LOGISTα

CASE STUDY
COVID-19

Logista was used in the field as the primary inventory tracking system at several Alternate Care Sites (ACS) during California's COVID-19 emergency response.

THE FIRST LOGISTICS SYSTEM FOR DISASTER RESPONSES

Like much of the country, California's COVID-19 response was plagued with a shortage of medical material and PPE. The founders of Logista experienced this first hand while deployed as command section chiefs tasked with running alternate care sites (ACS) during the first wave. Tired of not having the supplies they needed, Ethan and Drew built Logista in between deployments to fix the problems they saw. Logista is the first rapidly deployable logistics management system that tracks material across the entire disaster response.

OVERVIEW

Logista was created as a lofi MVP using Google Workspace and Google Query Language (GQL). Logistics activities were tracked using a web form, which wrote to an activity log that was queried to provide real-time metrics for each site. Prior to Logista, each site was tasked with developing their own system (pencil and paper, spreadsheets, etc.), which resulted in the inability to have accurate, real-time accounting across the response. California EMSA used Logista across all ACS locations as well as it's primary warehouse.

"When deploying millions of dollars of assets and medical supplies during an emergency, Logista took all the headache and stress out of logistics.

Logista let us focus on what was important: providing life saving care and treatment to those in need.

~Department Operations Center Logistics Chief
Head of California EMSA Logistics, COVID-19 Response

GOAL MEASUREMENT

Logista was deployed to correct systemic issues with the COVID-19 response. Success was measured by:

- Ability to provide medical material to field sites to meet daily mission needs (fulfillment rates, inventory accuracy, emergency resupply needs).
- Improved efficiency of response operations (reduction in labor time, labor costs, shipping time, and shipping costs).

Prior to Logista, material tracking was very manual and inaccurate.

CHALLENGES

1 **Fragmentation**
Each site had a different tracking system. There was no continuity of data between sites, and personnel had to be retrained when redeployed to a different response location.

2 **Inaccurate Data**
Spreadsheets were the primary tool used during the response. These were difficult to maintain and often broke, creating unreliable data.

3 **Delayed Reporting**
Field teams relied heavily on manual cycle counts and paper 213RRs to track their inventory levels. Inventory data was often days-old at best.

SOLUTIONS

1 **One System = Standardization**
Using Logista at every response standardized processes, naming conventions, data collection, and training. Personnel could now be redeployed to any response without additional training.

2 **Simple to Use**
Logista used a simple web form to track all inputs. This drastically increased data accuracy while decreasing training time from days to minutes.

3 **Real-time Data**
Custom algorithms automated the data, resulting in real-time counts, burn rates, and analytics that could be viewed by anyone, anwhere, any time.

RESULTS

Logista transformed how the agency managed the COVID-19 response. It drastically increased inventory accuracy and fulfillment rates, while significantly decreasing man hours and transportation time/costs.

98%	Data Accuracy **IMPROVED from 28%**
88%	Fulfillment Rates **IMPROVED from 33%**
87%	Transportation Costs **DECREASED**
70%	Man Hours **REDUCED**

FUTURE PLAN

- Logista won awards for its innovative approach from the United Nations International Computing Centre and Columbia University.
- The next version of Logista will be a fully integrated warehouse and field solution launching in 2024 through invitation only.

α **Logista**
Built by Responders

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