Delivering value with Digital Health care

Working together in using data and digital health to influence decision making and design in change to empower people and improve health outcomes for best possible value.

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Head of Dorset intelligence &
insight Service

&

Crystal Dennis
Interim Operational Lead for
Digital Access to Services
@Home









Our () Dorset DIGITAL

ENABLING TECHNOLOGIES

Getting the right infrastructure baseline to support our future development

DATA AND INTELLIGENCE

Transforming the way data and analytics are used across the System, by using a population health management approach, to support the design and planning of health and care services including where there are health inequalities

APPLICATION PORTFOLIO OPTIMISATION

Supporting the delivery of safe joined up, seamless care through sharing the right information at the right time

DIGITAL ACCESS TO SERVICES AT HOME

Working with commissioning and clinical teams to support Dorset citizens to empower self-care and enable them to confidently manage their health, wellbeing and long-term conditions

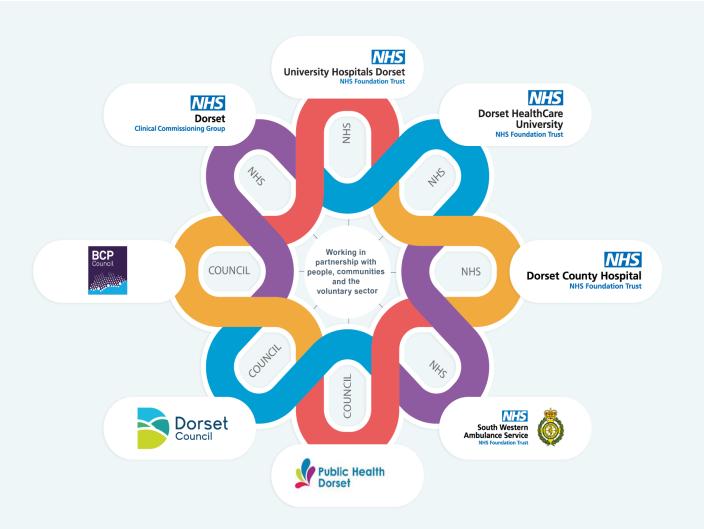
DIGITAL SKILLS

Developing the skills and understanding within the workforce to develop and deliver the digital services and embed digital change in our health and care services and develop champions and volunteers to train the public in using digital health technologies

RESEARCH, INNOVATION & PARTNERSHIPS

Inspiring and enabling research and embedding digital innovations whilst working with a range of partners including regional/ national/ international government departments, academia, research and innovation organisations and industry

Dorset Integrated Care System and Partners













Microsoft



Dorset Intelligence & Insight Service (DiiS)

A collaborative service delivering live, linked health and social care data across Dorset.

Aim: is to make health and social care data open, easy to access, and available to create actionable insights

Use: supporting data-led service improvement, planning and decision making at a system and organisational level – and more recently during Dorset's COVID-19 response.



A collaborative service delivering MedTech regulated software with or without medical devices. Using clinical safety as the framework for design with appropriate data flows used for decisions at point of care and secondary use for behavioural insights in adoption and spread.

Aim: A consistent and coordinated offer with good user experience in empowering the digitally enabled and health literate / activated population with tools for supported self management. To accelerate access to services from home for actionable insights.

Use: enabling digital hybrid pathways to manage a higher demand with a different part of the ICS workforce.



18 primary care networks



77 GP practices



816,000 registered population



Awareness

What is already available? How to bring the technologies together for outcomes How to horizon scan effectively



Accessibility

How to access technologies / digital platforms How to access support and build digital knowledge & capability



Trust

Help and knowledge to build trust in the new digital ways of working and how they are being coordinated



Coordination

Support by a central teams to clarify regulatory landscape and the appropriate governance foundation for delivery

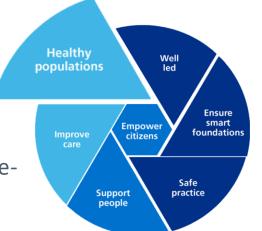


How DiiS supports PHM

The DiiS is being used every day by health and care professionals across Dorset to make evidence-based decisions to improve the health and wellbeing of our population.

