

EXAMPLE FOR MANUVATE CHALLENGES FORMULATION

CHALLENGE TITLE:

HQ in the USA while the main production plant in ASIA. No live data available for quality control, prediction, and forecasting

CHALLENGE DESCRIPTION:

Problem in acquiring live production data for few types of main products from the HQ in California as the main production plants situated at the Malaysia and Singapore. Quality Control cannot be done frequently & require a long time for each QC cycle as it require the specimens to be courier over from Malaysia and Singapore.

At the same time, production quantity cannot be monitored with live data. Visibility to the production-related data is minimum.

CHALLENGE DETAILS: BACKGROUND:

Steady growth in the past 3 years led to increased in production of electronic devices, but due to production cost, the main manufacturing plant is located in Malaysia and Singapore. But the quality of the product falling, besides that, the HQ facing challenge in remote monitoring of the production quantity. No data capture during the production processes, therefore, no data analytic can happen for forecasting and statistical prediction.

CAUSE ANALYSIS:

Who - The product quality and business impacted by lack of production data visibility. This affecting both the customers and business.

What - Due to geographical and time zone reason, physical monitoring and acquiring live data is not possible at this stage. Technology to solve this needed.

When - Problem identified 2 months ago but not able to acquire solutions due to the lack of expertise in remote monitoring of production line.

Where - The problem occurs in the production line in Malaysia and Singapore. Data capture was very minimum in production plant.

Why - The problems need to be fixed as this is currently impacting the business as the production and quality being impacted from this challenge.

GOAL:

Require remote monitoring for both production and quality management. Data must be captured in every processes in order for data analytic to happen.