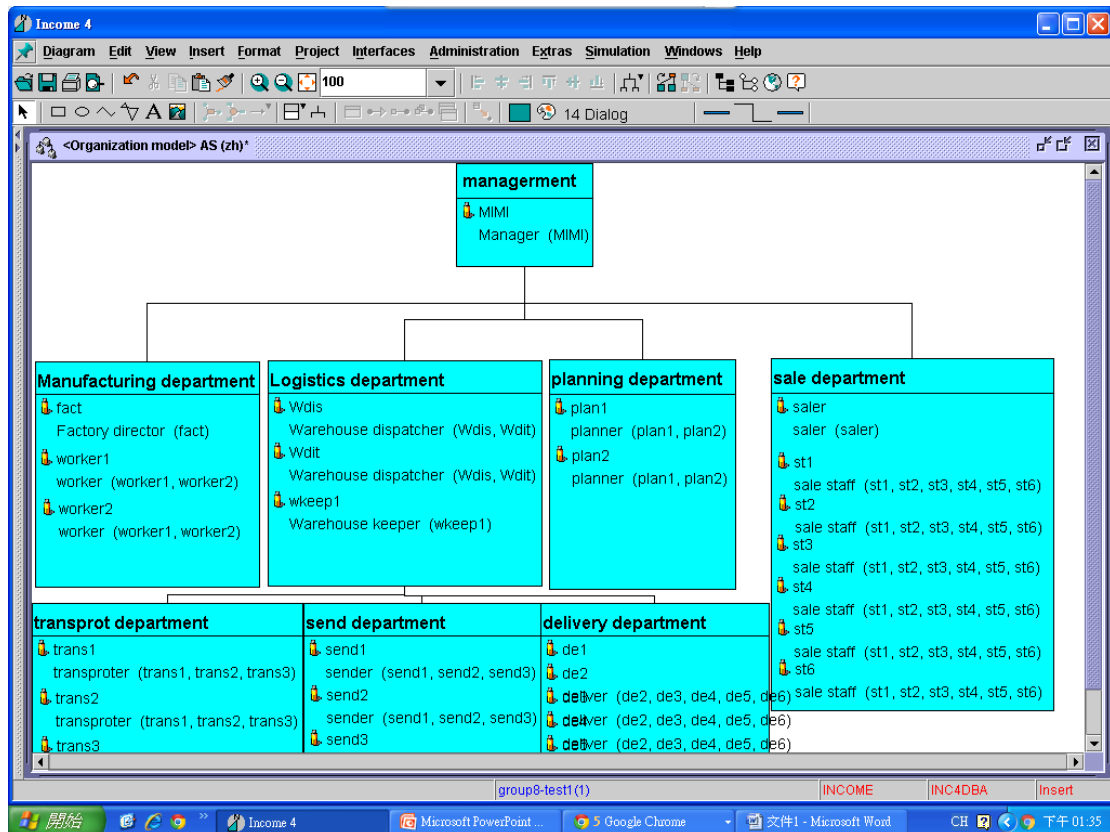
AS-IS(drill down)



