ALLIANCE FOR HEALTH POLICY

Lessons Learned from COVID-19 and Other Emergencies

September 28, 2021

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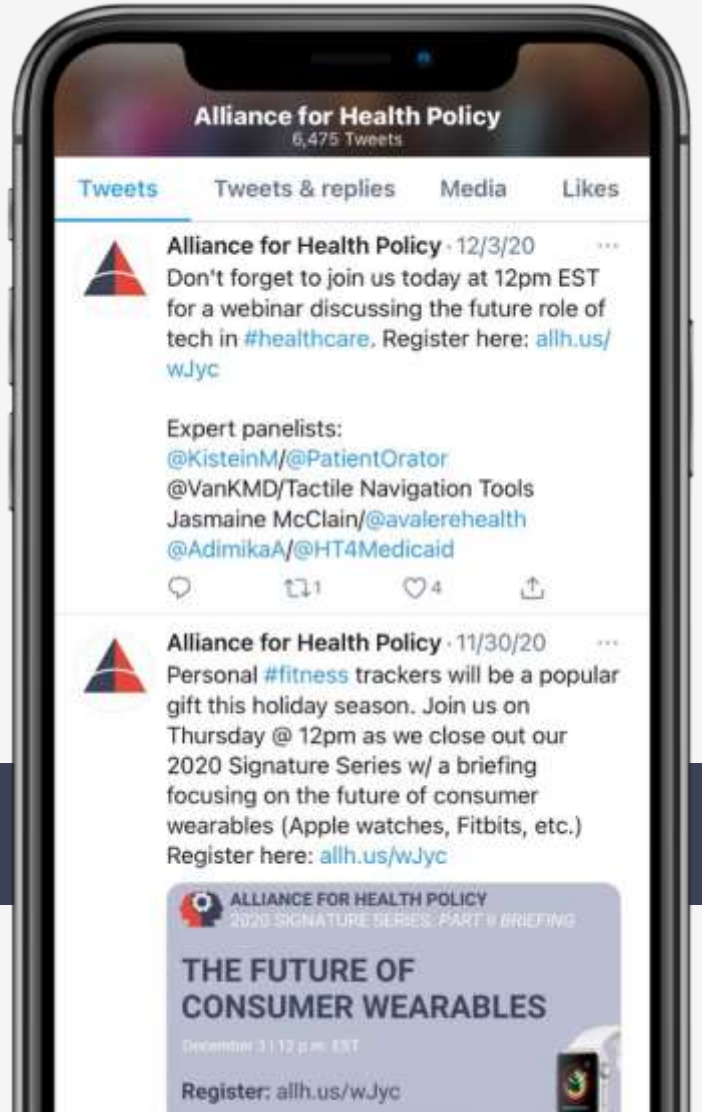

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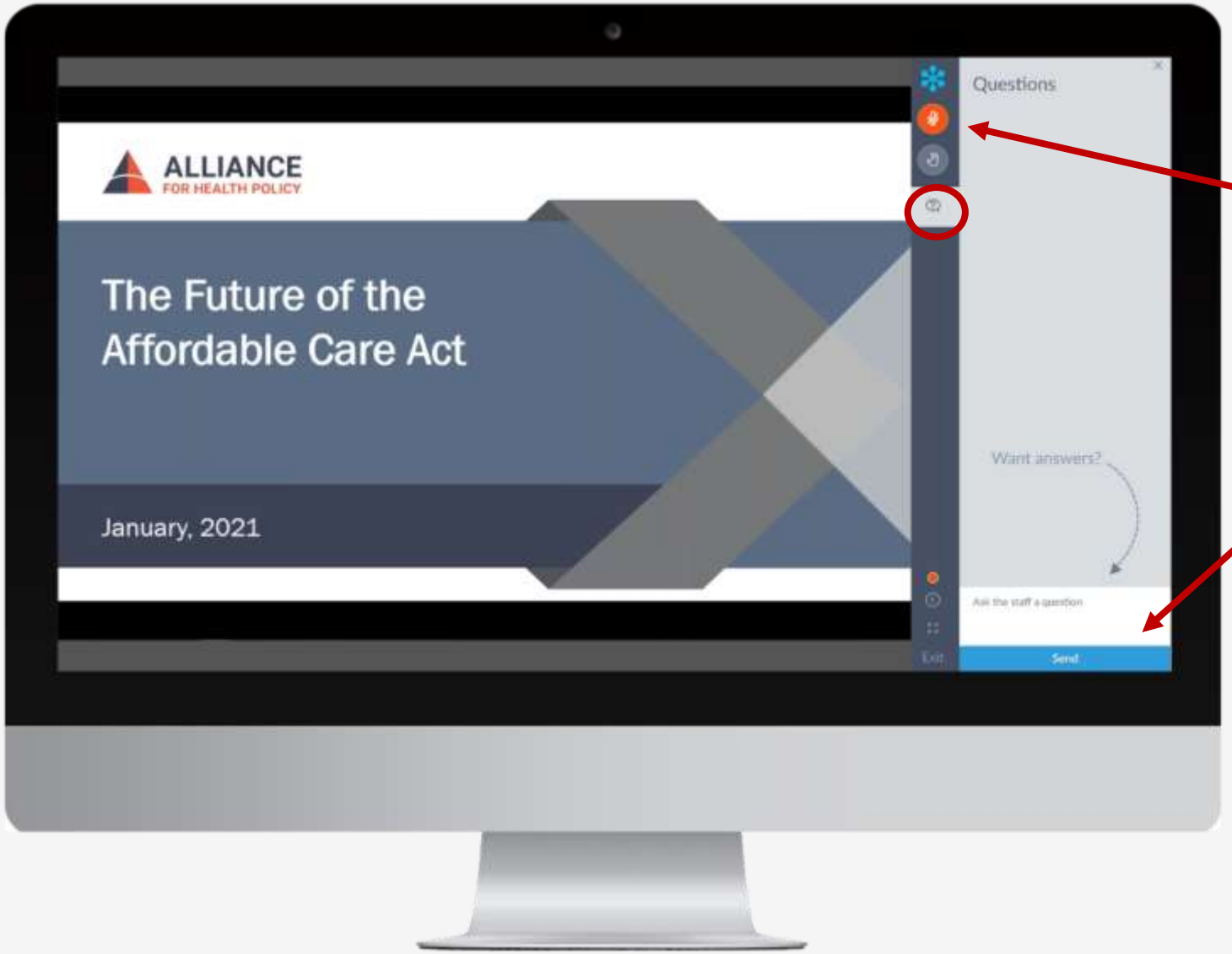

