

Essential Partnerships: crucial in pandemics *and* everyday

Karen B. DeSalvo, MD, MPH, MSc
Chief Health Officer, Google

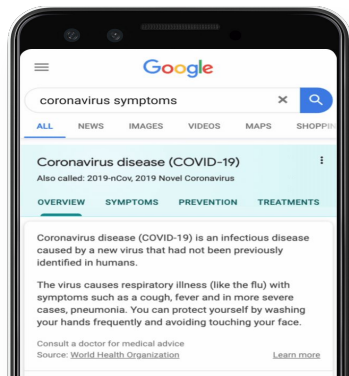


Public Health is what we do together as a society to create the conditions in which everyone can be healthy.

Amplifying public health communications

Authoritative Information at the Point of Need

*Knowledge Panels, Ad Grants,
Medical Misinformation Policy*



Search Experience featuring Local Public Health Authorities

COVID-19 alert

Coronavirus disease

Overview

Symptoms

Prevention

Treatments

Statistics

Share

Top stories

Tracking Connections Around the World

Live Coronavirus News Updates

The New York Times
5 mins ago

Coronavirus Update: N.H. Reports 81 New Cases of COVID-19, Two More Deaths

Nhpr
53 mins ago

Homeless still staying in emptier Penn Station amid coronavirus

New York Post
50 mins ago

Help and information

COVID-19 Updates (California)

California Department of Public Health

cdph.ca.gov (Cached)

cdph.ca.gov

Information about COVID-19 in the United States

Centers for Disease Control and Prevention

cdc.gov/coronavirus/2019-ncov

Coronavirus Self-Checker

Centers for Disease Control and Prevention

cdc.gov/coronavirus

Worldwide cases

View full map

Source: [Wikipedia](#) · [About this data](#)

Worldwide cases

Location	Confirmed	Recovered	Deaths
Worldwide	1,197,405	246,152	64,606
United States	310,016	14,607	8,438
Spain	126,168	34,219	11,947
Italy	124,632	20,996	15,362
Germany	96,108	23,192	1,446

Updated less than 20 mins ago · Source: [Wikipedia](#) · [About this data](#)

Local and national resources

Aggregated Data Insights for Decision-Making

Traditional Data: *Community Mobility Reports*

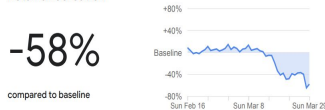
Mobility changes

Google prepared this report to help you and public health officials understand changes in community mobility patterns related to COVID-19. This report shouldn't be used for prognostic, or treatment purposes. It also isn't intended to be used for policy decisions.

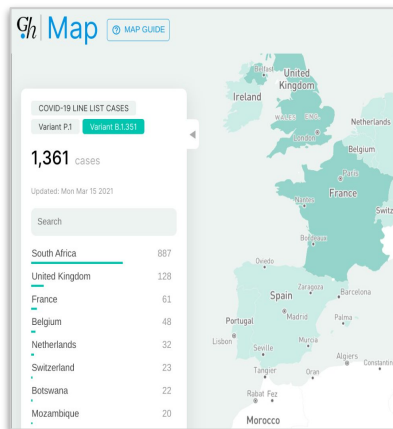
Location accuracy and the understanding of categorized places aren't perfect. We don't recommend using this data to compare changes between different characteristics (e.g. rural versus urban areas).

We'll leave a region out of the report if we don't have statistical significance. We calculate these trends and preserve privacy, read [About this report](#).

