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Demand Planning & Inventory Dashboard

MANUFACTURING & OPS

THE PROBLEM

Weekly production was ramping with no visibility into output scaling, inventory on hand, or how customer orders would draw it down.

WHAT WAS BUILT

- **Tracks weekly production**, current inventory, and how capacity is ramping in one visual dashboard
- **Connects directly to** the CRM so new customer orders flow in automatically
- **Decrements inventory in** real time as orders come in, so supply and demand are always in one view

CONTEXT & PROBLEM

Weekly production was scaling fast with no visibility into output trajectory. Capacity was doubling on a predictable curve, and no tool tracked where it was headed.

Customer commitments were managed in spreadsheets and memory. Recurring weekly orders, one-time pickups, and tentative holds were not consolidated anywhere.

No way to answer the basic question: given current production and known orders, when does inventory run out?.

AI SOLUTION

Capacity projection engine models production with an exponential doubling formula, with manual overrides for weeks where capacity deviates from the curve.

Recurrence engine expands weekly, biweekly, monthly, and quarterly commitments into concrete scheduled deliveries, merged with one-time orders from the CRM.

Drag-and-drop week and month views with utilization color coding let operators reschedule commitments and immediately see the impact on capacity.

VALUE AT STAKE

Real-time supply-demand visibility replaced a mental model that broke every time a new customer came on board.

Recurring order automation eliminated the weekly spreadsheet reconciliation that consumed the first hour of every Monday.

TV dashboard mode gives the production floor a live view of upcoming demand without needing to check a phone or laptop.

Full video walkthrough available at heildigital.com/portfolio/demand-planning