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@RW_Intl

Reginald D. Williams II

Vice President, International Health Policy and Practice Innovations, Commonwealth Fund

Panelists

Dylan Scott
Senior Correspondent
Vox

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Caroline Pearson
Senior Vice President
NORC, University of Chicago

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Rebecca Weintraub, M.D.
Director, Better Evidence and COVID-19 Vaccine Delivery
Assistant Professor, Harvard Medical School

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Moderator

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BRIGHAM HEALTH

BRIGHAM AND WOMEN'S HOSPITAL

HARVARD T.H. CHAN SCHOOL OF PUBLIC HEALTH

In the pandemic, Covid-19 Vaccine Delivery requires agile systems to prioritize speed, equity and scale.

Rebecca Weintraub, MD

September 28, 2021

Why the Covid-19 Vaccines are effective:

#1 Vaccinated individuals, who became infected, cleared the infection more quickly [1]

#2 Breakthroughs of any severity remain uncommon, and when they do happen, they tend to be milder and shorter; people carry less of the virus, and seem less likely to pass it on to others.

#3 Vaccinated individuals are at decreased risk for Long Haul COVID-19 [2]

1. Ke R, Martinez PP, Smith RL, et al. Longitudinal analysis of SARS-CoV-2 vaccine breakthrough infections reveal limited infectious virus shedding and restricted tissue distribution. Preprint. *medRxiv*. 2021;2021.08.30.21262701. Published 2021 Sep 2.
2. Antonelli M, Penfold RS, Merino J, et al. Risk factors and disease profile of post-vaccination SARS-CoV-2 infection in UK users of the COVID Symptom Study app: a prospective, community-based, nested, case-control study [published online ahead of print, 2021 Sep 1]. Lancet Infect Dis. 2021;S1473-3099(21)00460-6.

In the midst of a pandemic, we need to plan for equitable delivery:

(39%) of states COVID-19 vaccine distribution plans referenced health equity committees

(16%) referenced having minority group representatives

(51%) referenced collaborating with community based organizations

Table. Partnerships Beyond Hospitals or Medical Systems Assisting With Vaccine Plan Implementation

Types of partnerships	Vaccination plans, No. (%)
Health care and community support services (nursing homes, long-term care facilities, clinics, pharmacies)	51 (100)
Homeland and national security	5 (10)
Other critical infrastructure (EMS, communication, technology, banking, finance, shipping)	27 (53)
Correctional facilities	41 (80)
Tribal partners	34 (67)
Educational institutions	28 (55)
Religious or faith-based organizations	27 (53)
Homeless shelters or other service providers	34 (67)
Organizations serving racial and ethnic minority groups	26 (51)
Other	6 (12)

Abbreviation: EMS, emergency medical services.

Hardeman A, Wong T, Denson JL, Postelnicu R, Rojas JC. Evaluation of Health Equity in COVID-19 Vaccine Distribution Plans in the United States. *JAMA Netw Open.* 2021;4(7):e2115653. doi:10.1001/jamanetworkopen.2021.15653

