Planogram Excellence Program

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SENIOR DESIGN EXPO

Abstract

The production of service sector industries is very important in such a competitive environment. There are some important parameters that effect the production rate such as waiting time, delays and machine utilization etc. In this study, we reduce the delays in Planogram Excellence program and increases the productivity of this services.

Introduction

Increasing productivity is the important issue in all manufacturer companies and service sector industries. There are several factors that affect the productivity and by focusing on these factors will increase efficiency of production. In our case the main problem in Planogram Excellence Program is handling the materials at the working areas, and saving time of handling mean save time of resources and lead to have more productivity and customer satisfaction.

Simulation

Simulation model give us clear figure of how the work done and by changing elements in model will affect results. In addition, changing in simulation model will not affect the real work at store and solutions applied will help managers to take actions to increase the production based on results of this simulation..
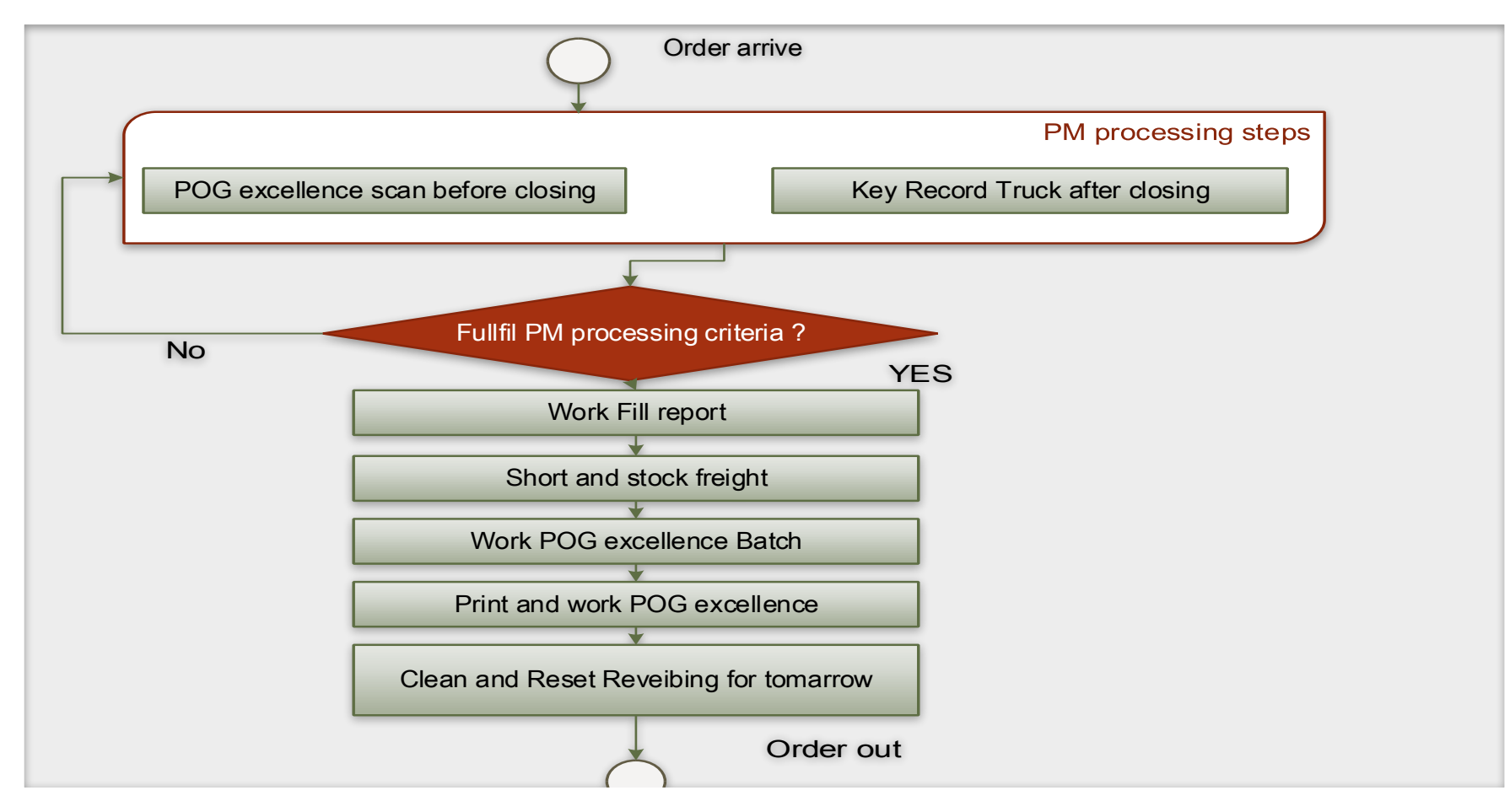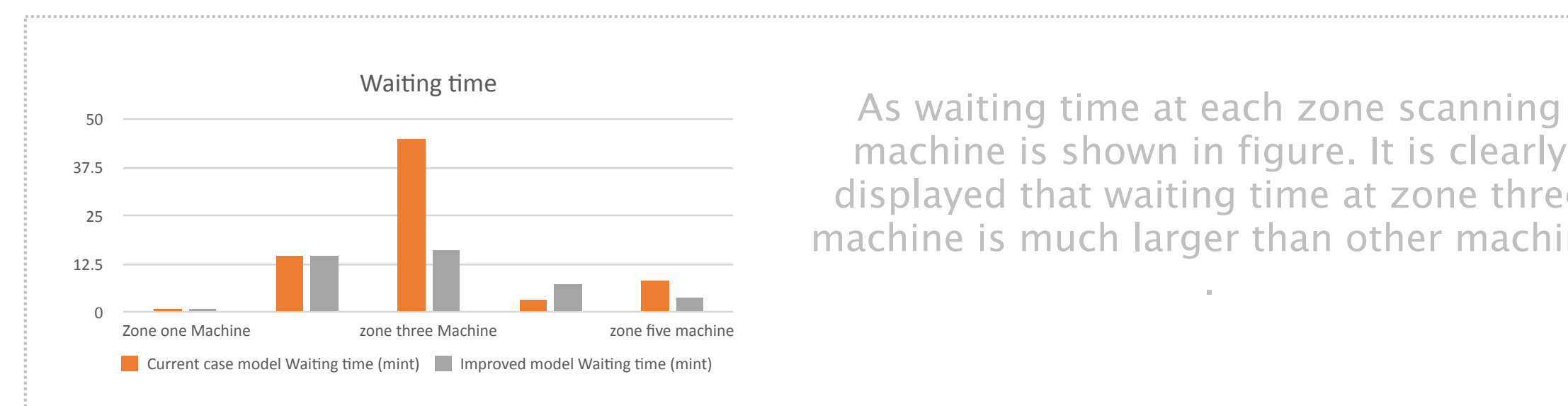

