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[https://files.asprtracie.hhs.gov/documents/aspr-tracie-
healthcare-operations-during-covid-19-pandemic-
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HEALTHCARE EMERGENCY PREPAREDNESS
INFORMATION GATEWAY

Healthcare Operations during the COVID-19 Pandemic- Speaker Series

May 2021

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ASPR
ASSISTANT SECRETARY FOR
PREPAREDNESS AND RESPONSE

Access Dr. Louissaint's bio here: <https://healthcareready.org/nicolette-a-louissaint/>



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HEALTHCARE EMERGENCY PREPAREDNESS
INFORMATION GATEWAY

Nicolette Louissaint, PhD
Executive Director, Healthcare Ready

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2020 in Review: *Medical Supply Chain Responses to the COVID-19 Pandemic*



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Mission: Healthcare Ready leverages unique relationships with government, nonprofit and medical supply chains to build and enhance the resilience of communities before, during and after disasters.

Hurricane Katrina



Lessons Learned

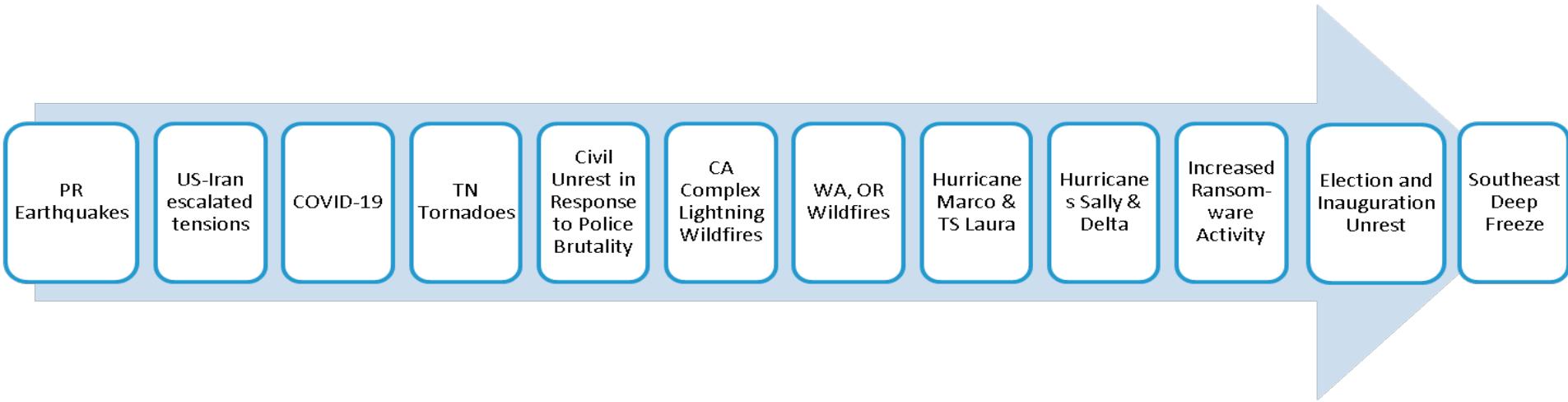
- Protecting public health after a disaster requires continued access to essential medicines
- Better coordination & communication between sectors was needed
- A forum for resolving issues in real-time was needed

Call to Action

- Rx Response (now Healthcare Ready) was built as a critical new asset to help ensure the continued flow of medicine to patients during:
- Severe natural disaster
 - Large-scale terrorist attack
 - Pandemic or disease outbreak

2020 - 2021 Major Events Timeline

- 2020 (and into 2021), supply chain threats were significant and varied
- Ultimately, healthcare supply chains remained resilient even in an unprecedented year of events



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2020 Response Overview



The Weather Channel

6 Major Hurricane & Tropical Storm Events

Healthcare Ready's COVID-19/2020 responses



74 Active Large Fires in 15 States



COVID-19 Response

COVID-19

- 350+ days activated
- Rx Open activated entire nation
- 1100+ Requests for Assistance received and routed

Donation Coordination:

- 5,300,000+ Surgical Masks
- 4,500,000+ Gloves
- 6,080,000+ Surgical Gowns
- 1,200,000+ KN95 Masks
- 24,600+ Gallons of Hand Sanitizer
- 10,000+ N95 Masks
- 77,496 Packs of Batteries
- 25,000 Face Shields+

COVID-19

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COVID-19 Pandemic –Supply Chain Impacts

COVID-19 defined the year of physical supply chain threats.