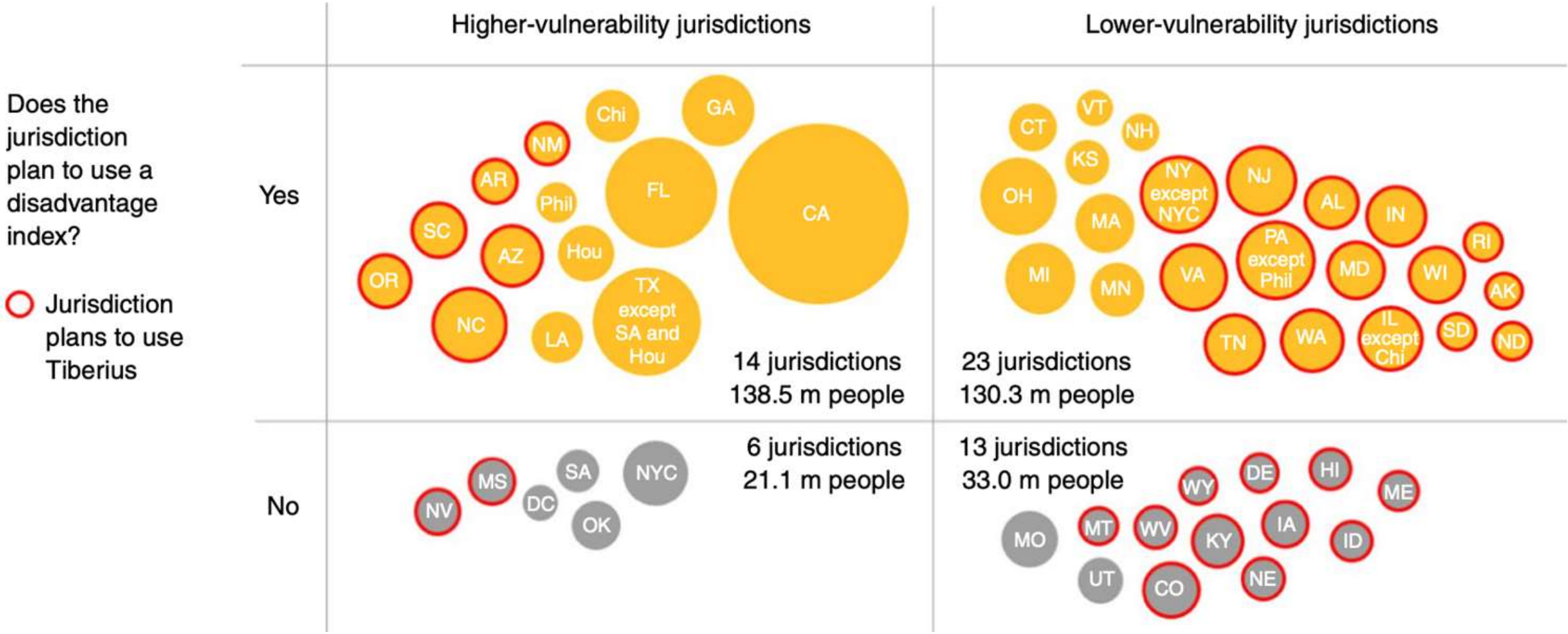

Fig. 3 | 56 Jurisdictions' use of disadvantage indices, by share of population in vulnerable areas, population size and use of Tiberius software. Circle size is proportional to jurisdiction population. All population data includes people under 16 years of age (not currently incorporated in ACIP's framework). Higher vulnerability = 25% or more of the jurisdiction's population lives in census tracts with SVI scores in the most disadvantaged quartile (Extended Data Fig. 1). Phil, Philadelphia PA; SA, San Antonio TX; Chi, Chicago IL; Hou, Houston TX; NYC, New York City NY. Excludes the eight territories owing to lack of SVI data. (Depiction: Ariadne Labs). m, milllion.

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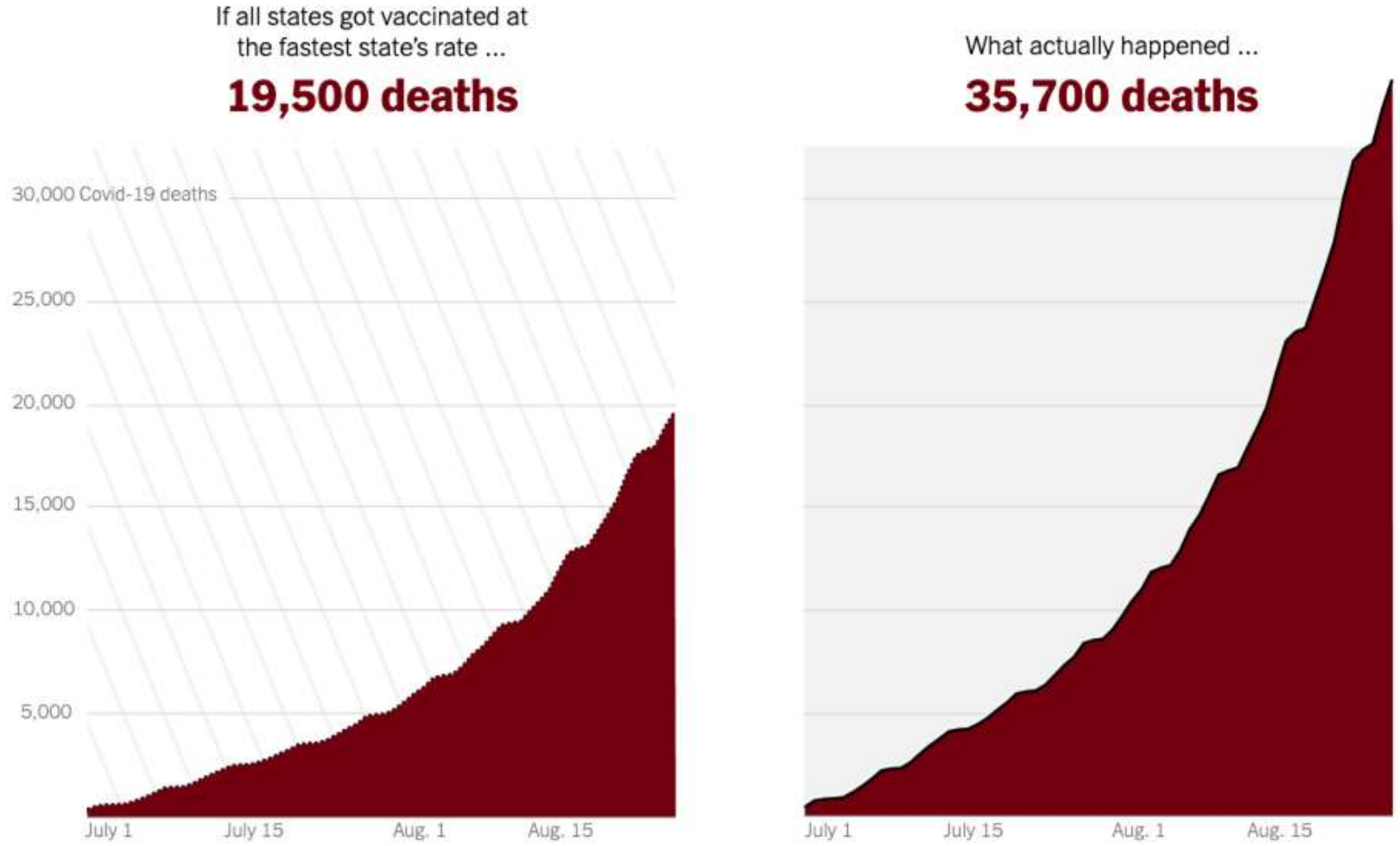
Schmidt, H., Weintraub, R., *et al.* Equitable allocation of COVID-19 vaccines in the United States. *Nat Med* 27, 1298–1307 (2021).

Why Speed Matters: Sluggish Summer of Vaccination



The New York Times. The Lives Lost to Undervaccination, in Charts. 14 Sept 2021.

