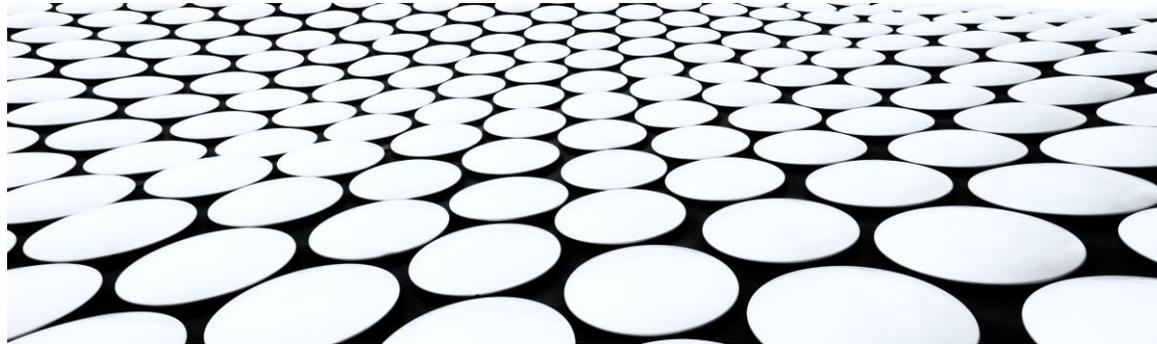


# **SOCIAL PARTNERSHIP FORUM LONDON CONFERENCE**

Pivot to the Future – Workforce  
Implications of the Big Investments



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Unison Conference  
Centre, London

Friday 30th September 2022

# “PEAK DEATH”

## Strategic Problems to Address

- Cancer, Cardiac and Stroke Care.
- Mental Healthcare and Elderly Failing Memory and Fragility Issues.
- Patient Numbers and Capacity Issues.
- Projected Poverty and Inequality Issues.
- Underlying Financial and Debt Management Issues.

# Delivering the NHS Long Term and Social Care Plan

- Reducing Morbidity and Mortality – Government Priorities.
- Going Digital and Embedding Big Data and Big Science.
- Reducing Inequalities and Improving Life Chances.
- Moving to Integrated Care Systems and Operating “at scale”.
- Strategic Investment Programme in Estates, Science and Technology.

# Strategic Investment Programme 5-10 Years

- Targeted Prevention (Epigenomics and Predictive Analytics).
- Rapid Diagnosis (New Technologies and Superfast BB).
- Rapid Emergency and Urgent Care (Differential Analytics)
- Personalised Medicine and Therapeutics (Pharmaco Genomics and Predictive Analytics).
- Personalised Support and ongoing Care (Functional Recovery and Predictive Analytics).

# Big Science Has Arrived



Genetic Profiling and Therapeutic Targeting



Proton Beam Therapy and Novel Treatments



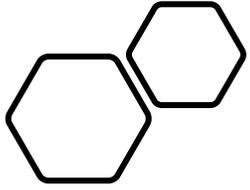
High-speed informatics and cooling technology



Stem-cell based research and new science



Prosthetics, regeneration & bio-engineering developments



# BIG SCIENCE NEXT WAVE

## Science and Technology-driven Improvements



Laser 3D-printed porcelain teeth, hearing aid, implants.



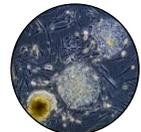
Laser 3D-printed cartilage, valves, prosthetics.



Personalised Medicine based on Genomics & Predictive Analytics



Personalised Poly-Pharmacy Unit Dose Medicines.