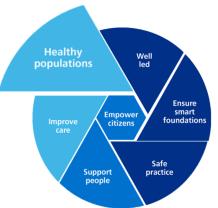
- Tool at the forefront of Dorset's COVID-19 analytical response linking data from primary care,
 acute and community providers on a near real time basis
- Case finding / Targeting for individuals or cohorts (including secure re-identification of patients or service users to those who manage their care)
- Population Health Management: the ability to group by medical, mental health, demographic and socio-economic markers to identify points of earlier intervention in the pathway
- Provision of wider population-based insights to enable the use of social prescribing



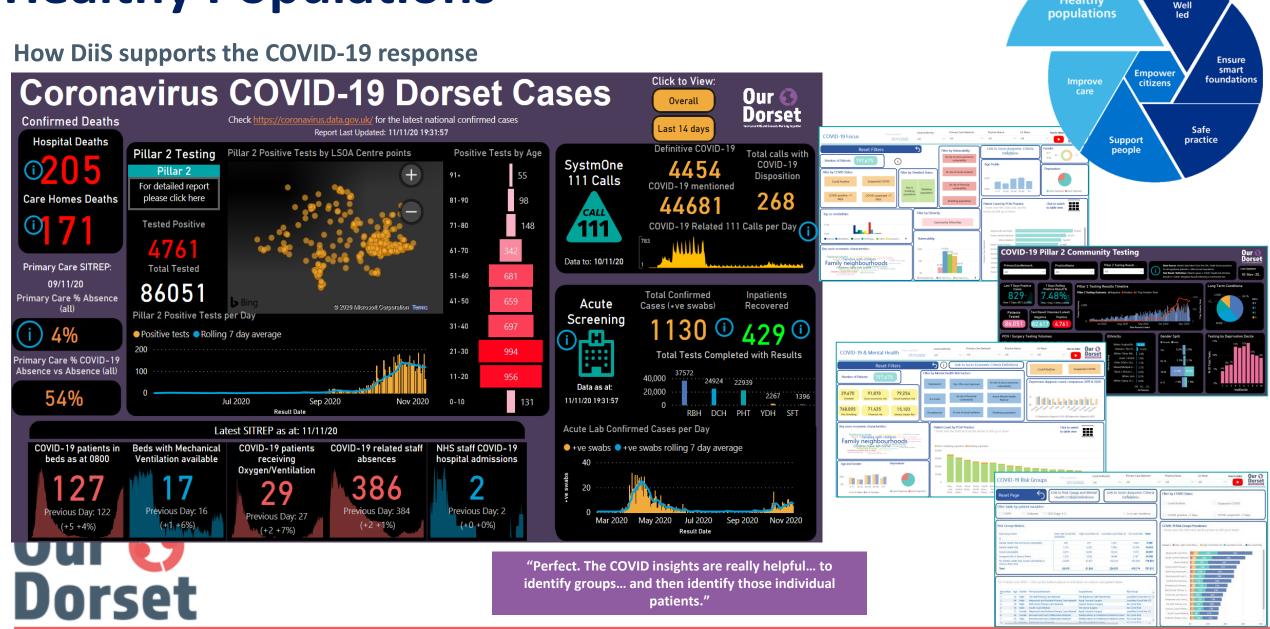


How DiiS supports PHM

Cross cohort	Covid Care Models matrix	No specific Covid risks	Single high risk (local)	Multiple High Risk (local)	Very High Risk/Shielding (National)
considerations for further tailoring of care offer	vulnerabilities	resource	Practice nurse check in by phone Holistic care planning/care plan virtual review/LTC patient APP Sign posting to talk health aptions national/local for particular	somerser Lie patierns)	Personalised messaging on social distancing and health management for specific groups e.g. cancer, maternity, heart failure, diabetes etc here remote on is not possible upport to address long term use bing telephone befriending online . Uvewell Dorset etc
 English not first language Digital literacy, access Key worker? 	Mental health	National websites, apps helplines (guided by Nat Covid workstream) Leaflet drop Town council helpline Social Prescribing to Help and Kindness website for pan-Dorset support directory.	where relevant! Health champion virtual groups Social prescribing signposting to Dorset MIND for online group support, and access to The Vale First Contact MH practitioner., Steps to Welbeing.	Clinician for initial contact proactive care management /MH virtual review Holistic MDT care planning in partnership with patient Jand carer where relevant) Health Champion virtual support e.g. Mindful Caté online for dementia Social Prescribing – referral to The Vale MH practitioner., Steps to Wellbeing.	Proactive support offer phone call virtual Mit review town council helpline Telephone b Local author Social Prescr The Vale First Steps to Well prescription s Proactive support offer phone call Cross provider approach to health and social care support offer
Caring responsibilities, who? How?Crowded or	Social vulnerability	Leaflet drop Town council helpline Social prescribing wellness call from Help & Care or local SP practitioner. Social Prescribing to Help and Kindness website for pan-Dorset support directory.	Practice nurse check in Care coordinator assigned Holistic care planning in partnership with patient (and carer where relevant) Practice Nurse for initial contact, then care coordinator with MDT Social prescribing support signposting to Uvewell Dorset/Age Concern	Clinician for initial contact proactive case management Holistic MDT care planning in partnership with partient jand carer where relevant) LA team to support access and training for remote tech from govt scheme. Health champion peer support. For LTC/Self management.	Proactive support after phone call town council helpline Telephone bettlending Local authority support Sacial Prescribing to self management service offer, signposting to community valunteer support.
