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Date: Thursday, 28 July 2016

Time: 9.30 am

Venue: Shrewsbury Room, Shirehall, Abbey Foregate, Shrewsbury, Shropshire, SY2 6ND

Contact: Karen Nixon, Committee Officer Tel: 01743 257720 Email: karen.nixon@shropshire.gov.uk

HEALTH AND WELLBEING BOARD

TO FOLLOW REPORT (S)

10 System Update (90 mins) (Pages 1 - 140)

Sustainability and Transformation Plan

Report to follow. Contact: Dave Evans T&W and Shropshire CCG

- Digital Road Map

Report attached. Steve James (Shropshire CCG) and Jon Duigenan (Shropshire Council).



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Health and Wellbeing Board 28th July 2016

SUSTAINABILITY AND TRANSFORMATION PLAN (STP)

Responsible Officer Email: David.Evans@nhs.net Tel: Fax:

1. Summary

The Sustainability and Transformation Plan (STP) for Shropshire and Telford and Wrekin is part of a national process to develop system-wide plans for the development of the NHS until 2020/21. STPs are intended to focus on developments that will address long-standing issues, improve patient care, and ensure financial sustainability. STPs will not be finalised until October this year and NHS England have advised that interim versions are not in the public domain.

The main issues in the Shropshire and Telford and Wrekin STP concern the development of acute services between Shrewsbury and Telford hospitals (Future Fit) and the development of the community and primary care services that will be needed to help relieve pressure on both general practice and the acute hospitals.

The presentation to the HWB will outline progress to date on these issues; highlight the further work which is now being undertaken; and report on the initial feedback on the Plan by NHS England

Recommendation 2.

The HWB is asked to note the progress that is being made and discuss the key issues that arise.

REPORT

3. Risk Assessment and Opportunities Appraisal A risk register for the STP is currently under development

4. Financial Implications

The intention of the STP is to ensure that the Shropshire health economy is financially sustainable within the national allocations that it receives

- 5. Background
- 6. Additional Information
- 7. Conclusions

List of Background Papers (This MUST be completed for all reports, but does not include items containing exempt or confidential information)

Cabinet Member (Portfolio Holder)

Local Member

Appendices

DRAFT SUSTAINABILITY AND TRANSFORMATION PLAN – SHROPSHIRE AND TELFORD & WREKIN

APPENDIX

DRAFT SUSTAINABILITY AND TRANSFORMATION PLAN – SHROPSHIRE AND TELFORD & WREKIN

JUNE 2016



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EXECUTIVE SUMMARY

We have a unified vision for our population to be the healthiest on the planet; to achieve this we will need to develop a transformed system of care that is high quality, financially sustainable, and efficient and delivers on national standards all the time. Central to this will be our ability to build resilience and social capital into people's environment so they have the knowledge and skills to help themselves to live healthier and happier lives.

The overall population within the footprint is approximately 470,000 people, but a number of outlying populations, most notably Powys, access services at providers within Shropshire. The population profile differs across the footprint with Shropshire characterized by a low density, isolated and more elderly population, and Telford and Wrekin more urban and with a lower proportion of households where residents are over 65 years of age.

The Shropshire Telford and Wrekin health and social care economy comprises 2 CCGs, four main NHS providers, 2 Councils and a range of smaller private and third sector providers; one of the providers, Robert Jones and Agnes Hunt NHS FT is a tertiary centre for Orthopaedic services.

Life expectancy rates overall have improved steadily in last decade across the footprint; however, rates in Telford & Wrekin remain significantly worse than average and those in Shropshire. Preventable lifestyle-related diseases associated with smoking, alcohol consumption, excess weight and physical inactivity make a significant contribution to the burden of ill health.

The causes of poor health are rooted within our communities and as such the solutions need to be communitybased. Enhancing the assets and skills of local people and organisations, we will captialise on the power of this rich source of social support to build individual and community resilience. We will support people to lead healthier lives and prevent ill health, and empower patients to adopt and promote self-care in order to reduce the demand and dependency on our public services.

The Call to action Consultation process in 2013 set out the clear Case for Change for the reconfiguration of hospital services. The Future Fit clinical model which provided a wider model than just hospital provision then emerged in 2014; as a whole system plan, developed through whole system engagement, the scope of the report is much wider than acute and community hospital reconfiguration. It describes and demonstrates critical interdependencies across the whole economy and points firmly to the need to begin the process of transformational change now. Only by doing this will the reconfiguration of hospital services be successful.

The Future Fit clinical and design principles have been the basis of developing and setting out the three main areas of health care delivery:

- Acute and episodic care;
- Planned care.
- Long term conditions and or frailty

The Strategic Outline Case demonstrates that there are potential solutions which are in line with the Future Fit Clinical Model. This proposed model will need to be supported by integrated health and care services and a networked Rural Urgent Care Service.

Having established the case for whole system transformation, and having agreed that that we need to build social capital around neighbourhoods, we have agreed a number fundamental programmes of work that need to take place during the life of the STP; these are not exclusive as other work will carry on in a business as usual way, but these programmes represent where we intend to put extra-ordinary effort for extra-ordinary gain and are as follows:

STP

Shropshire and Telford & Wrekin Draft Sustainability and Transformation Plan

- We will progress a radical upgrade in the prevention and self-care agenda, building resilient communities around neighbourhoods and drawing on the social capital that exists in communities. This work will be driven by 3 Neighbourhoods Transformation Groups and will draw on the work already started through the Community Fit Transformation Programme.
- As part of the Neighbourhoods work we will support the development of Community Services and the Primary Care offer for patients, founded on the place based concept of care. This offer will be consistent in terms of outcomes and standards, whilst accepting the place based nature may need different delivery models to suit local need. This work will address the range and location of Community and Primary Care services and offer solutions to organisational form that flow from the new models of care.
- The Strategic Outline Case for Acute Hospital services will now move on to Outline Business Case stage and Senate Stage 2 Review over the 2016 summer; there is a clear critical path set out in this plan and agreed within the health and care community.
- We have agreed to commence a review of the range and location of orthopaedic services commissioned throughout the footprint; currently provided on 3 sites, and at a level beyond comparator peer groups, we need to ensure services provided are appropriate, delivered to consistent outcomes and provide value for money for the taxpayer; this review will also address whether having 2 general acute sites and a specialist orthopaedic site is the right configuration. Draft Terms of Reference for this work have been developed.
- We have an agreed Deficit Reduction Plan which addresses the system wide health deficit of £140.5m by 2020/21; an agreed list of actions to close this gap is included in the plan. All partners agree that we need to work with Social Care colleagues to close the wider Health and Social Care; this work is ongoing and all partners are committed to agreeing a plan by September 2016.

The transformation journey has already started in Shropshire, and Telford and Wrekin through the Future Fit and Community Fit Programmes; we are building on that work with the governance and supporting programme infrastructure we are putting in place. We have a Partnership Board comprising Chief Officers of all the health and social care partners. The Operational Group comprises of Executive leads from all partners, along with patient representation and LMC membership. We have established four main transformation groups, with six supporting enabler groups, each with a Chief Executive Sponsor and Executive lead. We have an agreed supporting programme structure that all partners have agreed to resource and which will be put in place by September 2016.



1. INTRODUCTION

VISION AND OBJECTIVES FOR THE STP

VISION

- 1.1 We have a unified vision for our population to be the healthiest on the planet. To achieve this goal we need to have the safest acute provision, independence into older age for the majority of our population and integrated delivery models; we need to develop shared learning and enviable reputations as employers of choice with a unity of purpose being seen and acted out across our health and care sectors.
- 1.2 We will embed social care and wellbeing into all health delivery and work with our population to establish social capital to improve public engagement and accountability, with wellness replacing a sickness paradigm.
- 1.3 Integrated technology and data moving freely across our system will support a placed-based delivery model, backed up by a one public estate philosophy which maximises the use of public assets to the full.
- 1.4 Our deficit reduction plan will track the transformational process and the changes necessary to support the investment shift into prevention, maintenance, early detection and treatment; this will allow a shrinking of secondary care provision.

OBJECTIVES

- To build resilience and social capital into people's environment so they have the knowledge and skills to help themselves to live healthier and happier lives enabled by current and emerging digital technologies.
- To develop a model of coordinated and integrated care across the NHS, Social Care and the Voluntary Sector that reduces duplication and places the patient and service user at the centre. We intend to achieve this by connecting Health and Care systems ensuring that data flow freely to those who need to see it.
- To work as one Health and Care system to deliver for patients and citizens and develop a single shared view of the place-based needs of the population using advanced business intelligence capabilities.
- To develop a sustainable workforce that is fit for purpose, is supported by modern technology, and can deliver evidence-based care in new ways that suit user's lifestyles and where they live.
- To develop a transformed system of care that is high quality, financially sustainable, efficient and delivers on national standards all the time.
- To use evidence from around the world to develop excellence in care and pioneering services through the use of high quality research and use of new technologies.

WHAT THE STP IS INTENDED TO DO

1.5 The transformation journey has already started in Shropshire, and Telford and Wrekin. The Future Fit Programme and Community Fit Programme established broad agreement that, in order to create a better future for the NHS, all those with a stake in health and care must make changes to how we live, how we access care, and how care is delivered. For health and social care to meet the needs of future



patients in a sustainable way, we need to close the gaps in health, finance and quality of care between where we are now and where we need to be in 2020/21.

1.6 The opportunity to develop the STP is particularly timely for us because it will enable us to continue the work we have done on the Future Fit Programme without replacing any of the plans already developed. However, the Future Fit Clinical Design Workstream Models of Care report it was stated that:

"The clinicians also strongly emphasise three additional challenges, beyond hospital services, that should be addressed; the need to integrate health and social care and resolve the funding anomalies between them, the absolute requirement to create community capacity to manage the shift in care closer to home and the need for local communities and society as a whole to tackle the prevention and wellbeing agenda."

- 1.7 These three challenges have become the focus of the STP which starts from the premise that we need to look at the health of our population from a different perspective than the traditional hospital based perspective; this means we need to:
 - Help our population to develop healthy lifestyles so they do not need to access services in the first place
 - Build community assets and social capital so communities have the resilience to support themselves in a healthier and socially sustainable way
 - Develop primary and community services around localities of interest which support the social capital model of care and prevent admission to more acute services
 - Develop a model of secondary and specialist care that meets patient needs and only sees those people who really need their services after primary and community interventions have proved insufficient
 - Adopt the principle that "home is best" and create a system that supports people through the health and care system, before and after their care, so they can remain in their place of residence as long as possible

Given these challenges work has commenced on the wider Neighbourhoods programme which will develop models of community and primary care services further with clinicians, service users and the public, and provide the balance across the system that clinicians and the public have told us is needed. Achieving this will be dependent on having the right digital infrastructure in place, delivered through our digital roadmap programme.

- 1.8 It is however important to state that much of the work that is done across the footprint will carry on, and become business as usual; the STP will not negate all the good work that takes place in the many areas of joint planning, and which will continue. For example, there has been a lot of excellent joint working across Shropshire Telford and Wrekin through the Better Care Fund; this will continue and develop further as part of a planned approach to integrated working and financial planning.
- 1.9 The Better Care Fund will continue to sit within a unique whole system transformation plan in which there will be fundamental redesign of the health and care landscape over the next five years and beyond. The Better Care Fund will reinforce the underlying interdependence of all the local transformation schemes and will form a key work stream within our local Sustainability and Transformation Plan as it develops in the early part of 2016. The two Health and Wellbeing Boards are the vehicles through which the local health and care economy will ensure alignment of these transformation schemes across the local footprint.

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SHROPSHIRE TELFORD AND WREKIN POPULATION

- 1.10 Shropshire Clinical Commissioning Group (CCG) covers a large geography with issues of physical isolation and low population density within a mix of rural and urban aging populations. Shropshire is a large rural county with a population of approximately 308,000 which is set to rise to 320,600 by 2020. The graph at <u>Appendix 1</u> shows the trend in population growth and change in population profile.
- 1.11 Telford & Wrekin CCG has a large, younger urban population within areas of rurality. Telford is ranked amongst the 30% of most deprived populations in England. The population is approximately 170,000 and due to grow to 180,000 by 2020; the percentage of people who are aged over 85 is set to increase by 130%. Telford and Wrekin has a higher proportion of households with dependent children than the national average and a lower proportion of households where all residents are aged over 65. The graph at <u>Appendix 1</u> shows the trend in population growth and change in population profile.

SHROPSHIRE AND TELFORD AND WREKIN HEALTH AND SOCIAL CARE ECONOMY

- 1.12 The Shropshire, and Telford and Wrekin health and social care economy comprises of 2 CCGs, 4 main NHS providers, 2 Councils and a range of smaller private and third sector providers; one of the providers, Roberts Jones and Agnes Hunt NHS FT is a national centre for Orthopaedic services. More detail on the footprint organisations can be found at <u>Appendix 2</u>.
- 1.13 The overall population within the footprint is approximately 470,000 people, but a number of outlying populations, most notably Powys, access services at providers within Shropshire; whilst Powys is not officially part of the STP footprint, we believe it is important to include the Powys population in the STP planning considerations and for the community to be represented on the Partnership Board.

