

Impact Estimation

Analysis

Division 2 – Team 6



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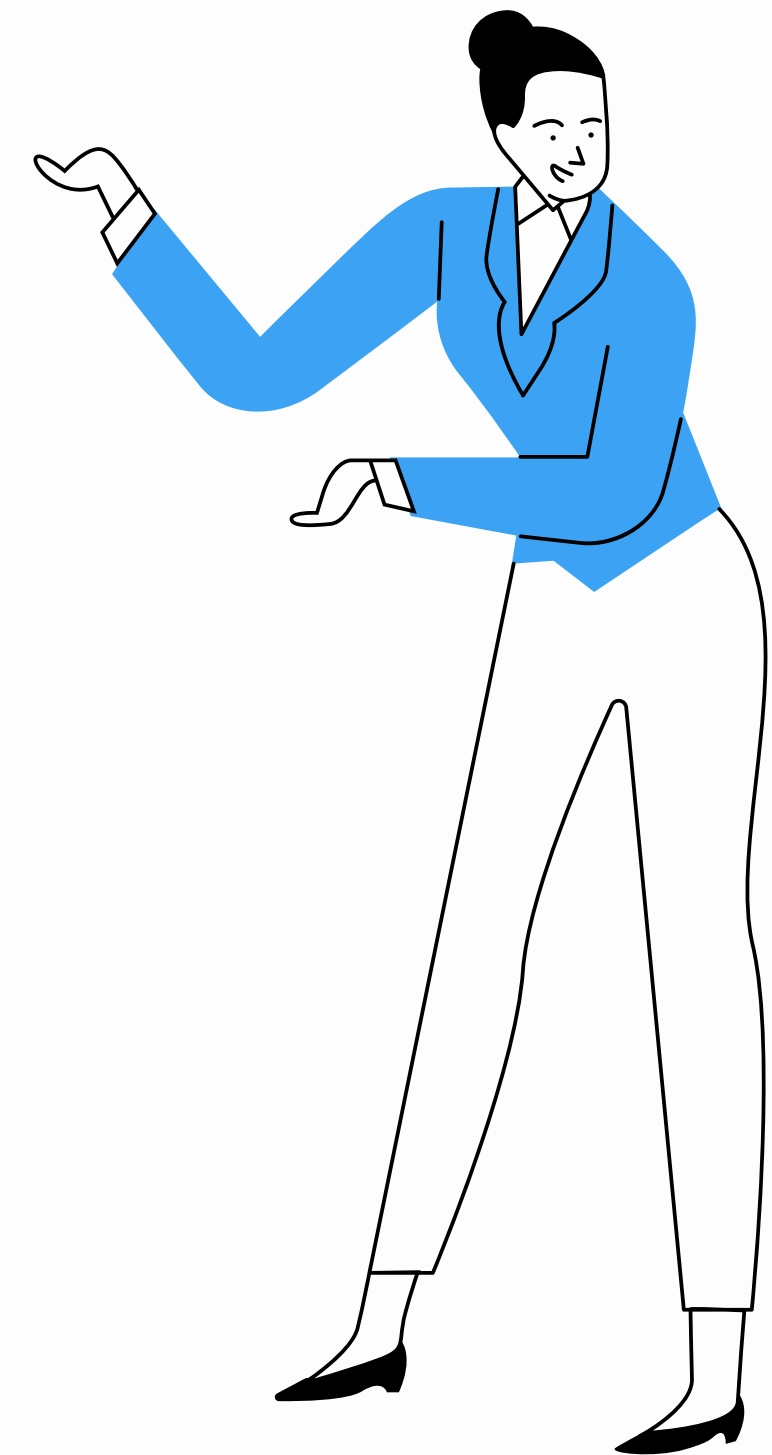
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Recommendation

Executive Summary

To get the most efficient way for delivery, **pool system** is designed to **reduce the number of delivery** and **achieve the SLA as much as possible**.

