

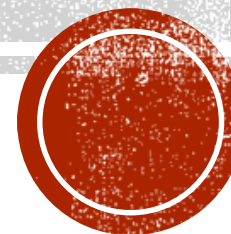
BISTRO BREAKFAST IMPROVEMENT

王駿業 106034401

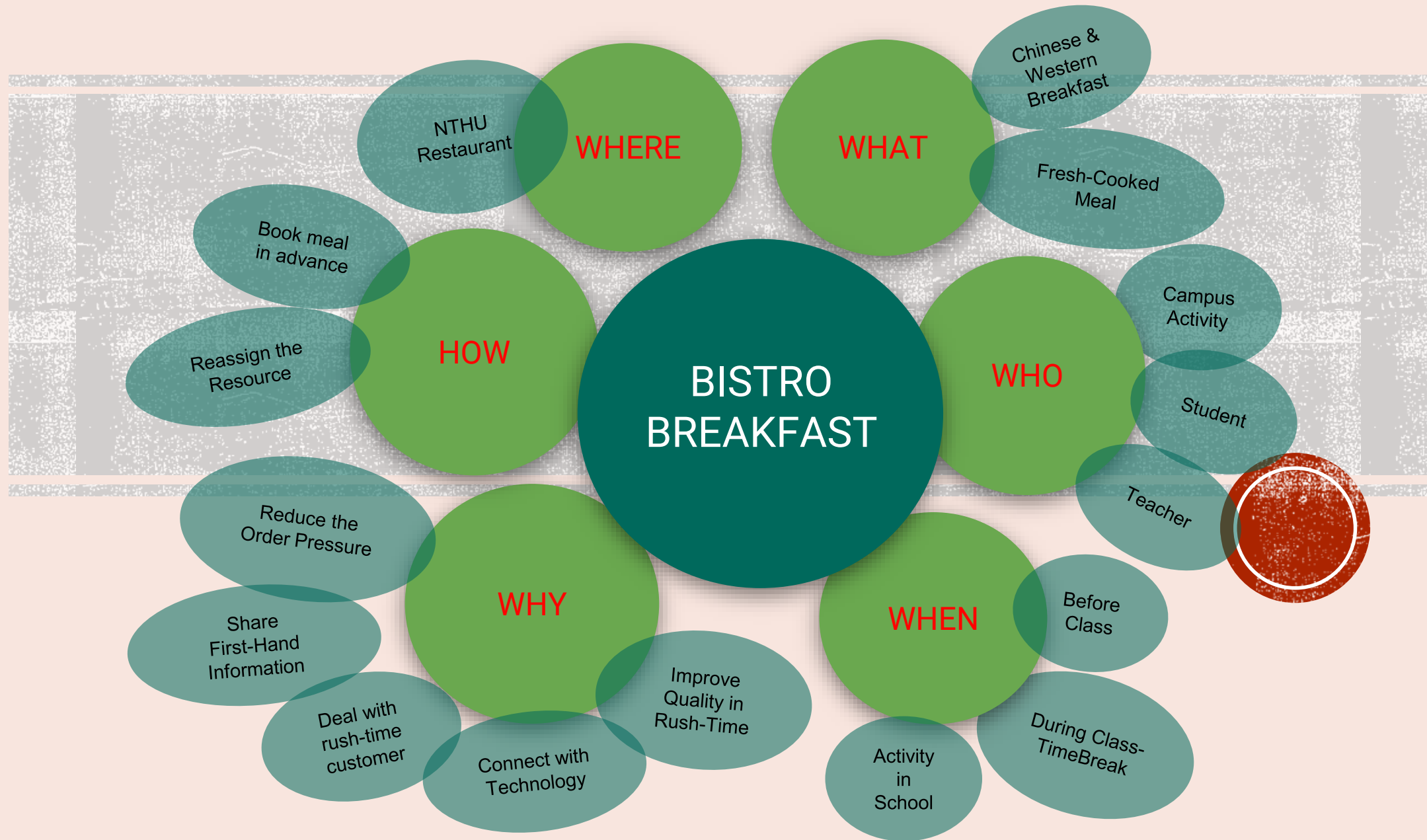
楊尚儒 106034403

劉大綺 106034546

范宇碩 106034541



Why choose Bistro – 5W1H



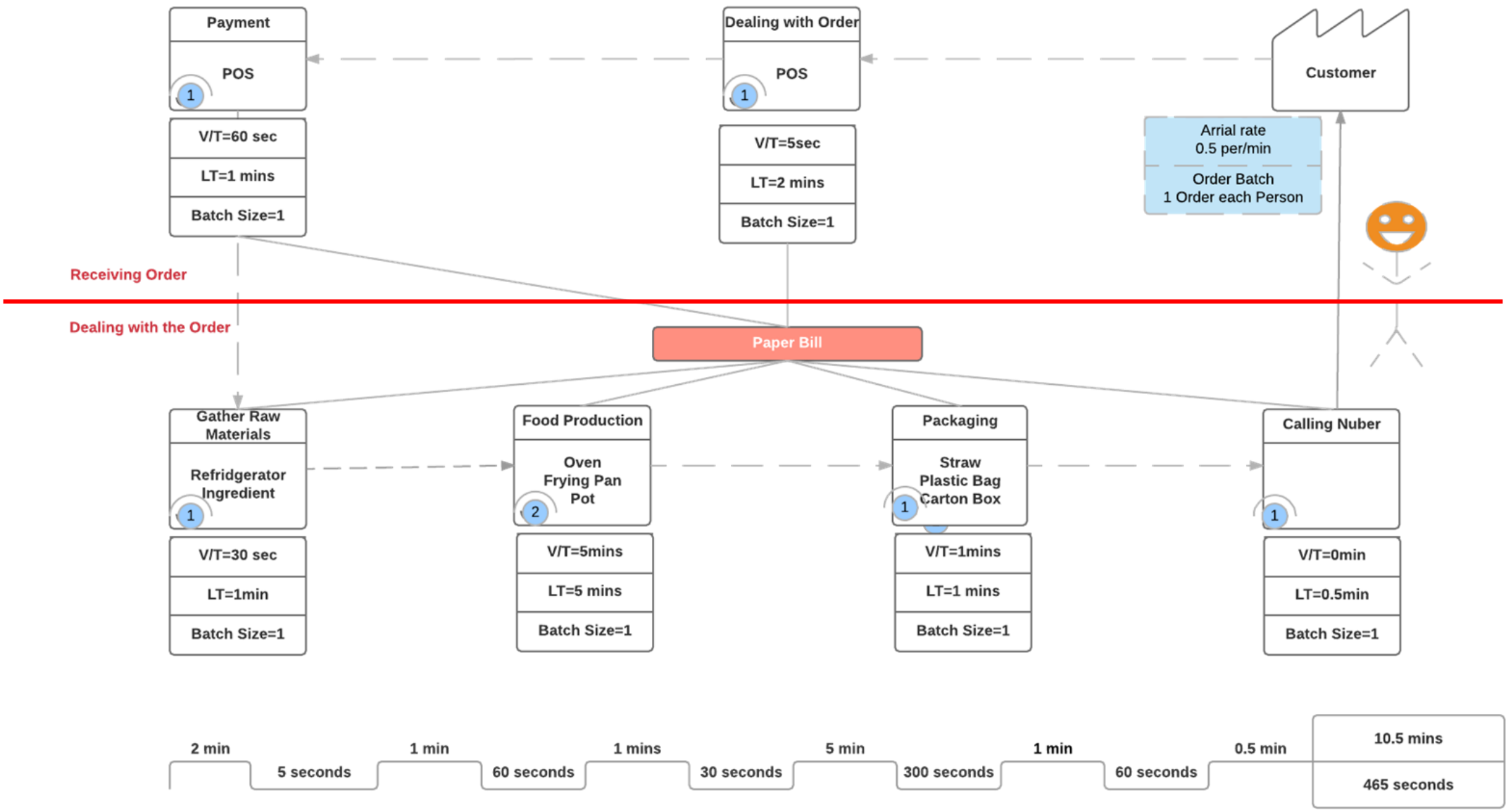
Assumption

Assumption Item	
Order Receive Rate	0.5 order/ min
Order Profit	\$40 / order
Salary	\$135 / hr (worker) 、 \$150 /hr (high-level)
Execution Cost	\$2 / process



BRP(1)-VSM