	Social vulnerability + mental health	Social prescriber assigned to conduct Wellness Call': check in, social and practical prescribing including food bank access, town council helpline citizens advice, and broad RVS support Social Prescribing to Help and Kindness website for pan-Dorset support directory.	Practice nurse check in Health and wellbeing worker assigned Hollstia care planning in partnership with patient (and carer where relevant) Practice Nurse for initial contact, then health and wellbeing worker with MDT Social prescribing support -care co-ordinated personal care plan	Clinician for initial contact, proactive case management Holistic MDT care planning in partnership with patient (and carer will) LA team to support a remote tech from go Health champion virting alongside more traditional delivery	Proactive support affer phone call town council helpline Telephone betriending Local authority support Social prescribing - personalised care plan agreed and implemented, offer virtual peer support anilne or telephone., link to volunteer support.
	Increased risk of serious Illness with COVID-19 Diagnosed/suspected Male/age/obesity/dem entio etc	 Raise awareness via social media etc regarding risk factors for illness Social Prescribing to Help and Kindness website for pan-Dorset support directory. 	HCA proactive approach Monitoring via patient APP and pulse eximetry Social prescribing after such as LWD smoking cessation support, weight management support for abesity	Clinician lead groads and monitoring Monitoring via patient APP and pulse oximetry using virtual word approach Social prescribing offer such as LWD smoking cessation support, weight management support for obesity	Monitoring via patient APP pulse aximetry virtual ward approach Dally contact with alinician virtually Social prescribing offer - LWD smoking cessation support, weight management support for obesity reduction, after of LWD behaviour change coaches



DIGITAL

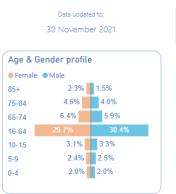


Healthy

Healthy Populations – High Intensity Users







Total Appointments
(last 12 Mths)
4.4M

1-4

5-9

20+

Total

10-19

Primary Care

Patients Attending (Last 12 Mths)
610.5K (74.8 %)

25.2%

35.9%

13.3%

4 406

100.0%

674.631

1.154.114

1.437.331

1,045,537

4.311.613

Primary care attendance (Last 12 months)

205,695

293,059

173,232

108.510

35,678

816,174

Patient

Did Not Attend (DNA) Rate

2.6% (114K)

DNA

Rate

3.0%

2.7%

2.5%

2.4%

2.6%







Our 😯
Dorset
Your Lean FREE and Councils Northing Together

Appointment types	
Telephone 1.4M (31.9)	
Face-to-Face 3.0M (68.1%)	

DNA Frequency	Patient Count	DNA Volume
0	597,742	
1-2	78,395	91,482
3-4	4,568	14,883
5+	1,021	6,664
Total	681,726	113,029



% Appts

15.6%

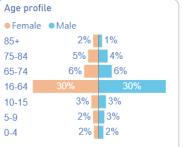
26.8%

33.3%

24.2%

100.0%

Total ED/MIU Visits (last 12 Mths)
200.6K



ED Attendances (last 12 Mths)
165.3K (82.4 %)

35.2K (17.6 %)

12 Mths) 12 Mth 5.2K (17.6 %) 130.9K

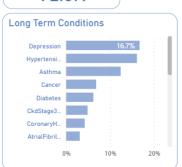
Patients Attending (Last 12 Mths)

130.9K (16 %)

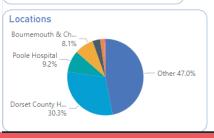
Emergency Admissions (last 12 Mths) 72.6K