- On March 11, 2020, the World Health Organization (WHO) officially declared COVID-19 a pandemic
- US and global supply chains became strained early on. The supply of PPE (such as gloves, gowns, masks, etc.) were not meeting the astronomical demands and the pharmaceutical supply chain began to see significant demands for ICU-related medications



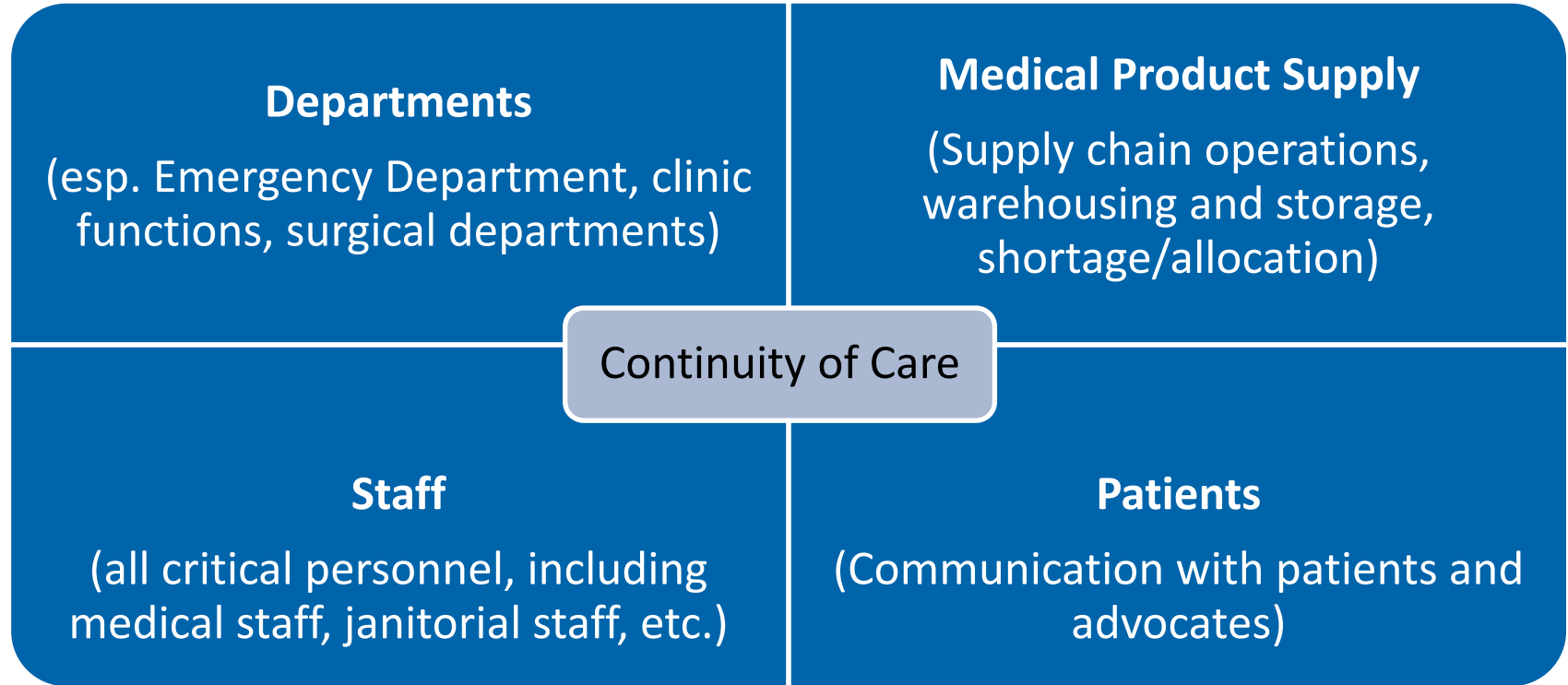
<https://www.parcelandpostaltechnologyinternational.com/news/freight/ups-broker-flights-for-project-airbridge.html>