Find the problem

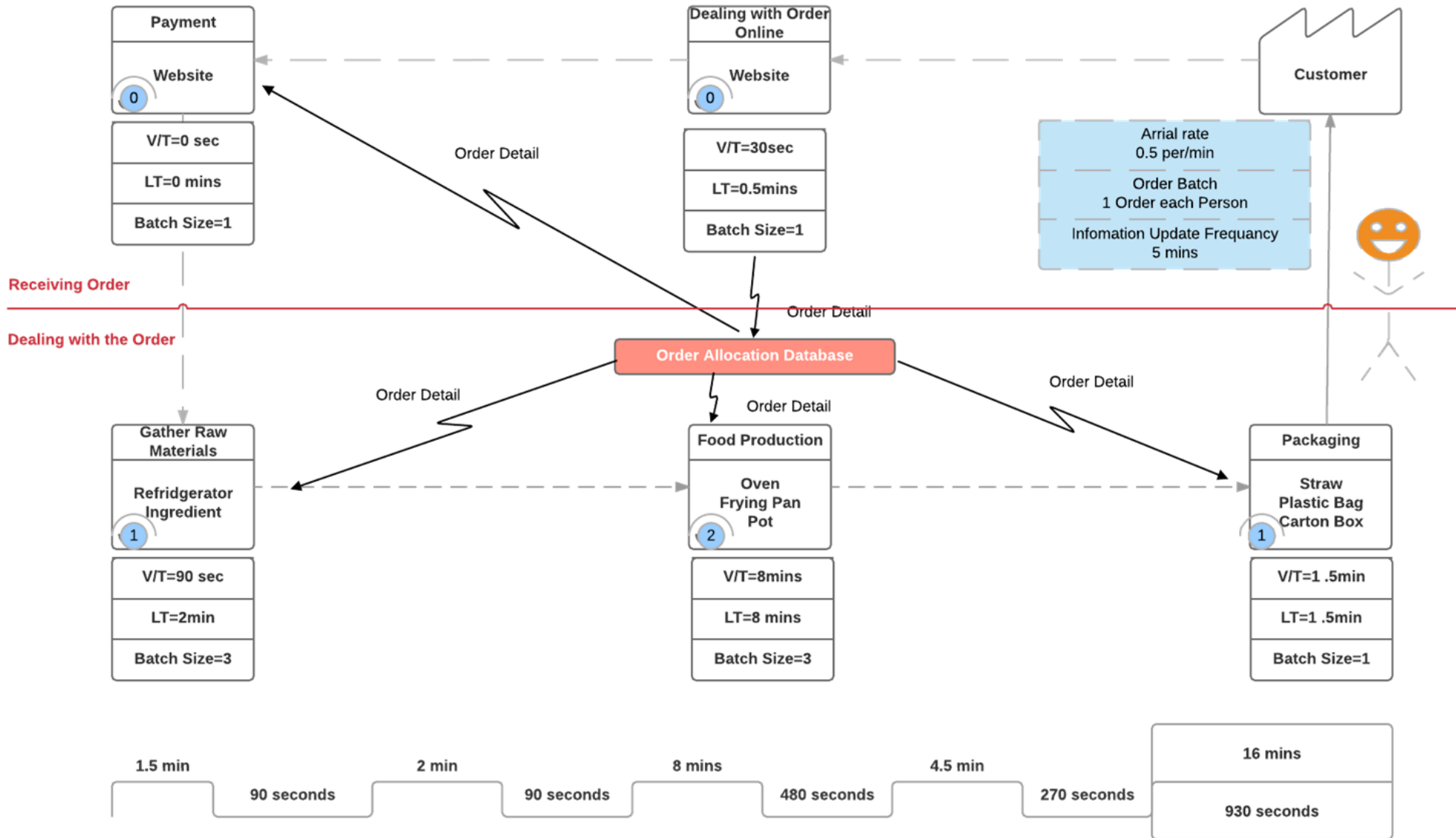
1. **Line up** at peak times
2. **Spend time** keying order information.
3. **Spend time** exchanging money.
4. Paper bills for kitchen are **not easily to read and easy to miss**.
5. Manual processing may lead to the **human error**.
6. **Capacity loss**.
7. **Spend time** calling the customer and waiting them to pick up their food.
8. **Low activity ratio**.