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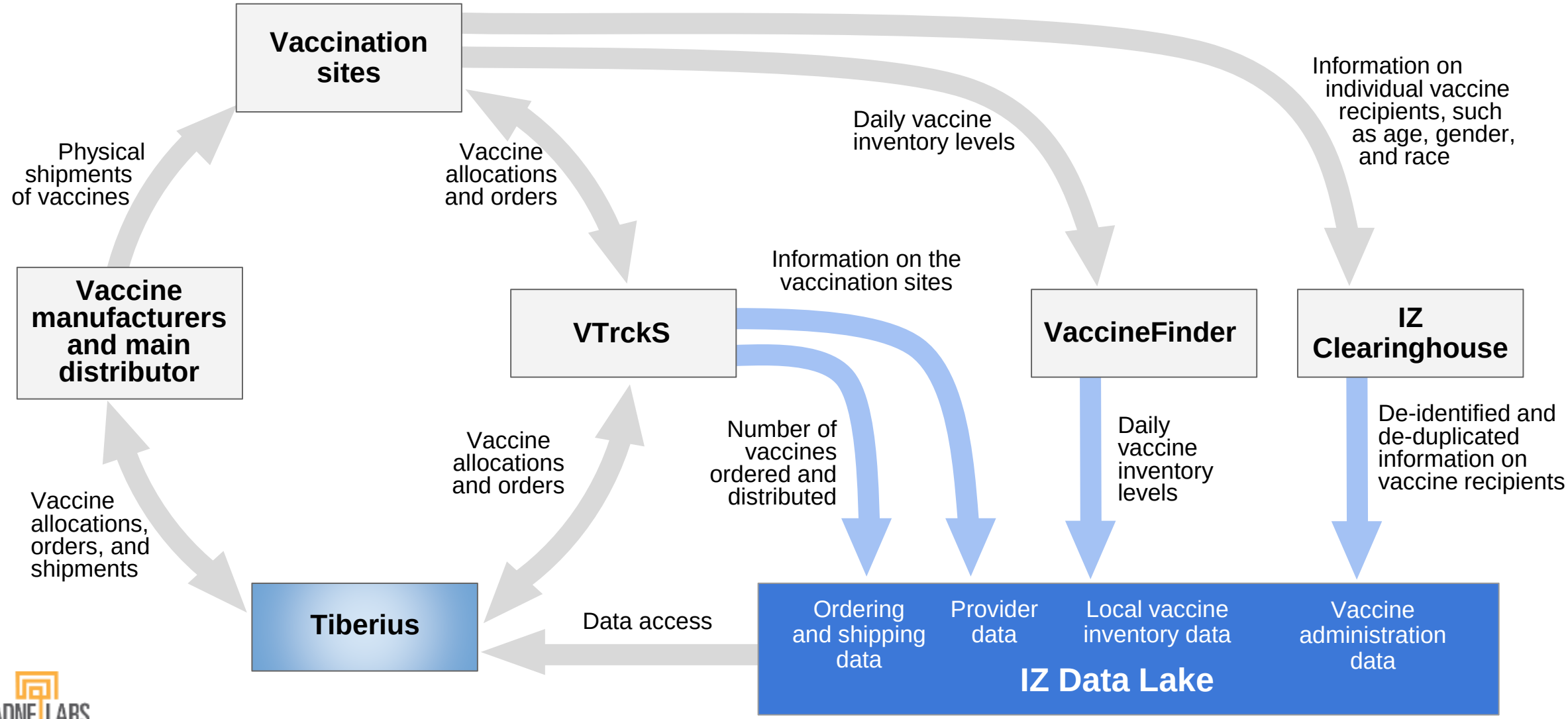
BARRIER: Current COVID-19 Vaccine Data infrastructure



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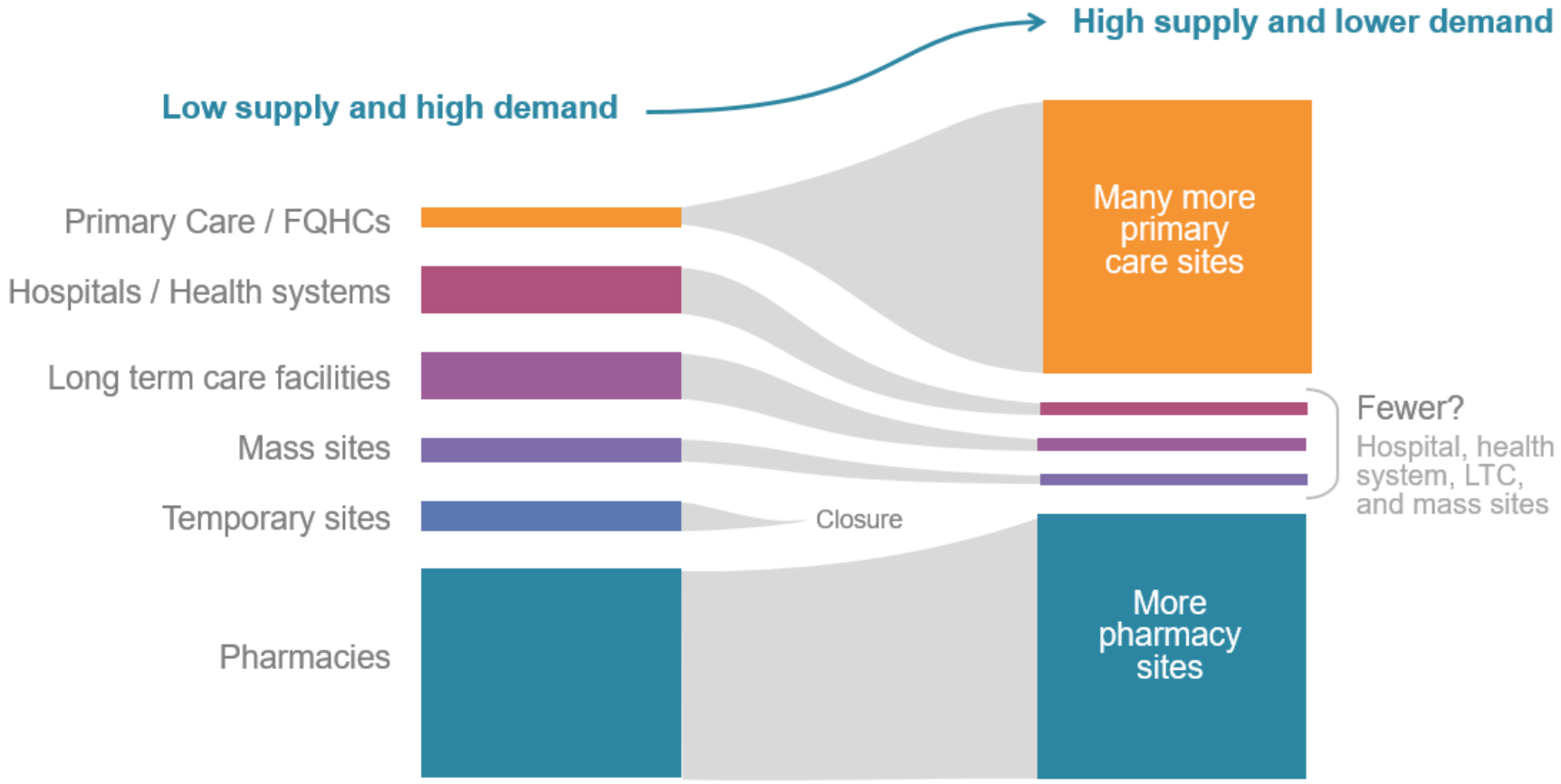
Why CONVENIENCE Matters: Geographic access is a central element of *convenience*. Trusted providers such as primary care physicians have an important role to play in increasing vaccine *confidence*.



