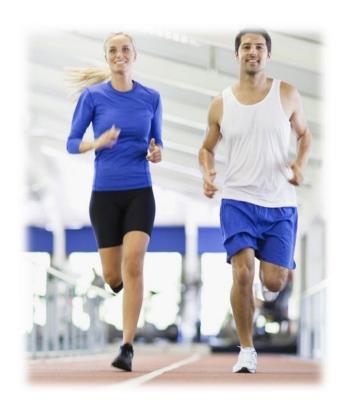
# HFMA's SOUTH CENTRAL ANNUAL CONFERENCE Developing the NHS 2018 - 2028

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### PUBLIC SERVICES IN THE 21ST CENTURY



- More public services for the same/less money.
- More technology, science and informatics to increase efficiency and efficacy.
- More multi-agency working to develop shared understanding of problems and approaches to commissioning services and deploying staff.
- Better educated and trained joint workforces to solve complex problems.
- Better reconciliation of delivery now while developing for the future.



#### NHS's 70th BIRTHDAY YEAR – DELIVERABLES

- 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 and Public Finances Risk Management.



#### NHS's STRATEGIC INVESTMENTS

- Big Science –2 Waves
- Big Data and Lakes
- Life Sciences Industrial Strategy
- New Asset Class and Locus Shift
- Integrated Care Systems







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 and bio-engineering developments.





#### Science & Technology-driven Improvements



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



Laser 3D-printed cartilage, valves, prosthetics.



Personalised Medicine based on Genomics and Predictive Analytics.



Personalised Poly-Pharmacy Unit Dose Medicines.



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





#### 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



**Data Lake** 

Enriched data from other

sources

Epidemiology and PH data sets

- Genomics data sets
- Epi-genomics data sets
- ONS data sets
- Education data sets
- EPR and ETP data sets
- Cohort data sets (4)
- PACS data sets

Specific algorithms to find the patterns in the

data

## STP Level Planning and Investment Priorities

- Children's Services (inc education)
- Cardiovascular and cancer services
- Mental health services
- Failing Memory Services
- End Stage and Death Services

Goal:

Large voluminous data sets converted to insightful policy and focused investment priorities.

### STRATEGIC INVESTMENT PROGRAMME LIFE SCIENCES INDUSTRIAL STRATEGY



- Health Advanced Research Programme (HARP).
- Partnership Framework Industry, Charities, NHS, HMG.
- Genomics, Gel and Precision Medicine.
- Biobank expansion and Mine NHS data (Data lakes).
- Digital Pathology and Imaging.
- Clinical Trial Capability (Real World Studies).
- Early Development Networks and Convert SMEs to big Companies.
- SE Cluster Infrastructure and Research Investment (Oxford, Cambridge, and London).

### THE NELSON CENTRE



A modern NHS facility providing integrated care for the local community





## STRATEGIC INVESTMENT PROGRAMME PRIMARY and COMMUNITY CARE @ SCALE

- £5bn Community Asset and Technology Investment Programme – more "Nelson" 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.

## LOCAL NETWORK OF PUBLIC SERVICES – MANAGEMENT ARCHITECTURE



## Chief Executive of the Integrated Services Network

### Director of Medical Services (Chief of Staff)

- Director, Surgical & Obstetric Services.
- Director, Adult & Elderly Medical Services (inc. Social Care, Community Services and GPs).
- Director, Intensivist Services (inc. PICU and SCBU).
- Director, Family & Children's Services (inc. Child Protection Board)
- Director, Diagnostic & Imaging Services.

#### **Director of Operations**

- Director, Finance,
   Strategic Investment &
   Performance.
- Director, IT, Informatics & Data Governance.
- Director, Nursing, Quality
   & Patients' Experiences...
- Director, Estates, Asset Management & Investment Partners Relationships.
- Director, Human Resources, Organisational Development & Staff Wellbeing.

#### Director of Innovation

- Director, Research & Clinical Trials (stage 3).
- Director, Genomics & Clinical Bioinformatics.
- Director, Science & Technologies (inc. stem cell).
- Director, Learning & Practice Development.
- Director, Education & University Liaison Management.

### Thank You



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