Total Lead Time	10.5 mins
Total Value Added Time	455 seconds



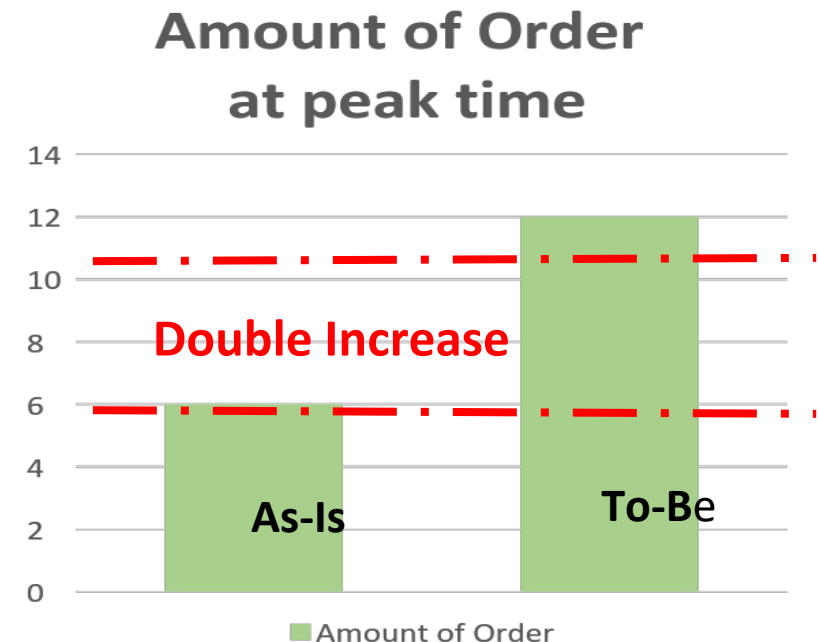
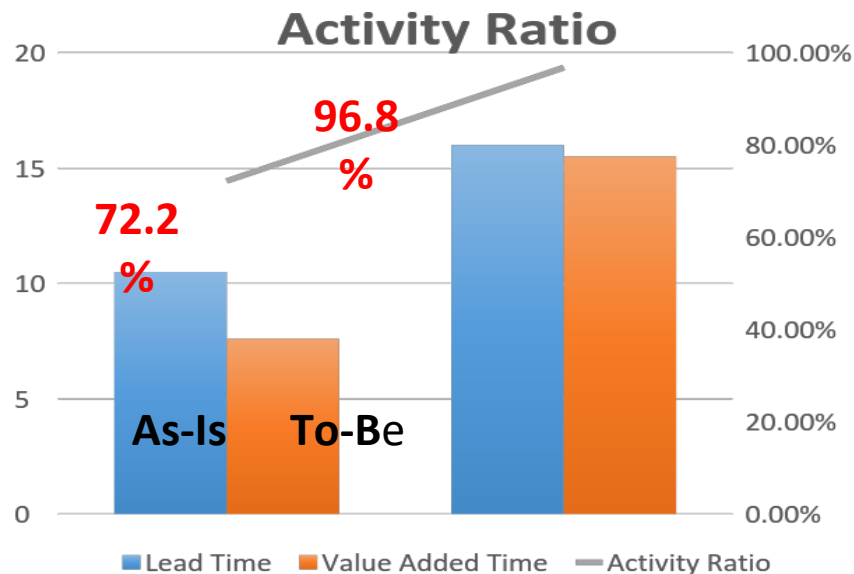
Possible Solution to Problems

Problem number	VSM block	Target	Possible Solution
1	1	Decrease waiting time about 50%.	Hire more clerks, Pre-order on the Website
2	1	Decrease key in time about 50%.	A more user friendly POS, Pre-key in on the Website
3	2	Avoid error and faster calculation.	A cashing machine, Pre-paid on the Website
4	1,2,3,4,6	Storage and pass information on time.	A data base for order information
5	all	Reduce manual processing .	Put human resource into meal-making
6	3,4,5,6	Avoid capacity loss	Integrate orders to do batch processing.
7	6	Remove this action.	Pick meal on their own
8	all	Increase activity ratio about 10%.	Reduce Non-Value added actions



BEFORE / AFTER COMPARISON - Activity Ratio/ Order quantity

Difference	As Is	To Be
Lead Time	10.5 mins	16 mins
Value Added Time	7.6 mins	15.5 mins
Time of Dealing an Order	10.5 mins	5.4 mins
Statistics Analysis	x	v



VSM Discussion

Increase Resource Utilization → Value Added Promote

Increase Amount of Order → Profit increase

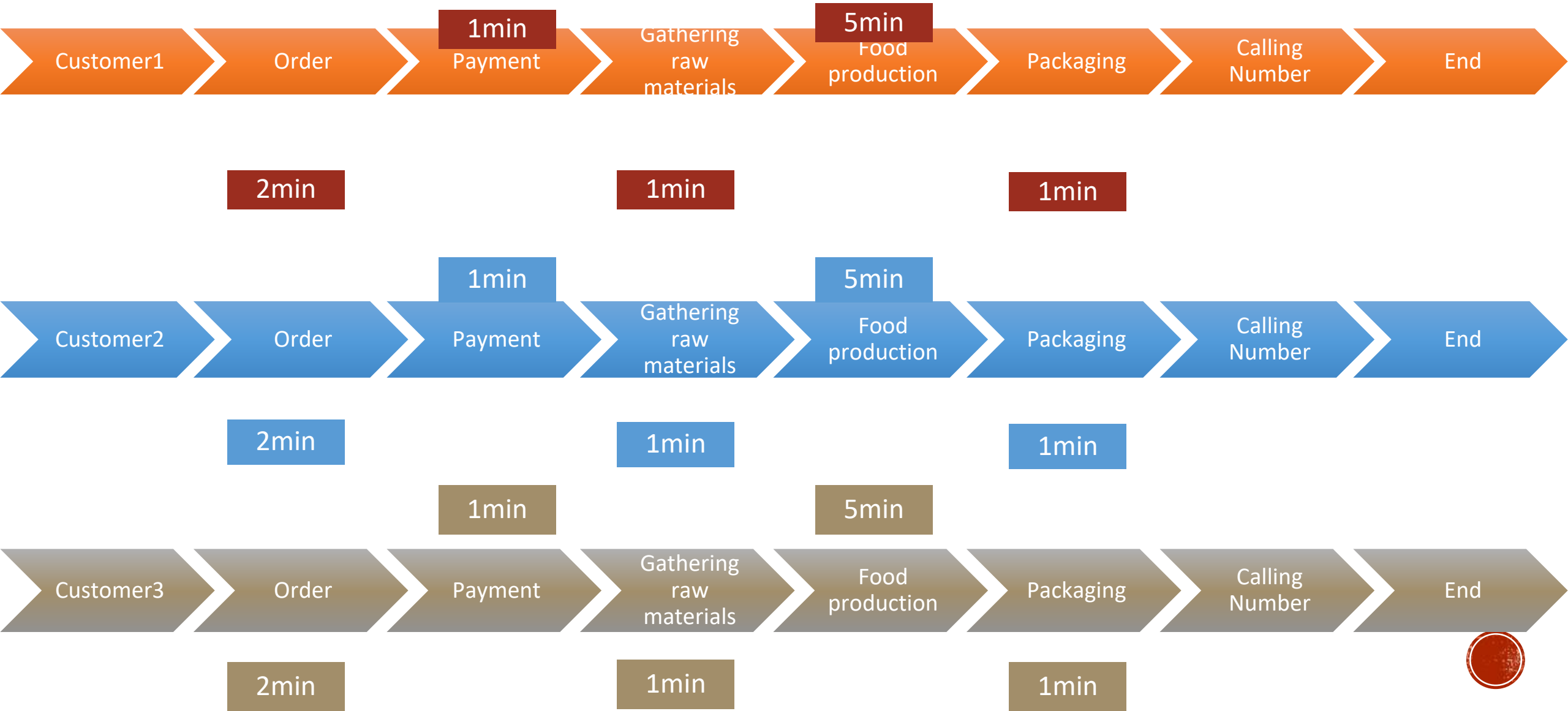
Collect and Analyze Data → Do right business strategy