Distributions reflect our estimates and expectations. Not based on actual data.

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vaccineplanner.org

Map the vaccine deserts in your area

Display counties by Social Vulnerability Index

Shade counties by the number of people who intend to be vaccinated but aren't yet

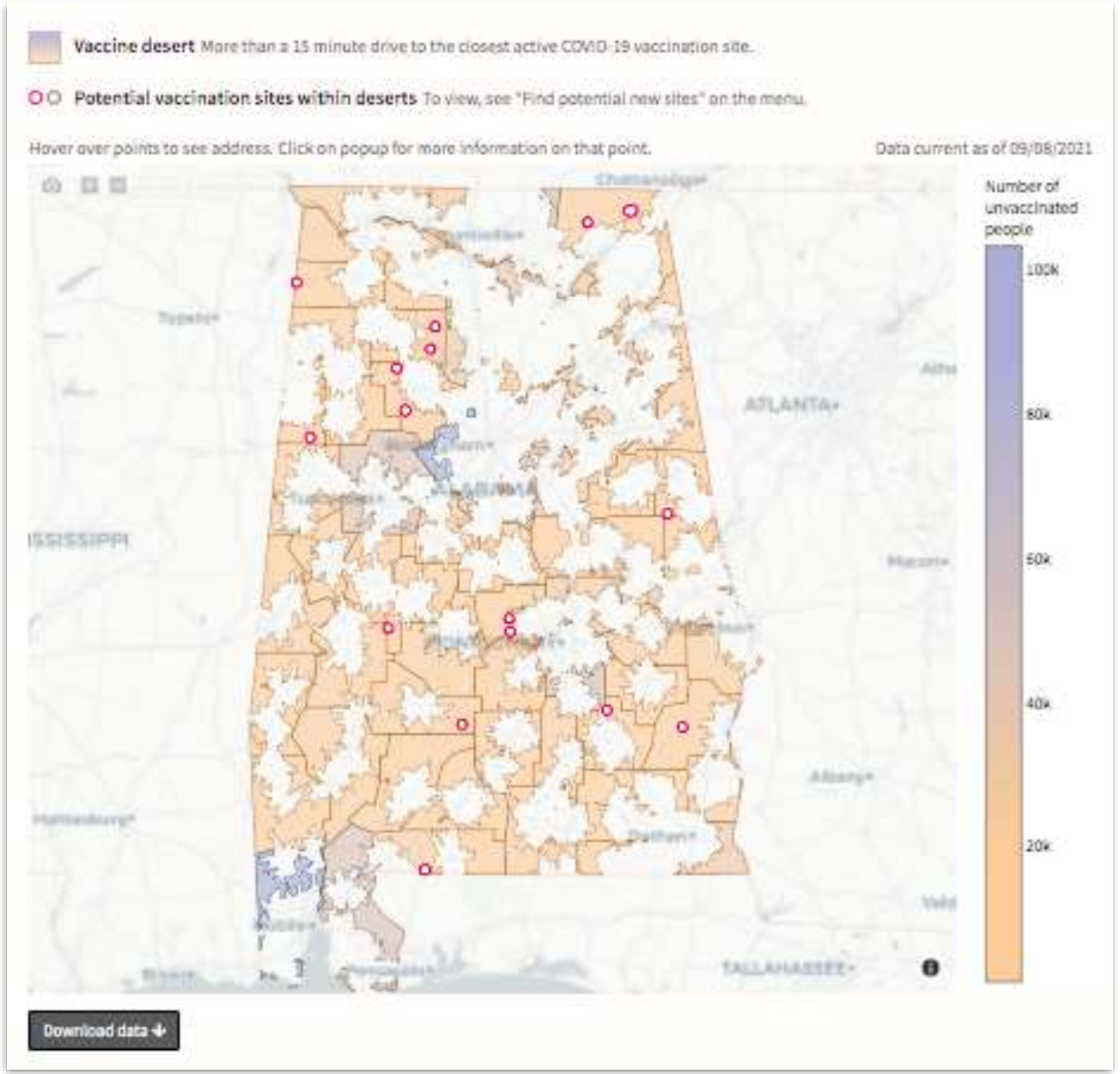
Define a "vaccine desert" as outside of:

15 or 30 minutes driving
15 or 30 minutes walking
30 minutes on public transportation

Display these potential sites within deserts:

Primary health care sites
FQHCs
Pharmacies (not already offering)
Urgent care centers
Retail sites
Places of worship
Schools

