

# *Data in the age of COVID*

## *Tentative steps towards precision health*

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## *Vision*

To realize the full health potential of every human, everywhere.

## *Mission*

Reform the global health ecosystem through the power of information and technology.

# *A Global perspective*

**“There are decades where nothing happens: and there are weeks where decades happen”**

Vladimir Illyich Lenin

# *An example of a proposed deployment England*

The NHS health check (2012)  
Offered to citizens aged 40 to 74  
without pre-existing conditions



Alcohol, Smoking and Obesity decrease with age  
and Lipids, diabetes and low physical activity  
increase with age



Levels of risk increase with deprivation



Younger people offer the greatest opportunity for  
interventions

# *Independent Review reporting by December 2020*

- **Explore potential opportunities:**
  - Incorporate the NHS Health Check into the persons Electronic Health Record
  - Potentially widen the scope in terms of age and eligibility
  - Develop a digital perspective for further interventions
  - Incorporate Local government interventions
  - Incorporate initiatives that sustain health and prevent disease
  - Add years of productive healthy ageing

# Health Check



1

*Referral – mental health*

2

*Weight management*

3

*Gameification*

# ***ADD - A new national resource for early detection and prevention research***

- Collaboration between patient organizations, charities, academics, NHS, and the life sciences
- Recruit 5 million people , representative of the UK population
- Consent to link to NHS medical records
- Biological samples and health data on enrolment and throughout
- Polygenic DNA risk scores
- Link process with the NHS health check

# *The biggest challenge*

## *TRUST*

- Particular challenge amongst the more deprived populations
- Ethnicities – enrolling BAME communities
- Exploring dynamic consent in practice

*“Trust takes years to build, seconds to break and forever to repair”*