BRP(2)-TOC



TOC As-Is

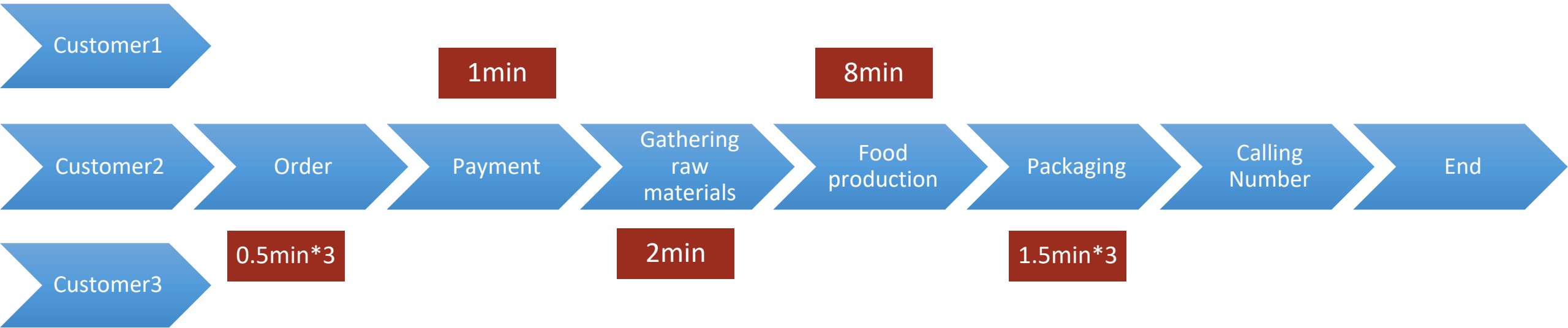


As-Is analysis

- Process has to be **repeated** every time a customer arrives.
 - **Spend time** on the ordering process and food production process
 - Need to improve the process to reduce the time constraints.



TOC To-Be



To-Be Analysis

- create an **online website**.
- **Reduce** the ordering **time**.
- Prepare food in **effective** way.
- The **new constraint** will be the packaging package.



BEFORE / AFTER COMPARISON – Time of process

Process	Before(min)	After(min)
Ordering	2*3	0.5*3
Payment	1*3	1
Gathering raw material	1*3	2
Food Production	5*3	8
Packaging	1*3	1.5*3
Calling Number	0.5*3	0
Total	31.5	17

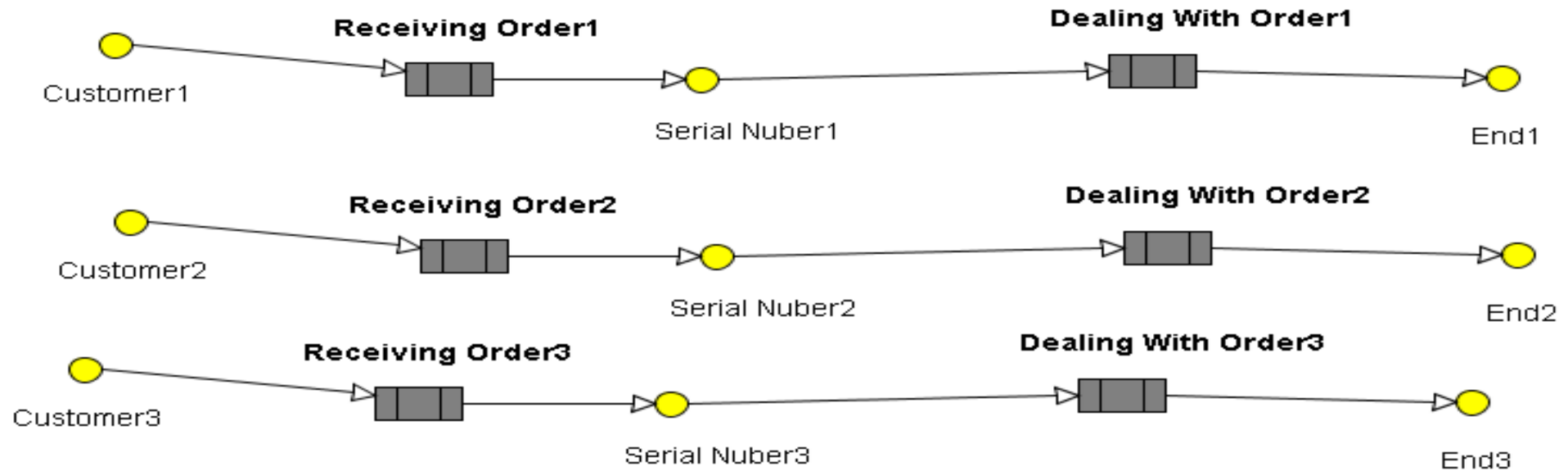
-46%



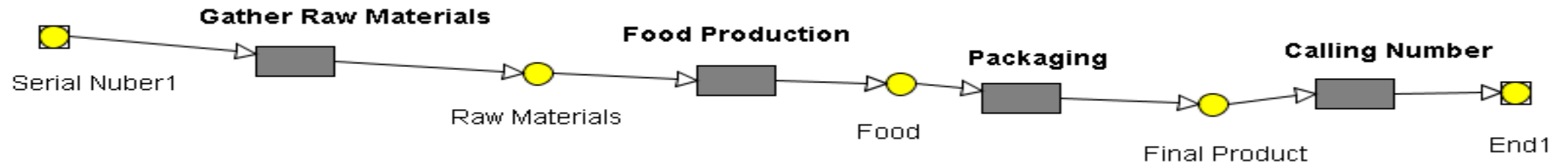
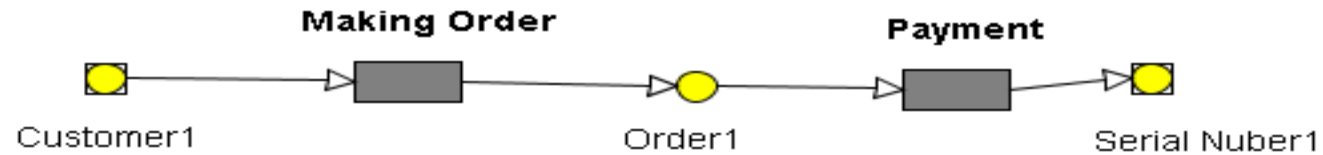
INCOME



