



# MAPPING THE WAY: AN OPENSTREETMAP JOURNEY INTO PUBLIC TRANSPORTATION OF THIRUVANANTHAPURAM

# INTRODUCTION

Public Transport Data Generation in  
Trivandrum





## WHAT IS OPENSTREETMAP?

OpenStreetMap (OSM) is a collaborative mapping project where **volunteers** contribute data to create a free and editable map of the world. It provides a **wealth of information** about roads, buildings, and other features, making it an ideal platform for exploring public transportation.



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## WHY PUBLIC TRANSPORTATION MATTERS

Public transportation plays a crucial role in **reducing traffic congestion, promoting sustainability, and improving accessibility.**

By mapping public transportation routes and stops on OpenStreetMap, we can **empower communities** with better information for planning and navigating their city.



## MAPPING PUBLIC TRANSPORTATION

Mapping public transportation involves **identifying routes, marking stops,** and capturing **schedule information.** With OpenStreetMap, anyone can contribute to this effort and help build a comprehensive and up-to-date database of public transportation data.



## MAPPING USING OSM TRACKER

OSM Tracker for Android is inspired from OSMTracker for Windows Mobile, allows to track the journeys, mark waypoints with tags, voice record, and photos. GPS traces can then be exported in GPX format for later use with OpenStreetMap tools like JOSM, or uploaded directly to OpenStreetMap.



## BENEFITS OF OPENSTREETMAP FOR PUBLIC TRANSPORTATION

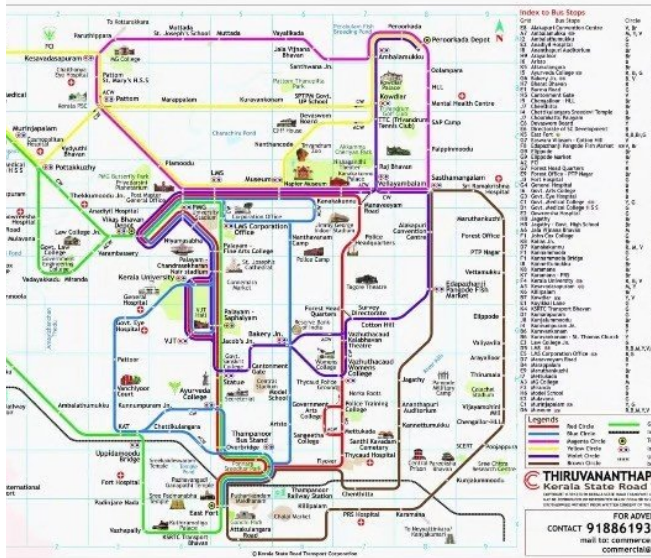
OpenStreetMap offers several benefits for public transportation, including **real-time updates**, **customization options**, and **integration with other services**. By leveraging OSM data, cities and transit agencies can improve their public transportation systems and provide better experiences for commuters.

## WHAT IS THE PROJECT



Collect and digitize public transportation data of bus routes in Trivandrum. Validate and verify the accuracy of the collected data to ensure reliability and consistency. With the help of transit authorities, and volunteers to gather public transportation data. Utilizing GPS devices, mobile applications, and existing data sources, we will collect information on routes, stops, schedules, and other relevant attributes. Quality assurance processes will be implemented to verify the accuracy and completeness of the collected data.





## PUBLIC TRANSPORTATION IN THIRUVANANTHAPURAM

The Thiruvananthapuram City Circular is a bus service operated by the Kerala State Road Transport Corporation (KSRTC) in Thiruvananthapuram, the capital of Kerala state, India. The service was launched in 2021 and currently operates on a circular route covering all the major parts of the city. The buses ply every 15 minutes during peak hours and every 30 minutes during off-peak hours. This is the first public transportation system in Kerala with Hope on Hope Off model.

## CONCLUSION

**Mapping the Way** on OpenStreetMap enables us to create a comprehensive and accessible public transportation database. By contributing to this collaborative effort, we can drive positive change in our cities, making public transportation more efficient, sustainable, and user-friendly.

# Thanks!

Do you have any questions?

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