



Trellis: Supply Chain Control Tower

Optimize demand forecasting, manage inventory, and plan for replenishment

As a retailer, you may have an abundance of data. But what you don't have is a way to aggregate the data down into comprehensive visualizations. **Deloitte's Trellis** is a cloud native, artificial intelligence enabled suite of solutions built on Google Cloud providing that needed visualization so that you can bring transparency to your operations, understand decisions about rapidly changing demand shifts, identify value, push resolutions, and forecast using a day-to-day exception-based tool. Deloitte's Trellis provides the ability to integrate with critical tools and accelerators inside and outside of your business to provide an agile, resilient retail platform that can support your long-term growth and savings.



Enable value-added decision making through AI



Predict demand forecasts and enable insights with artificial intelligence and machine learning (AI/ML). **Gather insights, guide decisions, and mitigate risks**



Trellis Demand Sensing: Forecasting



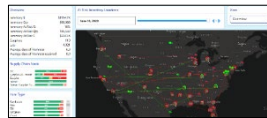
Provides a **comprehensive, transparent supply chain network view and ability to incorporate data and trend modeling**—all of which works to reduce risk and inefficiency in the supply chain



Consensus Order Generation



Increase **operational efficiency** with integrated end-to-end (E2E) visibility and quality. Enable decision-based pricing to **improve sales and profitability**



Trellis Replenishment Manager

20%

Improvement in fill rates, while reducing overall inventory costs by 2x

15%

Increase in sales revenue through better pricing and Ad placement

5x

Reduction in margin loss from stock outs and sub-optimal ordering



Allow for enhanced **best fit forecasting**, enable rapid response to changing demands and needs within the marketplace



Customize functionality for your user-specific needs to create a **tailored and intuitive interface. Improve demand / supply chain business operations** with enablement of visualization metrics



Lessen burden of data collection and improve the ability to analyze data. **Reduces manual effort** by incorporating process automation and standardization

Making it real: MarineTraffic



CHALLENGE:

Companies that have inventory at sea face difficulties managing & monitoring vessel schedules and sharing voyage intel due to siloed technology. A significant amount of time is also spent monitoring handoffs placing high-priority inventory at risk. And non-standardized inventory processes create suboptimal container prioritization and demurrage fees. Companies need an intelligent logistics control tower solution, built for container shipping, that allows them to identify inventory bottlenecks and efficiently manage vessel operations.

SOLUTION: Google Cloud + MarineTraffic by Deloitte

This Trellis Control Tower solution built by Deloitte supports and drives highly connected systems within a supply chain ecosystem. It makes possible near-real-time decision making for high-priority promotional inventory and provides crucial inputs to logistics coordinators when they have influence over outcomes. Clients now have visibility into item quantities in containers at locations throughout the supply chain.



Trellis Control Tower:
MarineTraffic by Deloitte



MARINE PLANNING AND COLLABORATION

Enable common platform for internal supply chain roles with highly configurable user role provisioning. Ability to externalize data to schedulers, charterers and suppliers to manage the inventory lifecycle



LOGISTICS DECISION SUPPORT & ANALYTICS

Provides coordinators and team specific actions/notifications, as well as task management, analytical insights, and additional performance / exception reporting for increased resource efficiency



REAL-TIME CONTAINER POSITIONING

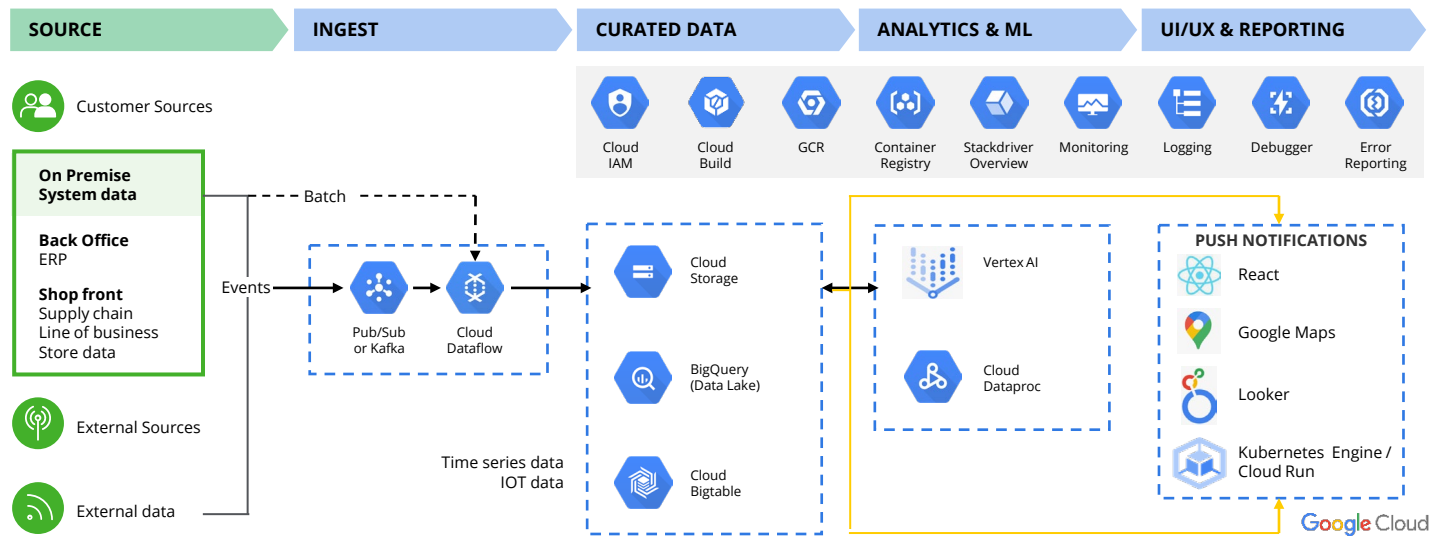
Monitors vessel / container positions and uses data to predict ETA, prescriptively identify at-risk inventory, and reduce port congestion



NETWORK INVENTORY SNAPSHOT

Allows user to take holistic view of high-priority inventory at location and container levels throughout supply chain network. Enables scenario analysis and decision support to help ensure in-store availability

Trellis Reference Architecture



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