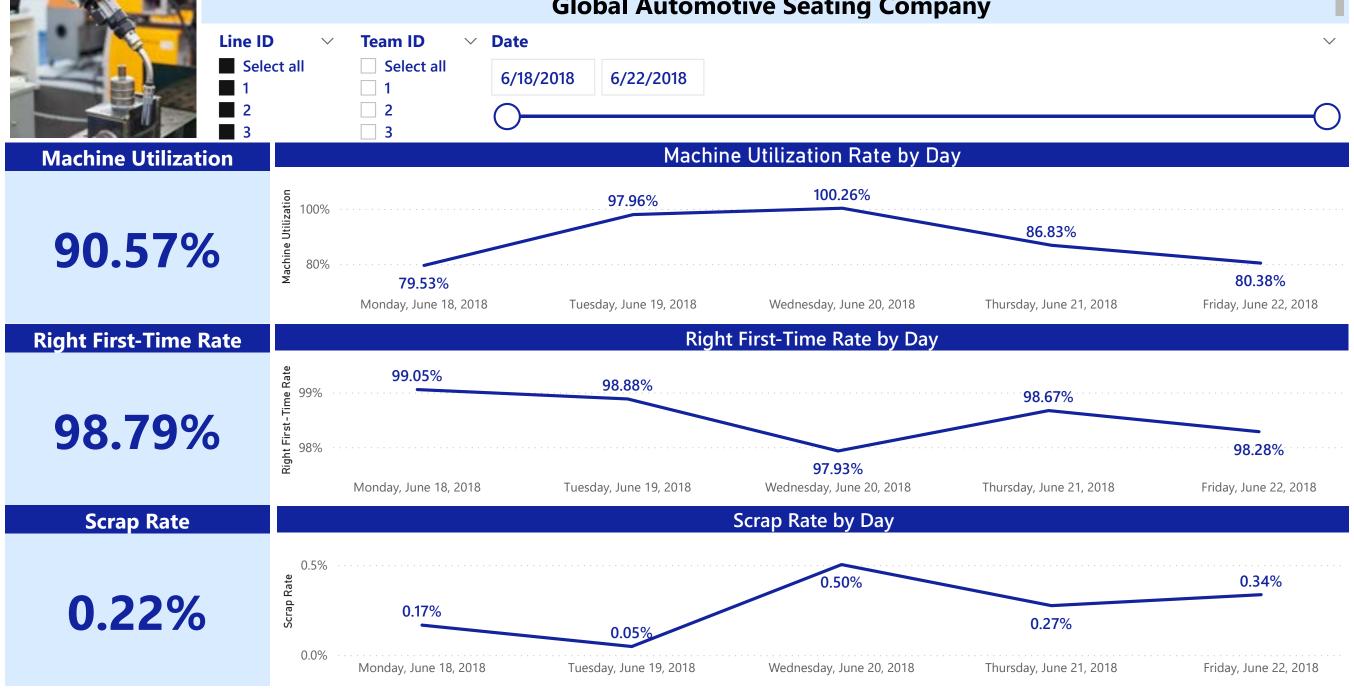
Global Automotive Seating Company



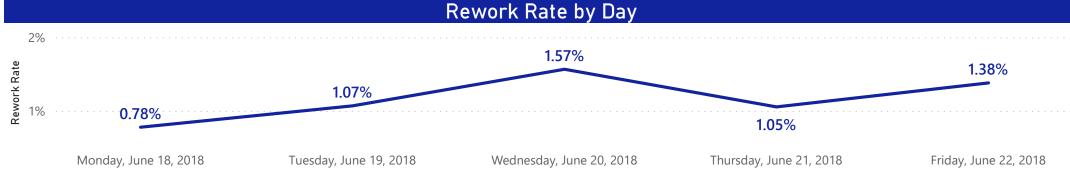


Global Automotive Seating Company



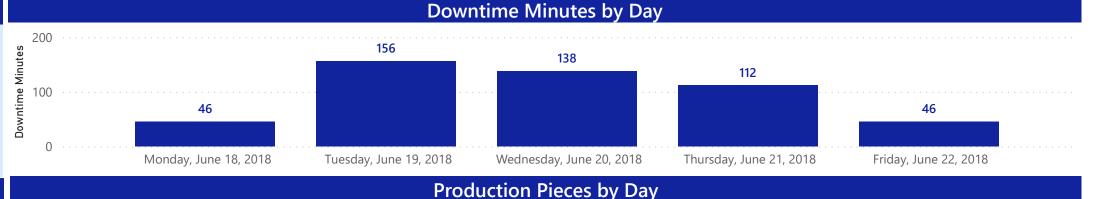
Rework Rate

0.99%



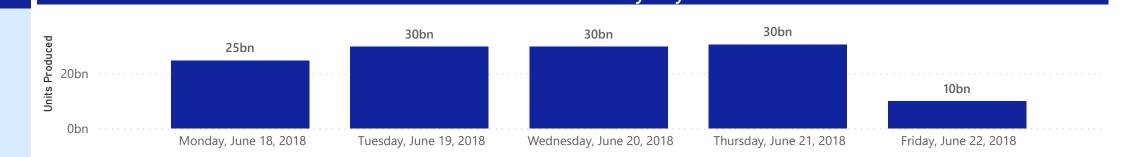
Downtime Minutes

498



Production Pieces

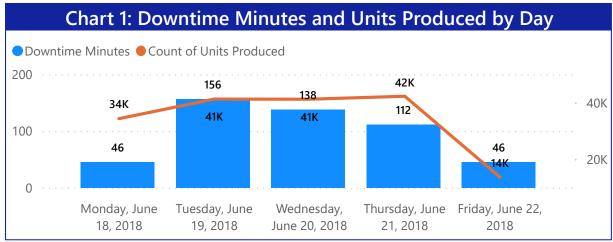
170265





Global Automotive Seating Company





Production Pieces

170265

Insights:

Chart 1: Production Line 1 is the most efficient.

Line 1 produced the most pieces at 63,312 out of 170,265 pieces (37.2%) and has the lowest rework (0.87%) and scrap (0.20%) rates. It has the highest downtime of 217minutes (43.6% of total downtime). This suggests that a possibility of a preventive maintenance contributes to healthy machines and efficient production.

Chart 1: Team 2 is the key performer in terms of overall contribution.

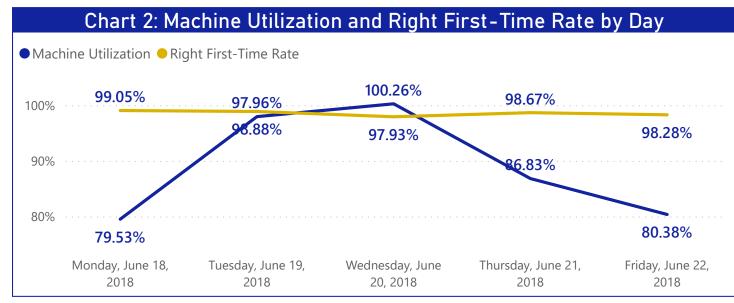
Team 2's machine ultilisation and the right first-time rate is the highest among other teams for all 3 production lines. There is a high possibility that Team 2 may have more trained staff at handling more complex products, hence other teams can do better with more support.

Chart 2: Inefficient usage of resources.

Chart 2 shows poor metrics at the start and end of week and over utilisation in the middle of the week. There may also be other potential elements at play such as delay in shipping time and under planning of raw materials, supplies, etc. Hence, we advised to reallocate resources to maximise and save on operating costs.

