

Operational Excellence

Operational Excellence is all ab't the process , methods and tools adapted to create a Sustainable Improvization and the value that it brings in day today business, For example Predictive supply chain , Workforce optimization, Automated invoicing. In addition to these, the intellectual solution of JKT is Predictive maintenance , the data is collected, analyzed, and consumed from various manufacturing devices like machines, sensors, switches, etc. Artificial Intelligent algorithms are applied to the data to anticipate equipment failure before it happens and predict the efficiency of the equipment, its durability & time to its cease.

How JKT helps our customer in the digital transformation journey

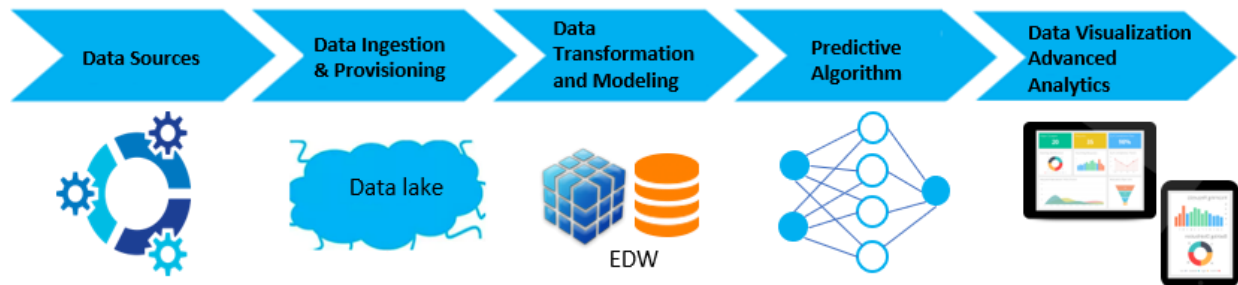
Client is a major public transportation based in Texas, USA. They Operate buses, light rails and so on. The organization was continuously increasing the maintenance cost, which was resulting in direct loss of profit

- Unforeseen breakdown of vehicle parts resulted in unplanned down-times, which raised safety concerns



- Periodic full-maintenance forced the company to replace all vehicle parts, including the ones that were in perfect working conditions, underutilizing fresh accessories and thus increasing TCO

The data was extracted from various sources and stored in the data lake, from there the data was cleansed and transformed in EDW layer. The predictive algorithms were applied to these data and the reports were displayed to the registered smart devices.



This solution helped them to move from their regular preventive maintenance to the Predictive maintenance model, and they were able to create a sustainable improvement by

- Skipping unnecessary replacement of parts.
- Reducing Periodic maintenance cost
- Planning on when to change consumables