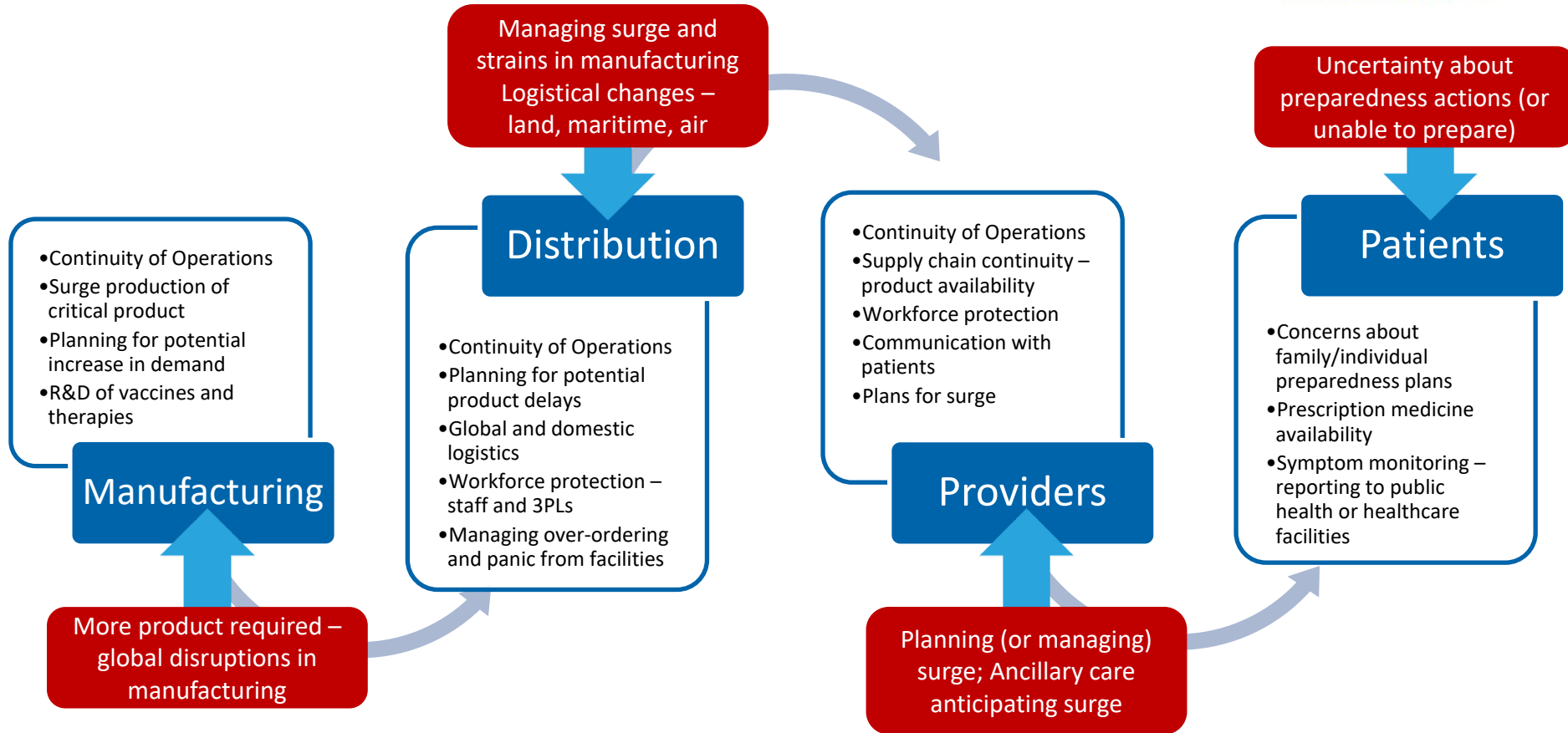
<https://www.bostonglobe.com/2021/03/15/business/boston-developer-teams-up-with-manufacturer-produce-millions-n95-masks/>

