**Air cargo ground operations optimization:**

**A service vehicles coordination problem**

Flight delays are one of the most important KPIs for air transport systems. Knowing that suboptimal ground operations have a highly negative impact on them, we seek to optimize the coordination between the different ground service equipment (GSE). As each ground operation requires a fleet of vehicles to serve different clients within a defined time interval, we decided to tackle the problem as a set of VRPs with time windows. Each VRP refers to a given ground operation and is characterized by heterogeneous fleets, multi-vehicle services, capacitated vehicles, multi-location services, forbidden and compulsory pairings, multi-operation vehicles, split deliveries, and dynamic data. Additionally, some vehicles are bound together through temporal, movement, or load synchronization constraints. We propose a heuristic approach centered on aircraft and using recursive procedures that optimizes the journey of the GSE, considering all these problem features.