

# Congestion Prediction System for Metro Train Services

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## Introduction

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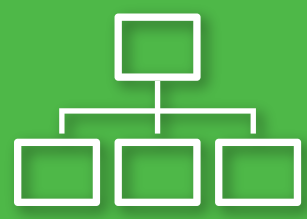
Congestion in public transport services is a big problem that transport companies face frequently especially in metro systems. And sometimes, metro companies face unexpected or abnormal congestion in metro stations, and the unexpected congestion is difficult to deal with and difficult to fix at the time of the congestion because it will already be too late to fix it.

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## Objectives



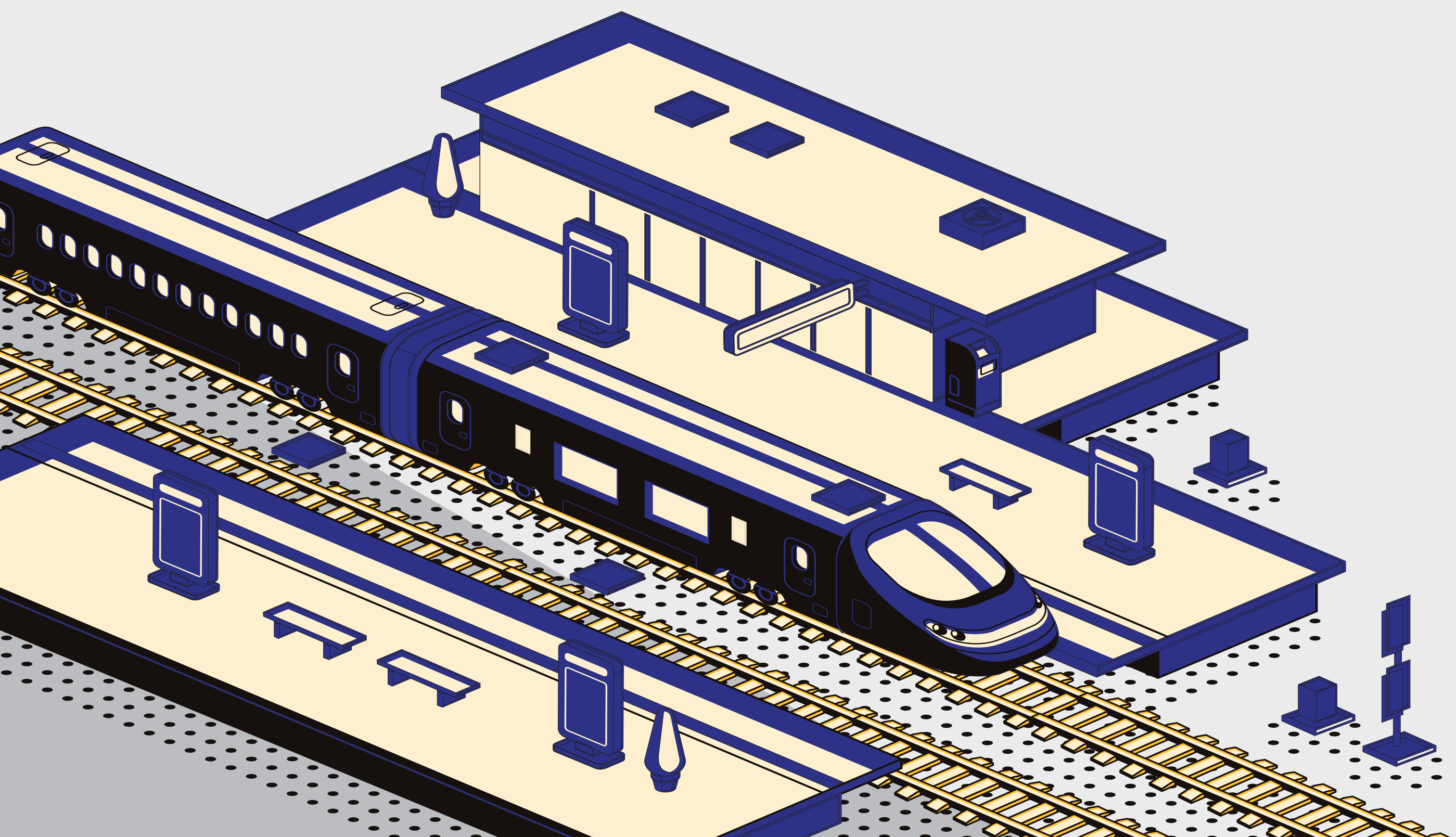
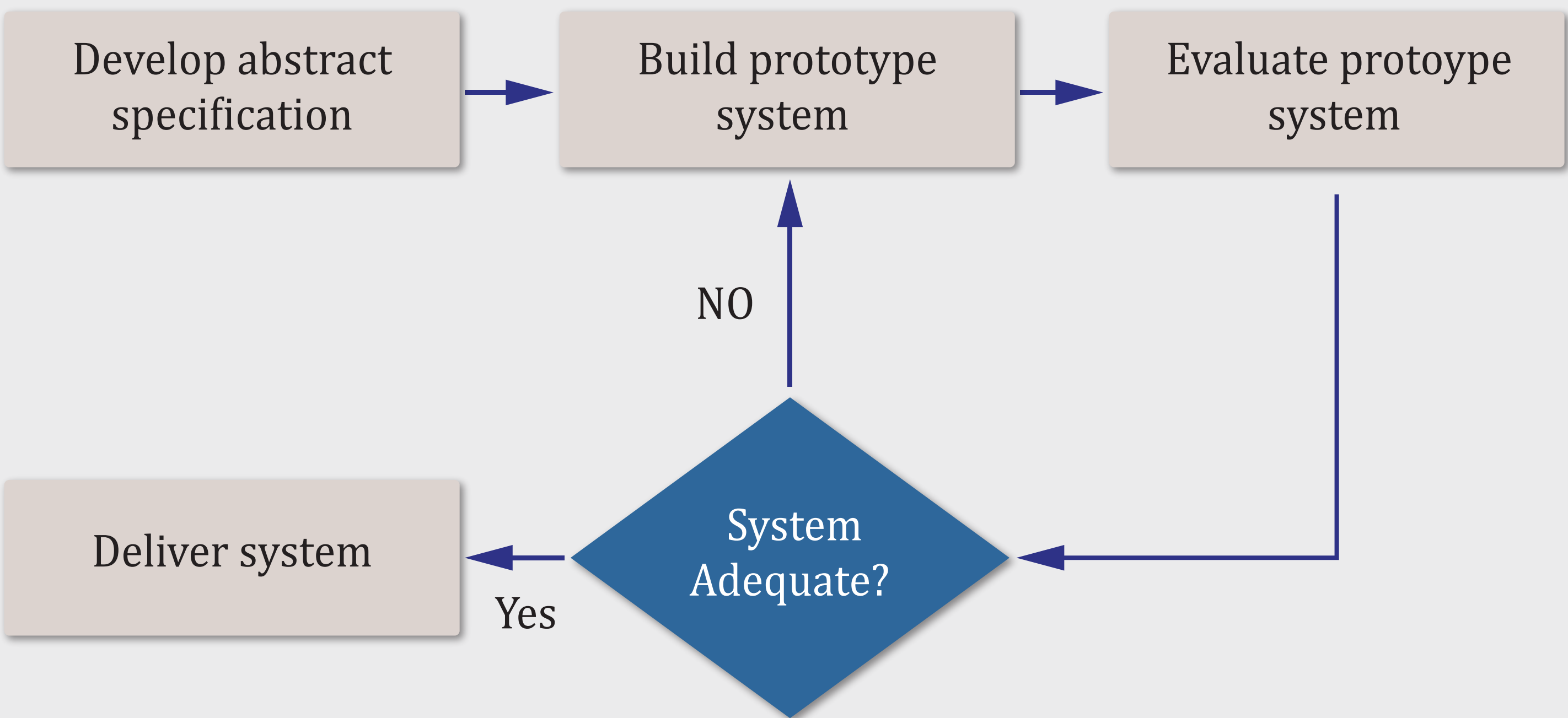
- Predicting the number of metro passengers in metro stations in the near future.
- Predicting the passengers average waiting time in stations to know which metro stations could be congested.
- Providing a dashboard with charts, graphs, and symbols to make the information on the dashboard clearer and simpler.