Therefore, the pool system is designed by 3 minutes waiting time with maximum 40 quantity and maximum 2 orders in one pool



Methodology

1

Problem and Business Understanding

- Understanding the problem, objectives and expected outcomes

2

Information Gathering

- Exploratory data analysis
- Create few proposed method based on the requirements
- Compare each method based on the cost and time spend

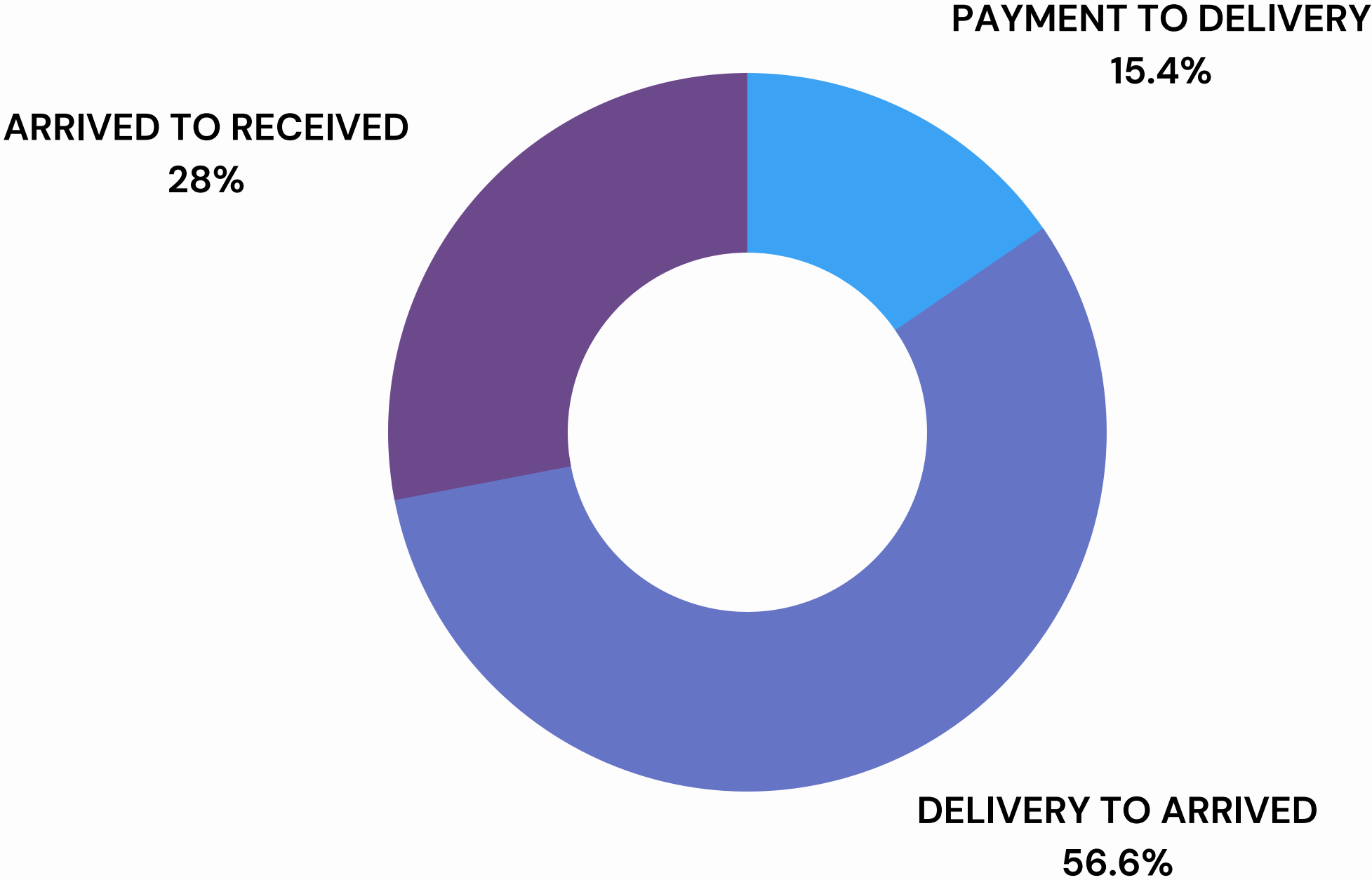
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Problem Solving and Recommendation