Download contact information for potential sites



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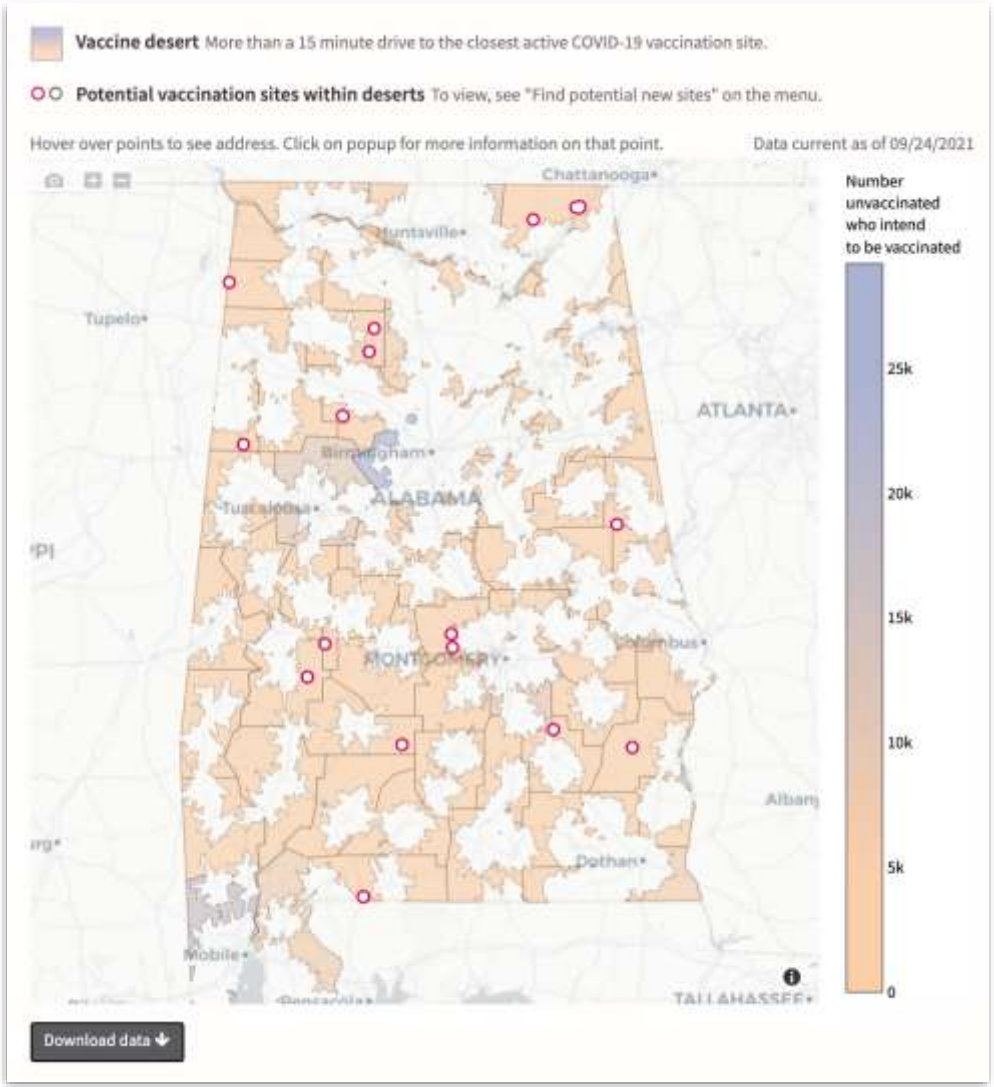
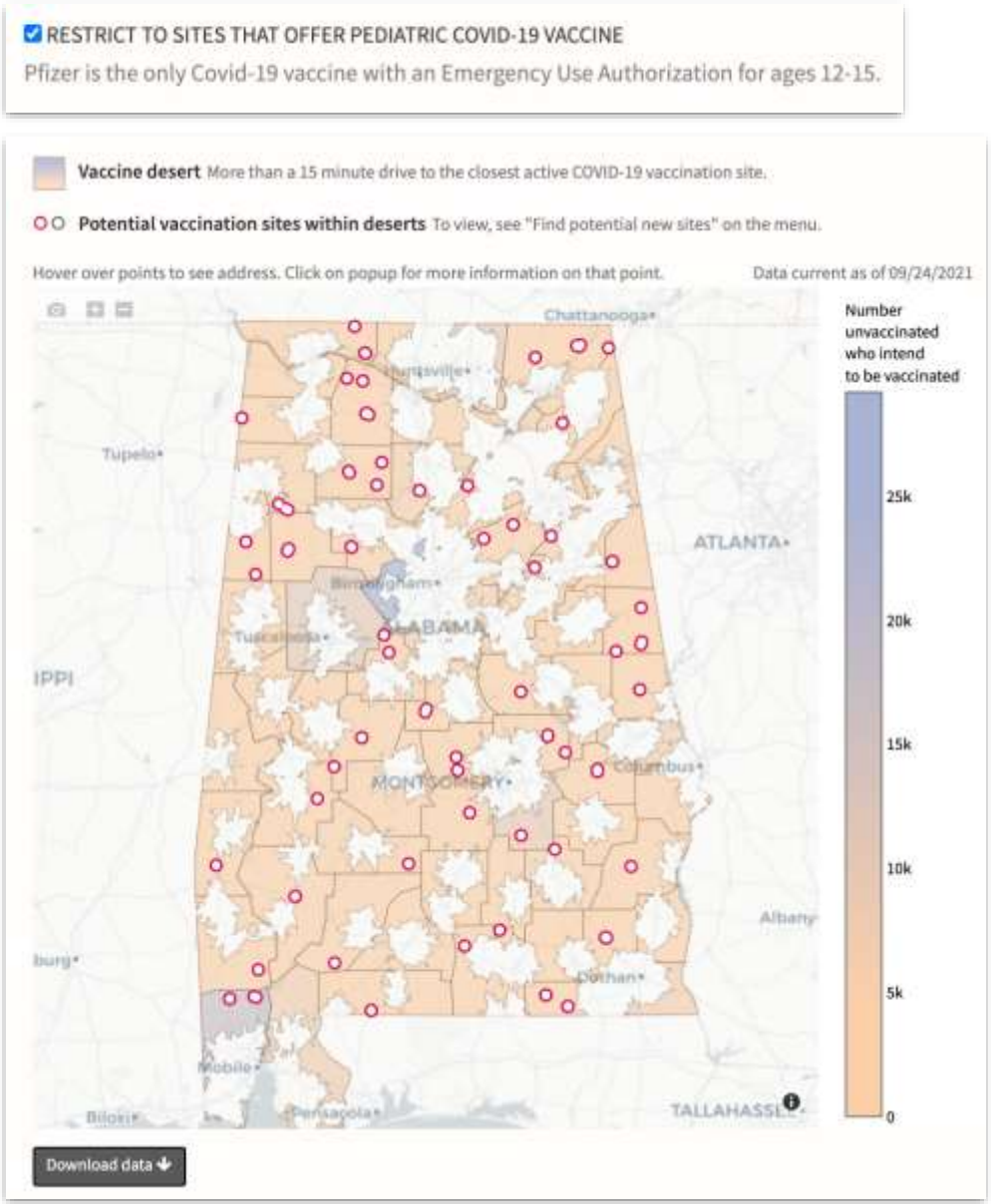
Boston Children's Hospital
Where the world comes for answers
Google Health