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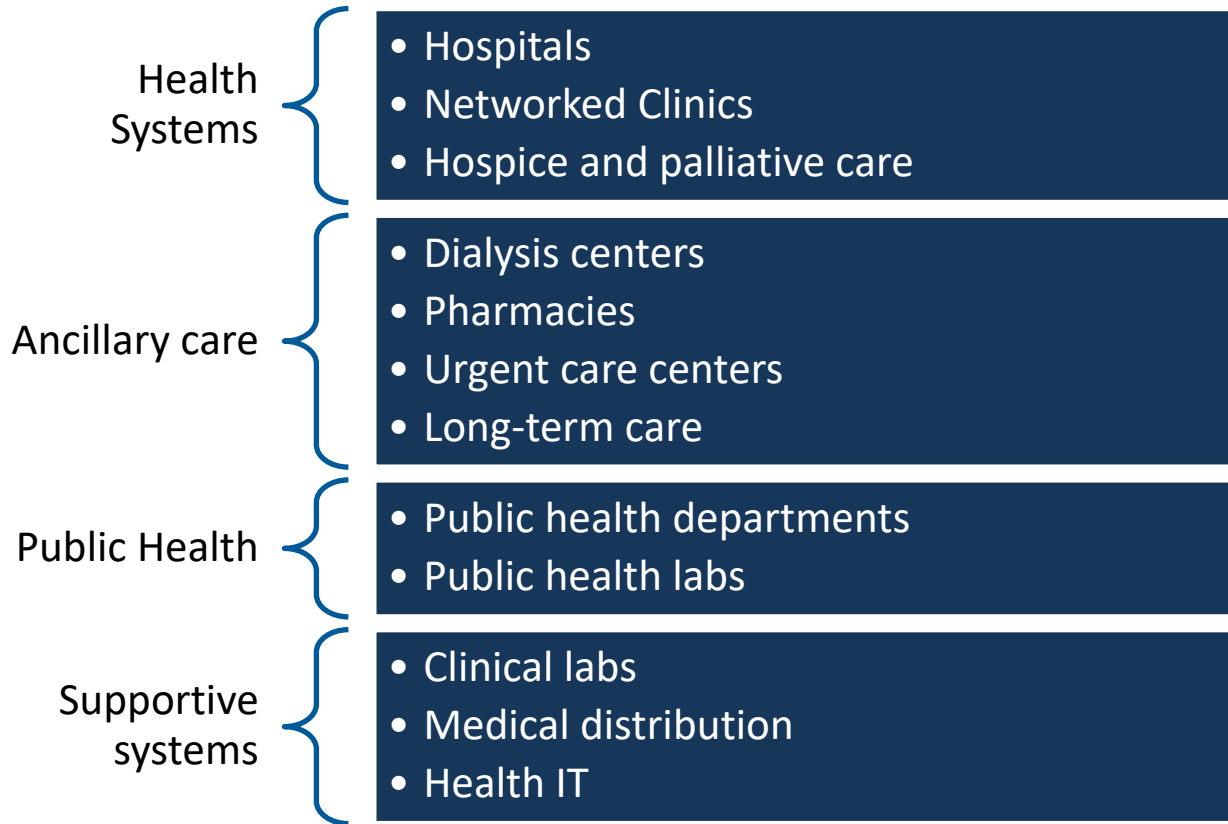
Supply Chain and COVID-19 outbreak

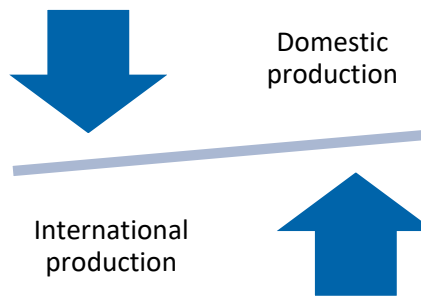


Current Operating Picture



Healthcare and Public Health





Global supply chain production – medical products

Pharmaceutical product

Medical-surgical product

Logistics

National health systems

Maritime / Air travel

Public health systems

Workforce and infrastructure

API and key source materials

Fill-finishing

Workforce and infrastructure

Key components

Completion

3PL / last mile

Payment / reimbursement / pricing

Supply Chain

Coordination with end-to-end supply chain

- Policies and exemptions that impact movement
- State outreach to emergency management (private sector liaisons) on status of supply chain operations and current challenges

Government

Coordination with federal government

- FEMA National Business Emergency Operations Center
- FEMA Supply Chain Task Force
- HHS Office of the Assistant Secretary for Preparedness and Response

Healthcare

Outreach to healthcare partners

- Patient coalitions and healthcare organizations focused on dispensing and direct patient care
- Pharmacies/pharmacists, dialysis coalitions, diabetes coalition