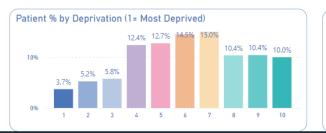


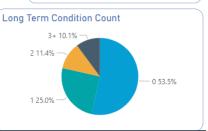
MIU Attendances (Last

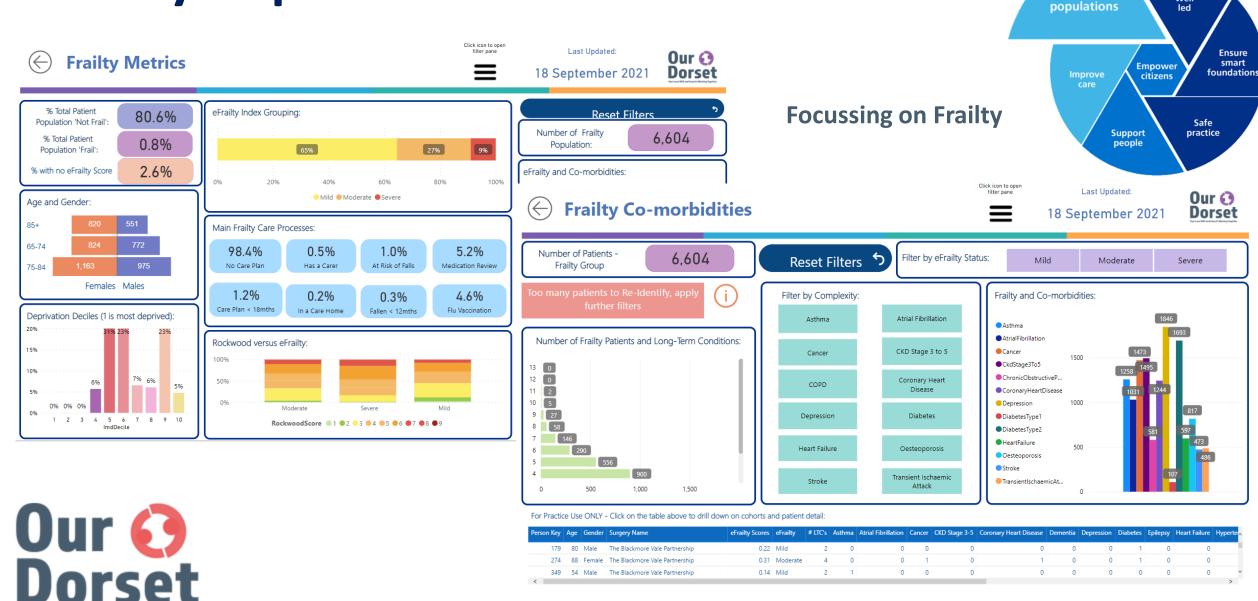






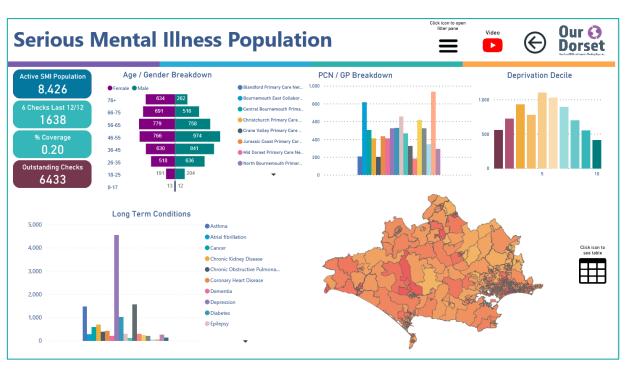






Healthy

Well



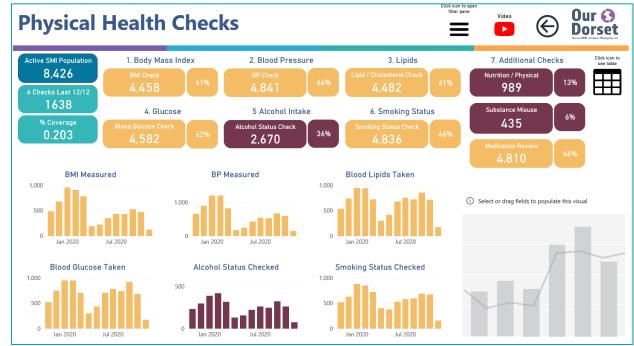


"Exploration of the link between physical health with mental health problem and how a care plan can help manage these two more effectively and prevent mental health deterioration then causing deterioration in physical health/diabetes and vice versa."