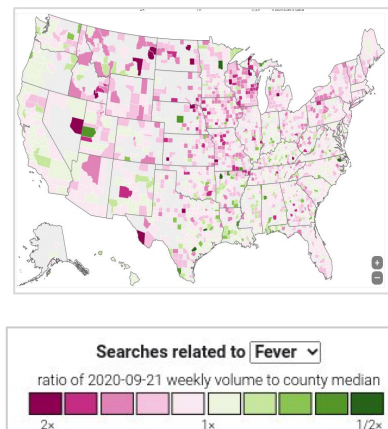
Retail & recreation



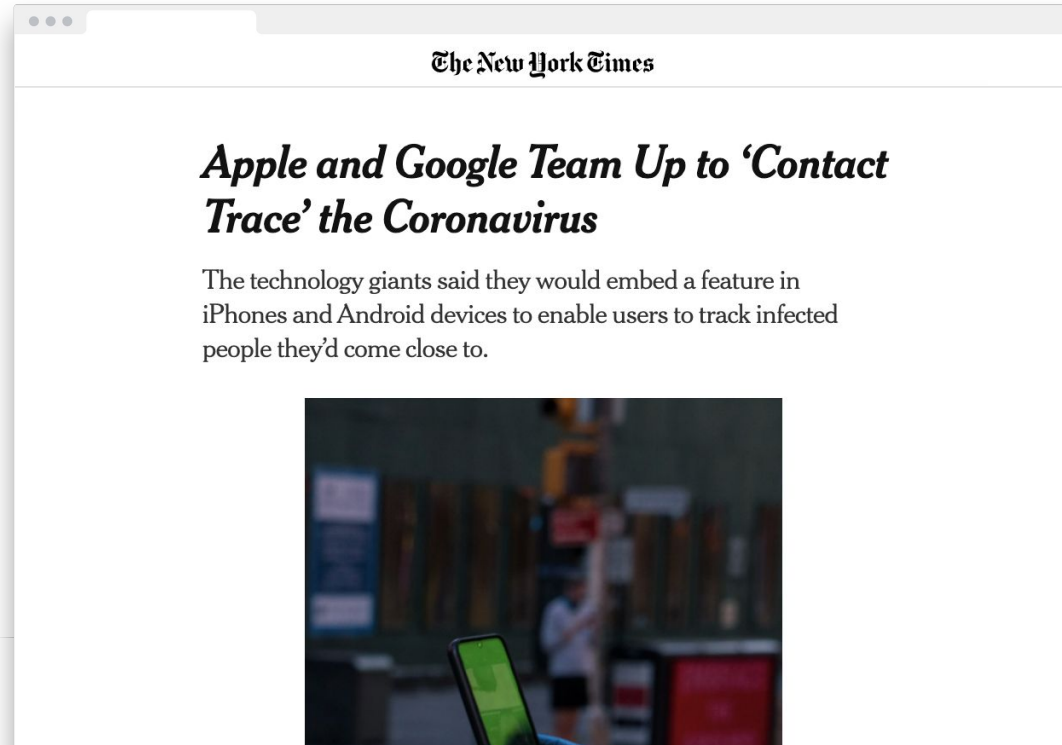
Expanded Data: *The Global.health Initiative*



Novel Data: *Search Symptoms Trends*



Digital Tools for their Toolbox



Wymant et al, [Nature](#), 2021; Rodriquez et al, [Nature Communications](#), 2021.

We are only as strong as our
weakest link.

● **TheUpshot**

Bottleneck for U.S. Coronavirus Response: The Fax Machine

Before public health officials can manage the pandemic, they must deal with a broken data system that sends incomplete results in formats they can't easily use.

Public Health COVID-19 Impact Assessment: Lessons Learned and Compelling Needs



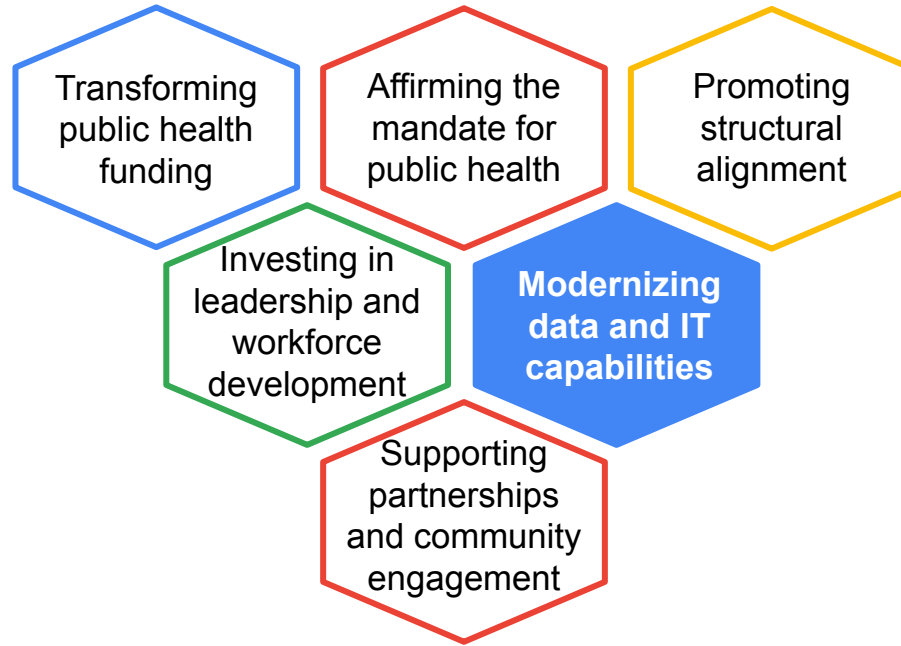
Karen DeSalvo, MD, MPH, MSc, Google; **Bob Hughes, PhD**, Missouri Foundation for Health; **Mary Bassett, MD, MPH**, Harvard University; **Georges Benjamin, MD**, American Public Health Association; **Michael Fraser, PhD, CAE**, Association of State and Territorial Health Officials; **Sandro Galea, MD, MPH, DrPH**, Boston University School of Public Health; **J. Nadine Gracia, MD, MSCE**, Trust for America's Health; and **Jeffrey Howard, MBA, MPH**, former Public Health Commissioner, Kentucky