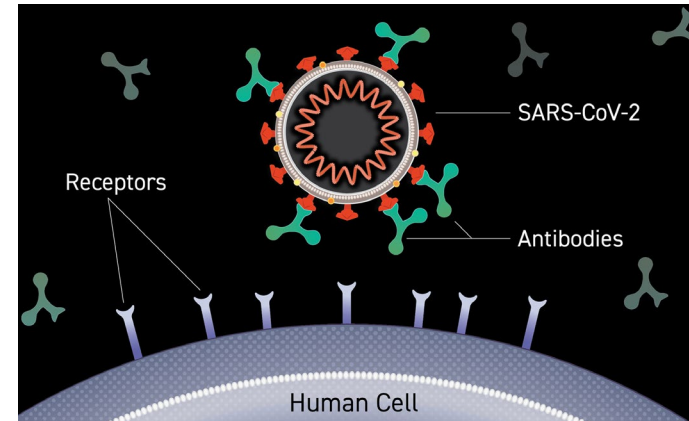
COVID-19 Pandemic – Pharmaceutical Supply Chain Impacts

Demand for certain routine care drugs spiked during COVID-19

- Ventilation medications demand (supply ultimately maintained)

Medical countermeasures were developed in record time

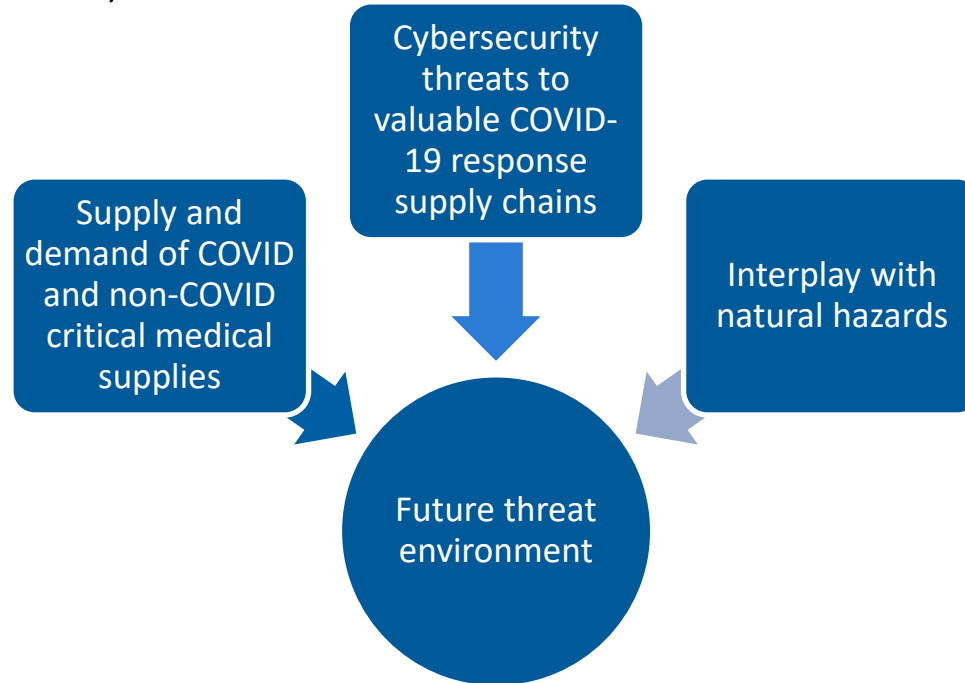
- Therapies
 - Bamlanivimab/Etesevimab
 - REGEN-COV (casirivimab and imdevimab)
- Vaccines
 - Pfizer-BioNTech
 - Moderna
 - Janssen (Johnson & Johnson)



<https://www.nih.gov/news-events/news-releases/clinical-trials-monoclonal-antibodies-prevent-covid-19-now-enrolling>

COVID-19 Supply Chain Impacts – Looking Forward

COVID-19 will ultimately impact how we prepare for and respond to all other threats through the rest of the year.



