LineView - Data Accuracy, Visualisation & Causal Loss

A Belgium site of one of the biggest global brewers recently started a trial of LineView. The system installed on one of their KHS high – speed glass bottling lines and is picking up existing signals from 13 machines.

LineView is being trialled with the intention of replacing older systems that either don't have the resolution or the visualisation of the data necessary to be actionable.
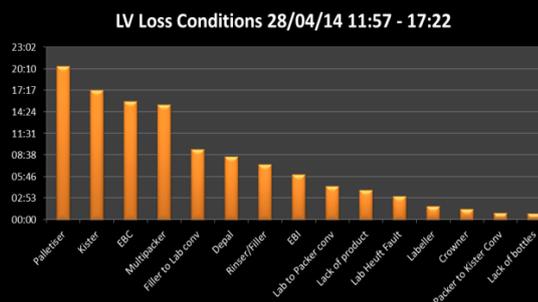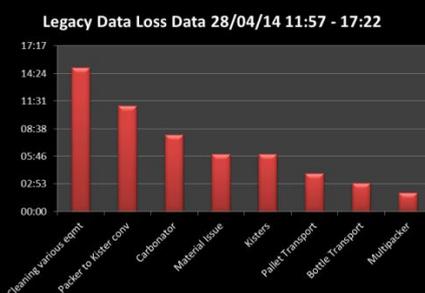

The problem

The previous system's information is inaccurate, not well visualised and only has manual loss allocation for stops over 3 minutes (no true causal loss), and it's therefore very misleading for decision making.

The preparation for the morning meeting takes 30 minutes per line to go through the report and analyse every stoppage to identify the greatest cause of loss. This report is in the form of a table which makes it difficult to quickly identify the cause of concern. Apart from that it does not allocate minor stops, hence the machine that is contributing to the greatest loss is not accurately identified.

In one test period, LineView allocated a total loss of 1:57:18, whereas by comparison, within the legacy system on site, an operator had allocated a total loss of 0:55:01. LineView allocated a total loss of 99.3% and in the old system only 46.3% of the total loss was allocated.

As well as lower loss allocation in the legacy system, the top faults were different to what LineView had identified.
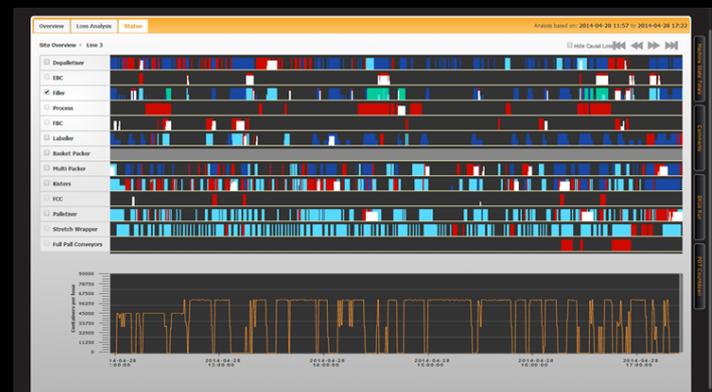
How we helped

LineView presents the data in an easy to read format for quick analysis, reducing the time to prepare for meetings. Also rather than querying if the stoppage data is accurate, the time can be better utilised to identify actions to resolve the issues.

The Loss Analysis page provides all information regarding the top losses on the line in the given time frame.

All done automatically with a click of a button.

The Status page helps identify the patterns of loss in the given timeframe for all the main line equipment. It also visually identifies which stoppage caused loss to the line (white bars) providing true causal loss.

The accurate data visualisation provided by Lineview helps to drive immediate action in order to resolve issues fast, but it also helps the team to spot patterns and be pro-active to avoid further expected problems on any machine on the line.

Lineview's advanced logic takes the data analysis, manual recording and number crunching away from the shop floor team thus saving time and allowing the operators to focus on the true root cause and increase the overall line OEE.

The results

Accurate data, clear focus, improved results.

LineView is now being used to exactly quantify the impact on line efficiency and OEE, and has even been able to identify the pattern when the issues occur.