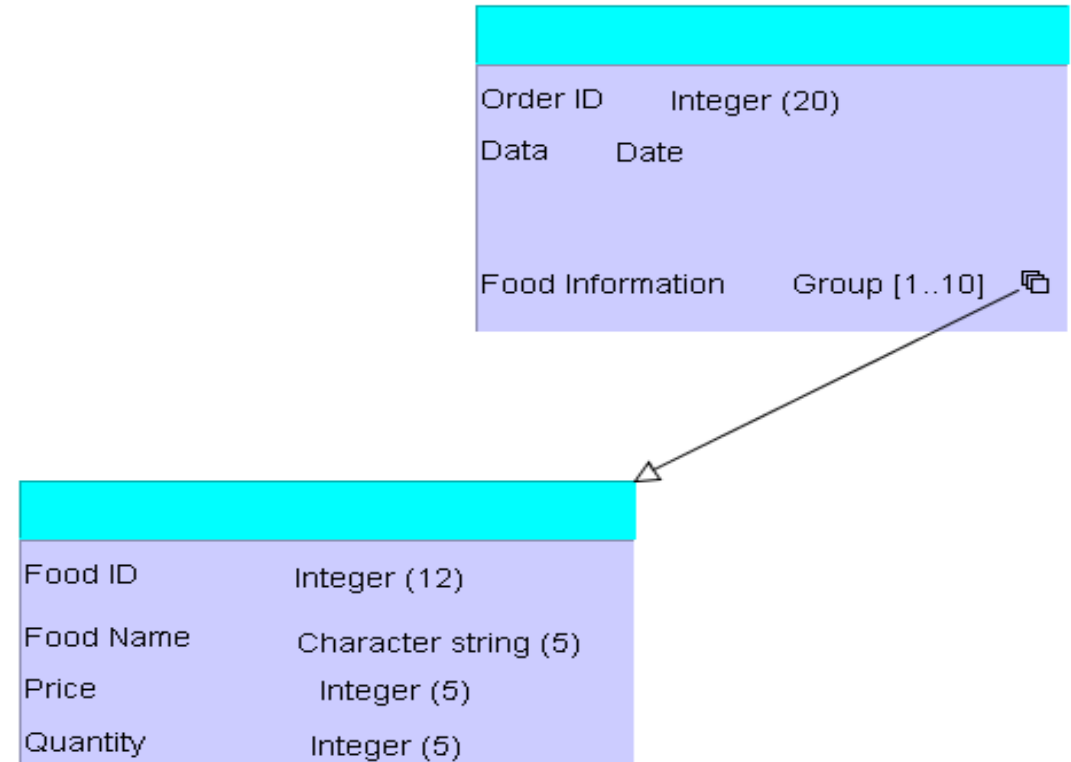
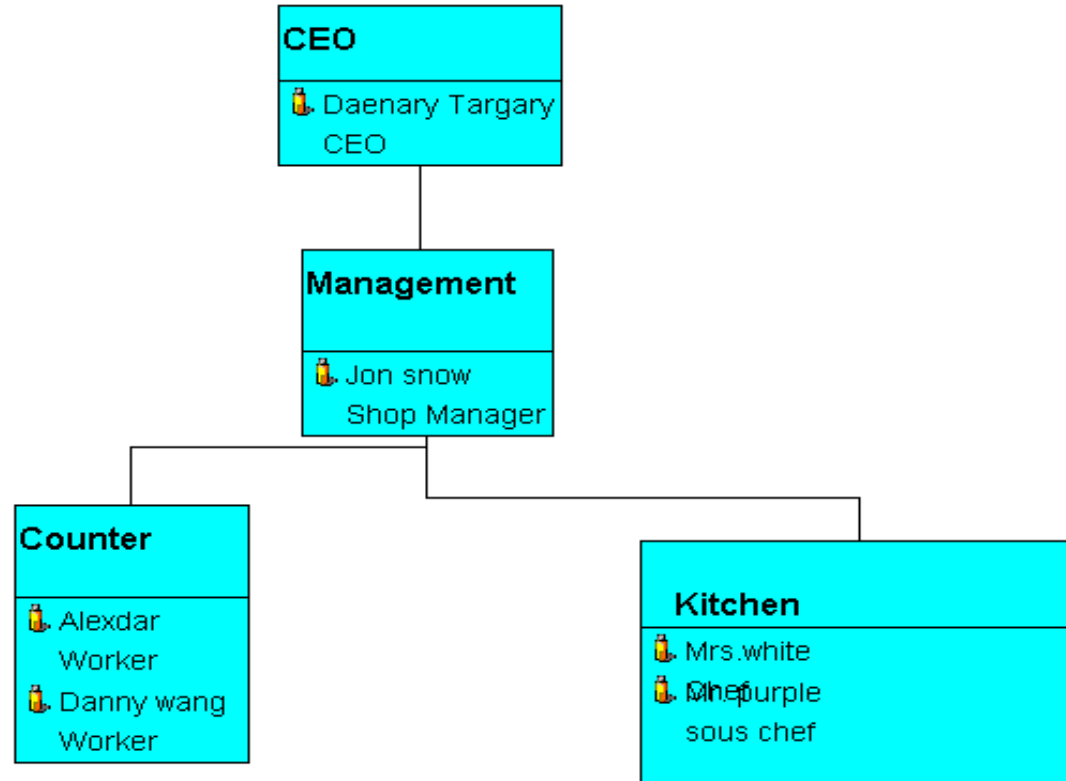
As-Is Behavior diagram



