Get Us PPE

Our mission is simple: get personal protective equipment to the frontline workers who need it most.
Who We Are

● Largest national non-profit getting PPE to frontline workers
● Founded in March 2020 by emergency physicians
● Started as craigslist-style posting board for PPE donations & requests
● Now we have the largest non-governmental database of PPE shortages nationwide
● We’ve delivered millions of pieces of PPE free of charge
● We’re doing this in an entirely new way. New technology. Changing the future of disaster relief.
How Get Us PPE Works

- Frontline facilities request PPE on our site
- We source PPE donations and fund maker-made PPE
- We match PPE with facilities in need
- Regional volunteer teams help with last-mile deliveries
- Our national team = 150+ daily active volunteers on slack. Never met in real life.
Our Innovation: 3 pronged system

We rapidly deployed digital tools

Collected mass PPE supply and demand data

Created a novel algorithm for matching
Our PPE Shortage Data

- We’ve received over 19,800 individual requests for PPE from frontline facilities since March.
- We’ve seen a 240% increase in number of requests in December so far compared to this time last month.
- In recent months, over 90% of requests for PPE have come from smaller facilities rather than hospitals -- places like clinics, nursing homes, home health agencies, group homes, COVID-testing sites, and others.
- In November, we received requests from frontline facilities in 44 states + DC.
A Solution: Matching Algorithm

Like Uber!

Supply

Reallocation Algorithm

Demand

Gateway Application

Algorithm by the Numbers

279% increase in matches/day

46% of matches traveled under 30 miles

Algorithmic Matching used to deliver 100% of our supply

(+83,000 items matched in 2 weeks alone)

April PPE Matches

#Matches

Date, April 2020

y = 2.6703x
R² = 0.97868
Evolution of Matching Approach

Phase 1
Proximity Matching
- “Craigslist” method
- Match closest supply/recipient
- Manually feasible

Phase 2
Efficiency Matching
- “Uber method”
- Minimize delivery miles & cost

Phase 3
Interventional Matching
- The Future: “Resources as Treatment”
- Compute recipient priority scores, vulnerability, need
- Use data as training set
- Predict need and intervene/send resources BEFORE spread/need
The Future of Crisis Response

Our algorithm is highly customizable. Could be used for:

1. Vaccine distribution
2. Food shortages, community resources (homeless shelters)
3. Resource distribution in natural disasters, crises, future pandemics
4. A national strategic reallocation system for scarce resources at any time
Thank you.
Logistical Challenges We Face

➢ Many scattered PPE sources
➢ Fragmented, dispersed demand
➢ Rapidly changing PPE needs
➢ Volunteer turnover at Get Us PPE, need easy-to-deploy system
➢ Where to send our limited supply of PPE?

3,000,000+
PPE Units Delivered to Frontline Workers; just 12% of the requests in Get Us PPE’s database
Fairness Framework

- New version of algorithm based on equitable distribution
- Each facility that requests PPE gets a **facility equity score** based on factors like:
  - facility type, remaining PPE supplies, COVID-vulnerability of population served, COVID rates in community, low/no-cost treatment options, etc.
- Algorithm prioritizes high-need facilities by “moving” them closer to PPE sources in its calculations