Generating actionable data to identify vaccine deserts

https://vaccineplanner.org/





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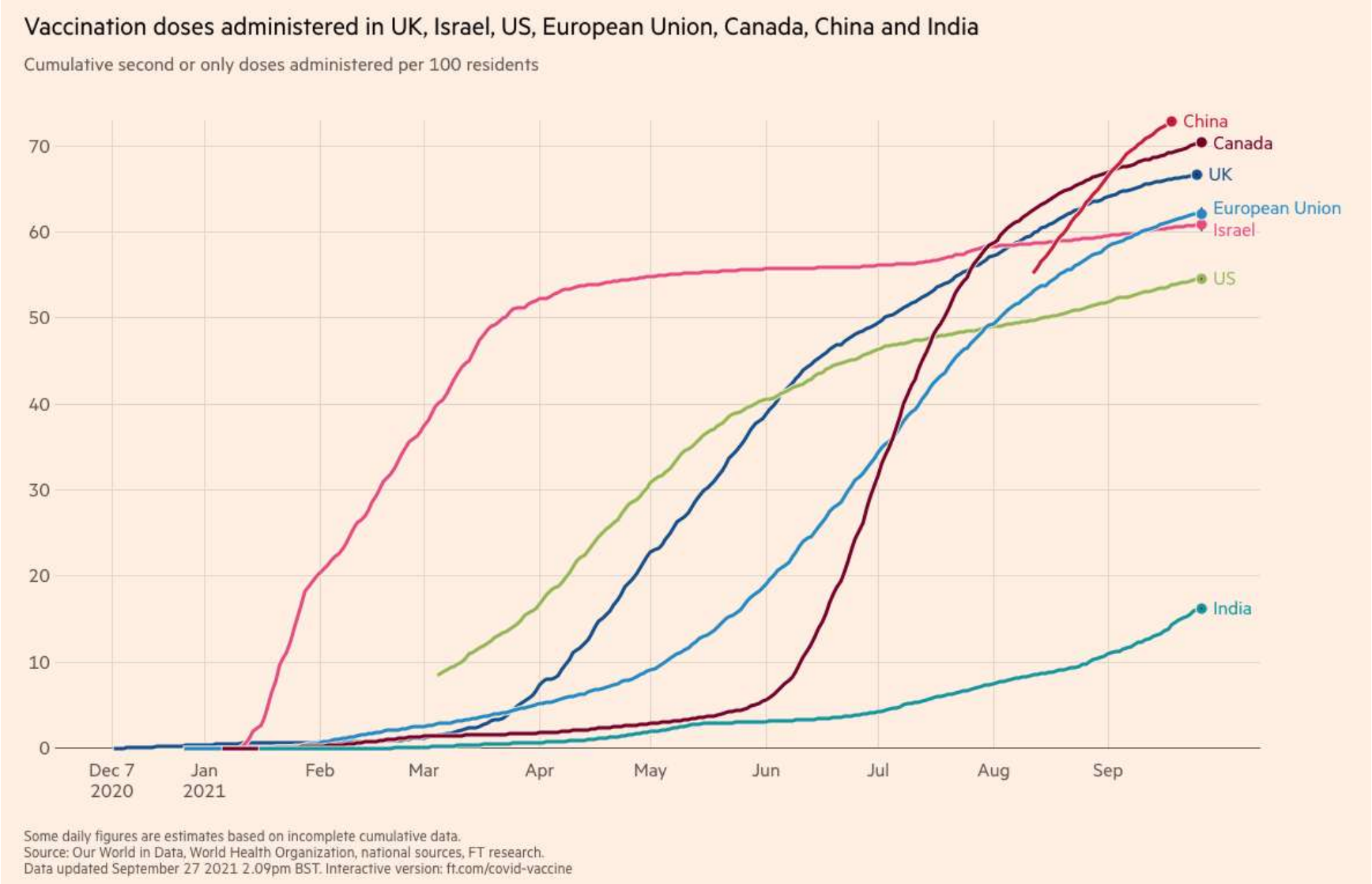
EVOLVING GUIDANCE: Providers integrating Storage Guidelines to minimize Vaccine Wastage

Pfizer-BioNTech : In May 2021, FDA authorized undiluted, thawed Pfizer-BioNTech COVID-19 Vaccine vials to be stored in the **refrigerator at 35°- 46°F for up to 1 month.** Previously, thawed, undiluted vaccine vials could be stored in the refrigerator for up to 5 days.

Moderna: It can be stored up to six months at standard freezer temperatures. It can last up to 30 days refrigerated at temperatures between 36 to 46 degrees F.

J&J: Estimated to remain stable for two years at -4 degrees F and a maximum of three months at routine refrigeration at temperatures of 36 to 46 degrees F.

By 9/30/21 the US will have the lowest vaccination level of all prosperous democracies, even with the largest supply and the biggest head start