CASE FOR CHANGE

- 1.14 In November 2013 the system undertook a major consultation exercise with the public and clinicians under the national Call to Action for the NHS. The response was very clear in saying that the public wanted full engagement in thinking through options for the future and that nothing should be predetermined. Nevertheless, in the light of the factors described above, there was real consensus between public and clinicians about the following:
 - An acceptance of there being a case for making significant change;
 - A belief that this should be clinically-led and with extensive public involvement;
 - A belief that there were real opportunities to better support people in managing their own health and to provide more excellent care in the community and at home;
 - An agreement that hospitals are currently misused. This is not deliberate but as a result of poor design of the overall system and the lack of well understood and properly resourced alternatives. We also know that around 20% of consultations in primary care are for a non-health need.
 - A belief that it is possible to design a new pattern of services that can offer excellence in meeting the distinctive and particular needs of the rural and urban populations of this geography but if we are to succeed we must avoid being constrained by history, habit and politics.



1.15 The Call to Action consultation also highlighted many challenges faced by the service and these are set out below:

CHANGES IN OUR POPULATION PROFILE

1.16 The welcome improvement in the life expectancy of older people is particularly pronounced in Shropshire where the population over 65 has increased by 25% in just 10 years. The pattern of demand for services has shifted with greater need for services that support frailer people, often with multiple long-term conditions.

CHANGING PATTERNS OF ILLNESS

1.17 Long-term conditions are on the rise due to changing lifestyles; this means we need to move the emphasis away from services that support short-term, episodic illness and infections towards services that support earlier interventions to improve health and deliver sustained continuing support, again in the community. Our plans for the use of Big Data set out in the Digital Roadmap will help us to achieve this challenge.

HIGHER EXPECTATIONS

1.18 Quite rightly, the population demands the highest quality of care and also a greater convenience of care, designed around the realities of their daily lives. For both reasons, there is a push towards 7-day provision or extended hours of some services and both of these require a redesign given the inevitability of resource constraints. Achieving this will also require us to improve our sharing of clinical data across systems to ensure that there is no inequality of treatment across time zones.

CLINICAL STANDARDS AND DEVELOPMENTS IN MEDICAL TECHNOLOGY

1.19 Specialisation in medical and other clinical training has brought significant advances as medical technology and capability have increased but it also brings challenges, not least in rising costs.

CLINICAL AND FINANCIAL SUSTAINABILITY

1.20 The changing patterns of population and the increasing costs of ever improving medical technology mean that without changing the basic pattern of services then costs will rapidly outstrip available resources.

The reduction in funding to adult social care in particular is impacting across our system.

Close working with the private, independent and voluntary sector has shown that they too are feeling under pressure.

MEDICAL WORKFORCE CHALLENGES

1.21 There are challenges emerging across numerous sectors of the clinical workforce. Recruitment and rostering of acute physicians and critical care staff across multiple sites is increasingly difficult and is now having a detrimental effect on recruitment; this issue is dealt with in more detail in section 3. Equally the recruitment of GPs, and the retirement profile of the more senior GPs, is making the future staffing of primary care services more problematic; add to this the high workload, and the popularity of



General Practice as a career is reducing to a point where alternative models of care delivery need to be explored.

GOVERNANCE AND LEADERSHIP OF THE PROGRAMME

1.22 Having already embarked on the Future Fit programme, the Shropshire, and Telford and Wrekin Community has been able to build on existing governance arrangements. Whilst the initial focus of Future Fit was on acute and community hospital services, the STP programme is now addressing the wider issues in the system and the governance arrangements have been adapted accordingly. The detailed Governance arrangements can be found at Appendix 3.

The system recognises the tension between Accountable Officer responsibility to Partner Boards and the need to work collectively through the STP; the Partnership Board will provide the support to Chief Officers to manage this and deliver system leadership for the programme.

- 1.23 There are four main workstreams which will lead the planning and implementation of the transformation agenda; each has a Chief Executive Sponsor and Executive lead:
- 1.24 Acute Services Workstream This will take over the responsibilities of the Future Fit programme and continue the development of acute service transformation; this will include the upcoming work on option appraisal, business case development, consultation and implementation of preferred option.
- 1.25 This group will also undertake the work to establish the correct acute provider landscape moving forward; there are 3 main hospital sites in Shropshire, and Telford and Wrekin and the Partnership Board has approved a proposal that the acute site landscape should be included in the remit of the STP. This work will assess whether having 2 general acute sites and a specialist orthopaedic site is the right configuration; a draft Terms of Reference have been developed which will be reviewed by the Partnership Board in July 2016
- 1.26 Neighbourhoods Workstreams x3 We are clear that, in order to properly develop integrated, placebased services, we need to plan around neighbourhoods and build on the work already in train to develop a neighbourhood approach and develop social capital. These groups will take the work already started under the Community Fit Programme and integrate this into the wider place-based approach for community and primary care service delivery. We have 3 Neighbourhoods Workstreams for Telford and Wrekin, Shropshire, and Powys. Similar to the Acute Services Workstream, the Partnership Board has agreed that the provider landscape for community services will be part of the STP and the organisational form will emerge from the Neighbourhoods models that develop.
- 1.27 We have also established six Enabler Workstreams, each with a Chief Executive Sponsor and Executive lead.
 - Communications /Citizens Panel Membership of the group will comprise specialists as well as Healthwatch and patient representatives. The group will empower all stakeholder leadership as the heart of the Programme, ensuring the creation and delivery of a compelling vision for excellent and sustainable acute, community and primary care services. Shropshire, and Telford and Wrekin has a good record of engagement and this will continue through the reformed arrangements. Attached at <u>Appendices 4 and 5</u> respectively are the draft Communications and Engagement Partnership Agreement and the Terms of Reference for the Communications and Engagement PMO which will manage the agenda and which are currently going through the approvals process.

STP

Shropshire and Telford & Wrekin Draft Sustainability and Transformation Plan

- Estates and Transport This workstream will lead the review of estate under the "One Public Estate" principle, building on an already existing group working to this principle. This will include assessing options to realign services and support across Police, Health, Care, Fire and Rescue and the 3rd Sector and look at how we can support the change in public relationship with health and social care by the developing new models of public ownership of assets and adjust the rural offer to communities.
- **Clinical Reference Group** There is already a Clinical Reference Group (CRG) supporting the Future Fit Programme and this will continue as the STP widens the scope of the Transformation Agenda. The CRG plays a vital role in testing the underlying assumptions, modelling and analysis, and the methodology of service design. It will also take a lead in Quality Impact Assessments of the models of care that evolve through the work of the STP.
- Finance and Governance The Finance and Governance Group will ensure a coordinated approach to the Deficit Reduction Plan across Health and Social Care, and test the costing methodology of any developments emerging from the planning phase. The group will also provide a check on governance processes for the overall programme.
- Workforce We already have a Workforce Group in place which is addressing the issues across the systems. There will need to be significant changes to the health and care workforce if we are to meet the challenges set out in the STP and the Workforce Group will be fundamental in supporting the development of the new roles, integration and retraining of the workforce. The summary of <u>Appendix 6</u> outlines the approach being taken.
- **IM&T** We have a countywide IM&T Workstream Chaired by a CCG Clinical Lead; this group has led the work on the Digital Roadmap submission and is using the STP to underpin its work plan moving forward. There are a number of initiatives highlighted in the STP which have been submitted by this workstream and which show the increasing consistency of what the STP and Digital Roadmap seek to deliver.

Each of the 4 main Transformation workstreams and 6 enabler workstreams will establish full programme implementation plans, delivery outcomes and programme milestones by September 2016.

- 1.28 It has been acknowledged by the system leaders that the transformational journey needed over the next 5 years will require significant leadership, resilience and joint working, more so than in previous years; to that end a system Compact has been developed and is detailed at <u>Appendix 7</u>. It has also been agreed that we need to work to a single Production Methodology to increase convergence of working behaviours and enhance integration; two organisations are already working with the LEAN methodology with the Virginia Mason Institute and this is the proposed model for the STP Programme; sections 2 and 3 give examples of pilot programmes where this methodology will be tested, before full deployment during the implementation phase of the STP after September 2016
- 1.29 Capacity to support the transformation journey has been agreed and contributions from all the main stakeholders has ensured the infrastructure at <u>Appendix 3</u> is fully funded and is currently being put in place.



2. IMPROVING THE HEALTH AND WELL-BEING OF THE PEOPLE OF SHROPSHIRE, TELFORD AND WREKIN

CAUSES OF ILL-HEALTH IN SHROPSHIRE AND TELFORD & WREKIN

- 2.1 We know from our Business Intelligence systems that the main causes of ill-health across the Shropshire, and Telford and Wrekin footprint are similar to many areas; of particular note are:
 - Life expectancy rates overall have improved steadily in last decade across the footprint. However, rates in Telford & Wrekin remain significantly worse than average and worse then those in Shropshire
 - Preventable lifestyle-related diseases associated with smoking, alcohol consumption, excess weight and physical inactivity make a significant contribution to the burden of ill health. 60% of early deaths under 75 years (circa 640 deaths per year) are due to preventable cardiovascular diseases, cancers and respiratory diseases. Early death and survival rates for cancer in Telford & Wrekin are still worse than average
 - It is estimated that mental health, dementia and musculoskeletal conditions account for 26% of the overall total burden of ill health
 - A higher than average proportion of adults smoke in Telford & Wrekin, 20.7% (circa 32,000 smokers) compared to 15.3% in Shropshire (circa 38,088 smokers). Smoking-related deaths and hospital admissions are especially high in Telford & Wrekin as it maternal smoking (21.18%). Whereas in Shropshire levels of smoking in pregnancy are now similar to the national average at 12.5%
 - An alarming majority of adults carry excess weight, 71.9% in Telford & Wrekin and 65.2% in Shropshire, which equates to an estimated total of 256,000 adults across the footprint who are at higher risk of cardiovascular diseases and certain cancers due to their excess weight
 - Breastfeeding rates in Telford & Wrekin are low and excess weight in children aged 10-11 years olds is significantly worse than the England average at 36.21%, compared to 29.92% in Shropshire and 33.24% in England.
 - Levels of adults are who are physically inactive, 28.1% in Telford & Wrekin and in Shropshire 24% compared to 27.7% nationally, needs to be improved as it is estimated that almost half of type 2 diabetes cases can be attributed to obesity
 - Around a quarter of adults, circa 92,000 people across the footprint are higher or increasing risk drinkers and in Telford & Wrekin alcohol-related death rates and hospital admissions are significantly worse than average, specifically for alcohol- related cardiovascular diseases and cancers. In Shropshire the rate of alcohol related road traffic accidents is significantly higher than the national average.
 - Levels of diabetes have increased rapidly across the footprint in the past decade with the recorded prevalence doubling between 2004/05 and 2014/15 (from 3.5% up to 6.6%). On top of the 24,690 people with diagnosed diabetes, it is estimated that a further 47,000 people are at risk of developing diabetes in our population due to their excess weight, dietary habits and lack of physical activity.



• High blood pressure is a significant risk factor for chronic health conditions and 71,750 people in Shropshire, and Telford and Wrekin are currently diagnosed and recorded in primary care as having hypertension. However, a significant number of people (circa 57,000) have potentially harmful high blood pressure and have not yet been diagnosed.

PREVENTION AND WELLNESS

- 2.2 Our view is of health as a broad concept an overall sense of physical, mental and social wellbeing, rather than merely being free from disease, illness or disability. To close the health and wellbeing gap we will focus on actions to improve the health of people in our area across three key priorities identified by our Health & Wellbeing Strategies to improve healthy life expectancy and narrow inequalities.
- 2.3 To do this we will continue to use and develop advanced data analytics with our public health colleagues to manage current and to identify future demand at patient level where early intervention can result in better health and wellbeing.
- 2.4 The causes of poor health are rooted within our communities and as such the solutions need to be community-based. Enhancing the assets and skills of local people and organisations, we will capitalise on the power of this rich source of social support to build individual and community resilience. We will support people to lead healthier lives, prevent ill health and empower patients enabled by technology to adopt and promote self-care in order to reduce the demand and dependency on our public services.
- 2.5 As our population ages it is becoming more usual for us to live with more than one health issue or comorbidity at the same time, but people can live well with chronic conditions and we need to widely promote the view that it is never too late to prevent or delay complications and for those conditions that are preventable we need to focus on activities that prevent our citizens developing them

STRENGTHENING COMMUNITIES AND DEVELOPING SOCIAL CAPITAL

- 2.6 All organisations agree that community-centred approaches are a vital part of the prevention agenda as well as the transformation of health and social care. Work on the integration agenda across the patch, which further develops learning from the Better Care Fund, clearly acknowledges building community resilience as a golden thread. Residents support this change - the local Be Healthy, Safe and Independent Survey found that "being involved" was important to people having positive lives including volunteering in groups such as church, charities and community projects. The Place Based Health Commission Report, commissioned by the New Local Government Network entitled "Get Well Soon -Reimagining Place Based Health" sets out much about the relationships between institutions that need to be built, and about ways in which services could be knitted together more effectively for people who need them most. It suggests that, if we are to deliver our "radical upgrade" in prevention, we need to share the future of the health and care system beyond the borders of our current service silos. It further stresses that "if we are really serious about reorienting our health and care model around the grain of people's lives, assets and ambitions, then we need to take it seriously as a starting point for reform". We will be able to draw on the learning in this report as we develop our place based approach to service planning and delivery.
- 2.7 To change the dynamic, to strengthen communities and develop social capital we will focus on:
 - Strengthening communities by taking action on the causes of poor health



- Supporting volunteer and peer roles
- Enabling collaboration and partnership in planning of services between communities and statutory organisations
- Connecting individuals and families to community resources

To achieve the change we will:

- Identify local leaders who can champion change
- Consider 'social isolation' and how communities can help to address it
- Map all the existing assets to celebrate the diversity and identify gaps
- Fund prototypes to kick start the movement, illustrating what can be achieved
- Develop a workforce to help us get to know our communities
- Invest in digital technologies to connect communities and enable change.
- 2.8 In Telford and Wrekin, Neighbourhood Care Teams will support people with identified long term health conditions to live their life to their full potential in their community. The virtual teams will be formed from professionals from different organisations such as GP practices, community nursing teams, hospital outreach teams, third sector organisations, carers and local authority teams enabled by our shared care record programme set out in our Digital Roadmap. The Neighbourhood Care Teams will be grouped around natural communities and GP practices and will promote self-care and self-management.
- 2.9 In Shropshire the Resilient Communities movement encompassing Community Enablement Teams and working with Community and Care Co-ordinators will take a similar approach, wrapping around GP practices and working within communities and third sector partners developing social action, social value and asset based approaches to meeting need.
- 2.10 Local examples where this approach is already working includes:
 - Locality working integration prototype in South Telford, a multi-disciplinary team of professionals around the Stirchley Medical Practice (SMP), is changing the way statutory services interact with vulnerable people, building on individual strengths, assets and community.
 - Shropshire's nationally recognised Community & Care Co-ordinators (C&CC) scheme embeds a C&CC within GP practices to speedily identify and support those patients deemed to be at risk of loss of independence and hospital admission. They work collaboratively between the practice, voluntary sector and community groups, the local authority and volunteers. This has resulted in a 48% reduction in GP consultations, a 33% reduction on A&E attendances and a 58% reduction in unscheduled hospital admissions.