State and Local Public Health: **Priority Actions**



Prepare for *All* Hazards.

State and Local Public Health: **Priority Actions**



Modernizing data and IT capabilities

Build **with public health**, not for public health

Establish open source **(FHIR) national standards** to enhance interoperability *within* the sector and *across* sectors

Modernize surveillance approaches to include **privacy preserving novel signals** and **AI/ML**

Set national standards to ensure that health data is **routinely disaggregated by race, ethnicity, and other key sociodemographic characteristics**

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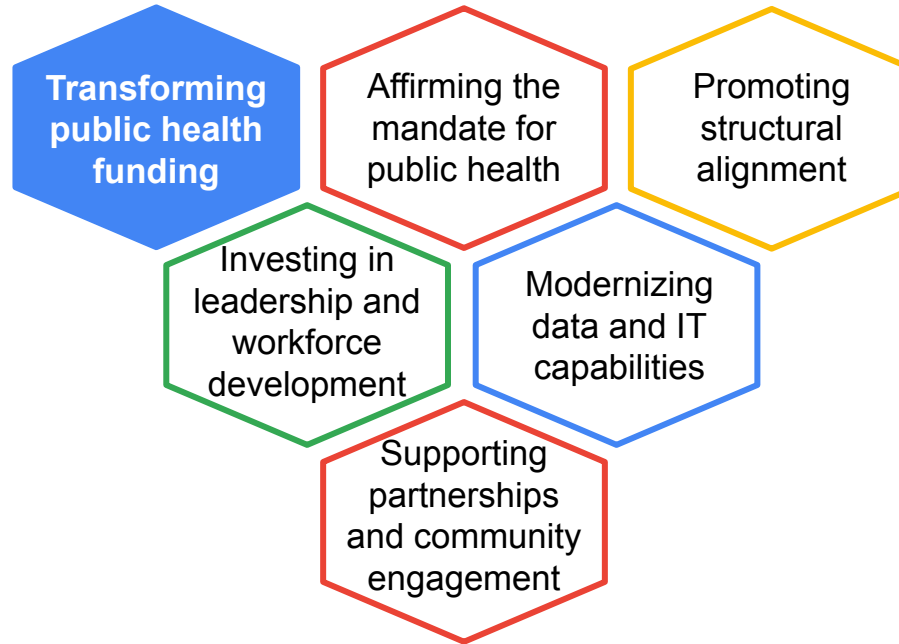
Support an **interoperable, cloud agnostic environment** that recognizes the federated public health structure

Develop a **workbench** of open source tools

Build capacity and capabilities through partnerships, as well as owned resources

Enable the incumbent and future **workforce** with IT capabilities

State and Local Public Health: **Priority Actions**



Funding the Infrastructure

Allow for more **flexibility**

Establish adequate, reliable, flexible, and sustainable funding mechanisms to support the **foundational capabilities**

Create adequate, reliable, and sustainable funding sources to support jurisdictions at all levels to **participate in established public health accreditation**

Invest in the upstream drivers of health