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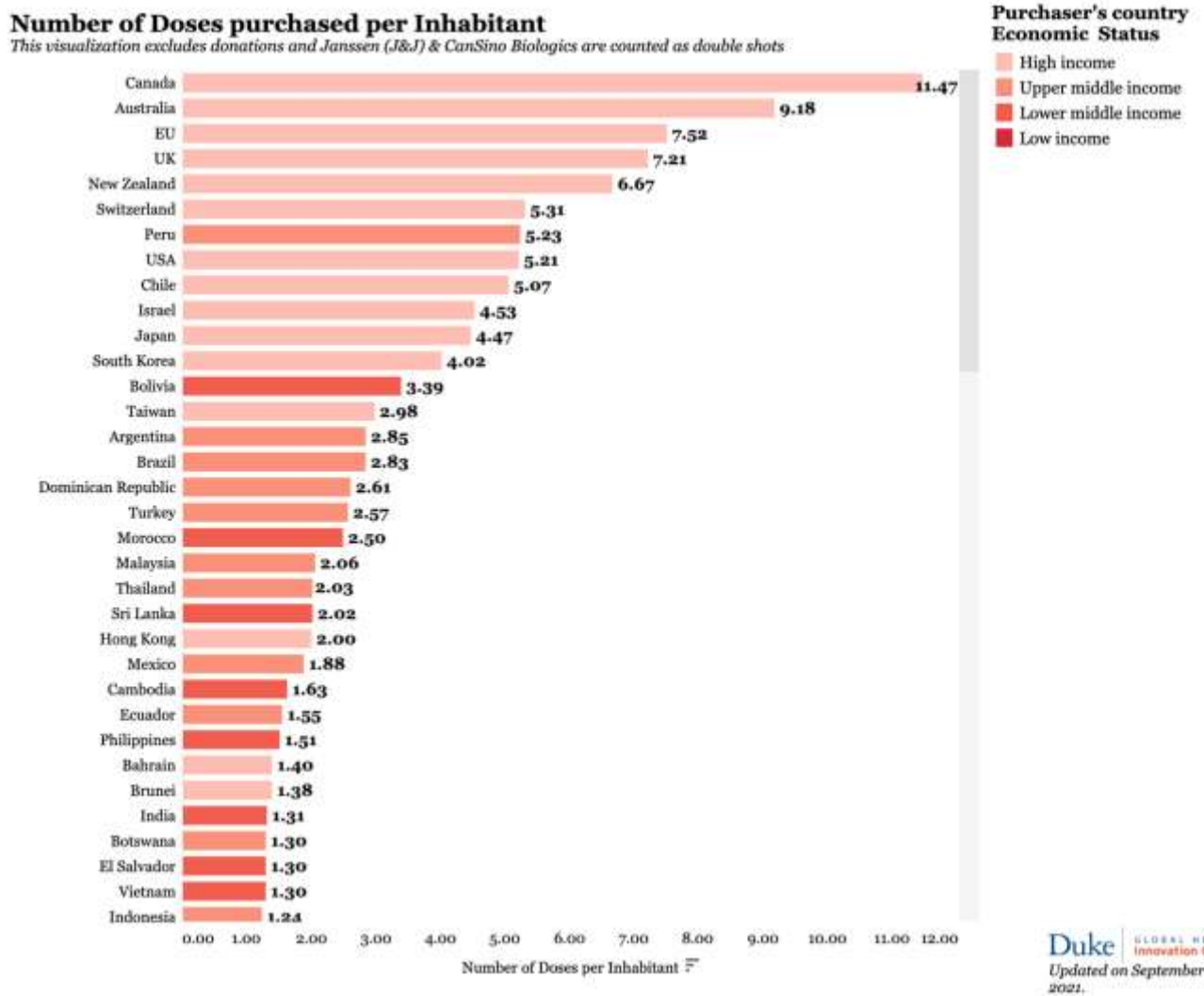
Critical Work Ahead to Transition from Vaccine Nationalism to Vaccine Equity



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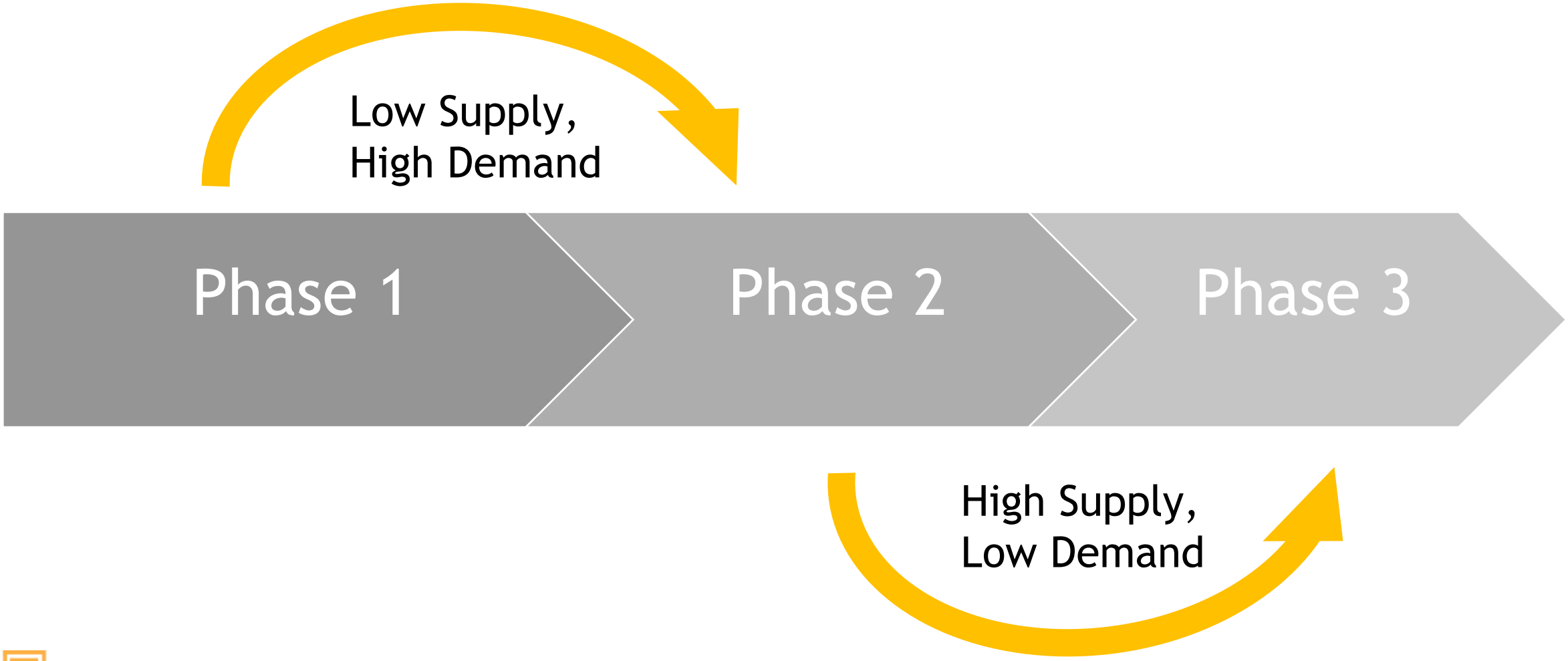
Dynamic Supply & Demand,
Need for Better Prediction and Agile Systems



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We value your input!

Please fill out the evaluation survey you will receive immediately after this presentation, or via email this afternoon!

www.allhealthpolicy.org

2021 AUDIENCE SURVEY

allh.us/AHP21Survey

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Thank you for attending.