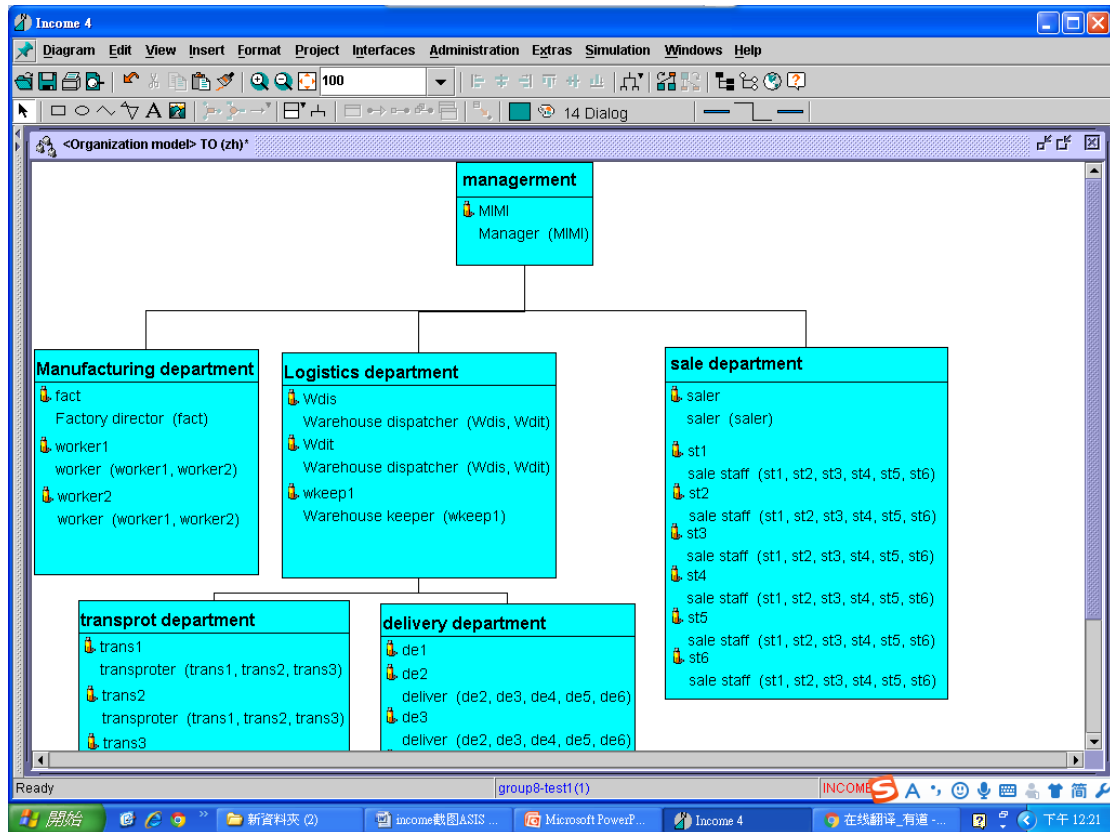
TO-BE(drill down)

## 2.2 Organization model

Organization model is used to demonstrate organizational structure, components of each department



