

# Towards Pandemic Proof PPE



## The Problem

Shortcomings related to personal protective equipment (PPE) were widely recognized to exacerbate the toll of the COVID-19 pandemic, however, because the shortcomings were varied and had logistical, engineering, biomedical and societal underpinnings, the most effective interventions to improve PPE are unclear.

## The Project

Gryphon Scientific is examining how PPE is designed, manufactured, stored, distributed and used, with strategic direction provided by Blueprint Biosecurity and funding from Effective Giving. This study will identify gaps that could be closed via funding from philanthropists, NGOs or governments to better protect the global population against the next outbreak. This project will take place over the course of a year, culminating in Fall 2023.

## Planned Approach

- Phase 1** Characterize the current state of the PPE enterprise to inform a series of pandemic scenarios that illustrate the current shortcomings of the PPE enterprise and inform how it can be improved to better mitigate pandemic threats
- Phase 2** Perform parametric analysis to quantitatively examine the trade-offs between PPE improvements and the toll of a pandemic
- Phase 3** Synthesize findings to develop requirements for effective PPE
- Phase 4** Prioritize opportunities for funding to prepare the global PPE enterprise for future pandemics

## Who We Are

**Gryphon Scientific** is a specialized, small business research and consulting practice that uses rigorous analyses to address problems of global health and security.

**Blueprint Biosecurity** is a nonprofit dedicated to achieving breakthroughs in humanity's capability to prevent, mitigate, and suppress pandemics.

**This project is supported by Effective Giving.**

Work  
with  
us

This work will serve as a valuable resource to the global community and inform philanthropic efforts to ensure that PPE is better suited to mitigate the next pandemic.

We are seeking input from others working to improve the PPE enterprise to ensure that our study is broadly useful and addressing key knowledge gaps.

To provide input on this critical study please contact us at [info@blueprintbiosecurity.org](mailto:info@blueprintbiosecurity.org)