IMPROVING HEALTHIER LIFESTYLES AND REDUCING RISK

2.11 Lifestyle patterns are complex and often interlinked and a combination of unhealthy lifestyle choices increases people's risk exponentially. It is estimated that middle aged people with a combination of unhealthy lifestyles are 4 times more likely to die in their next decade than those leading healthier lifestyles.



- 2.12 Both health and wellbeing strategies highlight improving health lifestyles and prevention as key priorities. Shropshire Council and Telford & Wrekin Council ensure that high quality, accessible lifestyle and prevention services and programmes are in place as part of their local authority public health duties, through the Telford & Wrekin Council Healthy Lifestyles Offer and Shropshire's Help2Change Programme. The local authorities also ensure the provision of recovery treatment services for substance misuse.
- 2.13 Local examples where our approaches are already working include:
 - Maternal public health partnership in Telford & Wrekin where public health and children's services teams, midwives and health visitors have been working together to improve infant health outcomes
 - Shropshire's Diabetes Exemplar project taking a whole systems approach to reducing the
 incidence of type 2 diabetes by focusing on reducing the risk of individuals with impaired glucose
 intolerance becoming diabetic. Supported by the Local Government Association and Design Council
 this approach uses ethnographic data to plan and develop suitable interventions across the system

WHAT MORE NEEDS TO BE DONE TO TACKLE KEY CAUSES?

- 2.14 Unhealthy lifestyle behaviours remain a local challenge despite the provision of high quality local health improvement services. Trends indicate that health professionals do not systematically give lifestyle advice or signpost and refer into prevention services in a comprehensive way which exacerbates our local health inequalities. Whole system approaches, which are applied systematically and at scale, are needed to reduce the key risk factors which cause the greatest burden of ill health in our population.
- 2.15 Primary prevention aims to delay or prevent the onset of clinical conditions. Where conditions do develop, secondary prevention approaches need be adopted to minimise the impact on health and wellbeing and support independence. Such approaches often rely on the early identification of a clinical need followed by timely access to appropriate care. For example we know that circa 80% of NHS diabetes spending on goes on managing complications, most of which could be prevented in the first place.
- 2.16 As previously mentioned, the prevalence of key risk factors such as diabetes and hypertension is increasing over time, in part due to the growing numbers of people who are overweight and harmful alcohol consumption. Right Care intelligence also indicates that the management of people with diagnosed cardiovascular disease still needs to be systematically improved across all GP practices of the patients diagnosed with hypertension, circa 16% (11,500 people) do not have their high blood pressure controlled appropriately. With respect to patients with diabetes, circa 42% (10,400 people) do not have their blood pressure, blood sugar and cholesterol level risk factors treated to target. High quality primary care is crucial for improving outcomes in CVD because the majority of prevention and most diagnoses and treatment are delivered in General Practice.
- 2.17 As part of our commitment to radically upgrade prevention we will:
 - Guarantee the systematic delivery of lifestyle advice, signposting and referral into lifestyle services by all healthcare professionals, approach, across primary and secondary care so it happens consistently and appropriately at every patient contact, through the following:
 - Adopting the Making Every Contact Count (MECC) approach comprehensively
 - Expanding the delivery of brief interventions in the NHS

STP

Shropshire and Telford & Wrekin Draft Sustainability and Transformation Plan

- Embedding healthy lifestyle advice from Health Trainers into hospital settings
- Developing Health Champion volunteers from the community
- Exploiting the use of 'prescribed Apps' to help support track and motivate patients in achieving their health and wellbeing goals.
- Systematically upgrade the role of the NHS in tackling harmful alcohol consumption by healthcare professionals in primary and community care and acute hospital settings to ensure identification and delivery of brief advice and referral into treatment services as appropriate, including through:
 - Routine alcohol consumption screening for all A&E attendees
 - Redefining the role of the Alcohol Liaison Nursing Service
 - Expanding identification and brief advice delivered in primary care
- Tackle the obesity epidemic using a whole-systems approach through the Health & Wellbeing Boards, across various local authority teams, the NHS, partners and wider organisations, including the following:
 - CCG commissioning of tier 3 clinically-led weight management services to complement the transfer of responsibility for tier 4 services for severe and complex obesity surgery
 - Improvement in the systematic identification and appropriate referral of adults and children with excess weight by primary and secondary care into appropriate weight management pathways
 - Capitalising on the opportunity to benefit from the support available from the GP Clinical Physical Activity Champions
- Deliver the expectations of the national Cancer Strategy for England, given Right Care intelligence on local cancer risk factors and outcomes, specifically the following elements:
 - Delivery of comprehensive, whole-system prevention plans to reduce cancer risk factors e.g. action tobacco control, including adopting a completely smoke-free policy at Shrewsbury & Telford Hospital NHS Trust to protect patients, visitors and staff from the impacts of second hand smoke and encourage further smokers to quit
 - Ensuring earlier diagnosis and prompt treatment through symptom awareness raising with the public and in primary care and focussed action to improve the uptake of breast, cervical and bowel cancer screening.
- Systematically improve the prevention, detection, treatment and management of hypertension and diabetes, including primary and secondary prevention elements such as:
 - Delivery of the diabetes prevention programme approach to identify and manage people at high risk of developing diabetes
 - Improving the uptake of vascular risk assessment through NHS Health Check
 - Reducing unwarranted variation across GP practice performance will contribute to reducing health inequalities.
 - Redesigning the diabetes integrated service and treatment pathways
 - Implementation of a detection and management of risk factors for stroke schemes
 - Improving seasonal 'flu immunisation for people in at risk clinical groups, as well as those 75 years of age



IMPROVING MENTAL WELLBEING AND MENTAL HEALTH IN TELFORD & WREKIN

- 2.18 Common mental health disorders are higher than average in Telford and Wrekin and people with serious mental illness have poorer life expectancies, and tend to have more unhealthy lifestyles.
- 2.19 Improving emotional health and wellbeing broadly is seen as critical, and our mental health strategies commit to: improve community wellbeing, develop emotional resilience, identify people at risk earlier and improve the quality of life and physical health of those with mental illness. Local insight and intelligence from the public, patients and carers is shaping our approach.
- 2.20 There is clear recognition that developing supportive communities "*a place I am proud to call home*" will promote independence and resilience ensuring that people have the capacity to cope with the challenges that life, including mental health, can pose. This vision is that people are supported to live as independently as possible within their families and communities, with minimal intervention.
- 2.21 Local insight indicates that early intervention "*I know where to go for advice*" will support people who are in need at the earliest opportunity to prevent further escalation.
- 2.22 For mental health services, people with mental health problems have told us "I need to understand my condition and to have help to live my life to the best of my ability without my condition taking over my life".

IMPROVING MENTAL WELLBEING AND MENTAL HEALTH IN SHROPSHIRE

- 2.23 Shropshire has engaged in a system wide mental health needs assessment to inform a new 5 year Mental Health Strategy and action plan. The needs assessment is taking a partnership approach to building a detailed profile of current need in the county and will be completed in the coming months. The outcome of the needs assessment will inform the priorities of the strategy and action plan and inform how we build on current services or re-align provision.
- 2.24 Local examples from Shropshire, and Telford and Wrekin where a focus on prevention is already working includes:
 - Development of the 5 ways to wellbeing Telford public mental health movement to help people feel good, function well and have a positive experience of life by through key partners, blogging and social media networks
 - Shropshire's Dementia Early diagnosis programme
 - Collaborative local commissioning between both councils and both CCGs for a holistic emotional health and wellbeing service for children and young people aged 0-25 years
- 2.25 We will improve mental health and wellbeing across the footprint in these priority areas specifically by:
 - Promoting good emotional health and wellbeing by supporting the development of universal services
 - Supporting people to live as independently as possible, with minimal intervention
 - Promoting independence and resilience to ensure people have the capacity to cope with the challenges that life, including mental health, can pose
 - Ensuring information will be readily available at places, and in formats that are accessible when



people need it most

- Taking a whole system approach to commissioning mental health services where recovery is the expected outcome and service users are empowered to contribute to their community
- Ensuring people better understand how to work with people with mental health issues in ways that promote their independence, ensure their safety and support their recovery.
- Focussing of mental health support on need rather than age or diagnosis, especially dual diagnosis and personality disorder

3. DEVELOPING SERVICES AROUND NEIGHBOURHOODS

3.1 We have agreed that we need to develop services around neighbourhoods and we have structured the governance of the STP to support this; this work is well advanced in some areas but needs a more systematic approach. Because of the previous Transformation work in progress through Community Fit, we are in a process of transition which will move this pre-existing programme into the three coordinated Neighbourhoods approach; this transition we will bring together the work described in Section 2 on prevention, self-care and social capital into a single Neighbourhood approach and create an integrated workstream for each of the three main Neighbourhood groups. The following sections describe the work on the Community Fit Programme to date, which will transition into the Neighbourhoods workstreams as outlined above.

BACKGROUND TO COMMUNITY FIT

- 3.2 The Community Fit Programme was borne out of the need to describe in detail how the Future Fit model (reconfiguration of acute and community bed based services) would function and enable the intended transfer of inpatient activity to be delivered within the community.
- 3.3 The aim of the Community Fit programme is to deliver a sustainable, community based, health and social care system focussed on prevention and continuity of care, delivered by integrated teams of clinicians, through bespoke local solutions utilising the unique locality asset base.
- 3.4 It is clear that in order to enable safe transition from the current care model, which is heavily inpatient based, all aspects of care will need to be covered to ensure that the reliance on inpatient beds is adequately met by community alternatives before the Future Fit model is fully implemented.

OUTPUTS FROM PHASE ONE OF COMMUNITY FIT

- 3.5 Phase one of Community Fit has just concluded in April 2016 and has successfully delivered the key enabling project as intended. We have modelled and described the types of service which will be required in the community to absorb the activity coming out of the acute trust and the other changes which will impact on the use of primary and community healthcare services such as demography, ageing population and increased demands on the primary care and community services.
- 3.6 Insights from phase one of Community Fit are now available and are providing a strong foundation for our ongoing planning as we describe the community response to both the demographic challenge and the shift of activity out of hospital as a consequence of Future Fit.

DRAFT



- 3.7 The list below summarises the outputs from phase one:
 - An agreed way of modelling activity in of social care, primary care, community healthcare, and mental health
 - An agreed taxonomy (classification) of care packages delivered by each of these sectors
 - An agreed estimate of the impact of demographic change on activity levels within these sectors
 - A linked health and social care dataset, identifying patients receiving care from two or more sectors and describing the care they receive
 - A description of the activity that the NHS Future Fit Programme models anticipate will move out of the acute setting and therefore may have an impact on primary care, community services, mental health and social care services.
 - An assessment of the potential voluntary and third sector services contribution to the broader programme and suggestions of mechanisms and approaches that might be employed to maximise this contribution.