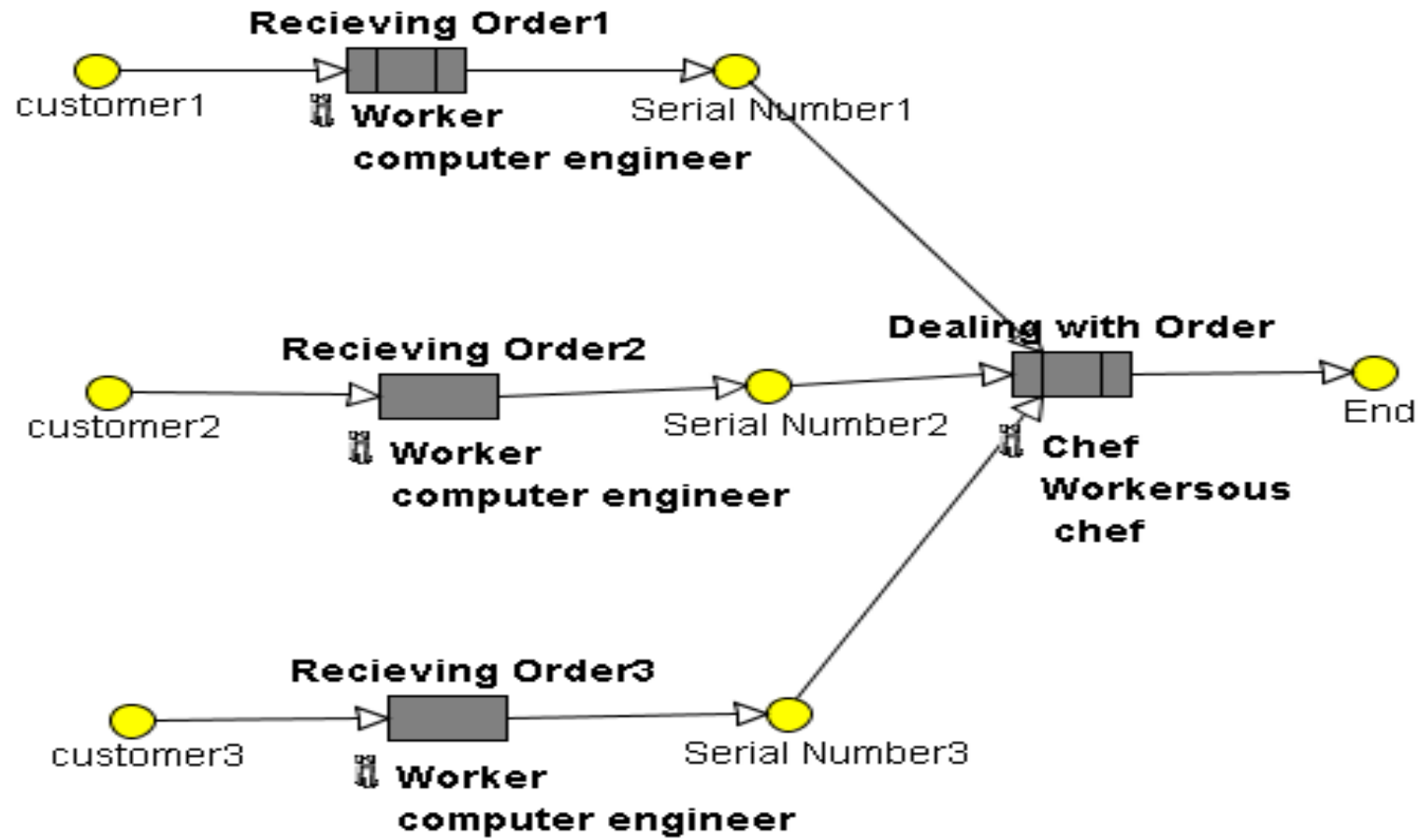
As-Is Behavior diagram (Drill down)



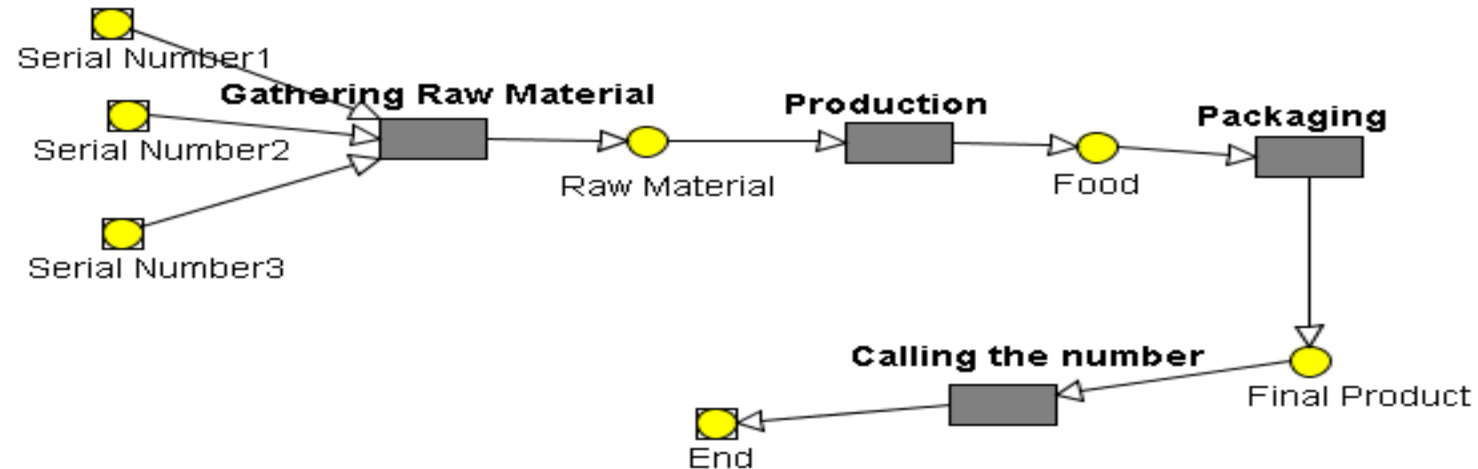
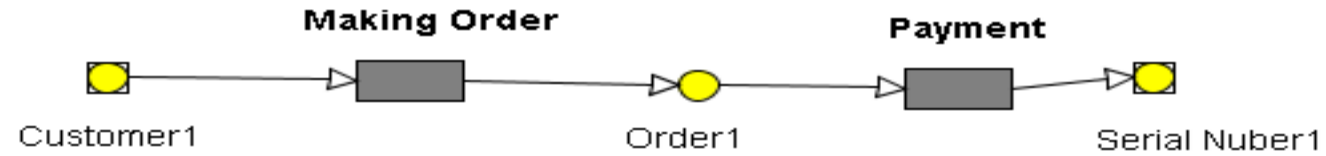
As-Is Organization Model / Object Diagram



