Managing the Flows of Trucks generated by Major Construction Sites at Lyon Part Dieu to ease traffic

1. Customer

Lyon Part-Dieu Publicly-Owned Local Development Corporation (SPL)

2. Context

Nearly 50 major construction projects will be set up over a 5-year period around the Part-Dieu train station, significantly impacting the traffic and, more broadly, the quality of life in the city of Lyon. To become acceptable, these worksites will have to be completed efficiently, while also generating a minimum of disturbances for the people living or traveling in the area.
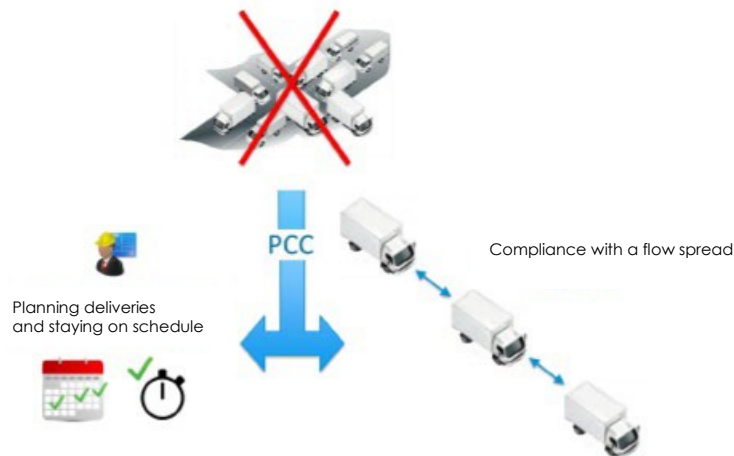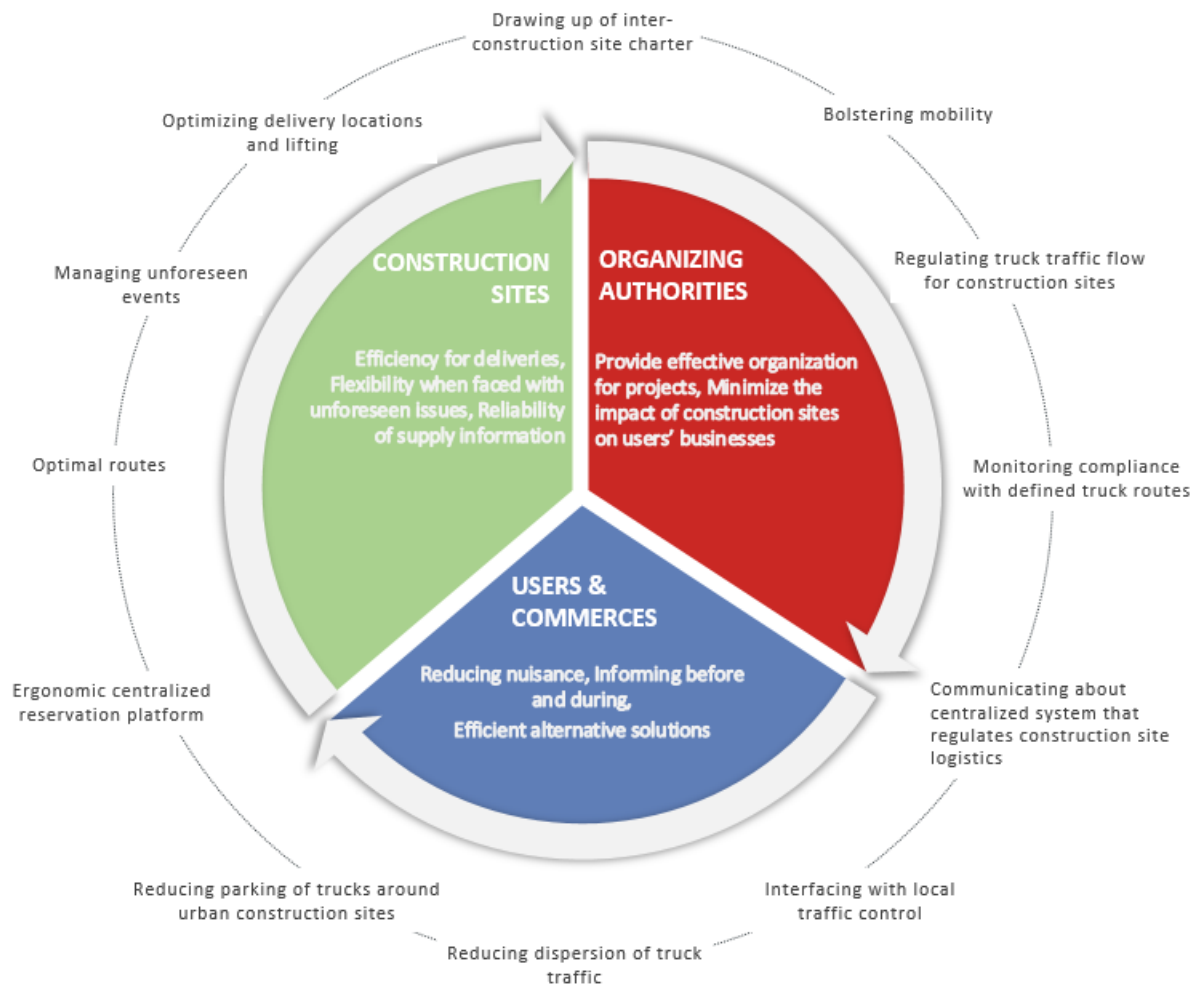

3. Scope of the Contract

Design and operation of a centralized system to monitor the site logistics (Central Command Center - CCC).

4. Solutions, Provided Services and Results

Mobility by Colas has established a consortium capable of providing a technical and organizational response that can meet the challenges of this project. It was first necessary to define the various areas of expertise required to carry out the various tasks.

The implemented solution meets the expectations of all the stakeholders:

Drawing up of inter-construction site charter

Optimizing delivery locations and lifting

Bolstering mobility

Managing unforeseen events

Regulating truck traffic flow for construction sites

CONSTRUCTION SITES

Efficiency for deliveries, Flexibility when faced with unforeseen issues, Reliability of supply information

ORGANIZING AUTHORITIES

Provide effective organization for projects, Minimize the impact of construction sites on users' businesses

Optimal routes

Monitoring compliance with defined truck routes

USERS & COMMERCES

Reducing nuisance, Informing before and during, Efficient alternative solutions

Ergonomic centralized reservation platform

Communicating about centralized system that regulates construction site logistics

Reducing parking of trucks around urban construction sites

Interfacing with local traffic control

Reducing dispersion of truck traffic

5. Duration

- March 2019 – February 2022: 36 months + Optional Phase March 2022 – February 2024: 24 months

6. Contractual Framework

- Public services contract

7. Innovative Features / Operational Experience

The creation of routes including monitoring and timing areas and dedicated schedules for the logistics of heterogeneous operations over a vast area, such as the Part-Dieu business district, is an innovation all in itself. The coordination of information exchanged between the facilities in the various areas and the platform, as well as between the specific logistics tools of each worksite and the platform are key issues for this project for which we have provided reliable, flexible and effective solutions.

The equipment deployed in the field included access control devices (QR code reading terminals linked to the reservation system) and user notification devices (displays of the areas), which enabled automating the process and creating a smooth flow of vehicle traffic procedures. The main challenge was streamlining the work of the teams operating the system and improving system reliability as much as possible.