

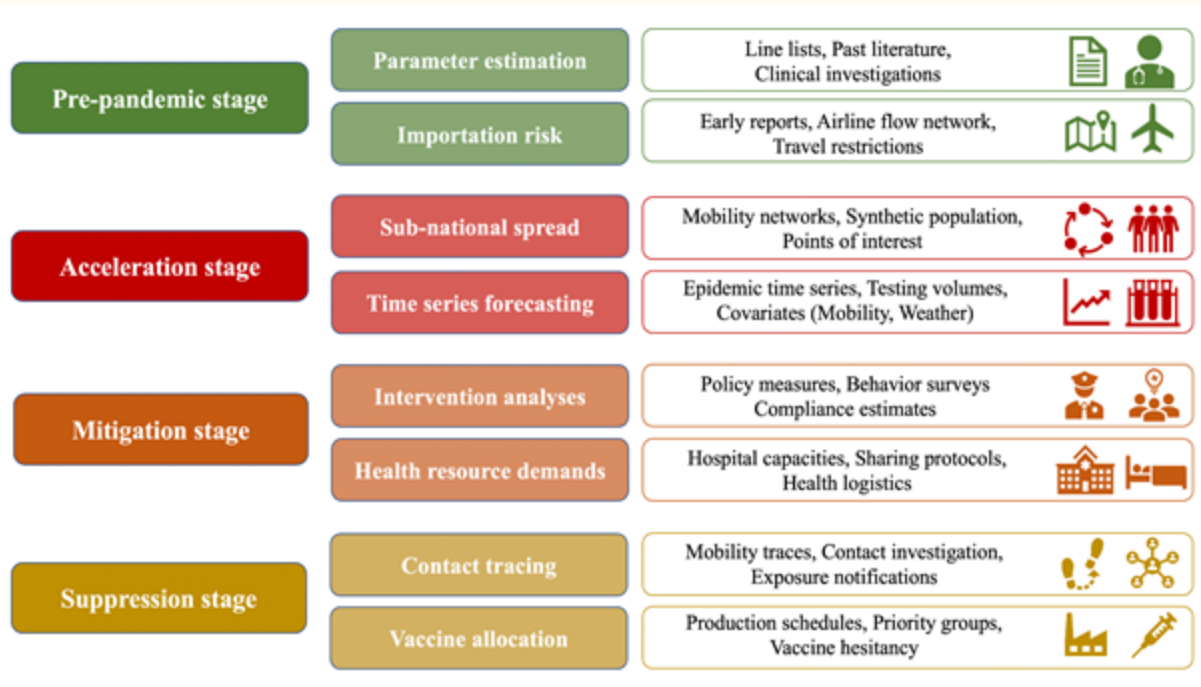
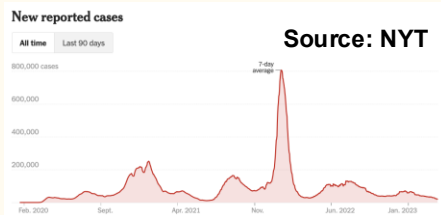
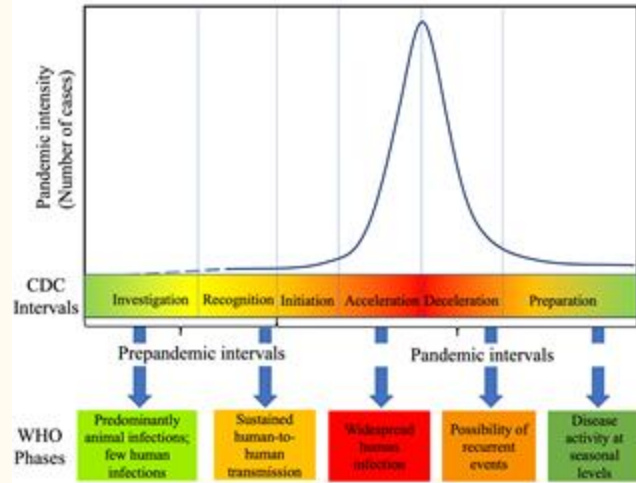


Data, data everywhere?