## Methodology

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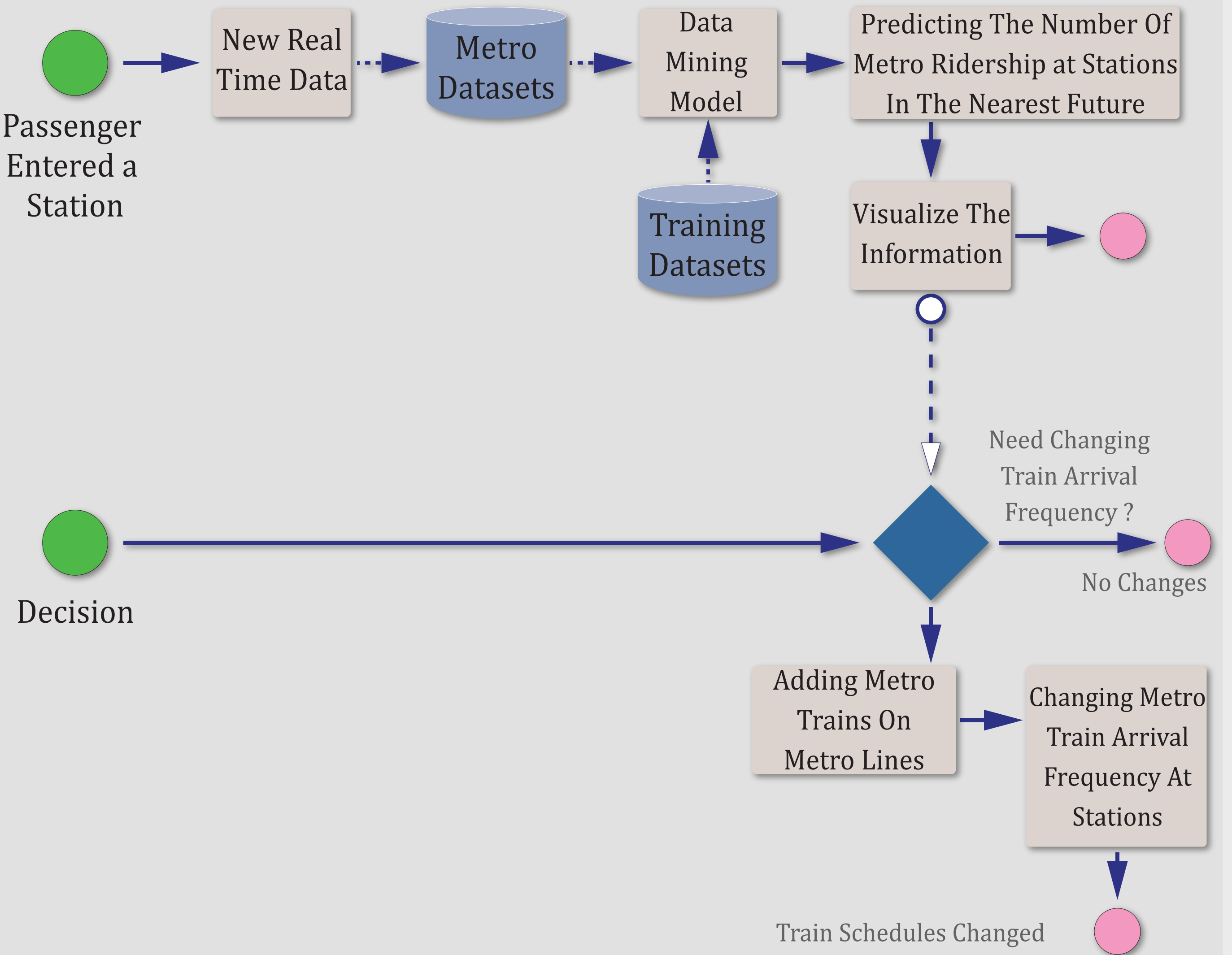
Our software development methodology is prototype, the prototype methodology involves creating, testing and reworking until an acceptable prototype is obtained.



