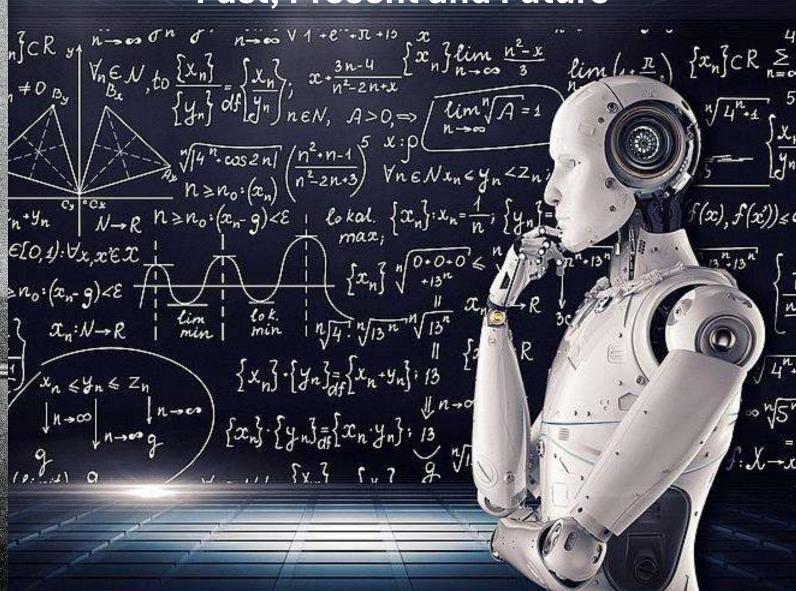
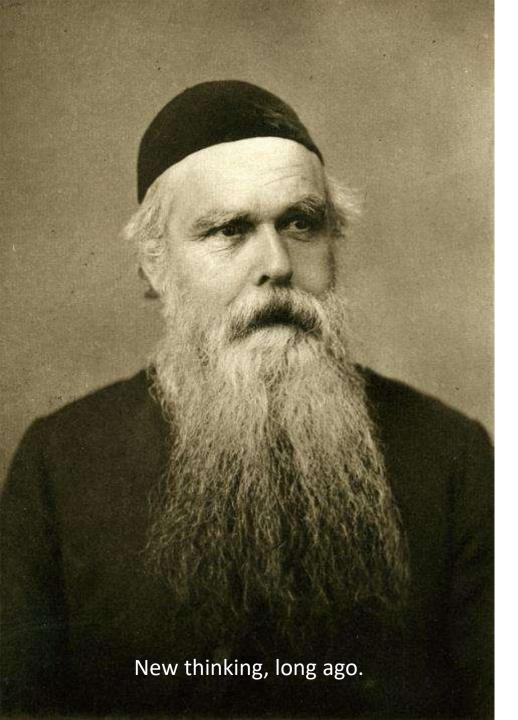


# Public Health Intelligence Past, Present and Future



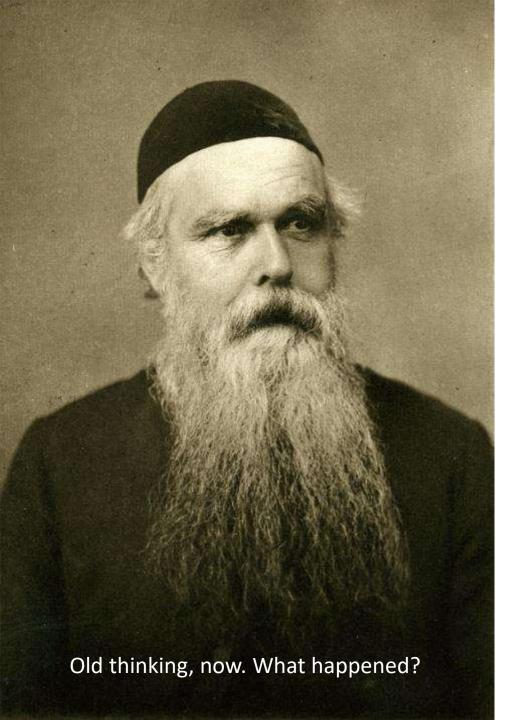


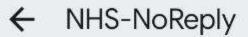


"Dr. Snow's views on cholera," said a medical friend to me in 1855 "are generally regarded in the profession as very unsound."

"If that be the case," I replied,
"heresy may be as good a thing
in your profession as some of
you are apt to suppose in mine."