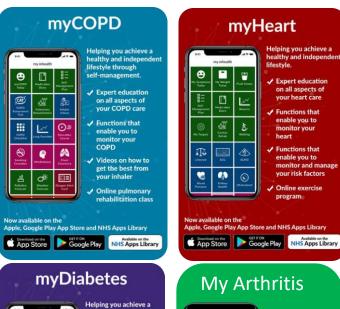
— Local GP

How DiiS supports mental health



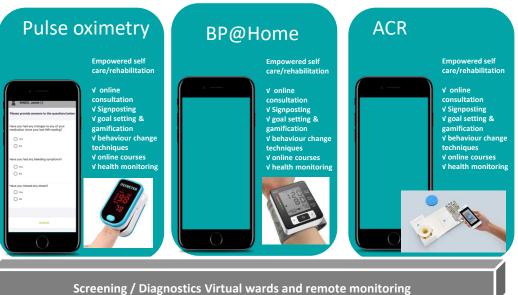




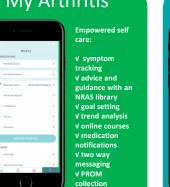




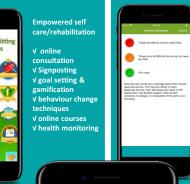














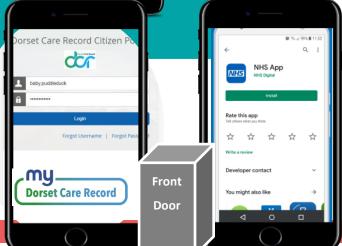
Brain in Hand

NHS



Our 😝 Dorset

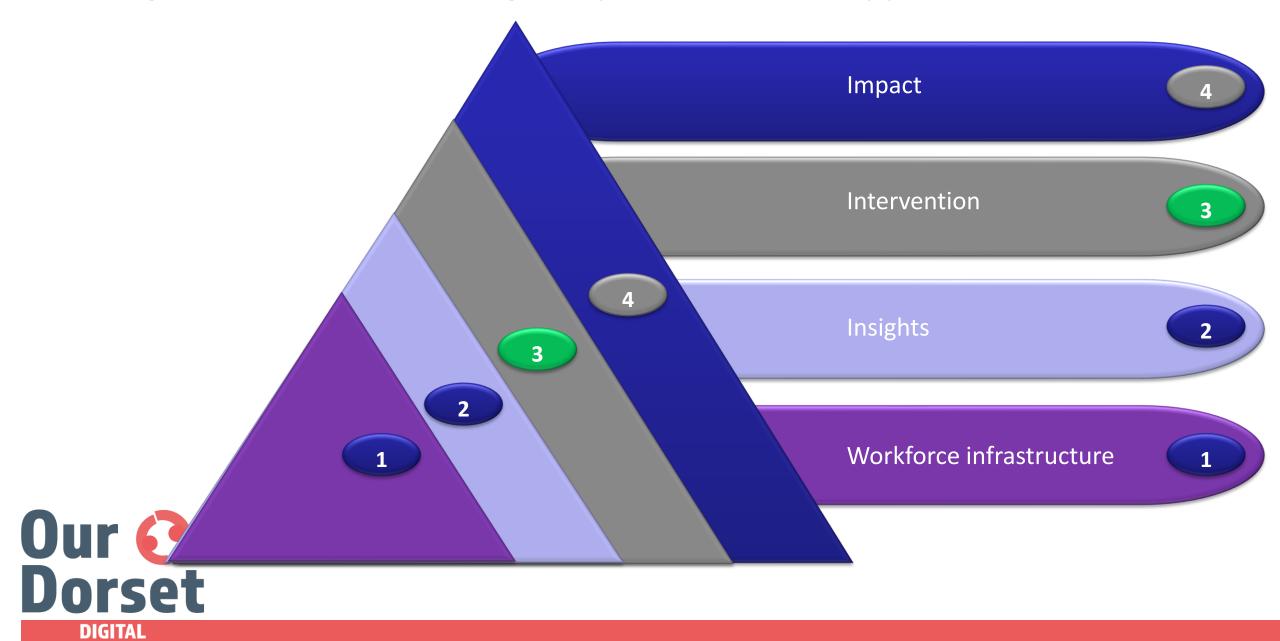
LTC (supported self management & online rehabilitation)



Digital Health Information

DIGITAL

Building blocks of success using a Population Health approach...



