Harnessing the Power of Data... Improving Outcomes

@ManiraAhmad

#DataFest19
“If I had asked people what they wanted, they would have said faster horses.”

—Henry Ford
14 ‘territorial’ NHS Boards and 8 ‘special’ Boards

NHS Education for Scotland
NHS Health Scotland
NHS National Waiting Times Centre
NHS24
Scottish Ambulance Service
State Hospitals Board for Scotland
NHS Healthcare Improvement Scotland
NHS National Services Scotland
“To transform information into evidence for action to protect and improve health and well-being in Scotland”
The Data Landscape in Scotland
The data landscape

Every **week** in Scotland data are collected on around:

- 1,000 **Births**
- 15,000 **Out of Hours attendances**
- 20,000 **Screened for cancer**
- 30,000 **Hospital admissions**
- 30,000 **A&E attendances**
- 40,000 **NHS eye exams & tests**
- 90,000 **NHS dental treatments**
- 200,000 **Outpatient clinic attendances**
- 500,000 **GP practice consultations**
- 2,000,000 **Drugs dispensed**
Our Primary Objectives

- **Supporting Integrated Service Delivery**
- **Driving Population Outcomes**
- **Underpinning Quality and Effective Care Delivery**
- **Enabling Better Personal Outcomes**

Population level

Individual level

Opportunity to drive value – NSS I&I current position:
- At/near maximum
- Delivering value
- Delivering some value
- Yet to be explored

Service Delivery

Outcome improvement
Public Health Reform

Improving Services (health and Social Care Public Health)
“Our greatest opportunity for maximum impact”

PRIORIY THREE
We have good mental wellbeing

PRIORIY FOUR
Where we reduce the use of and harm from alcohol, tobacco and other drugs

PRIORIY TWO
We flourish in our early years

PRIORIY FIVE
We have a sustainable, inclusive economy with equality of outcomes for all

PRIORIY ONE
Vibrant, healthy and safe places and communities

PRIORIY SIX
We eat well, have a healthy weight and are physically active

Our Working Environment

Regional Planning
National Planning
Local Planning

Digital
Realising and Practicing Realistic Medicine

Quality Improvement
Brexit
2020 Vision
National Collaborative
Shared Services

Health and Well-Being
Translation
Intelligence
Local Support

Health Improvement
Data

Health Protection
Immunisation
Evidence

Person Centred
Early Intervention
Informed Choice
Prevention

Health Inequalities
Community
Mental Health
Homelessness

Universities
Schools
Clusters
Shops

Care Homes
Third Sector
Supporting Our Customers

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‘Actionable intelligence’

Creating greater value for customers

Data

Intelligence

Translation

Our direction of travel
‘Actionable intelligence’

Analytic capabilities

- Descriptive Analytics
  - What happened?
- Diagnostic Analytics
  - Why did it happen?
- Predictive Analytics
  - What will happen?
- Prescriptive Analytics
  - What’s the best outcome and how can we make it happen?

Value

Level of sophistication

Insight

Optimisation

Foresight

Information

Hindsight
Knee Replacements
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Our Local Approach
Supporting Health & Social Care Integration

- Resource Based Locally
- Access to Specialist Skills
- Enabling access to national resource and support
- Support Local Priorities
- Facilitate Local Discussions
- Sharing Best Practice
- Share Skills, Knowledge and Expertise
Doing it Once for Scotland

Locally Deployed Teams

- ISD Primary Care
- ISD Health & Social Care
- ISD Secondary Care
- ISD Digital Design

- Discovery
- Co-Production
- Visualisation
- SPIRE

- Linkage
- Bespoke analysis
- Source
- Evaluation

- Co-Planning
- Pathways
- Local Priorities
- ISD Service Access

- Primary Care Indicators
- 45,000 Voluntary Organisations
- 32 LAs & 32 CPPs

- ISD Workforce
- ISD Data Management

- Single sign on
- Story telling

Video
What have we been doing

- Diabetes Prevalence
- Chronic Pain Management
- Cancer Pathways
- Appointments
- Prescribing
- Home Visits
- Admissions and readmissions
- Risk Prediction
- ACP And Frailty
- Demand and Capacity
What have we been doing

Prisoner & Homelessness

Perth & Kinross Association of Voluntary Services

Erskine Hospital ANP service evaluation

Child Health

Leuchie House – Respite Care Services

Substance Misuse, Poverty & Impact on Children

ALLIANCE on Dementia

Play & Early Intervention Services

Resonate Social Enterprise Organisation

Custodial Medical Care & Medical Forensic Services
Making an impact with data locally

Local Intelligence Support

Making an impact with data locally

Our story so far...

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Local Intelligence Support
LIST is part of Information Services Division (ISD)

Our Stories
....last weeks book club!
What’s Next…

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A Single Sign-on: our aspiration
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Discussion