COMMUNITY FIT ANALYSIS

- 3.8 The total cost of the analysed health and social care (H&SC) services incurred in 2014/15 was £408,147,156 which covered 210,859 service users. The highest costing 2% of service users cost £132,910,335 compared to the least costing 80% of service users who cost less than this at £77,218,916. This shows a large proportion of costs were incurred by a relatively small proportion of service users.
- 3.9 A large proportion of spend on Social Care Packages, Mental Health Contacts and Mental Health Inpatients were on Very High cost service users. There may be scope for efficiencies to be gained and for the quality of services to be improved by removing duplication between these two types of services.
- 3.10 A larger proportion of females receive Health and Social Care services, especially in the older age groups, this may be due to the female population having a longer life expectancy than males and as a result living as a single occupier. Living arrangement is not included in the dataset so this as a cause cannot be proved based on the analysis shown. Improving the life expectancy of males may delay the need for H&SC services in the female population.
- 3.11 Dementia, Atrial Fibrillation, Coronary Heart Disease, Chronic Kidney Disease, Diabetes and Stroke are more prevalent amongst the Very High Cost group. Co-morbidities are also more common amongst this group. This might suggest the basis for at least a component of a frailty register at practice level and in turn a focus for joint Health and Social Care case review.
- 3.12 Social Care service users are more likely to interact with Mental Health and Community services compared to other services. There may be scope to integrate services within these and to also identify potential future Social Care service users from within these services.
- 3.13 All health and social care providers have told us that their data quality has increased significantly since 14/15, the year on which the Community Fit phase one analysis has focussed. Added to this, we now



have the confidence of the GP Federation and they are willing to recommend to their members that they sign up to include data extracted from GP practices to give the fullest possible picture of community activity. We would therefore propose to re-run the data analysis piece including primary care and also CHC (Continuing Health Care) which, was previously omitted for expedience only, simultaneously with implementing the other activities planned under Community Fit phase 2.

3.14 Having gathered and linked data about patients' service usage, the Community Fit project explored the extent to which patients could be usefully classified in terms of service usage patterns into a relatively small number of groups. If possible, this might support the health and social care system to identify those areas where service integration or improved care coordination might be of particular benefit and support thinking about the nature of out-of-hospital package that might substitute for care packages currently supplied in acute hospital settings.

Cluster	Cluster Name	Cluster size (n)	Cluster size (%)	Average cost £)	Average Age	Average acute cost (£)	Average community cost (£)	Average mental health cost (£)	Average social care cost (£)		
Multi-se	Multi-sector patients										
11	Complex frail elderly	2,516	1.2%	18,913	76	5,071	2,186	1,873	9,315		
6	Complex needs - mainly managed in community	273	0.1%	32,606	73	5,217	19,185	444	7,430		
3	Long stay acute care	3,514	1.7%	13,360	70	11,860	1,027	85	288		
4	Younger adults with complex disabilities	234	0.1%	94,599	44	995	1,307	2,469	89,689		
2	Intensive / institutional mental healthcare	180	0.1%	51,672	57	2,728	741	42,714	5,230		
7	Young adults with simpler mental health needs	5,121	2.4%	3,420	50	1,028	53	1,787	431		
5	Well-maintained social care users	1,486	0.7%	13,040	61	548	305	148	11,863		
1	Discrete planned care with community follow-up	12,571	6.0%	2,815	62	2,588	191	2	14		
8	Community support-occasional acute input	7,940	3.8%	2,751	71	1,574	949	30	186		
9	Community & social care - occasional acute input	6,075	2.9%	5,728	74	2,288	965	468	1,713		
10	Simple investigations - physical health	20,041	9.5%	642	61	431	172	4	16		
12	Simple investigations - physical/mental health	3,775	1.8%	824	55	233	128	423	1		
Single-se	ctor patients										
13	Acute contact only	113,689	54.0%	931	50	931	-	-	-		
14	Community contact only	30,557	14.5%	267	60	-	267	-	-		
15	Mental Health contact only	270	0.1%	2,520	50	-	-	2,520	-		
16	Social Care contact only	2,237	1.1%	5,880	52	-	-	-	5,880		

3.15 In summary, 16 distinct clusters were found with the following characteristics:

- 3.16 As part of the analysis we looked at Primary Care usage, using a proxy of 3 practice data sets; whilst this is a small sample, the benefits have become apparent and we are now working with colleagues in Primary Care to extend the number of practices in the data set to produce a richer picture. We developed the modelling to project into the future, using Disability Free Life Expectancy (DFLE), which estimates lifetime free from a limiting persistent illness or disability. This is based upon a self-rated assessment of how health limits an individual's ability to carry out day-to-day activities. We used this measure to assess population health status over time and the effect this would have on the use of Primary Care and Community services under an optimistic, moderate and pessimistic scenario.
- 3.17 Our modelling suggests that if we successfully implement our plans for locality based programmes which prevented people from becoming ill and manage those with healthcare problems differently,

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characterised as 'dynamic equilibrium', a moderately optimistic scenario, there is potential over the next 5 years to achieve improved outcomes for our population and a balanced financial position. The charts below show the analysis data for the 3 GP practices and from Shropshire Community Trust data.

Impact of Demographic Change on Primary Care

	Practice A		Practice B			Practice C			
	Pessimistic	Moderate	Optimistic	Pessimistic	Moderate	Optimistic	Pessimistic	Moderate	Optimistic
Consultations	6.0%	-0.6%	-0.9%	8.4%	-0.9%	-1.2%	3.2%	-0.6%	-0.8%
by type									
GP Surgery	6.1%	-0.3%	-0.6%	8.2%	-0.2%	-0.4%	3.2%	-0.4%	-0.6%
Telephone & 3rd Party	5.4%	-4.7%	-7.1%	8.2%	-4.2%	-6.6%	2.8%	-3.9%	-5.8%
Home Visits	10.3%	0.0%	-0.2%	13.5%	-0.5%	-0.9%	8.8%	-0.5%	-0.7%
by staff type									
GP	5.7%	-0.2%	-0.4%	Data	not availa	able	3.1%	-0.5%	-0.7%
Nurse	5.9%	-0.2%	-0.4%				3.6%	-0.7%	-1.0%
Other	6.3%	-0.5%	-0.8%				3.1%	-0.4%	-0.6%

Impact of Demographic Change on Community Healthcare

		Health Ageing Scenarios 2019/20					
	Activity Baseline	Pessim	Pessimistic Moderate			Optimistic	
Community Nursing Contacts	265,354	294,166	28,812	251,684	-13,670	246,799	-18,555
Community Specialist Nursing Contacts	56,172	60,110	3,938	55,247	-925	54,914	-1,258
A&E and Outpatients Contacts	69,875	74,328	4,453	68,929	-946	68,593	-1,282
Therapy Contacts	38,694	40,850	2,156	38,516	-178	38,452	-242
Podiatry Contacts	46,293	50,623	4,330	45,107	-1,186	44,684	-1,609
Contacts Total	476,388	520,076	43,688	459,483	- 16, 905	453,442	-22,946
Intermediate Care Bed Days	42,752	47,772	5,020	40,210	-2,542	39,303	-3,449

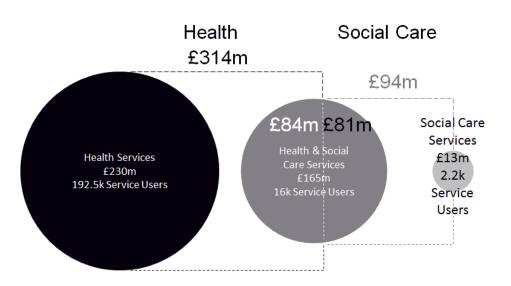
3.18 With regards to the table above, after accounting for the impacts of population growth and changing age structure, there could be between 44k more or 23k less contacts for the population, depending on



confidence in one of the 3 scenarios. In the same way the number of intermediate care bed days may rise by 5,000 or fall by 3,500.

This analysis requires further work and will form part of the neighbourhoods Workstreams going forward.

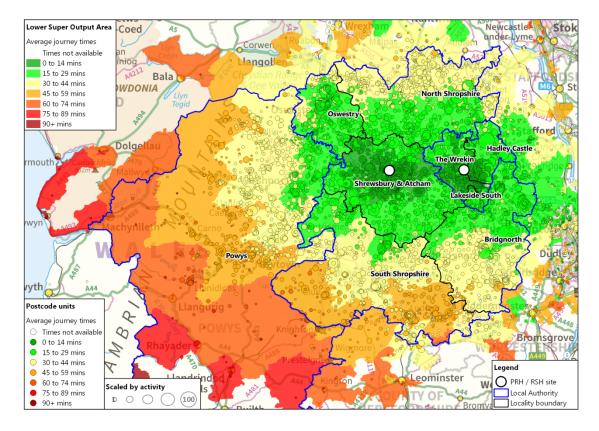
3.19 The diagram below shows that 91% of the matched population received Health services only and accounted for 56% of the costs compared to Health & Social Care Users who accounted for 8% of the matched population and 40% of the costs. The average cost of the Health and Social Care group was more than 5 times the average cost.





RURAL URGENT CARE

3.20 A network of rural urgent care centres were proposed as part of the Future Fit solution designed to offer a more accessible urgent care service across some of the more rural areas (see map below). Census data shows that there are significant minorities of people who do not own a car in the county. The Future Fit Rural Urgent Care Sub Group report (May 2016) suggested that alongside existing initiatives to improve urgent care pathways, there are opportunities to enhance the urgent care offer in rural communities in a way that has the potential to meet the requirements of the Future Fit clinical model and to be both clinically and financially viable. Consistent with the locality, place based approach, we are beginning work with health and care staff currently operating in a more rural areas to understand how they could work in a more integrated way, harnessing community capacity and mobilising local communities, to improve access to care in rural areas and begin to tackle prevention and wellbeing.



3.21 The map below shows current travel times for localities served by SaTH hospitals.

PRIMARY CARE- IMPLEMENTING THE GP FORWARD VIEW

3.22 Our system has historically benefitted from strong primary care which has enabled us to adapt to change, but some of our practices are beginning to feel the pressure; our approach will include investment to ensure primary care remains sustainable and at the heart of delivery. Our out of hospital care models will be based around the GP lists for local populations and this will support a shift of resource to enable out of hospital care to be a reality. We will also implement the menu of ten high impact actions for practices, to release capacity in GP practices and undertake demand and capacity work across our footprint to help develop resilient primary care. We will work with localities, the GP Federation and practices to identify the functions needed to provide holistic care across the spectrum.



We have started to identify the range of service providers, the wider support (Private, Independent and Voluntary sectors, carers, families) and IT solutions that will be needed to deliver these functions, and to enable the focusing of unique GP resource on patients with complex care needs. Our strategy to develop primary and community care at scale will support the development of a sustainable workforce that has the capacity, capability and culture to deliver out of hospital care. We are already working with some localities that are keen to explore new care models that suit their situation. The coproduction approach outlined below is beginning to see the emergence of distinct approaches and practice groupings that are keen to shape the delivery of health and care for their populations.

LOCALITY COPRODUCTION APPROACH

- 3.23 In order to develop the thinking, a coproduction approach has been adopted working with a full range of stakeholders including NHS Providers, Commissioners, Local Government officers and Politicians, Private Providers, Public, General Practice, Healthwatch. A Clinical Reference Group was held on 19 April which had 140 representatives from the clinical community and others; the workshop assessed the outputs from the Phase 1 analysis, agreed that there was a compelling data set which highlighted where we should focus our attention and agreed to a further workshop to develop the approach going forward.
- 3.24 At a June workshop of over 90 health and social care professionals from across Shrewsbury, Telford & Wrekin, there was an overwhelming endorsement for the proposed place based approach to be the main vehicle further developing the community response to our current challenges. The group fully accepted the community case for change and welcomed input from two Vanguard sites (Erewash and West Wakefield), who presented their learning and progress to the workshop.
- 3.25 The proposal that a locality co-production approach should be adopted was welcomed, as this would free up local health, voluntary sector and care leaders to work with their populations, capitalising on existing local assets. Following the commitment from senior health and care leaders to provide project and management resource to support the proposed locality based projects, we are now actively working up the detailed design with up to 4 localities; these include practices covering rural areas and larger urban groupings. Localities have registered interest in a range of potential delivery models which include close working with the acute trust, independent practice groupings and a potential social enterprise type model. Leaders are committed to support rapid development of these models so that a range of approaches can be tested to support wider roll-out, depending on locality support.

WORK TO DESCRIBE HIGH VOLUME CARE PATHWAYS

3.26 In parallel, work is well progressed on setting up pathway groups across the health and care economy to review and redesign a number of high volume care pathways from prevention through to end of life care. Led by a GP commissioner and supported by experts from the acute trust, social care, community trust and other expert input relevant to the pathway, these groups have been tasked with describing the full pathway and facilitating implementation across the county. There is a process in place to oversee both the pathway work and locality based service redesign to ensure consistency with the overall Neighbourhoods approach.



WHAT WE DO NEXT

3.27 The analysis in paragraphs 3.5 – 3.17 is a very high level summary of a much deeper analytical piece which provides an incredibly rich picture about patients and service users, and their use of health and social care services. Having agreement to use this analysis, and having agreement from the 2 workshops to move forward on a place based approach we will bring together the different strands from the previous Transformation work around Community Fit with all the other work around the Better Care Fund, prevention, self-care and social capital into unifying workstreams around Neighbourhoods.