Conclusion:

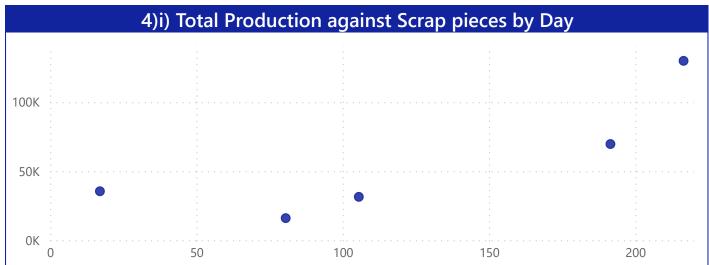
A good preventive maintainance, cross-training by team 2 for other teams, and optimising resources by shutting down one of the production line during one of the days when machine ultilisation is low can help save operating costs.



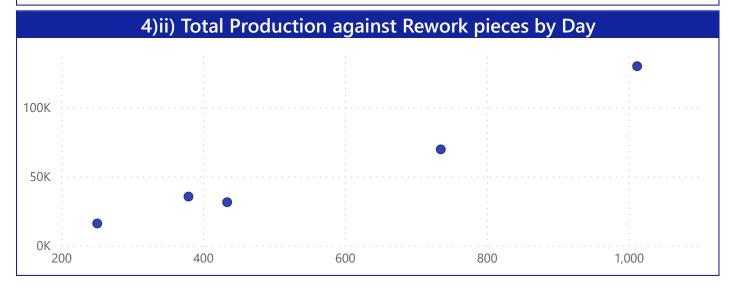


Global Automotive Seating Company





4)i) Unable to ascertain correlation between total production and scrap pieces produced as there is an outlier.



4)ii) Total production and rework pieces have a correlation coefficient of 0.98, meaning that the number of rework pieces tends to increase almost exactly proportionately with total production.

Correlation Coefficient for Total Production against Rework pieces

0.98

Appendix:

The scrap rate is derived from the DB Right First Time database. There are 2 values for ScrapFBE and ProductionFBE from 2 different tables, DBRightFirstTime or the DBMachineUtilization table as understood from trainer that we are free to use either of the numbers for the visualization.

Working hours is not taken into consideration, hence date is converted to day level.

Assume that the downtime type is the same as information is not provided.

Assume all Production Lines produced the same items as item information is not provided.

Assume that for every item is one unit produced.