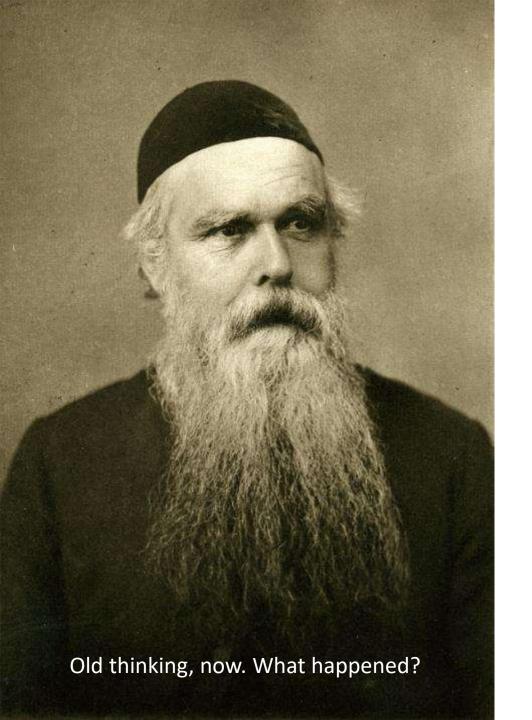
Reverend Henry Whitehead

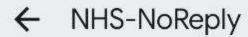




Monday, 15 Jul 2024 - 08:00

Please note that due to unprecedented levels of staff sickness, there will be a significant delay in answering any calls to the surgery. We therefore kindly ask that you only call if your need is urgent. We appreciate your understanding and patience during this time

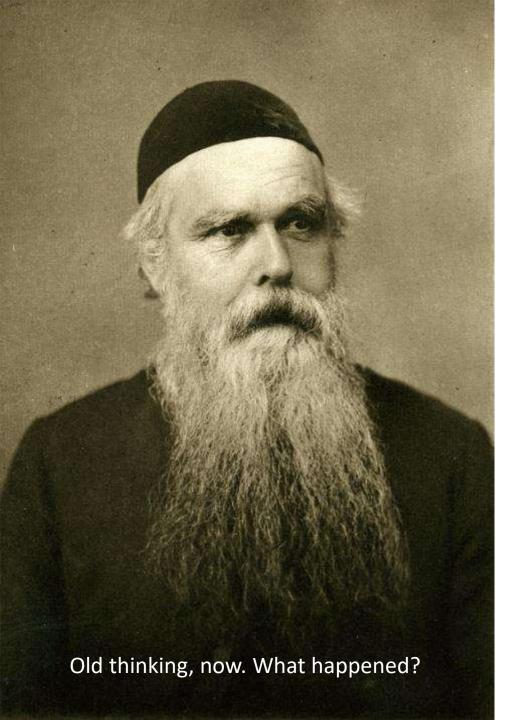


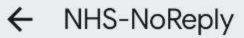


Wednesday, 17 Jul 2024 – 16:29

We continue to be very short staffed at the practice with Covid affecting a number of our reception team. We request that you only call the surgery if urgent. There may also be a longer wait than usual for prescription requests and responding to emails.

Thank you for your ongoing patience and support.





Monday, 22 Jul 2024 – 08:12

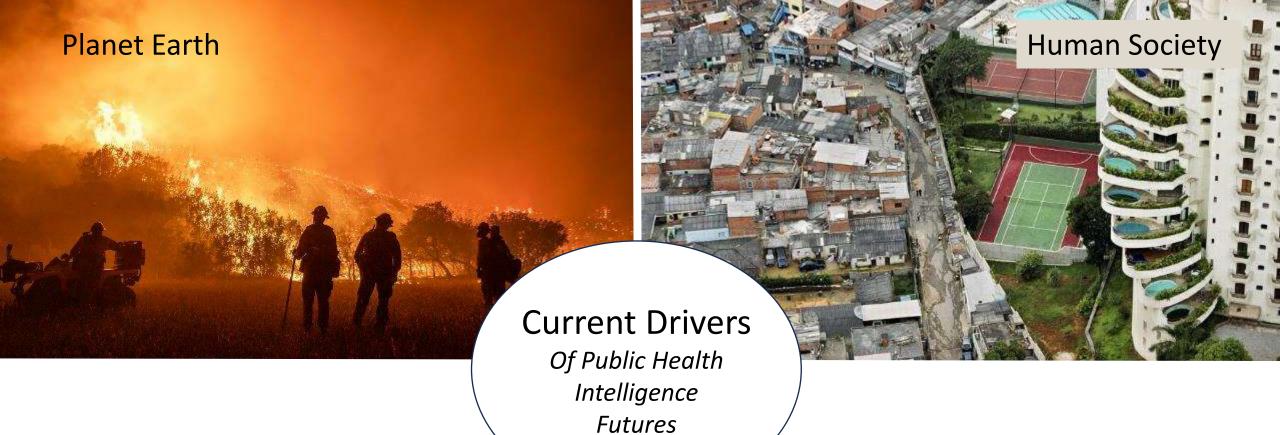
Unfortunately, we continue to face significant staff shortages due to a Covid outbreak in our reception team. Please call the surgery only for urgent matters. There may also be longer than usual wait times for prescription requests. We thank you for your continued patience.