4. DRIVING TRANSFORMATION FOR ACUTE SERVICES

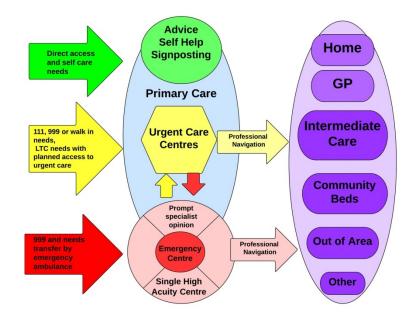
THE FUTURE FIT VISION

- 4.1 The Call to action Consultation process in 2013 set out the clear Case for Change for the reconfiguration of hospital services. The Future Fit clinical model which provided a wider model than just hospital provision then emerged in 2014. Three hundred clinicians and patients involved in the Clinical Design work stream agreed that high quality, safe, efficient and sustainable hospital services can only be delivered if the whole health and social care economy is functioning to the same high standards. There were also some specific challenges faced by Shrewsbury and Telford Hospitals NHS Trust in relation to workforce and the need to support rotas over 2 main acute site; solving these challenges is fundamental to securing the high quality, safe services that we need to deliver for our population and more detail is given in sections 3.10-3.15.
- 4.2 The Future Fit Clinical Model serves as an agreed common destination for all stakeholders. As a whole system plan, the scope of the report is much wider than acute and community hospital reconfiguration. It describes and demonstrates critical interdependencies across the whole economy and points firmly to the need to begin the process of transformational change now. Only by doing this will the reconfiguration of hospital services be successful.
- 4.3 The principles and changes in working practices proposed in the model reflect the requirement for a sustainable health and social care system, but balance that requirement with the need to empower patients, clinicians and communities. System wide design principles were agreed:
 - Targeted prevention and Wellbeing as the biggest single success factors
 - Home is normal with less bed based focus
 - Needs led, matching the correct level of care
 - Empowered patients, clinicians and communities
 - Sustainability: clinically, for our workforce and financially
 - Integrated Care with smooth transitions
 - Partnership Care with shared decision making redefine specialist and generalist roles
 - IT enabled
- 4.4 These clinical and design principles have been the basis of developing and setting out the three main areas of health care delivery:
 - Acute and episodic care;
 - Planned care.
 - Long term conditions and frailty
- 4.5 It also set out the importance of co-location of services across providers and particularly those of the acute sites and the community services in Shropshire. From an estates and cost efficiency perspective, transforming community services through the co-location of a community hub, ambulatory services, inpatient beds and urgent care centre is logical. From a patient perspective, care will be delivered in a way that makes the services feel coordinated and part of a community when visiting the community hub.



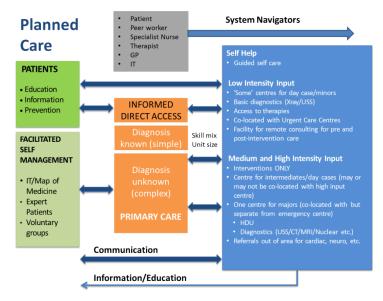
EMERGENCY AND URGENT CARE

- 4.6 The clinical model for acute and episodic care describes an urgent care network, within which one central emergency centre works closely with peripheral urgent care centres; two urban urgent care centres and a number of rural locations where urgent care is provided on a locality basis, the number and location to be defined. The recent Shropshire Rural Urgent Care Review, which includes prototyping a Rural Urgent Care Centre at one of the existing Community Hubs in Bridgnorth, is described elsewhere in this plan.
- 4.7 In addition there will be a single point of access acting as a portal to a wide range of onward services for health and care needs, as shown below:



PLANNED CARE

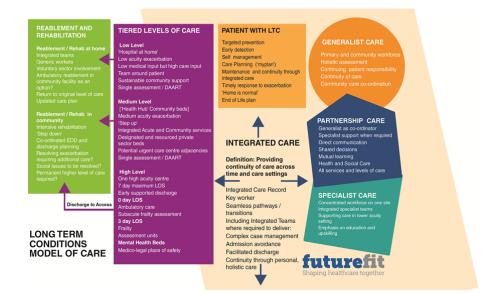
4.8 For planned care, one central diagnostics and treatment centre will provide around 80% of planned surgery whilst the majority of assessment, diagnosis and follow up will be performed closer to peoples' homes. How this will work is shown in the diagram below:





LONG TERM CONDITIONS MANAGEMENT

4.9 The care of people with long term conditions will be seamless, responsive and lifelong and is detailed in the following flow diagram:



Our model for the management of patients with Long Term Conditions is one which relies heavily on the use of technology.

We will:

- Use and develop our Business Intelligence capability to identify patients at risk or with an early diagnosis of a LTC
- Use our Integrated Care Record to ensure that there is a Care Co-ordination plan is place, accessible by all of those professionals will be involved in supporting the patient.
- Maximise the use of telehealth to enable remote monitoring of patients where appropriate and intervene when necessary.
- Maximise the use of telecare to support patients living more independently.
- Use technology to support Health Coaching and enabling patient to live as much a normal life as possible with their condition.
- Introduce the use of telecare/telemedicine where this is appropriate to do so to maximise clinical capacity.
- Provide through the development of Self-Management portals access to information, services and tools to support patients with the management of their condition.



ACUTE HOSPITAL SERVICES

- 4.10 Like all hospitals, the greatest asset of Shrewsbury and Telford NHS Trust (SaTH) is its workforce. However, the Trust does not have all the staff it needs in the right locations. The organisation is faced with difficulties in recruiting to essential medical and nursing clinical roles; within the Emergency Departments, Critical Care services and other areas across the Trust. This means a heavy reliance on temporary staff and increased pressure on teams. Continued and innovative solutions to address this recruitment challenge have been explored but all have failed to provide a sustainable solution and a long term solution is urgently needed.
- 4.11 The Trust does not currently meet staffing levels recommended by the College of Emergency Medicine across all medical roles including Consultant, Middle and Training grades. Research demonstrates a greater consultant presence in A&E reduces admissions, reduces inappropriate discharges, improves clinical outcomes and reduces risk to patients.
- 4.12 Critical Care is covered with a mix of general anaesthetists and the small number of intensivists available, but consultant presence is still well below recommended levels. The Trust is one of very few nationally that have not been able to split its Anaesthetics and Critical Care rotas. The Trust has continuously attempted to recruit additional Intensivists; however potential candidates consider the absence of formal split rotas and very onerous on-call arrangements deeply unattractive.

All West Midlands Emergency Departments	ED Consultant Hours per week (max 24x7 = 168)				per week			
Hospital Site	Number %							
Queen Elizabeth Hospital, Birmingham	119.0	70.8%						
University Hospital, Coventry	119.0	70.8%						
County Hospital, Stafford	117.3	69.8%						
City General Hospital, Stoke	112.0	66.7%						
New Cross Hospital, Wolverhampton	97.0	57.7%						
Birmingham Children's Hospital	92.9	55.3%						
Manor Hospital, Walsall	88.0	52.4%						
Good Hope Hospital	86.0	51.2%						
Heartlands Hospital, Birmingham	86.0	51.2%						
City Hospital, Birmingham	82.0	48.8%						
Sandwell General Hospital	82.0	48.8%						
Queen's Hospital, Burton	81.0	48.2%						
Worcestershire Royal Hospital	79.0	47.0%						
Russells Hall Hospital, Dudley	77.0	45.8%						
George Eliot Hospital, Nuneaton	70.0	41.7%						
Warwick Hospital	68.0	40.5%						
The County Hospital, Hereford	65.0	38.7%						
Alexandra Hospital, Redditch	60.0	35.7%						
Royal Shrewsbury Hospital	58.0	34.5%						
Princess Royal Hospital, Telford	49.0	29.2%						
Solihull Hospital	40.0	23.8%						
AVERAGE	82.3	49.0%						

4.13 In 2004, the Royal College of Physicians recommended that there should be a minimum of 3 acute physicians per hospital by 2008 with a minimum consultant staffing level for weekend rotas to deliver sustainability. The Trust does not meet the recommended staffing levels; this again limits the ability to provide the levels of senior review needed to ensure timely patient assessment and treatment, and move towards more 7 day working.



- 4.14 Duplication of services on both sites reduces the ability to support favourable on call rotas and it is difficult to support the development of advancing and extending practice for non-medical staff with the limited capacity of medical colleagues to mentor and support appropriately.
- 4.15 This need for a long lasting, sustainable solution has been addressed through the development of a Strategic Outline Case by the Acute Trust, in line with the aspirations of the Future Fit

STRATEGIC OUTLINE CASE

- 4.16 The Strategic Outline Case demonstrates that there are potential solutions which, in line with the Future Fit Clinical Model and the Options developed in partnership with clinicians, patients and the public, could address the Trust's workforce challenges in A&E, Critical Care and Acute Medicine by developing a single Emergency Centre, a single Critical Care Unit, a Diagnosis and Treatment Centre with local Urgent Care Centres and planned care services provided at both PRH and RSH. These solutions could also address the substantial 'backlog maintenance' of key elements of the estate at both PRH and RSH. This proposed model will need to be supported by integrated community services and a network of rural urgent care; this latter element is being developed under the Neighbourhoods Programme outlined in section 3.
- 4.17 The proposed solutions included within the SOC, identified from a range of potential delivery solutions, describe evenly balanced distribution of services across the RSH and PRH sites which would deliver recognisable, vibrant hospital sites 24/7 within the communities served; the options are:
 Option A: Provider and Commissioner Strategies implemented but no major service change

Option B: Emergency Centre at PRH Telford including colocation of Women and Children's

Option C1: Emergency Centre at RSH Shrewsbury including colocation of Women and Children's

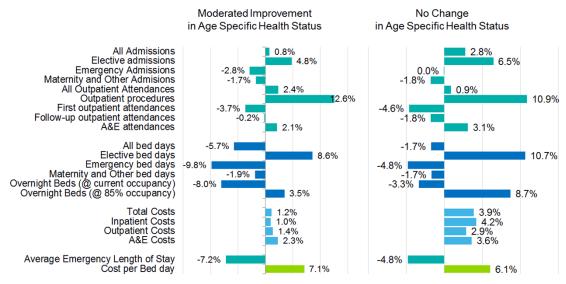
Option C2: Emergency centre at Shrewsbury; Women and Children's Centre retained at PRH Telford

ACTIVITY AND CAPACITY IMPLICATIONS

- 4.18 Phase 1 modelling estimated the levels of activity that the Trust and Shropshire Community Trust might be expected to manage in 2018/19 taking into account demographic change, a range of commissioner activity avoidance schemes and provider efficiency schemes. Aspects of demographic change were also considered and modelled.
- 4.19 A range of commissioner activity avoidance strategies was then analysed and considered based on the subsets of acute activity that commonly form the basis of commissioner Quality, Innovation, Productivity and Prevention (QIPP) plans. These included areas such as: Conditions amenable to ambulatory care; fall related admissions; Patients who left A&E without being treated; Obesity related admissions etc.
- 4.20 The provider efficiency strategies considered during the modelling utilised the Trust's and other acute providers Cost Improvement Plans (CIPs) in both elective care and urgent care. The aim being to reduce the bed usage for admitted patients or the resource impact of outpatient and A&E activity. This included areas such as: enhanced recovery; frail elderly step-down care; A&E number of investigations etc.



4.21 Figure 2 shows the headline changes in acute activity, resource use and costs between the baseline year 2012/13 and 2018/19, under the two demographic scenarios.



- 4.22 A further modelling phase built on the initial models to estimate the consequences of more radical redesign proposals generated by the three clinical redesign workstreams. The headline outputs are:
 - 69% of front door urgent care activity incorporating activity currently in a number of different services could be managed at an Urgent Care Centre, with the remaining 31% (circa 68,000 attendances) requiring care in the Emergency Department (ED)
 - 75% of the activity being managed by the Urgent Care Centres will take the form of minor injuries or ailments, 12% as Ambulatory Emergency Care, 8% as frailty management and 5% as others
 - Approximately 35,000 follow-up outpatient attendances managed by the local planned care centres could take place virtually by maximising the benefits of digital capability.
 - Of the 10,000 emergency admissions associated with either frailty or long term conditions in 2012/13, the phase 1 models suggested these admissions could fall by 8% by 2018/19 (largely as a consequence of improvements in primary care management and through better use of community services)
 - The Phase 2 model suggests that a further 24% could be avoided by reducing the prevalence of the key risk factors that give rise to Long Term Conditions (e.g. smoking, high cholesterol, high blood pressure) and through greater integration of community and primary care. Adopting technologies described in the digital roadmap we can target patient groups and provide the necessary health and well-being support/coaching.



FINANCIAL IMPACT

4.23 Initial financial analysis indicates the proposed solutions would be affordable, and approval to a Strategic Outline Case is awaited from NHSI, DH and HM Treasury. The table below outlines the financial summary of the options under consideration and demonstrates the affordability of the potential solution at both PRH and RSH to the Trust. Savings achieved as a direct result of implementing the potential solution is £15.585m in Option B at PRH and £10.190m in Option C at RSH.