- Give the most efficient recommendation for delivery

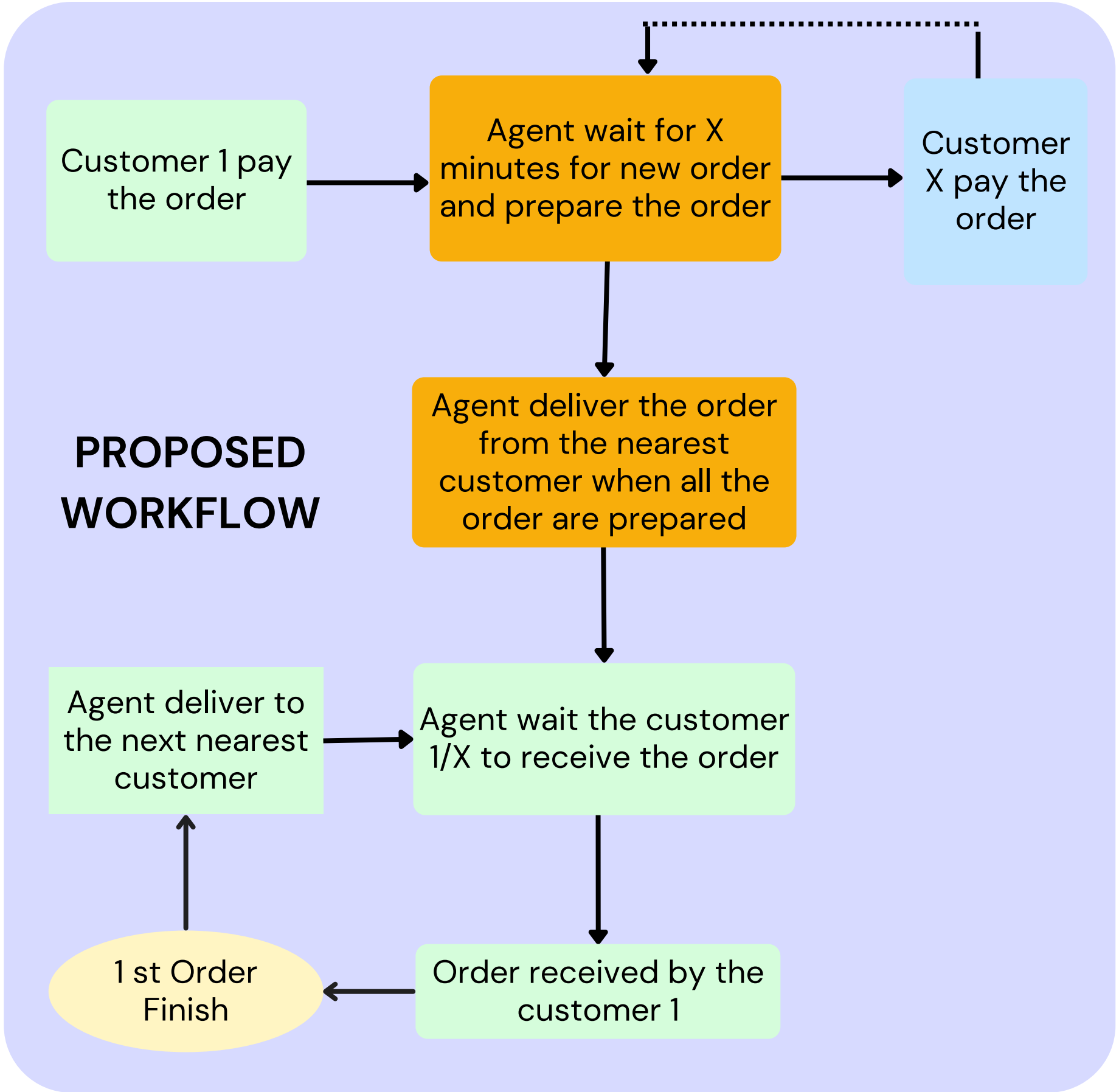
