

Line-planning tool: improvements Additional-features, challenges

Also: propose to integrate with timetabling & rake-linking

Passenger satisfaction

- Maximizing operator's revenue and maintaining high level of passenger satisfaction
- Location based model can be build to minimize the access times to with connecting lines(Shortest route decision)

Operation logistics

- Location of rakes and depots
- Location of siding lines
- Synchronization with maintenance schedules

Revenue maximization

- Having average 50 to 70% occupancy
- Provide schedules at off-peak hours to integrate across lines and minimize waiting times

Data Integration:

- Real-time data integration
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Propose maintenance schedules

- Maintenance staff: often under-staffed
- Propose staggered location-based maintenance schedule
- “Rotate” the rake-location each night to have different maintenance facilities at different locations
(do not repeat rake-stabling pattern each night.)