GPCE Spring 2023 Meeting - Lightning talk

Srini Venkatramanan
06 June 2023

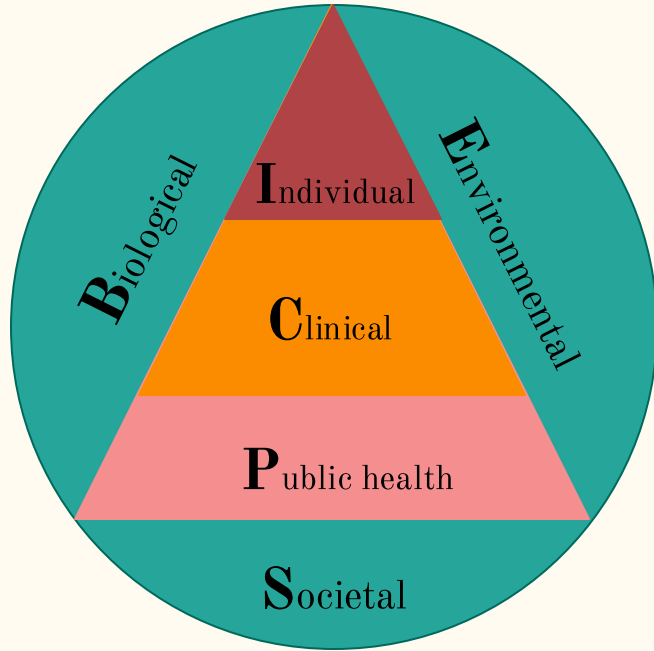
Cometh the hour, Cometh the data?



Source: Adiga, Aniruddha, et al. "Data-driven modeling for different stages of pandemic response." Journal of the Indian Institute of Science 100.4 (2020): 901-915.

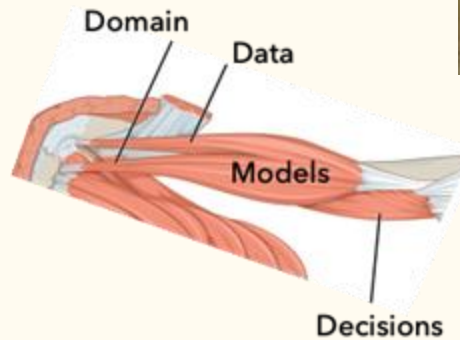
To Flex or To be Flexible?

BICEPS MODEL FOR HEALTH DATA



biceps - literally 'two-headed'

Data for
understanding
the past



Data for
insight into
the future

Pathogens, People, and ... the Poo?

Novel data sources emerged during the pandemic that are still being integrated into public health response

Need for balancing ‘wartime’ and ‘peacetime’ efforts



Genomic surveillance



Data for Good

COVID-19 Trends and Impact Survey

Google COVID-19 Community Mobility Reports

Mobility & Behavior



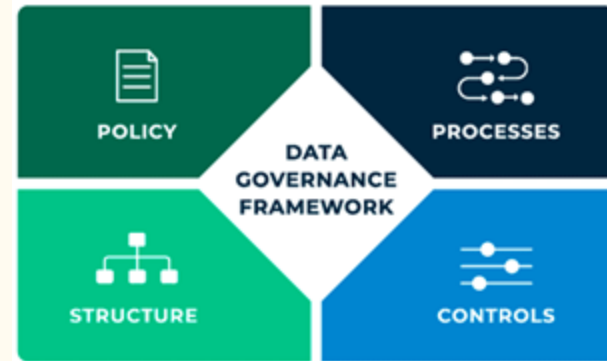
Wastewater surveillance

Ta-da!? ‘A tad’ more complicated than that!

- Increasing awareness of data governance and stewardship landscape
- Multiple players (public sector, private sector) with varying incentives
- Rise of the Synths? Data synthesis & Synthetic data



Source: <https://www.imperva.com/learn/data-security/data-governance/>



Source: <https://www.alteryx.com/glossary/data-governance>

Let's ask the oracle!

S

Write me a limerick about all the data sources we have for COVID-19 pandemic.



There once was a pandemic of dread,
With data sources that quickly spread.
From WHO to CDC,
They counted with glee,
COVID stats filled many a thread.

The graphs and the charts were quite grand,
Data poured in from every land.
Researchers united,
Numbers they cited,
A global effort, hand in hand.

From testing labs to contact traces,
Data sources in all sorts of places.
Scientists collaborated,
Information they aggregated,
In their quest for safer spaces.

So let's give thanks to those who strive,
To keep us informed and alive.
Through data's vast sea,
We'll find a way to be free,
From COVID's grip, we'll survive.

Source: [ChatGPT May 24 Version](#)