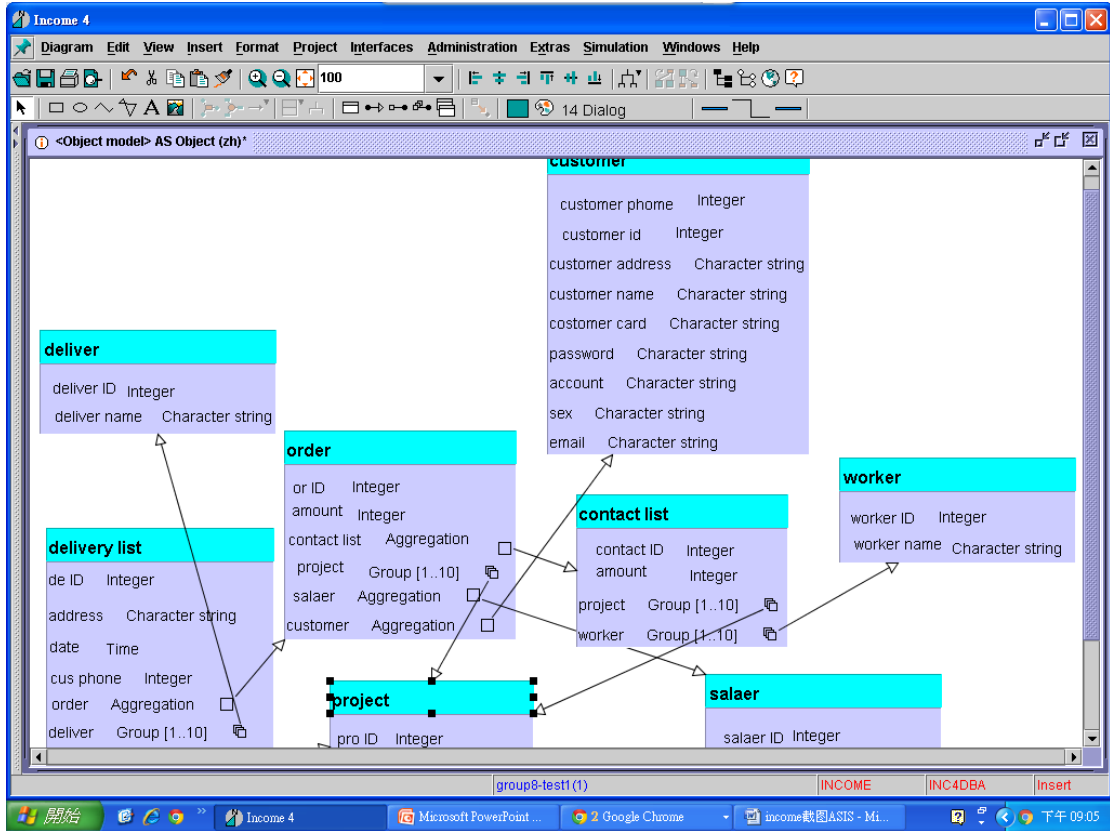




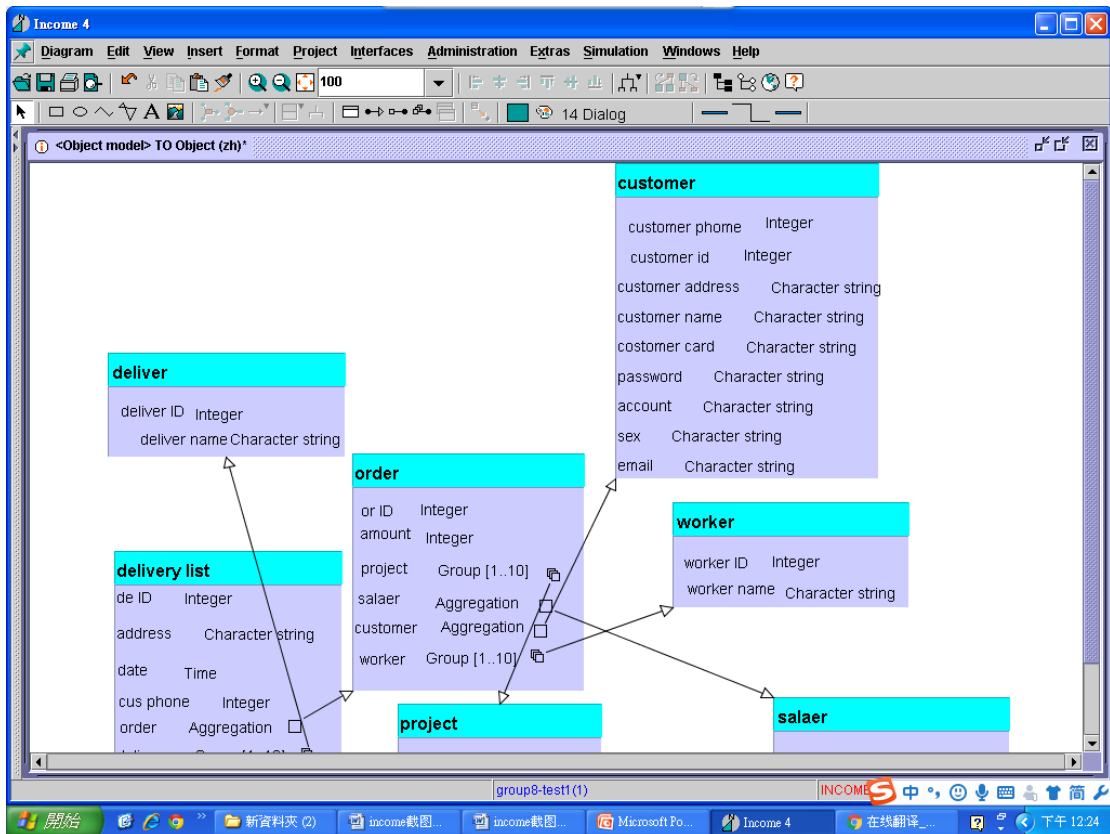
TO-BE

## 2.3 Object model

Object model is used to analyze attributes and elements to understand information delivery