Building blocks of success using a Population Health approach...

Highest Risk

Recommended guide Inclusion/targeted cohorts:

Group 1

>40 years old

NHS E/I Group A - Clinically extremely vulnerable + BP >150/90

Group 2 (BPM that can be used with AF)

NHS E/I Group B - Clinically extremely vulnerable with hx of TIA/CVE and no previous diagnosis of AF + BP >150/90 (prioritization given to BAME, >65s, socially deprived)

WITH:

Uncontrolled hypertension last BP reading as defined by >150/90

Greatest risk of hospitalisation within 12 months. clinical decision Could be controlled but at risk of hospitalisation and specialist care. Complex with perhaps multiple comorbidities

> Where do these target groups reside? These are our early adopter sites.

Rising Risk

Recommended guide Inclusion:

Group 3 (risk strat according to local demographic)

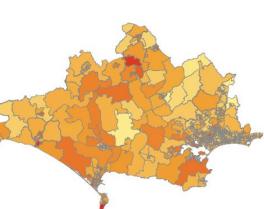
>40 years old + BMI 35 + and/or CVD and/or CKD+ BP >150/90

(Note: prioritisation given to BAME, >65s, socially deprived)

Exclusion Criteria (ref to

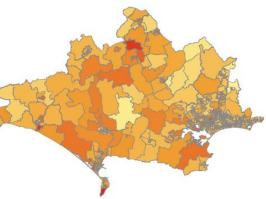
Exclusion:

- BP <150/90
- 4 or more antihypertensives
- Diabetes (separate Diabetes workstream/pathway)
- Dementia
- Unable to consent
- Pregnancy or planning pregnancy
- Frailty score 4 or above
- AF
- NOTE: To have discussion with care home regarding inclusion and exclusion





- 2. Poole Central
- 3. Blackmore vale
- 4. Weymouth and **Portland**
- 5. Shore medical
- 6. The Blandford group
- 7. Mid Dorset
- 8. Jurassic Coast



Each local area can decide which group(s) they want to focus on first, according to local priorities and context





Working in partnership to strengthen implementation, and deliver quality outcomes and benefits

































Insights using DiiS to take a population health approach to identify hypertensive patients



Deliver cuffs to patients to support their self management and education



Track the effect that the platform is having in usage and impact and evaluate the work



Delivering benefits to patients in Dorset

Different value propositions

Cash Release

Capacity Release

Single point of navigation = aligned comms and marketing

New model of care with improved service integration

Change of workforce utilisation clinical to non clinical

Research generation for inward investment

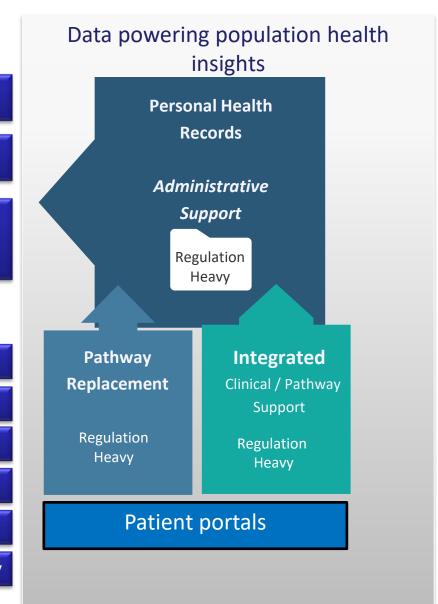
Better adherence to support planning

Accelerated access to services

Improved workforce maturity in digital and data literacy

orset

DIGITAL



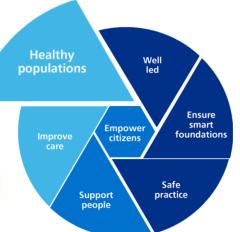


Data powers the population health insights for Planning / problem definition &

Evaluation and impact

How DiiS supports digital literacy





Financial approach



Inward investment from system both inside and outside sources e.g. LEP, ETTF, HSLI, LHCRE

Top slices from block contracts

Transformation funding e.g. Aging Well, Anticipatory care.

5% of growth funds now allocated to Digital

5% of overall system budget to be invested in digital





Questions?