	Option A Do Minimum	Option B PRH Emergency	Option C RSH Emergency
	£000	£000	£000
Capital Expenditure (Current Prices)		102,028	195,325
Remaining Backlog	103,400	90,100	87,000
Income and Expenditure			
Baseline Recurrent Position	(17,271)	(17,271)	(17,271)
Revenue Impact (reduction)/Increase			
Sustainability Fund	0	10,500	10,500
Demographic Growth	11,300	11,300	11,300
Activity Reductions	(9,600)	(9,600)	(9,600)
Repatriation	12,000	8,640	12,000
General Efficiencies	32,786	32,786	32,786
Inflation	(49,800)	(49,800)	(49,800)
Sustainable Services Case Revenue Savings and Costs			
Workforce Savings	(4,600)	21,389	21,302
Cost of Capital	0	(5,805)	(11,112)
Total Savings from Sustainable Services Case	(4,600)	15,585	10,190
Total Revenue Impact	(7,914)	19,411	17,376
Recurrent Income and Expenditure Position	(25,185)	2,140	105

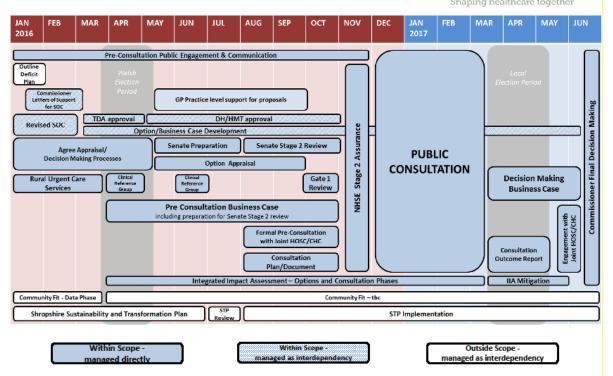


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TIMESCALES AND CRITICAL PATH

- 4.24 The high level critical path is set out below; the work to enable a public consultation in December 2016 is currently on track. Whilst challenging to deliver in this timescale, the programme has set out the work necessary to develop the vision and how the assumptions within the SOC for the shift to community services will be delivered.
- 4.25 The more comprehensive design of community solutions is underway with a clear Case for Change and a programme of work set out under the STP Neighbourhood work streams and is outlined in section 3.
- 4.26 The delivery solutions for the shortlisted options are due to be appraised in September 2016, leading to Stage 2 assurance processes and Public Consultation from December 2016. It is vital to remain true to this timescale because any delay would prevent consultation from commencing until after local elections in May 2017. The solutions would support the maintenance of two vibrant hospitals in a hotwarm model.

HIGH LEVEL CRITICAL PATH





5. HOW WE WILL CLOSE THE FINANCE AND EFFICIENCY GAP

BACKGROUND

- 5.1 The Shropshire Health Economy is currently under significant financial pressure. PWC were commissioned in January 2016 to support a Health Economy wide review of the financial position and the financial plans of the key health care organisations in the Health Economy. The scope of this work included a review of the system wide cost base and revenue assumptions over the next five years (up to 2020/21) to develop a system wide Profit & Loss (P&L) and network of spend, which will support the STP development. It was acknowledged that this review would seek to indicate the outline magnitude and scale of the financial challenge and, whilst this was not a precise reconciliation, it would be the base from which to onward plan and model the recovery actions being worked up through the STP programme.
- 5.2 The review has been based on the two commissioners' five year plans submitted to NHS England in March 2016 and provider 2016/17 financial plans plus on-going income and expenditure assumptions. The report covers the following NHS organisations:
 - Shropshire CCG
 - Telford and Wrekin CCG
 - Shrewsbury and Telford Hospitals NHS Trust
 - Robert Jones and Agnes Hunt NHS FT
 - Shropshire Community Health NHS Trust
 - NHSE Local Area Team
- 5.3 In addition the report also incorporates a financial view relating to:
 - Shropshire Council
 - Telford Council
- 5.4 To date the deficit reduction work has focused on rectifying the gap across the health sector; however, the STP Partnership Board has agreed that it is essential for the future sustainability of the health and care system to adopt a collective solution to the social care deficit as well. Paragraph 5.5 onwards, sets out the proposals to close the financial gap in the health sector. Work will continue over the coming months to find a solution the wider health and social care financial deficit.

RESULTANT ACTION PLAN AND PROGRESS TO DATE - METHODOLOGY

- 5.5 In establishing a financial plan for the Shropshire Health Economy, the community has committed to ensuring that each of the predominant health bodies operating within the system are, through the actions taken, able to record by the year 2020/21 a balanced financial position. In making this commitment the system also recognises the need to respond appropriately to the challenges also being experienced by local authority colleagues and will do so in ultimately finalising its plans for the years 2016/17 2020/21.
- 5.6 The scale of financial challenge is significant. Collectively the two clinical commissioning groups responsible for commissioning healthcare for the populations of Telford and Wrekin and Shropshire enter the 2016/17 financial year with a sizeable financial deficit amounting to circa £36.5 million. Provider organisations within the community similarly take into the planning period a structural



financial position that will require important decisions to be made to ensure that the provision of services can be sustainable into the future. The size of structural deficit within providers is calculated as amounting to £21.5 million.

- 5.7 Over the period 2016/17 to 2020/21 the collective level of resource available to commission healthcare is planned to increase by £119 million, such that by the year 2020/21 the level of resource available amounts to £884 million. Contained within this, exists a dedicated sum amounting to £33 million available to support the health economy in delivering its transformation plans. Despite receiving this level of increase the combination of demographic growth and inflationary pressures across commissioning spending results in a shortfall that will need to be recovered through new, more efficient ways of working. The level of shortfall is estimated to amount to £16.7 million.
- 5.8 Collectively the three provider organisations identified within the Shropshire system and transformation footprint, The Shrewsbury and Telford Hospital NHS Trust, Robert Jones and Agnes Hunt Foundation Trust and Shropshire Community Trust estimate increased pay and non-pay costs will introduce a further £65.8 million cost pressure over the years 2016/17 to 2020/21
- 5.9 Accordingly the need to address the opening structural financial problems and spending growth in response to inflation and demography, sets a recurrent financial challenge for the health system amounting to £140.5 million.

	Commissioners	Providers	Total
	£millions	£millions	£millions
Structural deficit	36.5	21.5	58.0
Inflation / Demographic cost pressures	16.7	65.8	82.5
	53.2	87.3	140.5

5.10 In responding to this scale of financial challenge provider organisations have committed to delivering internal efficiencies within their respective organisations equivalent to 2% per annum. Delivering this level of savings generates cost reduction amounting to £53.7 million. In addition to these internal efficiencies, the Carter Review highlights further cost reductions, particularly in respect of Agency premiums of medical and nursing staff, improved workforce management and benefits from greater consolidation of back office functions. These are estimated to introduce additional cost savings amounting to £8.8 million.



5.11 Beyond activities associated with internal efficiencies, the local health system has identified a series of important transformational activities that if delivered to the scale identified in the table below, are expected to restore the financial balance of the health economy. These transformational activities are summarised in the table below

	£millions
Repatriation of Income	12.0
Rebasing of Orthopaedic spending – as per Right Care benchmarking	4.5
Community service reconfiguration	6.0
Reconfiguration of hospital services	22.0
Rationalisation of Acute services	3.0
Consolidation of provider organisations	1.0
Utilisation of Transformation funds	10.5
Other – transferred to Health bodies outside of STP	9.0
Total Transformation savings	68.0

- **Repatriation of Income** The two local commissioners are presently commissioning activity from NHS provider bodies operating outside of the local health economy. A detailed review is being undertaken to determine the opportunity to re-establish such spending locally. It is estimated that doing so would generate a financial benefit to the health system of £12.0 million.
- **Rebasing orthopaedic spending** The Right Care benchmarking programme has identified that Shropshire County CCG is an outlier in respect of spending in relation to orthopaedic services. Commissioning at levels consistent with benchmarked CCG's reduces spending by £4.5 million.
- **Community service reconfiguration** providers and commissioners within the health and social care system are presently working to develop new integrated pathways of care structured around definable neighbourhoods. It is expected that these new models of care will lead to cost reduction of circa £6 million per annum.
- Rationalisation of Acute services Secondary and Tertiary care services are presently provided within the health system through three hospital facilities located in Shrewsbury, Telford and Oswestry. A programme of work has commenced to determine the level of savings possible though a rationalisation of the services provided on these three sites. It is estimated that this can be expected to generate savings amounting to £3 5 million per year.
- **Consolidation of provider organisations** Three provider organisations and two clinical commissioning groups presently exist within the Shrewsbury and Telford heath system. In taking forward the transformation programme it is intended to review opportunity to consolidate these various organisations.
- **Reconfiguration of hospital services** In response to significant operational service challenges, The Shrewsbury and Telford Hospital NHS Trust has developed a case for reconfiguring the delivery of its hospital services between the existing Shrewsbury and Telford hospital sites. The intention being to establish a Hot and Warm secondary care clinical model. In order to take forward this reconfiguration, the change requires the availability of £300 million capital resource. Consolidation of clinical services is expected to generate cost savings amounting to £22 million as a consequence of reduced levels of service duplication, revised working practices and improved efficiency in the utilisation of the facilities.
- Utilisation of Transformation Funds The financial plan for the health system has been set to enable the provider organisations and commissioners to deliver a financial surplus consistent with Business Rules. The level of Transformation Funds required amounts to £6.5 million.



5.12 The financial position for the health economy can then be summarised as follows:

	Commissioners	Providers	Total
	£millions	£millions	£millions
Structural deficit	36.5	21.5	58.0
Inflation / Demography cost pressures	16.7	65.8	82.5
Local Health system deficit	53.2	87.3	140.5
Specialised Services Efficiency Programme	(17.0)		(17.0)
Provider Trust efficiency programme		(53.7)	(53.7)
Carter Review savings		(8.8)	(8.8)
Transformation savings required	36.2	24.8	61.0
Transformation savings	(40.9)	(27.1)	(68.0)
Health economy surplus	4.7	2.3	7.0

RISK PROFILE OF THE DEFICIT REDUCTION PLAN

- 5.13 In order for the Local Health system to deliver the financial recovery plan by 2020/21 collective recurrent savings/ funds amounting to £147.5 million need to be realised. To test the strength of the recovery plan a risk profile has been undertaken. The risk profile categories savings/ funding into three groupings:
 - Red programme area under developed
 - Amber programme area requires further development confidence in delivery strong
 - Green programme area well developed confidence in delivery high

The risk profile is summarised in the table below:

	Red	Amber	Green	Total
	£million's	£million's	£million's	£million's
Specialised services savings programme	17.0			17.0
Provider Trust efficiency savings	20.7	8.0	25.0	53.7
Carter Review savings		1.0	7.8	8.8
Repatriation of Activity	4.0	4.0	4.0	12.0
Rebasing of orthopaedic services		4.5		4.5
Community services Integration	4.0	2.0		6.0
Reconfiguration of hospital services		2.0	20.0	22.0
Rationalisation of Acute services		3.0		3.0
Consolidation of provider / Commissioner			1.0	1.0
organisations				
Utilisation of Transformation funds			10.5	10.5
Other – transferred to Health bodies outside of STP			9.0	9.0
Total	45.7	33.5	77.3	147.5
	31%	27%	52%	

5.14 The risk profile illustrates that whilst the Local Health system programme has made considerable progress in developing its financial recovery plan, further more detailed work still needs to be completed, particularly in respect of the :



- Specialised services programme
- Provider Trust efficiency savings especially over the period 2018/19 2020/21
- Repatriation of activity opportunities; and
- Savings capable of being realised through Integration of Community services.

USE OF TRANSFORMATION FUNDS

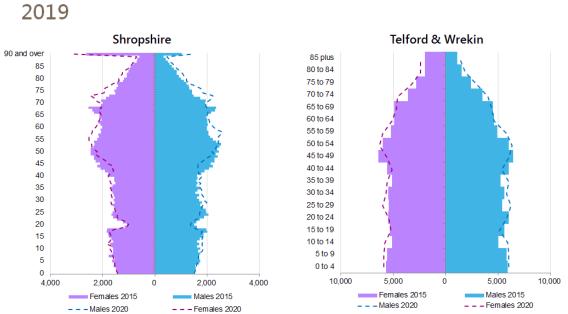
- 5.15 By 2020/21 the Local health Economy will receive recurrent Transformation Funds amounting to £33 million. Over the years 2016/17 2020/21 these Transformation Funds will be released progressively and the Local Health System Plan intends to use these funds on a non-recurrent basis to underpin the transformation changes.
- 5.16 The recurrent use of the funds however is still to be determined. This financial plan presently assumes that £6.5 million of this sum is used to enable the Local Health Economy to achieve a surplus position. The residual £26.5 million is then intended to be used to take forward:
 - Extended GP access
 - Recommendations contained within the Mental Health Taskforce, Cancer Taskforce strategy, National Maternity Review
 - Increasing Child and Adolescent Mental Health service capacity,
 - Delivery of seven day urgent and emergency care in hospitals,
 - Investment in Prevention programmes, particularly childhood obesity and diabetes care,
 - Implementing paperless technology.
 - Supporting Local Authority Adult and Children service cost pressures.



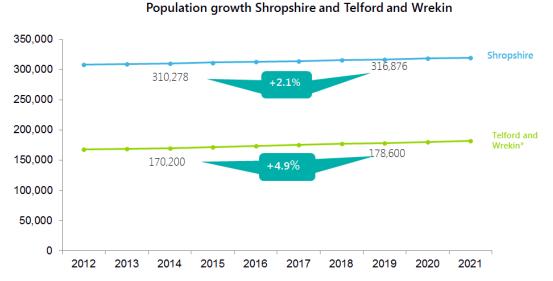
APPENDICES

APPENDIX 1

POPULATION GROWTH AND PROFILE CHANGES SHROPSHIRE, TELFORD & WREKIN



Change in population age/gender profile: 2014 to 2019



* Telford & Wrekin population projections have been adjusted locally to account for major residential build plans. Shropshire projections are taken directly from ONS published figures



APPENDIX 2

SHROPSHIRE AND TELFORD AND WREKIN HEALTH AND SOCIAL CARE ECONOMY

South Staffordshire and Shropshire Healthcare NHS Foundation Trust provide adult and older people's mental health services in the county. Multidisciplinary and multi-agency teams work in partnership with local councils and closely with the voluntary sector, and independent and private organisations to promote the independence, rehabilitation, social inclusion and recovery of people with a mental illness. Facilities include the Redwoods Centre in Shrewsbury which opened in 2012 and provides 80 adult mental health beds for Shropshire, Telford and Wrekin and Powys and 23 low secure beds for the West Midlands and the provision of a memory clinic in support of Dementia services.