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Coordination Efforts

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Coordination Efforts 2020 – 2021 Overview



Public-private and private-private coordination were key in facing the threats of 2020

Coordination during COVID-19

- Private sector companies formed or used existing private-private partnerships to share information and coordinate
- Novel and public-private partnerships were utilized to coordinate response
 - FEMA Supply Chain Task Force partnerships
 - FEMA Supply Chain Advisory Council partnerships
 - Healthcare and Public Health Sector Joint Councils Partnerships

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Lessons Learned and What's Next

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Lessons Learned



Additional public sector support is needed for long term supply chain sustainability and security

- Funding and policy to support investment

Public-private partnerships (PPPs) are paramount for reducing strain on supply chains during catastrophic events

- PPPs will also be critical to make sure policy related to supply chain sustainability is in fact sustainable

There is a need to more closely define and communicate the roles of Federal, state, and local governments during responses that strain national supplies

Focus on Equity



Frontline workers
 “Essential” workers
 Critical sectors



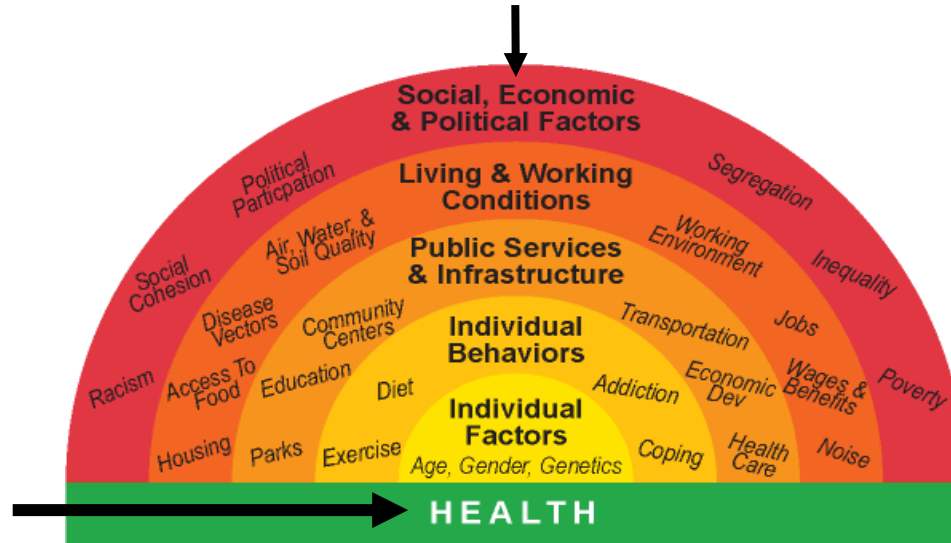
Disinvested communities
 Socially vulnerable
 Multi-generational households



Medically fragile
 Chronic conditions
 Co-morbid patients



Regional and state-level investments
 Systemic inequities
 Local/ regional investment



Controlling Transmission

Reducing risk

Educating on newest information on COVID-19

Managing mistrust and skepticism

Equitable Distribution

Allocation

Administration

Vaccination opportunities

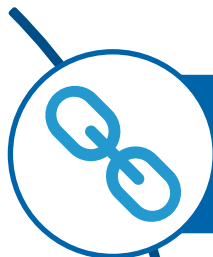
Equitable Recovery

Individual/household assistance

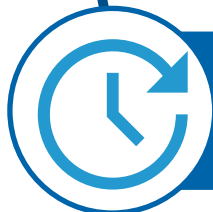
Community-level support – especially for historically underserved

Community-level support – recovery from natural disasters

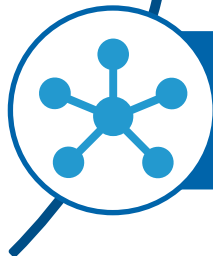
Takeaways



Healthcare supply chains were, overall, resilient in the face of many significant and diverse physical threats in 2020. However, some supply chains also fared better than others.



There are many lasting impacts from the threats of 2020 into 2021 that must be considered when evaluating future threats.



The physical threat environment has become increasingly complicated, with major dependencies across events that must be considered.

Stay Connected with Healthcare Ready



www.HealthcareReady.org

Response-related questions or assistance: Alerts@HealthcareReady.org

General outreach to Healthcare Ready: ContactUs@HealthcareReady.org

Hotline: **1-866-247-2694**

COVID-19 Emergency Page: <http://www.healthcareready.org/covid19>

Sign up for Healthcare Ready's regular Situation Report:

<http://www.healthcareready.org/contact-us>

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