

PANDEMIC PREPAREDNESS

Pandemics caused by human activity

. Bubonic Plague in Europe brought by rats on ship coming from Crimea to Italy

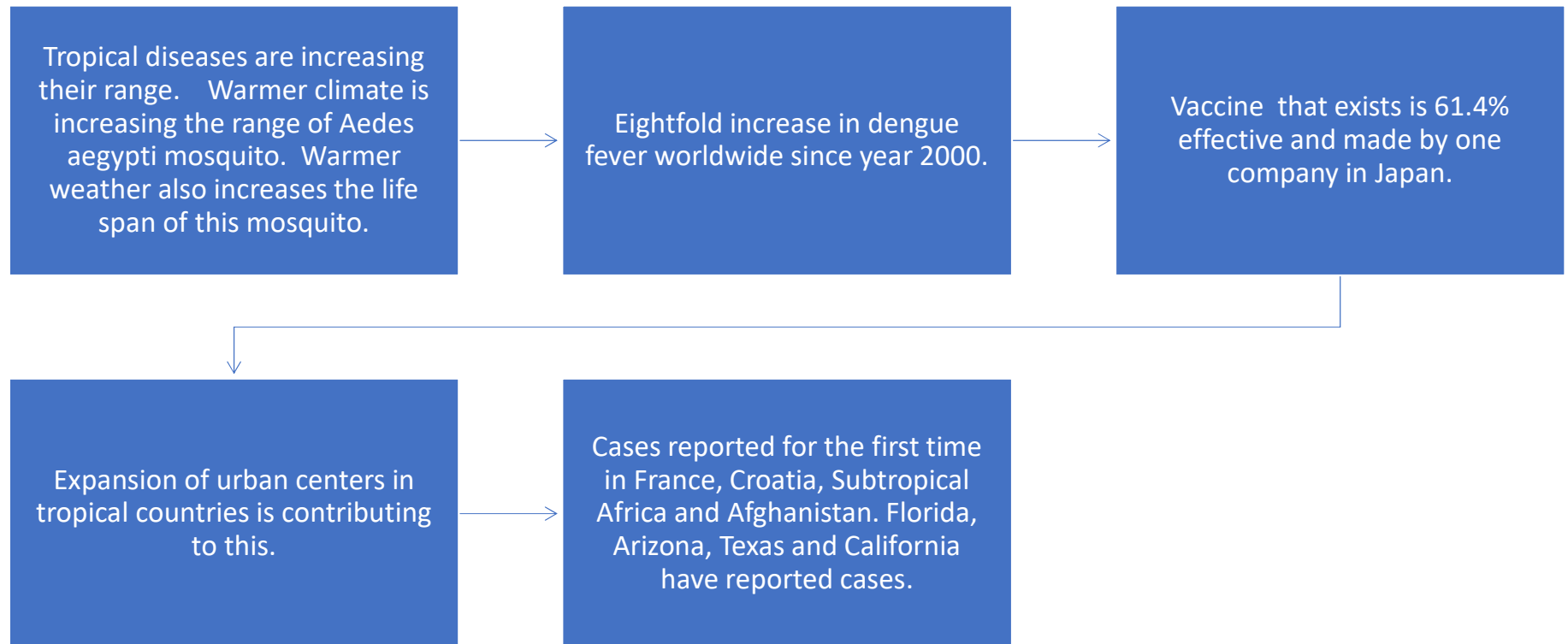
- Aedes Aegypti mosquito brought from Africa to Asia and Americas by slave trade

This mosquito carries yellow fever, Dengue and Zika among other disease.

- AIDS caused by people eating bush meat



Climate change and spread of disease



Good news about preparedness

MRNA vaccines
distributed to
market in record
time.

Virus detection
methods in
sewage can warn
of outbreaks.