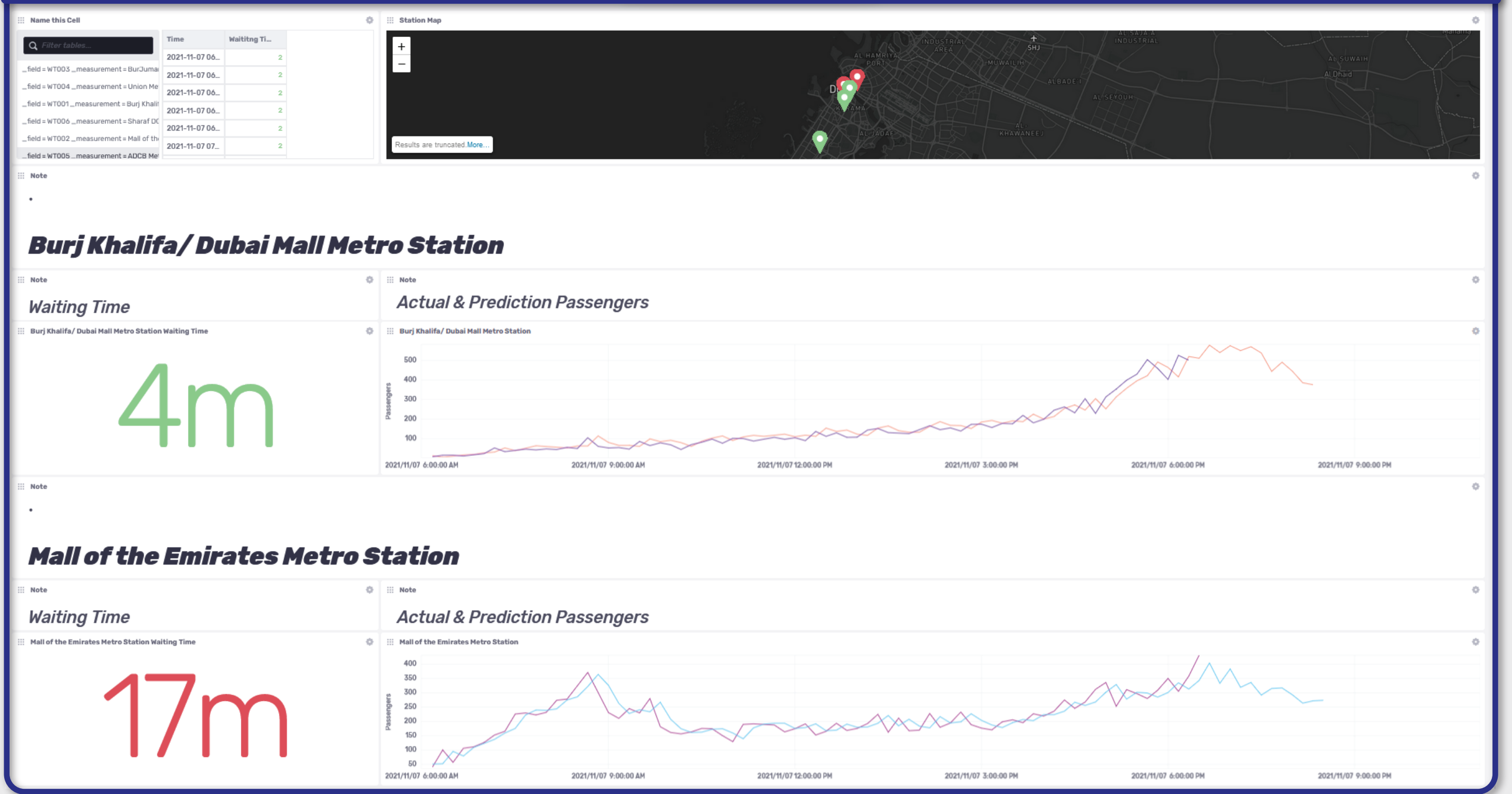
## Proposed Business Process

Congestion Prediction System

Metro Manager



## User Interface



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## Conclusion



Our project aims to solve the congestion problem for metro systems by developing a system that constantly predicts the number of metro ridership in metro stations in the near future and predict the passengers average waiting time in stations to know which metro stations could be congested, and that can be achieved by using data mining techniques. This system will visualize these predictions to make it clearer and simpler to the metro companies.



## Acknowledgement

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## References