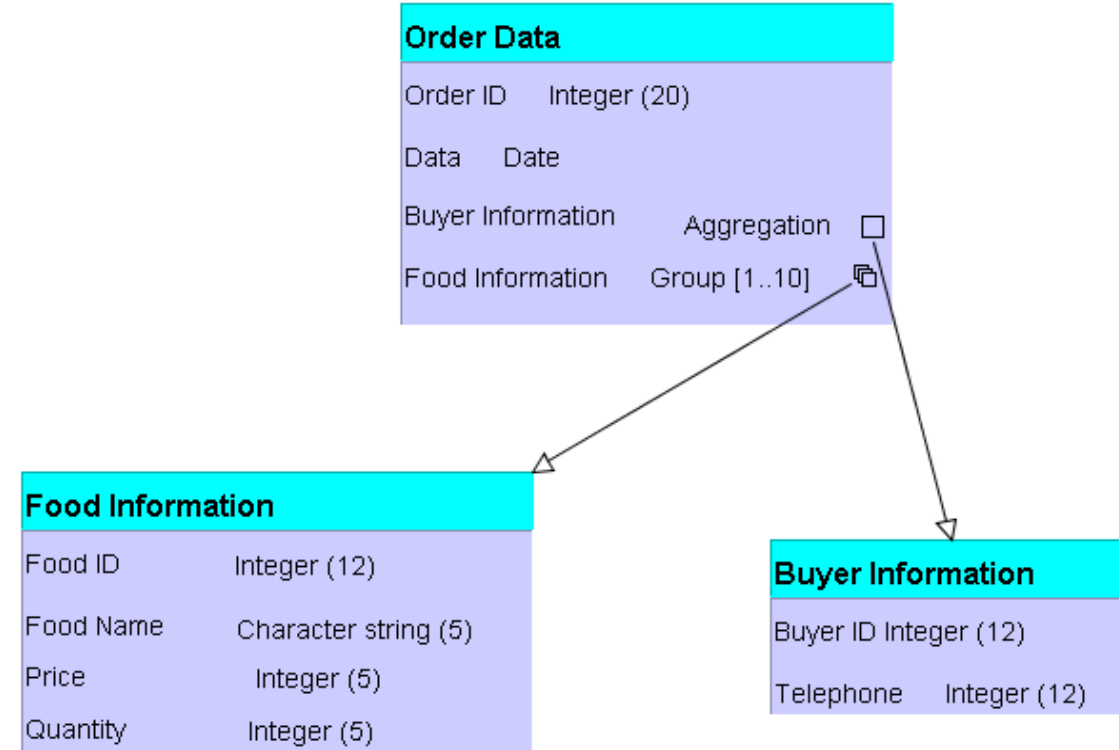
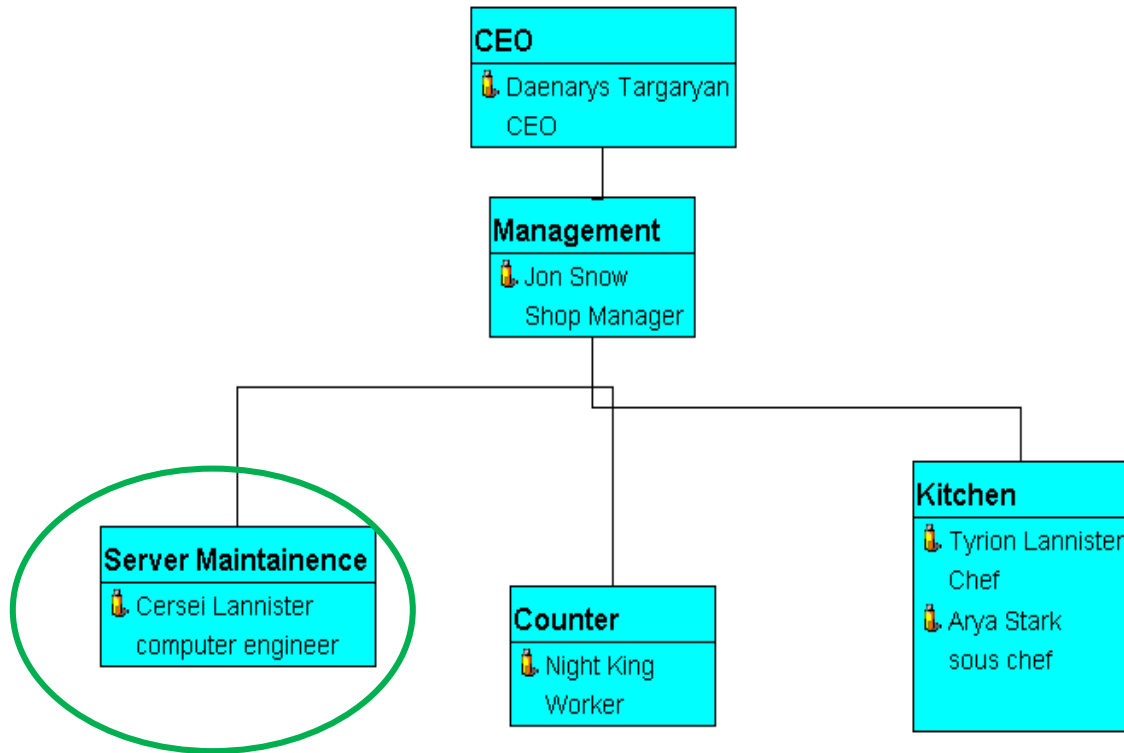
To-Be Behavior diagram