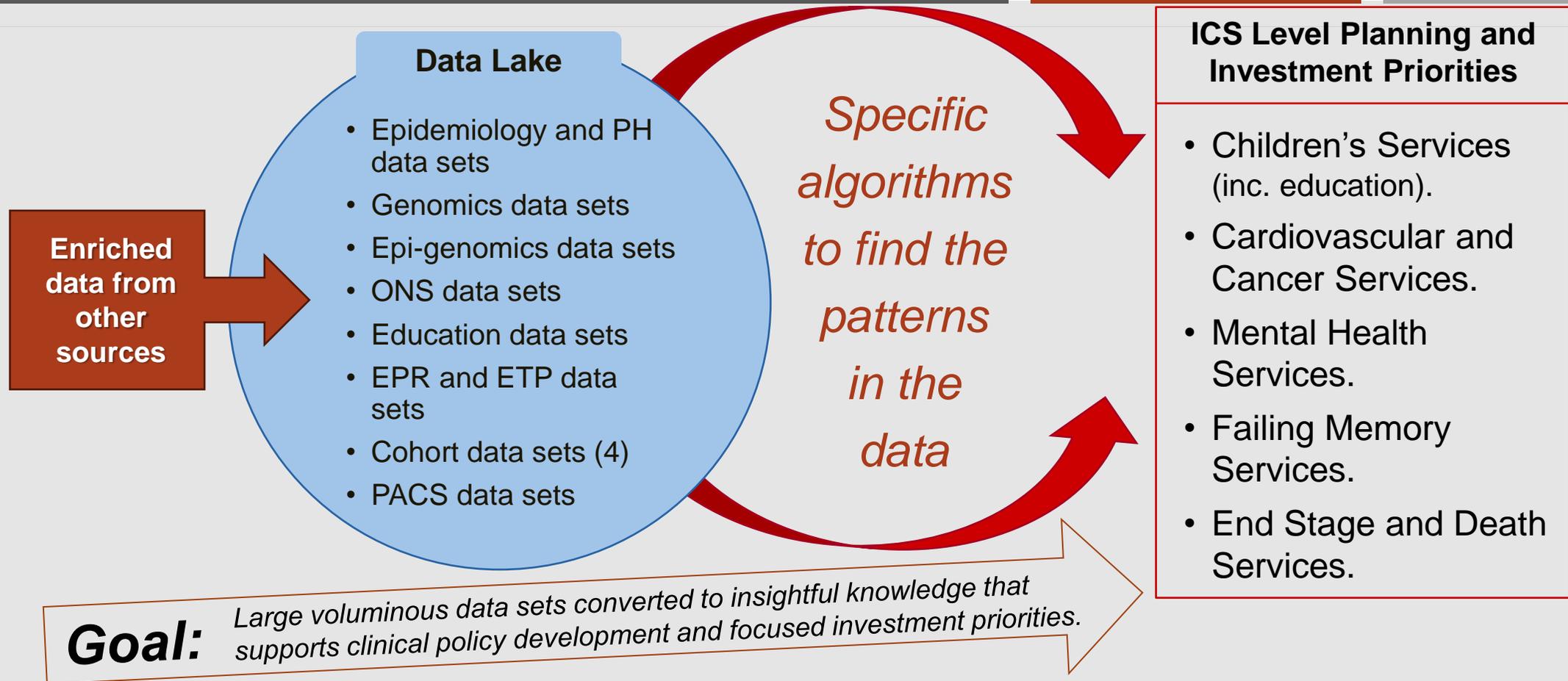
Biosimilars, mABs, stem-cell stimulated Corneas & Intestinal Villae.

# Going Digital and Embedding Big Data and Big Science

## An Integrated Data Strategy

- Develop Digital Lakes (Amazon – 50 Exabytes).
- Bring data from multiple databases to computers.
- Develop search engines and Analytical Platforms.
- Enrich the data from multiple sources.
- Create a Data Service incorporating machine learning.

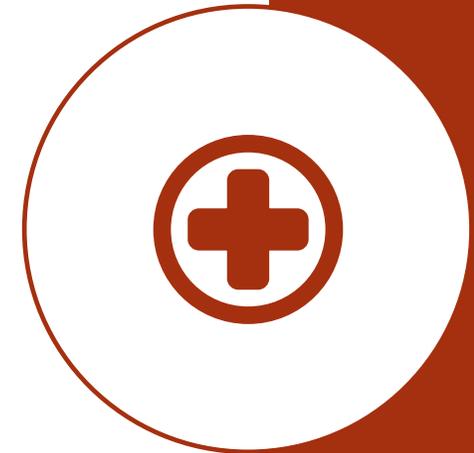
# Reducing Inequalities and Improving Life Chances



# STRATEGIC INVESTMENT PROGRAMME

## Primary and Community Care @ Scale

- £5bn Community Asset and Technology Investment Programme – more care centres and technology.
- Migration from GP – 10k list to Primary and Community Care Service Organisations with up to 1m list.
- Rapid Diagnostic and Imaging “high street” Services.
- Different Skill Mixes and Deployment Patterns.
- Big Bizz and Private Equity Investment Funds.



An architectural rendering of a modern NHS facility. The building features a prominent glass facade with several vertical panels in vibrant colors: purple, orange, red, and yellow. The building is situated on a street with a sidewalk where several people are walking. In the background, there are trees and a traditional brick building. The sky is a clear, light blue.

# THE NELSON CENTRE

A MODERN NHS FACILITY  
PROVIDING INTEGRATED  
CARE FOR THE LOCAL  
COMMUNITY

# Strategic Workforce Implications

- Rolling programmes of CPD, post-basic and post-graduate education and training, especially for key specialities – intensivists, cardio, diabetes and cancer.
- Organisational development programmes in new ways of working – AI and predictive analytics.
- Role development programmes for care assistants as care coordinators/navigators/personal assistants.
- Care community development programmes for family, volunteers, neighbours.
- Robust supply and demand side workforce modelling and investment planning.

# *Thank You*

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