AS-IS



TO-BE

## 2.4 Result

| project     | ASIS      |           | TOBE |          |          |
|-------------|-----------|-----------|------|----------|----------|
|             | cost      | time      | cost | time     |          |
| industry    | 30/sec    | 60sec     |      |          |          |
| manufacture |           | 552535sec |      |          |          |
| supply      | 6/hours   | 35min     |      |          |          |
| plan        |           | 61.5min   |      |          |          |
| transport   | transport | 202.5min  |      |          |          |
| sum         |           | 264min    |      | 202.5min |          |
| supplier    | 10/hours  | 2hours    |      |          |          |
| send        | contract  | 152min    |      |          |          |
| send        |           | 4015min   |      |          |          |
| sum         |           | 4517min   |      |          |          |
| shop        | 25/hours  | 35hours   |      |          |          |
| delivary    | choose    | 3535min   |      | 550.5min | pay      |
| delivary    |           | 3535min   |      | 3535min  | delivary |
| sum         |           | 7070min   |      | 3535min  | sum      |
| add         |           | 8200      |      | 8200     |          |

The screenshot shows a software window titled 'Overview' with a blue border. It contains a table with the following data:

| Activities  | Count      | Execution Cos... | Resource C... | Value Added (1)  | Times (Hours)  |
|-------------|------------|------------------|---------------|------------------|----------------|
| manufacture | 50         | 276,250          | 0             | 0                | 0.486          |
| transport   | 50         | 1,300            | 0             | 0                | 3.333          |
| send1       | 50         | 2,750            | 0             | 0                | 14.167         |
| send2       | 50         | 2,750            | 0             | 0                | 14.167         |
| send3       | 50         | 2,750            | 0             | 0                | 14.167         |
| delivary    | 50         | 3,250            | 0             | 410,000          | 58.333         |
| delivary2   | 50         | 3,250            | 0             | 410,000          | 58.333         |
| delivary3   | 50         | 3,250            | 0             | 410,000          | 58.333         |
| delivary4   | 50         | 3,250            | 0             | 410,000          | 58.333         |
| delivary5   | 50         | 3,250            | 0             | 410,000          | 58.333         |
| delivary6   | 50         | 3,250            | 0             | 410,000          | 58.333         |
| <b>Sum</b>  | <b>550</b> | <b>305,300</b>   | <b>0</b>      | <b>2,460,000</b> | <b>396.319</b> |

AS-IS

The screenshot shows a software window titled "Overview" with a close button in the top right corner. The window contains a tabbed interface with four tabs: "TO-BE: Overview" (selected), "TO-BE: Chart", "Resources", and "Resources Chart". Below the tabs is a table with the following data:

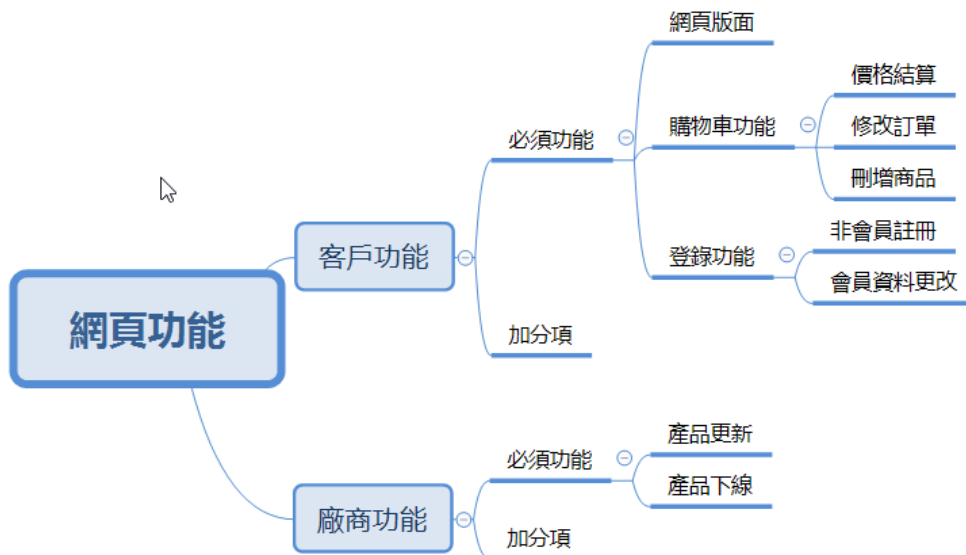
| Activities    | C...       | Execution...   | Resource... | Value Add...     | Times (Hour... |
|---------------|------------|----------------|-------------|------------------|----------------|
| manufacture   | 50         | 276,250        | 0           | 0                | 0.486          |
| transport-TO  | 50         | 1,000          | 0           | 0                | 2.083          |
| delivery-TO   | 50         | 3,500          | 0           | 410,000          | 29.583         |
| delivery-TO2  | 50         | 3,500          | 0           | 410,000          | 29.583         |
| delivery-TO22 | 50         | 3,500          | 0           | 410,000          | 29.583         |
| <b>Sum</b>    | <b>250</b> | <b>287,750</b> | <b>0</b>    | <b>1,230,000</b> | <b>91.319</b>  |

