Development of Optimisation Tool for Local Freight Service

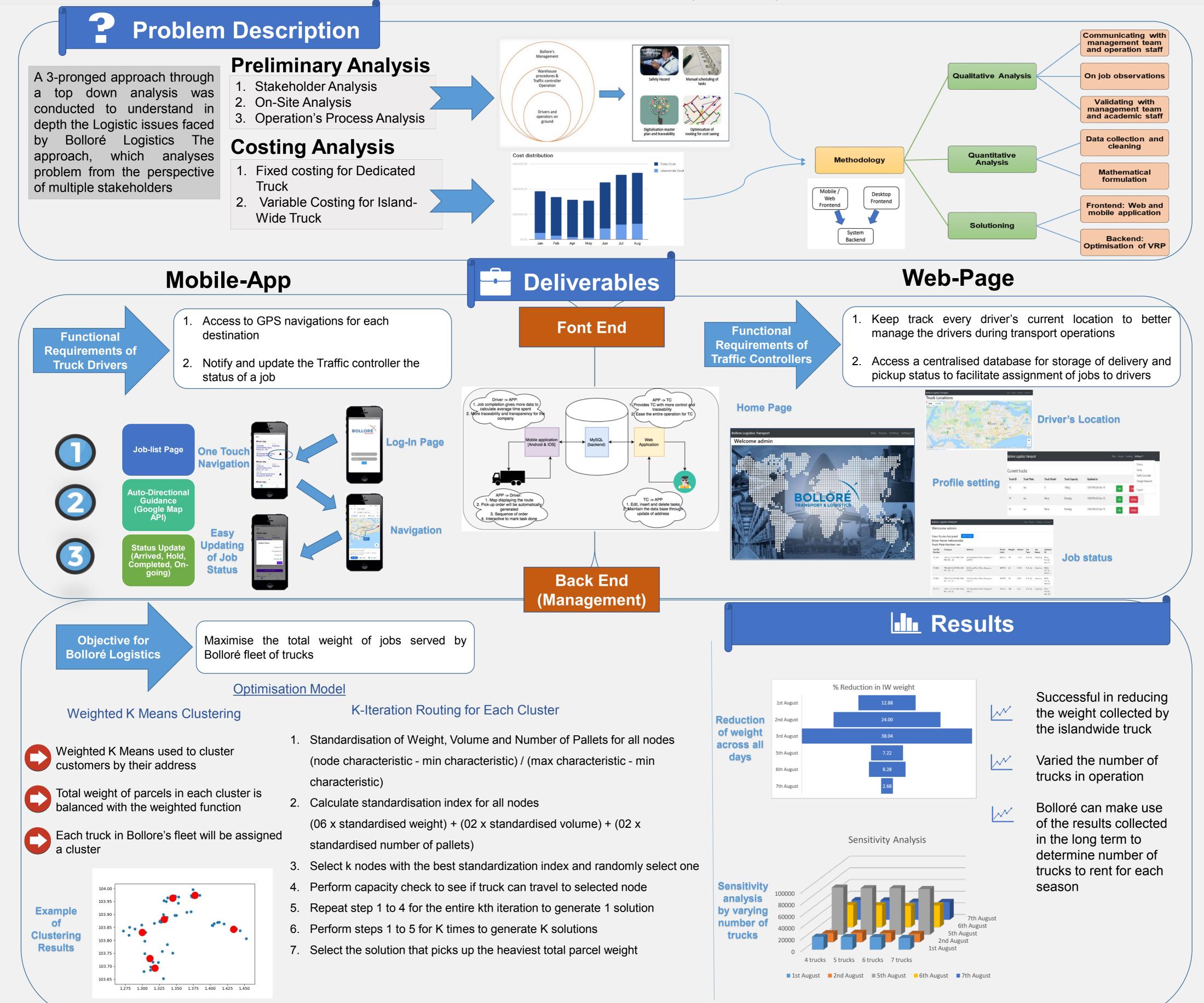
DEPARTMENT OF INDUSTRIAL SYSTEMS ENGINEERING & MANAGEMENT

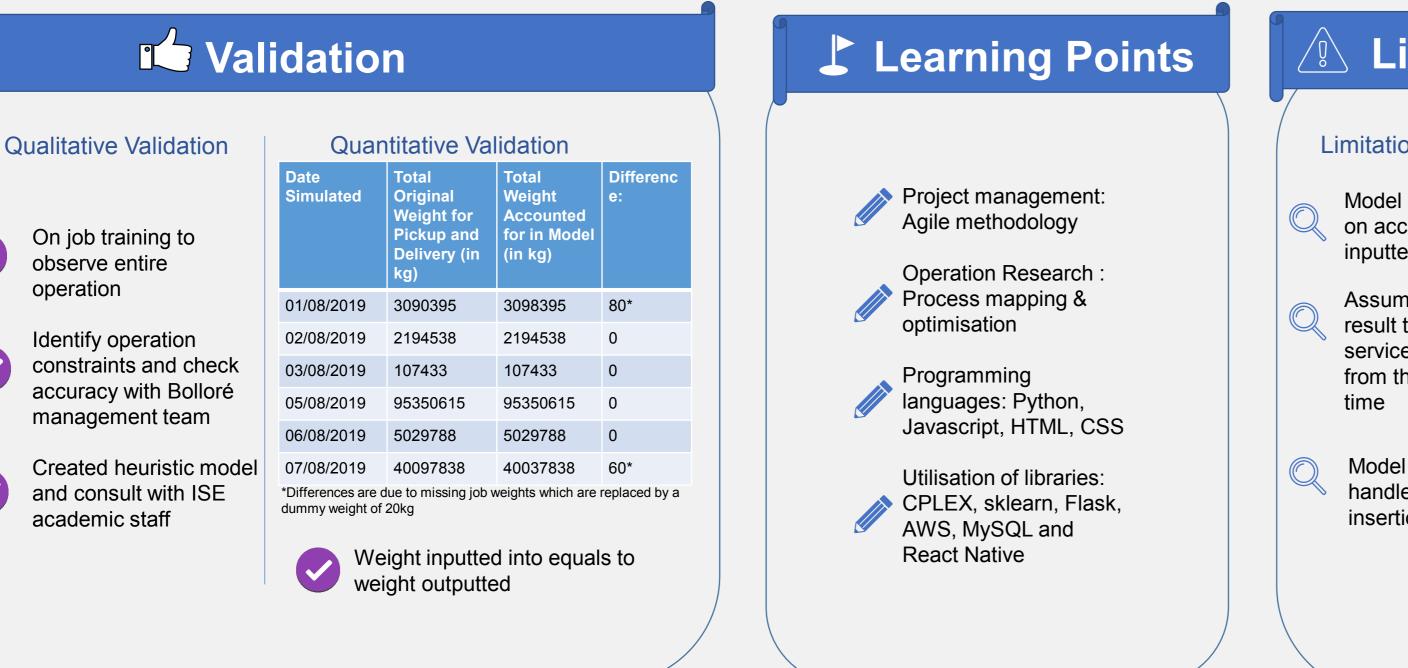
National University TEAM MEMBER: CHO CHIH TUN, LIM HONG CHO, TANG WAI KIT, XIE NANZHENG

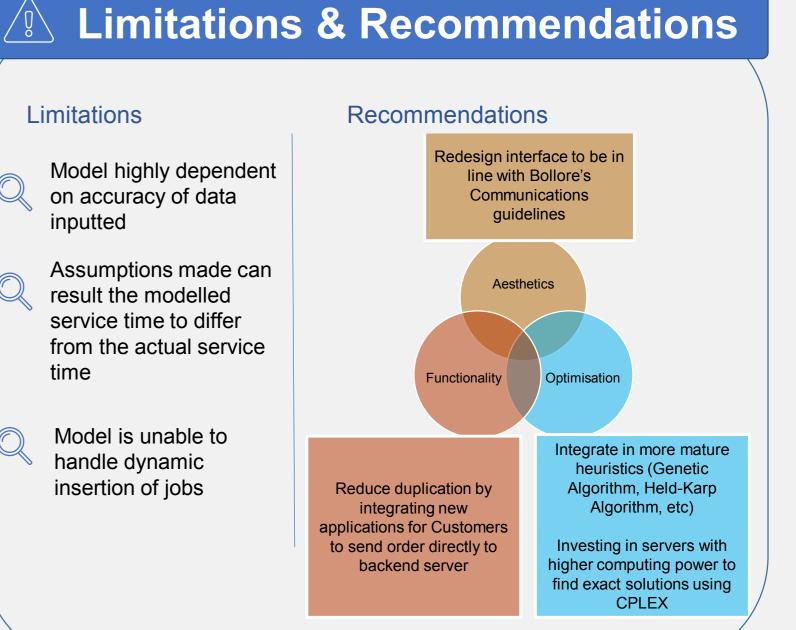
of Singapore

DEPARTMENT SUPERVISORS : PROFESSOR ANDREW LIM, ASST/P ZHANG ZHENZHEN INDUSTRIAL SUPERVISOR : MR LEE JING WEN

Abstract: Bolloré Logistics is interested in developing an optimisation tool for its local freight pickup and delivery services The current allocation of trucks to complete the pickup and delivery services are completely manual Besides the need for an optimisation model, it was identified at a later stage that there were certain operational issues affecting the efficiency of the transportation service Such as ineffective dissemination of job orders from Traffic Controllers to Drivers and primitive communications methods that pose safety issues to Drivers An integrated solution including frontend (Web and mobile application) and backend (database and optimisation model) is developed to solve the problems identified The integrated solution is validated both qualitatively and quantitatively with Bolloré and academic supervisor Comparison of results has also shown that the proposed solution is capable in reduction of leftover orders thus resulting in cost savings for Bolloré







BOLLOR

LOGISTICS