The Shrewsbury and Telford Hospital NHS Trust (SaTH) is the main provider of district general hospital services for half a million people living in Shropshire, Telford and Wrekin and mid Wales. Services are delivered from two main acute sites: Royal Shrewsbury Hospital (RSH) in Shrewsbury and the Princess Royal Hospital (PRH) in Telford. Both hospitals provide a wide range of acute hospital services including accident and emergency, outpatients, diagnostics, inpatient medical care and critical care. Total bed capacity across the two hospitals is 700.

The Robert Jones and Agnes Hunt Orthopaedic Hospital NHS Foundation Trust (RJAH) is a leading orthopaedic centre of excellence. The Trust provides a comprehensive range of musculoskeletal surgical, medical and rehabilitation services; locally, regionally and nationally from a single site hospital based in Oswestry, Shropshire and close to the border with Wales. As such, the Trust serves the people of England and Wales, as well as acting as a national healthcare provider. It also hosts some local services which support the communities in and around Oswestry.

Shropshire Community Health NHS Trust provides community health services to people across Shropshire in their own homes, local clinics, health centres and GP surgeries. These services include Minor Injury Units, community nursing, health visiting, school nursing, podiatry, physiotherapy, occupational therapy, and support to patients with diabetes, respiratory conditions and other long-term health problems. In addition, it provides a range of children's services, including specialist child and adolescent mental health services. Shropshire's four community hospitals have a total of 97 beds with an additional 27 independent sector step down beds.

There are 44 GP practices in Shropshire and 18 in Telford and Wrekin, and local practices have recently formed a GP Federation. There are Walk in Centres co-located with the Royal Shrewsbury Hospital site and the Princess Royal Hospital site in order to manage emergency demand and flow into the hospital.

Shropshire Doctors Co-operative Ltd (Shropdoc) provides urgent medical services for patients when their own surgery is closed and whose needs cannot safely wait until the surgery is next open, i.e. evenings, weekends and bank holidays. It provides out of hour's primary care services to 600,000 patients in Shropshire, Telford and Wrekin and Powys. Shropdoc also provides home visits and the flagging of high risk end of life and COPD patients.

West Midlands Ambulance Service (Foundation Trust) serves a population of 5.36 million people covering an area of more than 5,000 square miles made up of Shropshire, Herefordshire, Worcestershire, Staffordshire, Warwickshire, Coventry, Birmingham and Black Country conurbation.

The Shropshire Local Pharmaceutical Committee is the representative statutory body for all Community Pharmacy contractors in the county of Shropshire.



People 2 People (P2P) is a not-for-profit independent social work practice working with Shropshire Council to provide adult social care support to older people and those with disabilities. P2P is a community interest company with an independent board of directors, which includes individuals who use the service. The aim of P2P is to offer a different way of supporting individuals to keep their independence for as long as possible. This means helping people to plan how their independence can be improved.

Shropshire Partners in Care (SPIC) is a not-for-profit company registered as a company limited by guarantee representing independent providers of care to the adults of Shropshire and Telford & Wrekin. Shropshire Partners in Care's purpose is to support the development of a high quality social care sector in the areas of Shropshire and Telford & Wrekin. SPIC works in partnership with local authorities, health and the voluntary sector to support continuous improvement and development of adult social care focusing on local need. They provide information, support training and signposting to relevant services to everyone that contacts the office.

The Voluntary and Community Sector Assembly (VCSA) works to facilitate partnership between the VCSE sector and public sector. Representation work ensures that the VCS are represented on the groups led by the CCG, Shropshire Council and other partners. For example the VCS are represented on the Assistive Technology Steering Group, the Prevention Group, and Community Development Group. Members of the Voluntary and Community Sector Assembly include many of the large VCS organisations in Shropshire including Age UK, Shropshire RCC, and the Alzheimer's Society who deliver health and social care services in Shropshire.

Shropshire Clinical Commissioning Group and Telford and Wrekin Clinical Commissioning Group have coterminus boundaries with Shropshire Council and Telford and Wrekin Borough Council respectively. The CCGs are responsible for commissioning the following services:

- Community health services.
- GP out of hour's services.
- Ambulance services.
- Mental health services.
- Specialist health services for people with learning disabilities.
- Acute hospital services

Powys Health Board is responsible for healthcare commissioning and delivery for the Powys population; significant numbers of patients access care in Shropshire which means for planning purposes the Powys requirements need to be factored into the STP.

The two Councils are responsible for several key public service areas including:

- Community and living,
- Education and learning,
- Environment and planning,
- Housing,
- Leisure and culture
- Health and social care.
- Public Health
- Children's Services

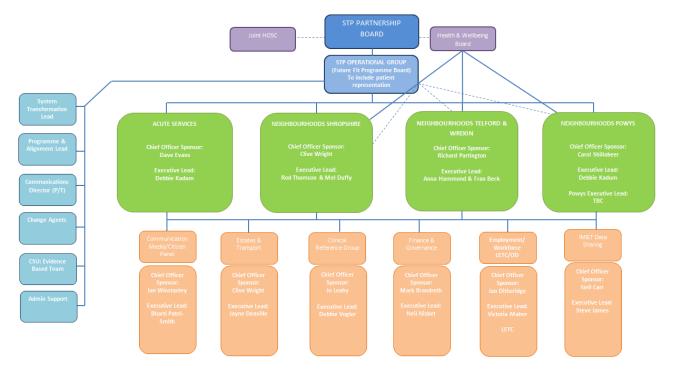


APPENDIX 3

SHROPSHIRE TELFORD AND WREKIN STP GOVERNANCE ARRANGEMENTS

The leadership body created to oversee the STP is the Partnership Board comprising Chief Officers of all partners; this is chaired by the named STP Chief Officer Simon Wright, Chief Executive of SaTH. This group is supported by the Operational Group chaired by the STP Programme Director and comprising Executives from all partner organisations as well as the two HealthWatch Chief Officers, clinical representation from the LMC, HWBB representation from the Directors of Public Health, and the STP Workstream leads. Both the Partnership Board and Operational Group meet fortnightly.

A diagram outlining the governance arrangements is shown below:



DRAFT - STP Governance Structure



APPENDIX 4

DRAFT

HEALTH AND SOCIAL CARE COMMUNICATIONS AND ENGAGEMENT IN SHROPSHIRE AND TELFORD & WREKIN

THE PARTNERSHIP AGREEMENT

A positive and collaborative approach to promoting positive communications about the local NHS and its partners, delivering practical solutions to support joint key health and social care priorities across the county and managing health and social care reputational issues.

BACKGROUND

It's a busy and diverse county with an even busier and diverse health agenda! The local population is the recipient of a vast amount of information about current health and social care services as well as proposals/consultation about potential changes to the local system. Amongst all this noise key messages to help patients navigate the NHS and enable them to take better care of themselves and their loved ones are being lost.

We have a fantastic opportunity through the existing network links of programmes to come together and communicate key health and social care messages and information. Our aim is that through our integrated approach and proactive campaigns our communities will gain guidance on how to better navigate the NHS, receive advice on self-help and learn more about all the amazing things the local health can social care are currently doing to help patients.

We also recognise that our communities want to know accurate and timely information about key developments and learn about how they can get involved or have their views heard.

This approach is in line with the Shropshire and Telford & Wrekin health and social care leadership partnership which has been created to help implement the county wide Sustainability and Transformation Plan. Following the example of our organisations' leaders we are bringing together the senior communications leads from all local health and social care organisations with a commitment to working collaboratively for the benefit of our local communities.

PURPOSE

Working to agreed high-level principles as set out in the county's Sustainability and Transformation Plan, the group will work collaboratively to promote positive and proactive communications about the local NHS, manage health and social care reputational issues and deliver practical communications solutions to support joint key health and social care priorities.

PRINCIPLES

- All the communications leads work together to deliver aligned communications' approaches and responses to build public confidence in health and social care services integrated communications promoting 'the overall system' outdoes any one single organisation.
- Communications leads come together and plan a county-wide approach to information activity to ensure that positive news regarding health and social care services across Shropshire and Telford & Wrekin is effectively present in what people read, hear and watch.



- Communications leads build relationships to generate mutual trust, enable effective joint working and provide appropriate support at times of significant reputational issues.
- Communication leads provide mutual support and pool resources as appropriate to ensure key
 reputational issues are managed as well as providing clear, accurate and consistent information for
 patients and our communities.

FUNCTION

The group will:

- develop an overarching health and social care communications strategy from the creation of the Shropshire and Telford & Wrekin STP, and take responsibility for delivery and evaluation. This will be signed off by every each organisation's Board or equivalent
- commit to participate in a weekly meeting (either conference call or a face to face) to drive forward joint communications plans and share information
- contribute to a monthly planner
- lead on specific areas of work on behalf of the group.

MEMBERSHIP

Membership will be the most senior communications lead for each organisation.

Core members		
NHS Commissioners	Shropshire CCG	
	Telford and Wrekin CCG	
NHS Providers	The Shrewsbury and Telford Hospital Trust	
Shropshire Community Health NHS Trust		
	West Midlands Ambulance Trust	
	Shropdoc	
	South Staffordshire and Shropshire Healthcare NHS Foundation Trust	
	Robert Jones and Agnes Hunt Orthopaedic Hospital NHS Foundation Trust	
	GP Federation	
Local Authority Telford & Wrekin Council		
	Shropshire Council	
NHS England	NHS England – Local Area Team	
Non-core members		
	Directors of the two Healthwatch	
	Chairs of the Health and Wellbeing Boards	
	Representatives from the Powys Community Health Council will be invited to the meetings	
	on an ad-hoc basis to provide expert patient representation when required.	
Communications collea	agues from the Powys Health Board, local Police, Fire and Rescue will be invited to attend as	
appropriate.		

FREQUENCY OF MEETINGS



Meetings will be a weekly conference call and a monthly face to face meeting.

CHAIR AND CO-ORDINATION ARRANGEMENTS

The group will have a rotating Chairperson who will take responsibility for co-ordinating and servicing meetings. The Chair will rotate on a six monthly basis.

RELATIONSHIPS AND REPORTING

A quarterly highlight report will be produced for the executive teams for each organisation represented.

REVIEW

Following approval, the Terms of Reference shall be reviewed on an annual basis.

Due for review: July 2017.



APPENDIX 5

DRAFT

PROCESS IN DELIVERING THE PMO FUNCTION FOR THE COMMUNICATIONS AND ENGAGEMENT PARTNERSHIP AGREEMENT

JUNE 2016

PMO FUNCTION

Underpinning reactive and proactive Engagement and Communications delivery will be the formation of Shropshire and Telford & Wrekin Communications and Engagement agreement hub that will provide PMO support to system partners:

- Organising and servicing meetings
- Maintain an action log
- Coordinating, and where, appropriate responding to system-wide issues
- Support collaboration and joint delivery of communications ensuring continued 'one voice' coherence and confidence-building.

ENGAGEMENT AND COMMUNICATIONS PMO PROTOCOL

INTRODUCTION

The Communications and Engagement hub exists to support all communications and engagement partners in organisations involved with the transformation work in Shropshire and Telford & Wrekin to share information and communicate with the broadest set of stakeholders in the county. The PMO will provide the following core functions across the system.

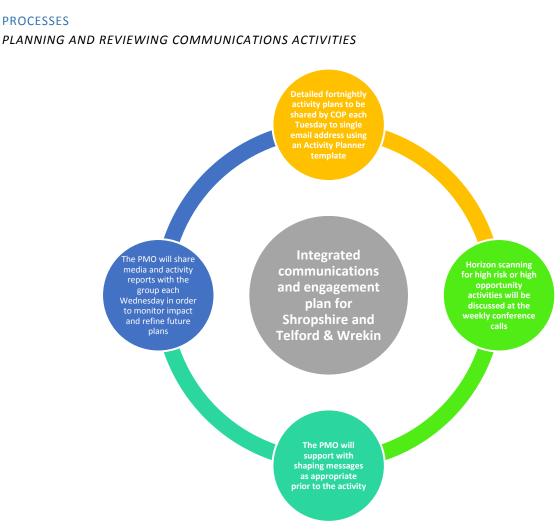
EFFECTIVE COLLABORATION

- A regular conference call of system communications and engagement leads will be serviced.
- Communications tools and contacts will be collated centrally and shared with the group, providing an overall picture of communications work and stakeholder contacts.
- A regular media summary will be produced and shared.
- A monthly forward planner will be produced and updates shared when needed.
- A single point of access will be provided for sharing information with the PMO and fellow colleagues.

MANAGING RISK AND SEIZING OPPORTUNITIES

- Partners' communications activities will be diarised and support will be provided to plan these in order to ensure continuity of message and collaboration of activities.
- Planned and reactive communications will be supported with message crafting so that the overall narrative can be promoted and strengthened.
- The PMO will make recommendations to changing project milestones where they might damage the integrity of our communications, or affect their preferred sequence.





