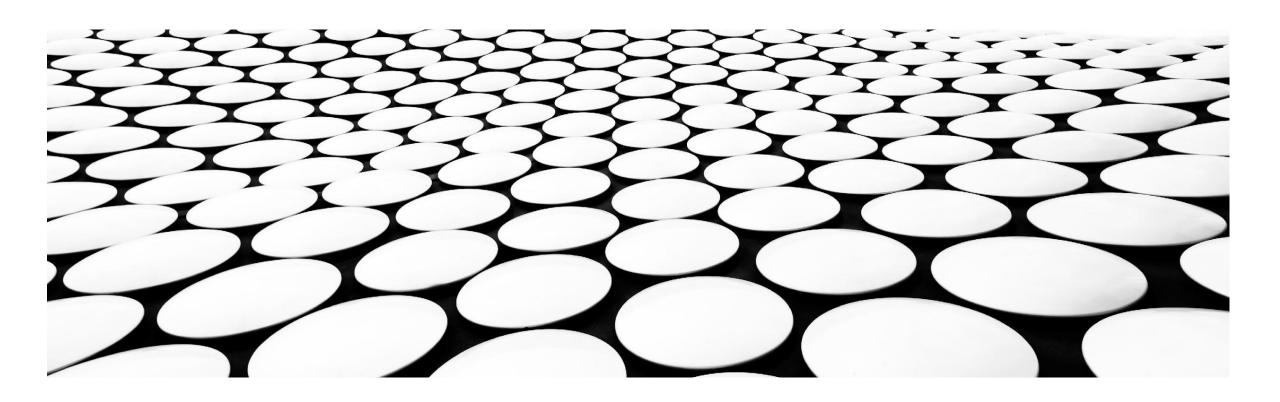
GE VENTILATOR FLUCTUATING DEMAND



AGENDA











EXECUTIVE SUMMARY

Problem: Ventilator demand in surge, but

ventilator supply constant

Reason: Unexpected emergence of the

fatal COVID-19 pandemic

Solution: Identifying and addressing bottlenecks

in the production process

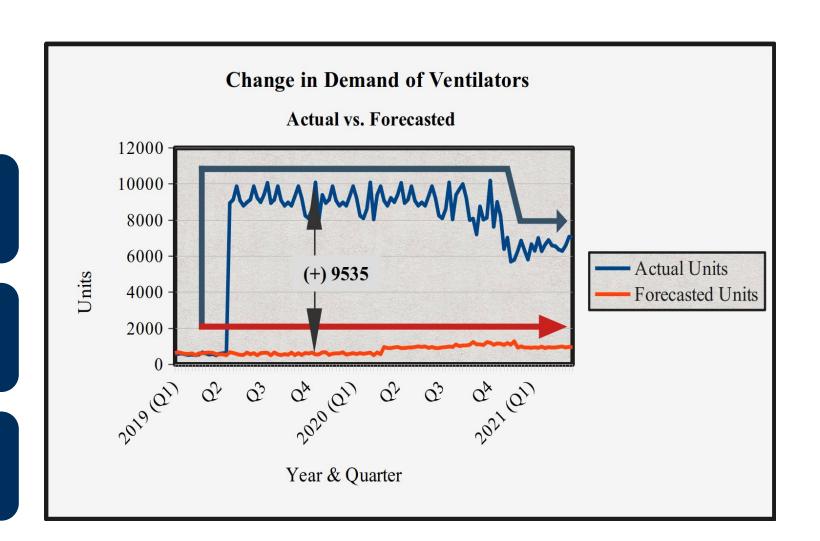


DATA ANALYSIS

IQM and SD of Actual data: **8406.9** & **752.05**

IQM and SD of Forecasted data: 766.9 & 148.6

Difference in the two averages: **7639.9**



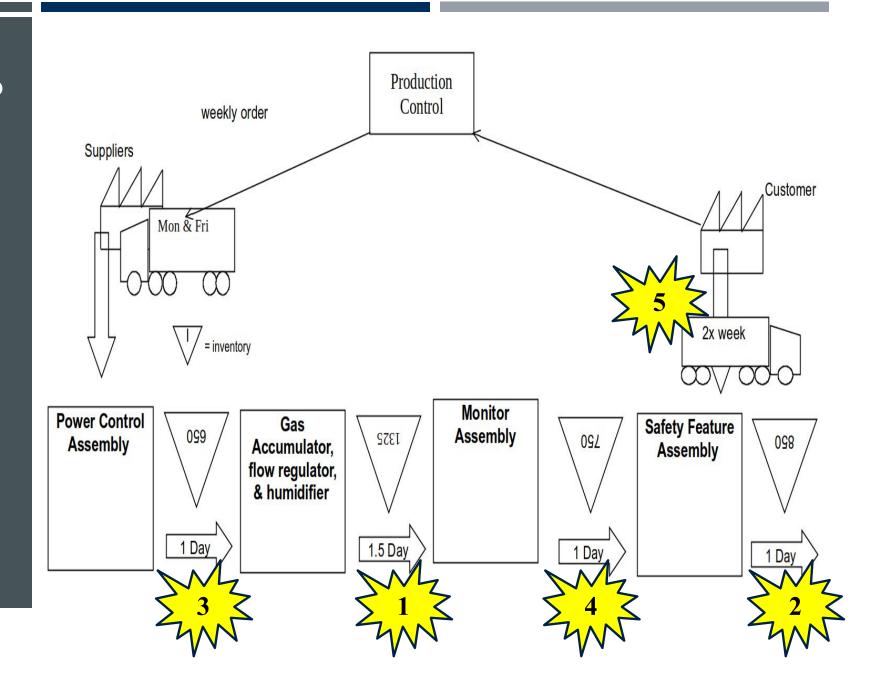
VALUE STREAM MAP FINDINGS

Bottlenecks are similar at all four inventories, with the largest one being at the **second inventory**.

No inventory management or scheduling system exists.

Takt time of 314.53 seconds is less than the total process cycle time (CT/VA) of 351 seconds.

Delivery is either stagnant, or untimely.



CURRENT & FUTURE CHALLENGES

People	Process	Technology
Pandemic (demand) forecasting	Logistics congestion	Change in engineering and manufacturing standards
Government restrictions and regulations	Raw materials and intermediate goods scarcity	Composite and cost-effective materials
Talent acquisition, HR management, and skills development	Quality assurance	Provisional solutions for scalability

NEXT STEPS



Build and maintain a *rapport* with **public health officials** and **hospitals**.



Maintain and periodically rotate a **buffer stock** (JIC). Implement the **FIFO** and **Heijunka** models (JIT) on the main inventories to avoid pile-ups.



Implement the **Kanban** scheduling and **supermarket** management systems.



Be prepared to reliably **rent** additional **equipment**, & **hire** temporary **personnel** at a moment's notice.