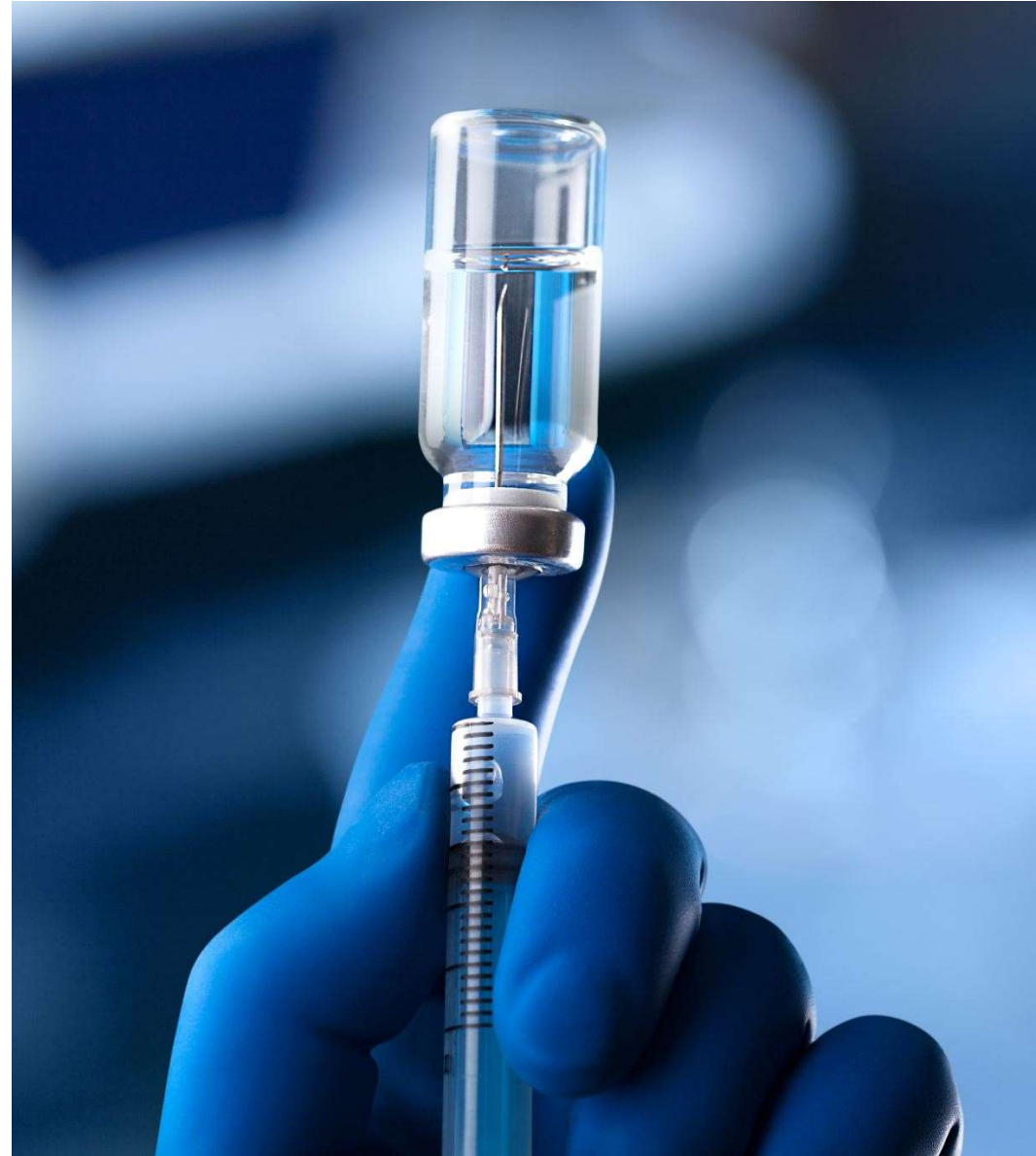
New data centers
set up by CDC

Ease of at home
testing

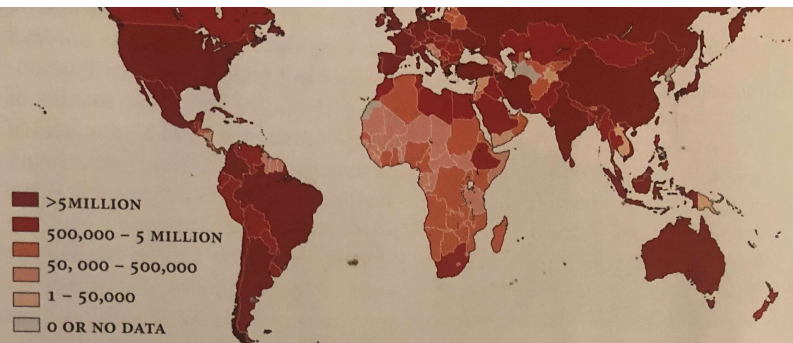
AI promises faster
development of
drugs

Bad news about preparedness

- Lack of transparency
- Anti Science attitude.
- Partisanship:
- State cuts in public health spending of 55,000 jobs.
- No bipartisan audit of what went wrong like we had for 9/11
- Lack of universal health insurance
- Vaccine hesitancy: Only 18% of adults have booster shots in US.



ies) had reached, on av-
 their populations with at
 ine dose and had begun
 excess doses, the aver-
 for low-income countries
 1%. Duke University's
 cale Speedometer found
 as likely to have more
 spare doses that year. By
 22, when both donations
 uring had ramped up, the
 nation coverage for low-
 ry populations still stood
 0% compared to 77% for
 ries. Even as late as July
 ecination gap remained
 overage for low-income
 rsus 84% for wealthy
 s gap is even wider con-
 ster shots, which remain
 tain in low-resource set-
 oid tests and treatments.
 Covid-19 vaccine ineq-
 found humanitarian and
 issue. It has also caused
 teral damage in terms of
 7. From an epidemiologi-
 ve, the emergence of the
 micron variant in south-
 which resulted in a global
 id-19 cases and deaths in
 d the first half of 2022, was



Top Ranked Covid-19 Cases by Country

	TOTAL COVID CASES	TOTAL DEATHS	PERCENT VACCINATED	% RECEIVING A BOOSTER
United States	103,436,829	1,138,309	66.18%	35.23%
China	99,318,718	121,790	87.3%	56.69%
India	45,001,384	533,294	69%	16.58%
France	38,997,490	167,985	78.37%	60.47%
Germany	38,437,756	174,979	76.37%	62.65%
Brazil	37,721,749	704,659	80.66%	51.93%
South Korea	34,571,873	35,934	86.38%	65.62%
Japan	33,803,572	74,694	81.75%	68.47%
Italy	26,257,548	192,554	83.83%	76.09%
United Kingdom	24,804,243	231,324	75.45%	N/A

World Vaccination Rates By Income