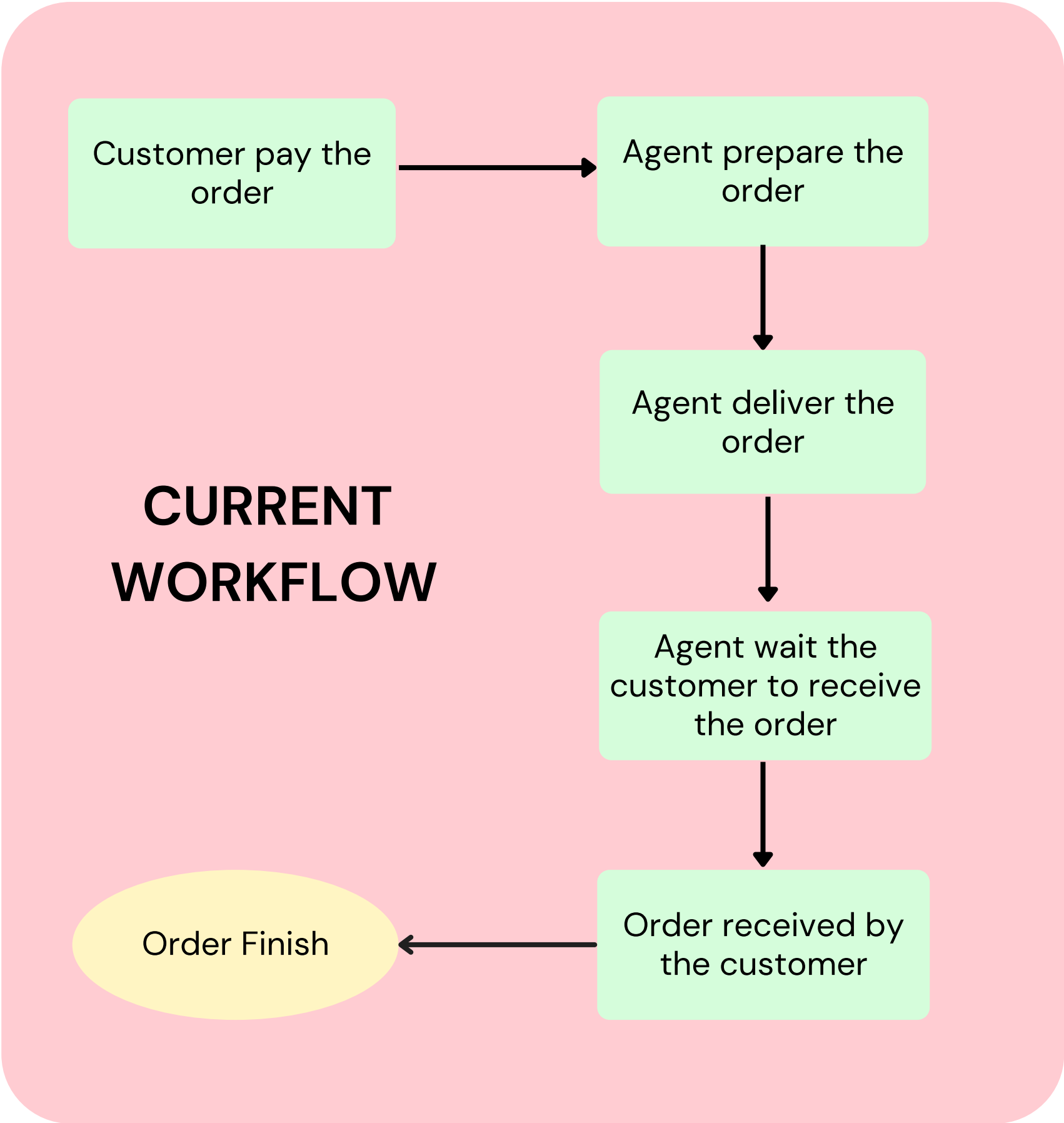
Exploratory Data Analysis

