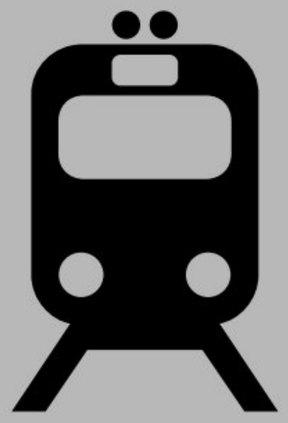
In a rapidly growing metropolitan area, the public transport system is struggling to keep up with increasing demand. Passengers frequently experience long waiting times, overcrowded vehicles, and unreliable schedules.

Potential solutions may involve implementing advanced scheduling algorithms, using real-time data analytics to adapt to traffic conditions, investing in new vehicles and infrastructure, and promoting multi-modal transportation options.

This real-world problem highlights the multifaceted nature of public transport optimization, where the goal is to create a system that meets the growing demand while minimizing environmental impact and enhancing the overall quality of life for residents.



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