TO-BE

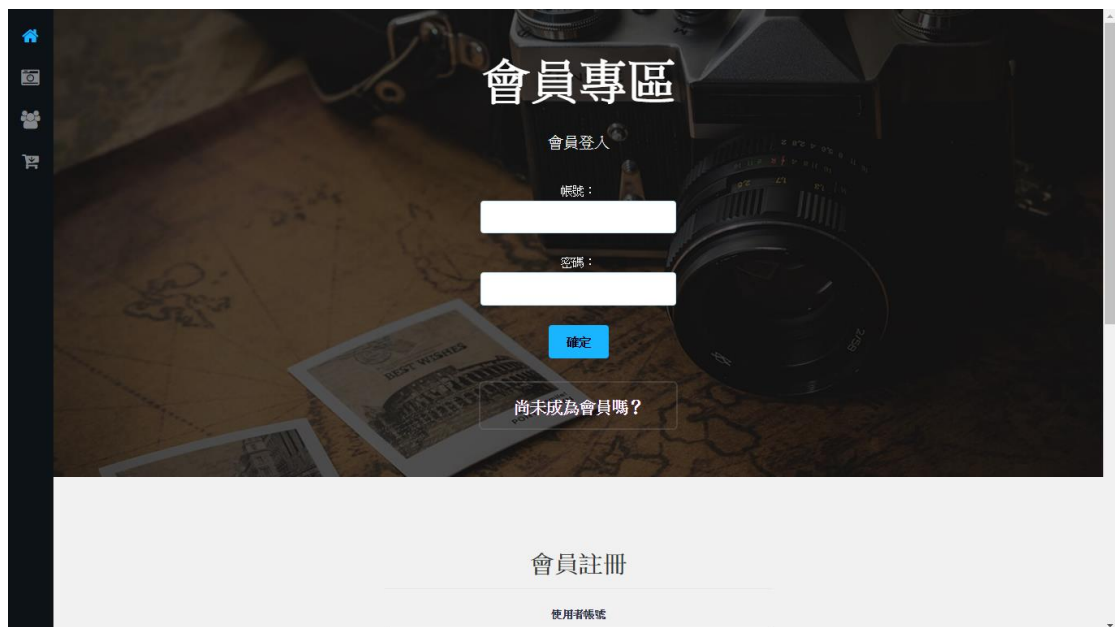
Conclusion :

- 1 、 less department
- 2 、 less process
- 3 、 few worker
- 4 、 quick response
- 5 、 personal tailor

### 3、Web illustrate



### 4、Web show



This is our member center. If you are not login, you will see this page.

### 會員註冊

使用者帳號

密碼

密碼確認

姓名

E-mail

行動電話

地址

性別

男

身分

And you can also regist new member in member center.