Average Time Spent Proportion



Number of Delivery	295
Missed SLA	23
Delivery Cost	Rp4.425.000
Satisfaction Cost	Rp345.000

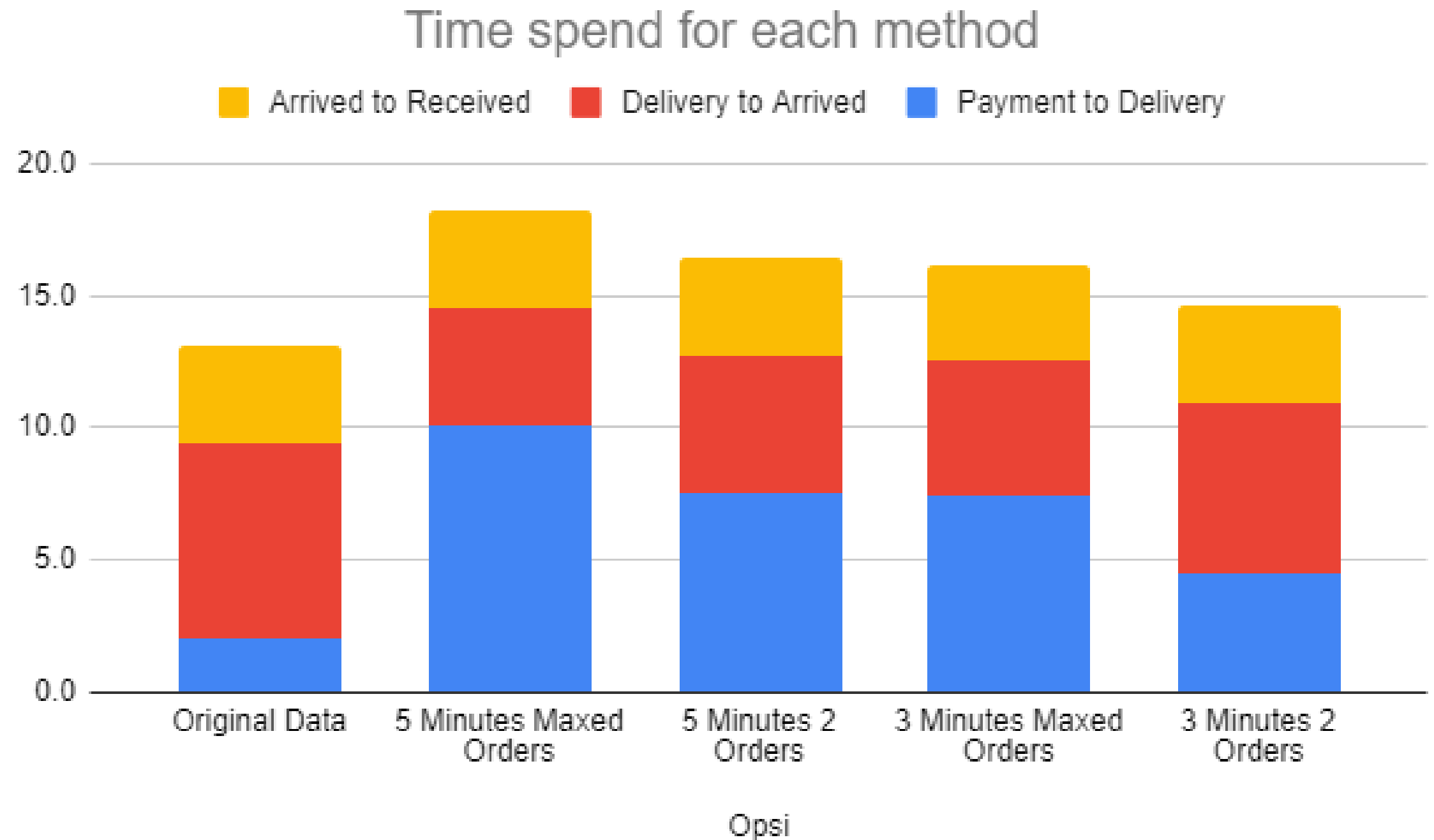
Current Workflow vs. Proposed Workflow



Impact Estimation Analysis

The proposed method for this analysis:

- Original Data
- 5 minutes waiting time with 40 quantity per pool
- 5 minutes waiting time with 40 quantity and 2 orders per pool
- 3 minutes waiting time with 40 quantity per pool
- 3 minutes waiting time with 40 quantity and 2 orders per pool



Impact Estimation Analysis

We ranked the method based on number of delivery:

- 1. 5 Minutes Maxed Orders
- 2. 3 Minutes Maxed Orders ✓
- 3. 5 Minutes 2 Orders
- 4. 3 Minutes 2 Orders

We ranked the method based SLA Missed:

- 1. 3 Minutes 2 Orders
- 2. 3 Minutes Maxed Orders ✓
- 3. 5 Minutes 2 Orders
- 4.5 Minutes Maxed Orders

OPSI	DELIVERY	SLA MISSED
ORIGINAL DATA	295	23
5 MINUTES MAXED ORDERS	142	117
5 MINUTES 2 ORDERS	179	92
3 MINUTES MAXED ORDERS	172	78
3 MINUTES 2 ORDERS	198	50

We conclude the effective method to achieve the objective is 3 Minutes Maxed orders because this method has the highest average ranking overall

Recommendation


Therefore based on cost and number of missed SLA, we recommend the most efficient way for delivery is by using 3 minutes with maximum 40 quantity and maxed orders per pool.

OPSI	DELIVERY	DELIVERY COST
ORIGINAL DATA	295	RP4,425,000
5 MINUTES MAXED ORDERS	142	RP2,130,000
3 MINUTES MAXED ORDERS	172	RP2,580,000
5 MINUTES 2 ORDERS	179	RP2,685,000
3 MINUTES 2 ORDERS	198	RP2,970,000

OPSI	SLA MISSED	SATISFACTION COST
ORIGINAL DATA	23	RP345,000
3 MINUTES 2 ORDERS	50	RP750,000
3 MINUTES MAXED ORDERS	78	RP1,170,000
5 MINUTES 2 ORDERS	92	RP1,380,000
5 MINUTES MAXED ORDERS	117	RP1,755,000



Appendix

 Impact estimation analysis
(Pool System).

✦ ✦ If you have any question, ✦ ✦
feel free to contact our team



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