IGSA Labs

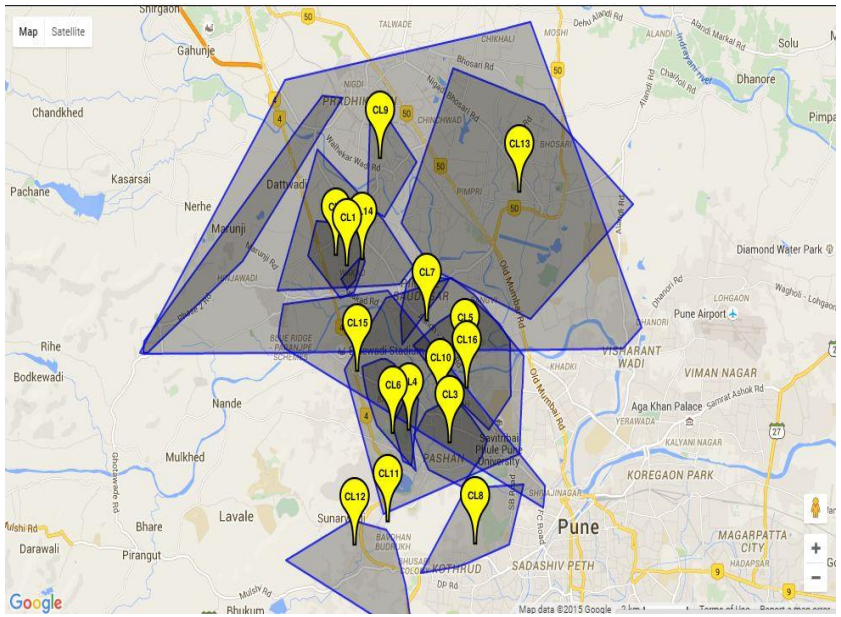
INTEGRATED GENERAL SYSTEMS ANALYSIS
www.igsalabs.com

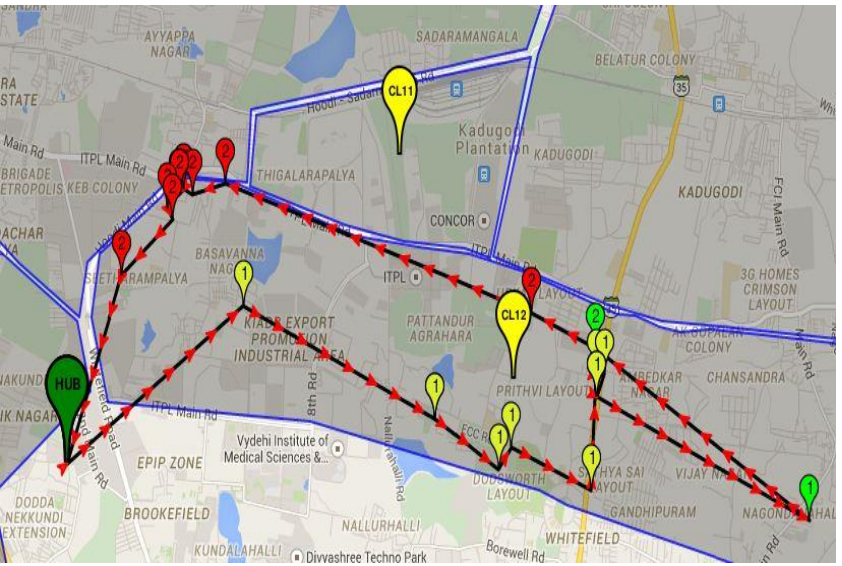
Order Vehicle Routing and Assignment Case Study

Maximize Contribution / Minimize Total Cost to Serve with IGSA Optimization Platform

IGSA

Case study : Order Vehicle Assignment and Routing for largest Online Grocery Store





Challenge

Complexities of distribution problem

- Orders / Customers are random in nature
- 150 minutes delivery time window
- Only 45 minutes planning window for route planning
- Hub is planning unit and each hub further divided into clusters-based traffic pattern / serviceability / major junction crossings
- Each hub will have preferred vehicles and only excess orders will be assigned to market based vehicles
- Report constraints violated orders (drop orders) for every cluster

Solution

IGSA customized its property algorithm as per online grocery requirements. Highly automated solution.

Orders and available resources (trucks) will be pushed by scheduled job to IGSA server and IGSA server will assign the order to vehicle and push back order-vehicle assignment with routing and delivery sequence.

Result

7- 10% saving in transportation cost