### Shopping Cart

[產品型號](#)      [檢視購物車](#)

| 產品編號 | 產品名                         | 定價      | 輸入數量                           | 進行訂購                  |
|------|-----------------------------|---------|--------------------------------|-----------------------|
| 1    | Washing Machine:Monster3510 | \$8500  | <input type="text" value="8"/> | <a href="#">放入購物車</a> |
| 2    | Fridge:IceRocker007         | \$12000 | <input type="text" value="1"/> | <a href="#">放入購物車</a> |
| 3    | TV:Curve 001                | \$21000 | <input type="text" value="1"/> | <a href="#">放入購物車</a> |
| 4    | Fan:skyscraper 990          | \$4800  | <input type="text" value="1"/> | <a href="#">放入購物車</a> |
| 5    | Washing Machine:Buster 5566 | \$9000  | <input type="text" value="1"/> | <a href="#">放入購物車</a> |
| 6    | Fridge:IceRocker 0075       | \$14000 | <input type="text" value="1"/> | <a href="#">放入購物車</a> |
| 7    | TV wider 3344               | \$28000 | <input type="text" value="1"/> | <a href="#">放入購物車</a> |
| 8    | Fan:Wind 880                | \$2800  | <input type="text" value="1"/> | <a href="#">放入購物車</a> |

After you login,you can buy what you want in shopping cart page.You can decide the number of goods and input the number into the shopping cart.

| 產品編號 | 產品名                         | 定價     | 數量 | 小計      | 變更數量                    |
|------|-----------------------------|--------|----|---------|-------------------------|
| 1    | Washing Machine:Monster3510 | \$8500 | 8  | \$68000 | <input type="text"/> 修改 |

活動打八折優惠後金額 = 54400

[退回所有商品](#)

We can see all the products customers had chosen in this shopping cart page.

會員專區

[修改會員資料](#) [登出網站](#)

使用者帳號: jack

密碼: 123

姓名: jack

E-mail: wysjfkgo123@gmail.com

行動電話: 0987654321

This is the page for customer's profile.

會員資料修改

使用者帳號  
jack

密碼  
...

密碼確認

姓名  
jack

E-mail  
wysjfcq123@gmail.com

行動電話  
0987654321

地址  
taipei,taiwan

性別  
男

身分

You can update the customer profile in this page.

修改會員資料 登出網站 新增產品

使用者帳號： tom

密碼： 123

姓名： tom

E-mail： erwty@gamil.com

行動電話： 098281828

地址： taiwan,taipei

性別： 男

身分： 費家

This is the page for manager profile. You can also update the profile and logout here.



| 請填入產品詳細資料                           |                                  |
|-------------------------------------|----------------------------------|
| 產品圖片連結：                             | <input type="text"/> (請使用URL)    |
| 產品名稱：                               | <input type="text"/> (請填入正確產品名稱) |
| 產品價格：                               | <input type="text"/> (請輸入數字即可)   |
| <input type="button" value="新增產品"/> |                                  |

If you are the manager, and you want to add a new product on the website, you can connect to this page to update.

shopping cart

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產品型號

| 產品編號 | 產品名                         | 定價      |
|------|-----------------------------|---------|
| 1    | Washing Machine:Monster3510 | \$8500  |
| 2    | Fridge:IceRocker007         | \$12000 |
| 3    | TV:Curve 001                | \$21000 |
| 4    | Fan:skyscraper 990          | \$4800  |
| 5    | Washing Machine:Buster 5566 | \$9000  |
| 6    | Fridge:IceRocker 0075       | \$14000 |
| 7    | TV wider 3344               | \$28000 |
| 8    | Fan:Wind 880                | \$2800  |

This is the page for manager to see product list.

## 5、 Conclusion and future work

We used business process reengineering methods,VSM and TOC, to analyze our process and We found from the As is model that there are too many unnecessary procedures,so we decide to improve our process.

Due to the high inventory level and costly rent made by various channel of shops We decide to build a integrated online store for customers to order online and receive our merchandise at home to realize omni channel.And our website has simple and fashionable design to attract customers and it is easy for any customers to operate.

We can see there are many improved part in the TO-BE model.On one hand,there are less departments and operation process.One the other hand,We have quick response to the customers and we can collect every customer's interest data. By doing so,we can analyze those data to know the customers' preference and it can help us to make more money in the future.

Last but not least, any company which wants to be a bench mark in such a competitive market must do electronic integration.In this way,we can reduce the costs and satisfy more customers.