08:12



#### Earth System

Human pollution particularly CO2 is overwhelming earth systems Climate crisis and ecosystem collapse Forever chemicals and microplastics



#### **Human Society**

Rise of a new Oligarchy and Techno-feudalism and Billionaires, which is driving global Economic Inequality

Rapidly urbanising populations – collapsing birth rates
Multiple workforce pressures driving immigration policy
Results in political polarisation and declining public trust "in the system"





Rapid digitalisation & development of AI is thought to offer solutions to various workforce crises

Centralising and linking data requires new data science skills ability to implement AI tools

 $\lim_{n\to\infty} A = 1$ 

Ethical and privacy concerns remain unconvincingly addressed

14 "- cas 2 n/ /n2 + n-



Of Public Health Intelligence Futures

(x), f(x)).



**Human Society** 

Public Health Intelligence  $\left(\frac{1}{n}\right) \left(\frac{n+1}{n}\right) \left(\frac$ 

f(x) 4> ]qE[0,1): Vx,xEX !

 $x_n \cdot y_n \stackrel{c_1 \cdot c_2}{\mapsto} R \mapsto n_0 \cdot (x_n \cdot g) < \varepsilon \mid lokal \{x_n\} \cdot x_n = 0$ 

#### Three Horizons Model

H1: Past & Present State

**H2: Transition to Future** 

H3: Desired Future

#### PUBLIC HEALTH INTELLIGENCE

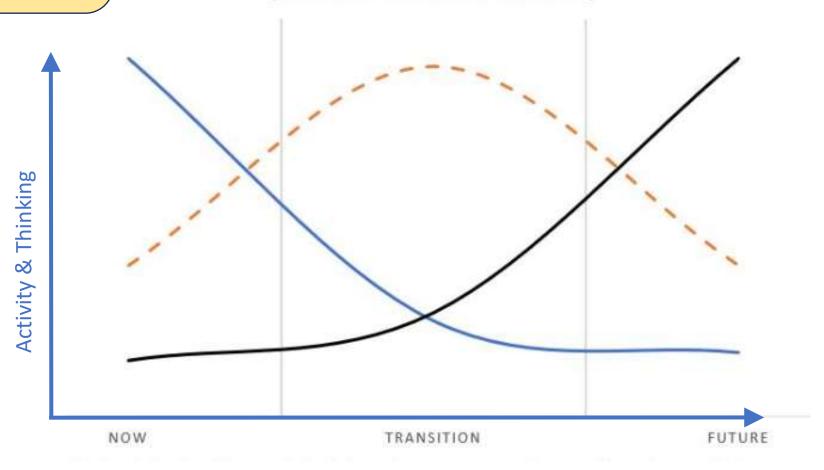
(DECISION-SUPPORT FUNCTION)

**H1**: Analyst driven analytics design using ever more sophisticated data science techniques

**H2: Al driven intelligence**, informed by a systems perspective and co-creative ways-of-working

**H3:** Analyst facilitated problem-'solving' that is human-centred and complexity-informed

Bill Sharpe UK Futurist



### H1: Our Past & Present

We are trapped in old thinking:

19<sup>th</sup> Century management paradigms

We focus more on data than on intelligence

Siloed & fragmented approach to challenges

We still have organisations that don't learn

230 000

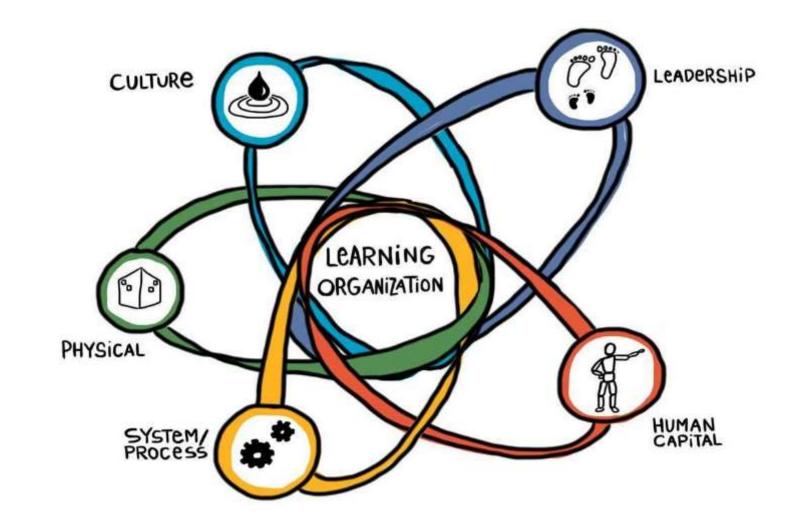


# H3: Desired Public Health Intelligence Future

Fully integrated & coherent approaches

System-wide problemmanagement

Seamless real-time intelligence sharing



## H2: Our Transition

#### A gradual shift to:

- 1. Al powered Open Data
- 2. Cross-functional teams
- 3. Co-creation of intelligence
- 4. Systems-based practice
- 5. Focus on "inequality"

Increase our effectiveness to manage problems despite growing complexity