Methods | Design | Analysis

Develop a simulation model which focus in materials handling between empty shelf spaces on their sales floor and other stations.

- The system to be modeled consists of part arrivals called products from trucks after scanning and assume parts arrive directly as finished parts.
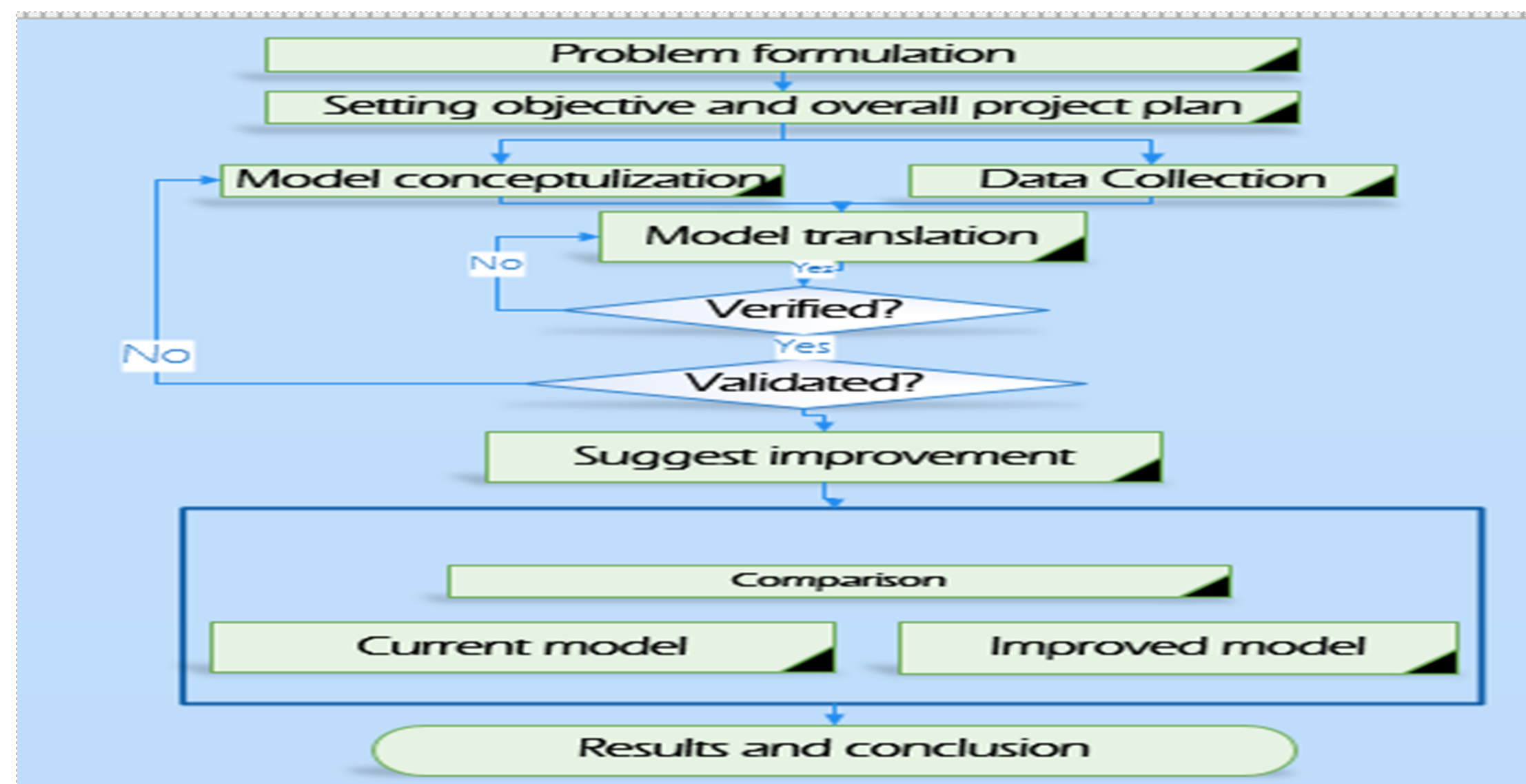
Results

As waiting time at each zone scanning machine is shown in figure. It is clearly displayed that waiting time at zone three machine is much larger than other machine .

Conclusion

Delays at scanning machine at zone three is large as compare to other scanning machine. So a suggestion was made to increase the number of workers at that station. The effect of this improvement is shown below

- Waiting time of the zone reduces from 44 minutes to 16 minutes

- ARENA simulation software is helpful tool to analysis the current system and find out the ways to increase the productivity.

Acknowledgments

References

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