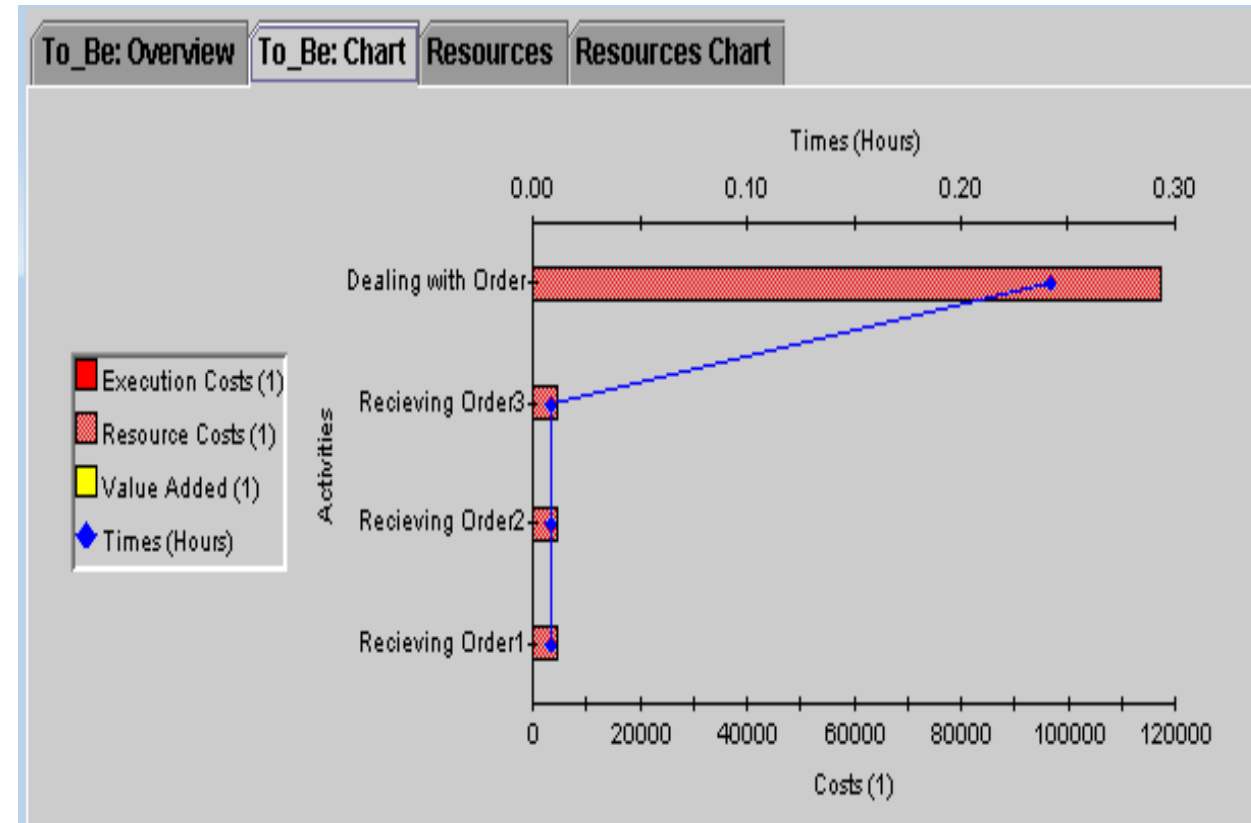
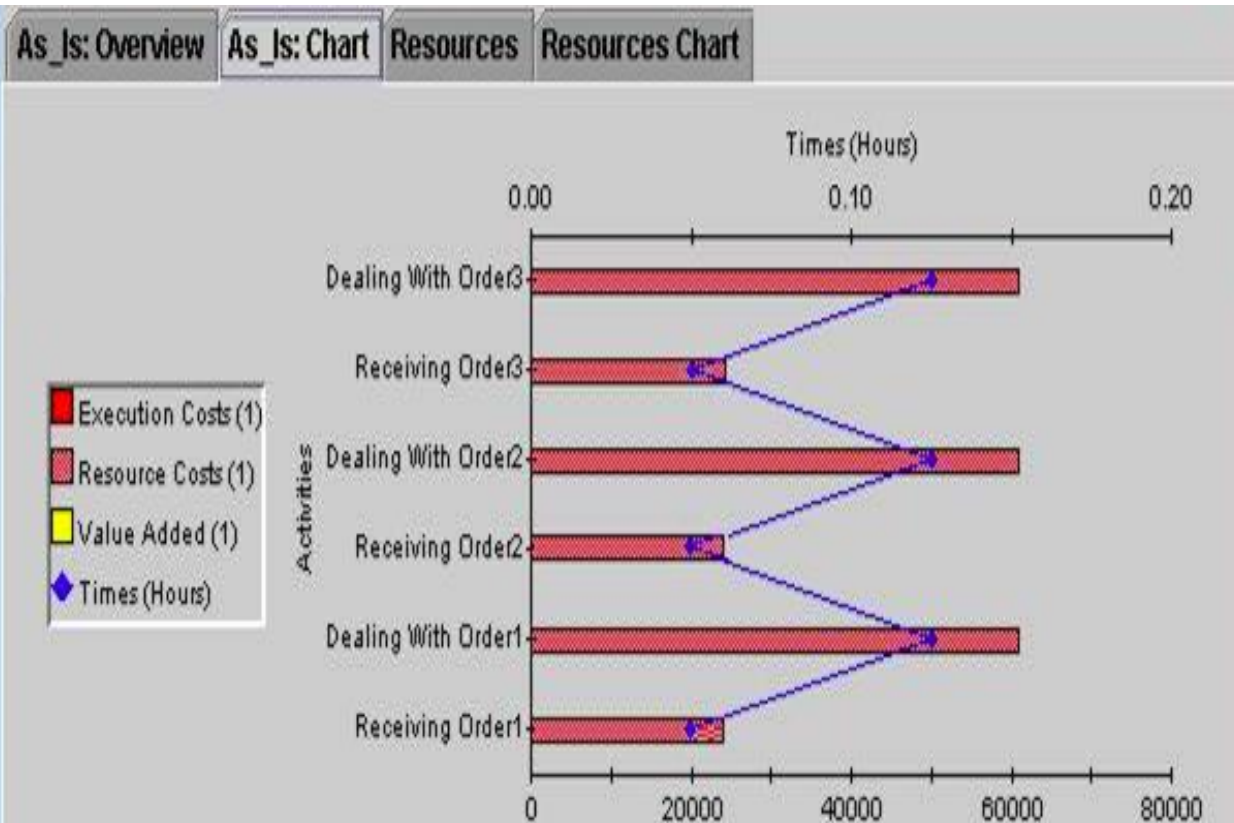
To-Be Behavior diagram (Drill down)



To-Be Organization Model / Object Diagram



As-Is VS. To-Be SIMULATION



As-Is VS. To-Be SIMULATION

As_Is: Overview						
As_Is: Overview	As_Is: Chart	Resources	Resources Chart			
Activities	Count	Execution Costs (1)	Resource Costs ...	Value Added (1)	Times (Hours)	
Receiving Order1	1	35	6.75	50	0.05	
Dealing With Order1	1	4.5	60,783.75	0	0.125	
Receiving Order2	1	35	6.75	50	0.05	
Dealing With Order2	1	4.5	60,783.75	0	0.125	
Receiving Order3	1	35	24,300	50	0.05	
Dealing With Order3	1	4.5	60,783.75	0	0.125	
Sum	6	118.5	206,664.75	150	0.525	

To_Be: Overview						
To_Be: Overview	To_Be: Chart	Resources	Resources Chart			
Activities	Count	Execution Costs ...	Resource Cos...	Value Added (1)	Times (Hours)	
Receiving Order1	1	35	4,501.125	50	0.008	
Receiving Order2	1	35	4,501.125	50	0.008	
Receiving Order3	1	35	4,501.125	50	0.008	
Dealing with Order	1	4.5	117,515.25	0	0.242	
Sum	4	109.5	131,018.625	150	0.267	



BEFORE / AFTER COMPARISON - Cost Analysis

	Assumptions	As-Is Model	To-Be Model
Cost	Worker	135*2	135
	Chef	135	135
	Sous-Chef	135	135
	Computer engineer	N/A	150
	Execution costs	2*6*30	2*4*30
	Total	900	795
Profit	Value added	50*30	50*30
	Net profit/Order	40*30	40*30
	Total	2700	2700
	Hourly Net Profit (order net profit + value added/hour - (total cost/hour))	1800	1905



WEB DEMO





WELCOME TO BISTRO BREAKFAST

請登入或註冊以啟用功能

REGISTER

CUSTOMER LOG IN

優惠訊息!!!! 消費滿100即享9折! 滿200即享8折!

啟用 Windows
移至 [設定] 以啟用 Windows

Discussion



