# Yahoo! Shopping Mall Development of Logistics Data Visualization System

Summer 2017 @Yahoo Taiwan

# WHY

There is no <u>unified</u>
<u>interface</u> for employers and
suppliers to get <u>real-time</u>
performance information of
logistics processes



# HOW

- Step 1 Decided users, conducted users need assessment, investigated at distribution center
  - Step 2 Analyzed and identified totally 19 reports with 36 KPI, respectively in inventory management, inbound, outbound and return logistics
    - Step 3 Organized definition of each KPI, confirmed each data source in DB
    - Step 4 Unified different data sources with data preprocessing
    - Step 5 Constructed details of each data visualization dashboard, implemented data visualization dashboard prototype via Tableau
    - Step 6 Collected users feedback to improve visualization

# WHAT

### Inbound

Inbound punctuality rate

Incoming good inspection report

Receiving report of abnormality

- Processes Efficiency
- Return Status
- Abnormality
- Usage of Warehouse

### Outbound

Pick slip report

Picking and packaging report

Picker productivity report

Shipping punctuality rate

Shipping report of abnormality

### Return

Return goods inspection report

Rejected cargos report

Customer return report

Customer no pick up report

## Inventory

Inventory turnover

Inventory cost

Warehouse space usage

Warehouse time usage

Unsalable inventory

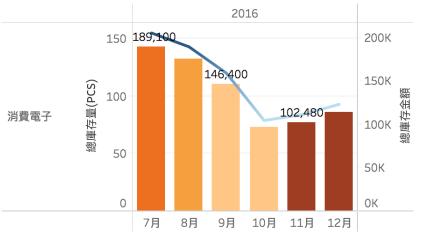
Short-expiration-date inventory

Not selling inventory

# PROTOTYPE

### Yahoo!奇摩 購物中心 庫存成本儀表板

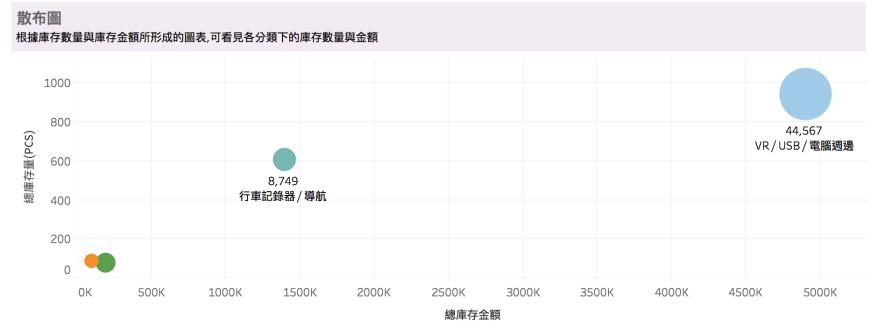




#### 庫存查詢

可以查詢每個月中每一天的庫存數量與金額

	2017						
	星期日	星期一	星期二	星期三	星期四	星期五	星期六
周 26							1 178,834
周 27	2	3	4	5	6	7	8
	178,834	176,930	180,507	179,451	175,259	171,763	171,763
周 28	9	10	11	12	13	14	15
周 20	170,171	161,734	213,972	213,972	212,380	227,332	224,196
周 29	16	17	18	19	20	21	22
	222,137	208,759	208,759	208,759	275,892	278,290	274,087
周 30	23	24	25	26	27	28	29
	270,505	268,355	264,406	260,356	256,491	256,491	240,036
周 31	30	31					
	228,200	217,427					



供應商	年	月	日曆圖的度量名稱	度量值	
● 快譯通股份有限公司	O 2016	○ 1月	○ 總庫存量(PCS)		
○ 展碁國際股份有限公司	<ul><li>2017</li></ul>	○ 2月 ○ 3月	● 總庫存金額	161,734	278,290
		〇 4月			

				2017			
	星期日	星期一	星期二	星期三	星期四	星期五	星期六
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#### 每日商品明細

商品id	商品	平均值 總庫存量(PCS)	平均值 總庫存金額
9413778	快譯通EC510電腦辭典	9	31,464
12425211	快譯通EC608 多國語言大字庫 電腦辭典	10	49,410
14775744	Abee 快譯通 專用 3孔車充組	10	0
15444930	Abee 快譯通 專用 3孔車充+USB組	17	0
16165016	快譯通Abee V55 HDR 測速行車紀錄器-快	3	11,583
16277558	快譯通 Abee SB-101 自拍機器人-白色	1	1,056
17227763	快譯通Abee M7 1440P高畫質行車紀錄器-快	6	18,816
17508907	快譯通 Abee TM-01 胎外型胎壓監測系統 (TM-01X-胎外)-急速配	3	7,713
18899295	快譯通CRM-680 全中文 可插卡數位立體聲錄音	2	4,300
18899296	快譯通CRM-380數位立體聲錄音筆8G	5	7,960
18905502	快譯通 全指向麥克風立體聲數位錄音筆16G (CRM-760)	2	4,784
19009454	快譯通Abee V56G Sony感光元件+GPS 行車紀錄器	5	16,955
19294934	快譯通Abee V56 SONY感光元件1080P 高畫質行車紀錄器	10	25,410

#### YAHOO!奇摩 購物中心

供應商儀表板..



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供應商儀表板..



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