REPORTING

The PMO will produce regular summary update on:

- A summary of media coverage.
- All key activities taking place for the week ahead including any stakeholder activities we know of.
- A sense of stakeholder disposition anyone key we need to worry about or satisfy.



APPENDIX 6

DRAFT

SHROPSHIRE AND TELFORD & WREKIN STP

WORKFORCE

To support the vision and objectives of the Sustainability and Transformation Plan (STP) workforce is a critical element of the plan as it will drive delivery and successful outcomes for our communities.

The workforce agenda is diverse and will encompass a wide range of actions to ensure structurally and culturally the vision is achieved.

Workforce in terms of demand, supply and skills is a collective challenge amongst providers the themes is very similar, in particular the demographic of the workforce that illustrates a large number of potential retirements over the next 5-10 years. This profile picture illustrates the need for workforce innovation and bravery.

The system vision 'healthiest half million people on the planet' is an ambitious one it will require a different workforce profile both in terms of roles but also working practices and behaviours.

The workforce plan will answer the question how we will be delivering care in ten years' time.

SYSTEM WORKFORCE PLANNING AND TRANSFORMATION

The models of care describe three key components

- Reconfigured hospital care
- Care closer to home through neighbourhood models
- Health prevention

To deliver a new model of care the current shape of the workforce will need to change. Further development of advanced and assistant roles will ensure sustainability across the system and support independent practice in rural areas. Roles will span staff groups including nursing, scientific, pharmacy, therapies, social work and radiology.

To provide care closer to our communities through the neighbourhood model, a more diverse role is required to support a range of interventions from one practitioner.

The skills required for these new roles will be based on the health needs of our population; meaning roles will be developed based on the skills and competences needed to deliver care not based on existing roles.

To support the prevention agenda it is envisaged that a more generic worker would be developed to support the scale of change required. This will be on scale and spread, workers will be able to provide advice and signpost into relative services that will support members of our communities to make informed decisions regarding their health and wellbeing.

The system has already begun to plan as one, using the frail and elder pathway supported by Skills for Health. This development of scenario workforce planning enables innovation and supports a strong patient focus.

CULTURAL DEVELOPMENT

Investment in culture is essential to achieve new ways of working, often forgotten cultural development will be a key focus of the workforce programme. Working to 'one system, one vision' a development plan will be





created to recognise the different organisational and staff group cultures to support agreed behaviours that will drive a unified culture through behaviours and expectations.

LEADERSHIP DEVELOPMENT

Working closely with the Leadership Academy a range of developments will be in place to support leaders to undertake crucial leadership roles across the system. This will include leading agendas outside of their employing organisation, involving wider partners in internal developments to ensure alignment and role modelling the leadership qualities needed to be a leader within the Shropshire and Telford & Wrekin STP. Development proposed to date includes coaching, place based leadership and system leadership.

Through the development of the system compact the commitments of senior leaders have been agreed this will now support all leaders to understand the psychological contract that we will all be entering.

EDUCATION

Through the Local Workforce Action Boards (LWABs) the system will create its educational plan; this plan will focus on enabling workforce transformation but also creating the right supply for the system labour market. Changes in bursaries provide a changing landscape that we require the system to influence and work with Higher Education Institutes (HEIs) to offer innovative health and social care courses to attract talent to the system.

Courses will be jointly developed to meet the system needs.

TALENT MANAGEMENT

The system will aim to develop a talent pool, learning and development offers will be from the system and for the system. For example advanced practice education will offer system placements and employment will be agreed on health and care priorities of the population.

System leaders are committed to working collaboratively to ensure our system is a great place to work and develops, attracts and retains talent.



APPENDIX 7

DRAFT STP LEADERS COMPACT

The overarching purpose of STP is to create a patient centered, sustainable system of health and social care. By implementing the STP we learn how to collaborate to deliver care to an ageing population with less overall resource.

We recognize the work that lies ahead will take discipline and a long-term commitment. In the end *Shropshire, Telford and Wrekin will be the healthiest population on the planet.*

We recognize achieving this vision will require unprecedented levels of trust, cooperation, collaboration, and working across traditional boundaries.

The purpose of our compact is to support this partnership way of working. The elements are:

GIVES -In our work together, we all agree to:

- Address hard issues ["lance boils"] in constructive ways
- Avoid defensive reactions listen to feedback
- Say what we need to say in the meetings not outside
- Keep our commitments to this group
- Think and work upstream; invite participation, don't hand others fully baked solutions
- Be transparent regarding data/finances
- When it comes to the money, align our behaviour so that all organisations have a positive bottom line within five years
- Share knowledge with each other
- Seek to understand the impact of decisions your organisation takes on others
- Demonstrate commitment to this work to our boards and staff. Inform them regularly using agreed-to talking points.
- Be disciplined about meeting start and stop time
- All take responsibility for successful meetings (not just the chair)

We expect to GET:

- Results including system surplus, 7 day/week care, the services our population needs delivered here
- Aligned outcomes
- Collective power and influence
- Robust meetings, constructive conversations
- Better decisions and greater confidence in our decisions
- More resilience and mutual support
- Trust that agreements we make to each other will be followed through
- Able to learn from failures or shortfalls and thereby accelerate progress

These outcomes should be indicators that our agreements are being lived and we are willing to modify our "gives" as necessary to make progress relative to these outcomes





Health and Wellbeing Board

Meeting Date 28th July 2016

LOCAL DIGITAL ROADMAP (LDR)

Responsible Officer

Email: nigel.crew@nhs.net

Tel: 01743 255700

1. Summary

The Five Year Forward View makes a commitment that by 2020 there will be "fully interoperable electronic health records so that patient's records are paperless". This was also supported by a Government commitment in Personalised Health and Care 2020 that "all patient and care records will be digital, interoperable and real-time by 2020".

2. Recommendations

The HWB is invited to note the progress made and comment on the LDR.

REPORT

3. Risk Assessment and Opportunities Appraisal

(NB This will include the following: Risk Management, Human Rights, Equalities, Community, Environmental consequences and other Consultation)

4. Financial Implications

5. Background

5.1 The first stage of the LDR process was the creation of a digital footprint for the local health and social care economy. The Shropshire and Telford footprint comprises:-

- Shropshire CCG (lead CCG)
- Telford and Wrekin CCG (support CCG)
- Shropshire Council
- Shropshire Health and Wellbeing Board
- Telford and Wrekin Council
- Telford and Wrekin Health and Wellbeing Board
- Shrewsbury and Telford Hospital NHS Trust
- Royal Jones and Agnes Hunt Orthopaedic Hospital NHS Trust
 Page 53

- Shropshire Community Health NHS Trust
- South Staffordshire and Shropshire Healthcare NHS Trust (SSSFT)
- Shropdoc
- Nursing homes SPIC
- Severn Hospice
- Hope House Children's Hospice

5.2 The submission required the production of an online Digital Maturity Index by our main providers. This set out to benchmark the level of local digital maturity across 14 prescribed areas. The output from this shows that our baseline is lower than the English average for everything apart from 'Remote and Assistive Care'. However, there is widespread variation between provider scores and a significant element of subjectivity in the scoring.

	Digital Maturity Assessment - Summary Scores							
Rank		National	Shrewsbury and	Shropshire	South Staffordshire	The Robert Jones &	Average	Variance
Ndlik		(Average)	Telford Hospital NHS	Community Health	and Shropshire	Agnes Hunt	Avelage	variatice
1	Remote & Assistive Care	32%	25%	0%	83%	63%	43%	11%
2	Information Governance	73%	50%	71%	83%	88%	73%	0%
3	Governance	74%	55%	80%	85%	70%	73%	-1%
4	Enabling Infrastructure	68%	52%	55%	75%	73%	64%	-4%
4	Records, Assessments & Plans	44%	42%	4%	73%	38%	39%	-5%
6	Strategic Alignment	76%	69%	65%	85%	50%	67%	-9%
7	Leadership	77%	75%	55%	90%	50%	68%	-10%
7	Asset & Resource Optimisation	42%	50%	10%	55%	15%	33%	-10%
9	Resourcing	66%	50%	55%	80%	40%	56%	-10%
9	Decision Support	36%	19%	0%	50%	36%	26%	-10%
11	Standards	41%	38%	17%	20%	29%	26%	-15%
12	Transfers Of Care	48%	32%	0%	43%	31%	27%	-22%
13	Medicines Management & Optimisation	30%	3%	1%	2%	10%	4%	-26%
14	Orders & Results Management	55%	51%	0%	13%	38%	26%	-30%
	Average	54%	44%	30%	60%	45%	45%	-10%

5.3 A large workshop was held on 9th June 2016, which was attended by representatives from the CCGs, Council, SaTH, Robert Jones, Community Trust, SSSFT, Shropdoc, hospices and WMAS. Outputs from this event fed into the Local Digital Roadmap, which was assembled with support from the CSU. This was submitted on 30th June 2016, having been approved by the STP.

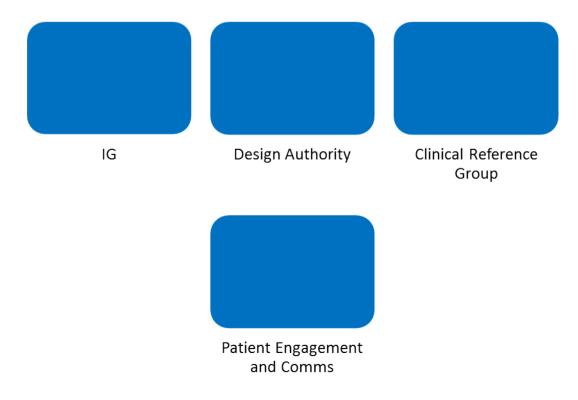
5.4 The LDR Vision is that by 2020 we aim to have:-

- An integrated care record across our economy (starting with end of life by March 2018).
- Patients as co-authors of their record. Contributing and interacting with their record, approving access, booking appointments, repeat prescriptions etc.
- Data Sharing agreements in place to enable our vision of a paperless NHS at the point of care. We expect agreements to be in place by Mar 2017.
- Universal capabilities significantly delivered by March 2018.
- Tele Health at scale 2016-2020.
- Collaboration locally and regionally standards, infrastructure, procurements, large projects like big data population health analytics.

5.5 Universal Capabilities

- Professionals across care settings can access GP-held information on GP-prescribed medications, patient allergies and adverse reactions
- Clinicians in U&EC settings can access key GP-held information for those patients previously identified by GPs as most likely to present (In U&EC)
- · Patients can access their GP record
- GPs can refer electronically to secondary care
- · GPs receive timely electronic discharge summaries from secondary care
- Social care receive timely electronic Assessment, Discharge and Withdrawal Notices from acute care
- Clinicians in unscheduled care settings can access child protection information with social care professionals notified accordingly
- Professionals across care settings aware of end-of-life preference information
- GPs and community pharmacists can utilise electronic prescriptions
- · Patients can book appointments and order repeat prescriptions from their GP

5.6 The LDR will be published as a public facing document in due course, but will remain a 'live' document over the project lifecycle. Four sub-groups of the Digital Strategy Group are being considered as we move towards implementation:-



6. Additional Information

Members of these organizations have formed a local Digital Strategy Group. This has become a sub-group of the STP Partnership Board, which now holds the governance for the group and has approved the Terms of Reference.

7. Conclusions

List of Background Papers (This MUST be completed for all reports, but does not include items containing exempt or confidential information)
Cabinet Member (Portfolio Holder)
Local Member
Appendices Shropshire Telford and Wrekin LDR Ver 2

Shropshire, Telford and Wrekin Health and Social Care

LOCAL DIGITAL ROADMAP

Enabling Digital Transformation

2016-2021

Final: Ver 2.0



This document updates a number of pre-existing IT strategies across Shropshire, Telford and Wrekin and incorporates new national requirements. This document will be continually updated over the 5-year period. Please check you have the latest version.

Shropshire and Telford & Wrekin

Local Digital Roadmap

VERSION CONTROL

Reference	Shropshire, Telford & Wrekin Health and Social Care Digital Roadmap
Version	Version 2.0
Status	Final Version
Title	Shropshire, Telford & Wrekin Health and Social Care Local Digital Roadmap
Authors	Dr Stephen James, John Uttley, Nigel Crew
Contributors	Nigel Appleton, Simon Adams, Andrew Crookes, Phil Collins,
Approval Date	28 June 2016
Approving Bodies	Shropshire Telford & Wrekin STP
Review Date	1 September 2016
Target audience	All Shropshire Health and Social Care providers including third sector Hospices Public domain
Circulation list	All Shropshire, Telford and Wrekin Health and Care providers, Third sector Hospices Public domain
Associated documents	Capability Deployment Schedule Capability Trajectory (secondary care)
Superseded documents	

Endorsement of the Digital Roadmap

This local digital Roadmap was supported by the STP group on the 28th June 2015

Executive Summary

LDR

Shropshire and Telford & Wrekin

Local Digital Roadmap

The Local Digital Roadmap (LDR) sets out the journey that Shropshire and Telford & Wrekin will progress along over the next five years to underpin the requirements of the Sustainability and Transformation Plan (STP).

In producing the LDR attention has been given to the expectations outlined in the <u>NHS Five</u> <u>year forward view</u> and <u>Personalised Health and Care 2020</u>.

The LDR takes a collaborative approach to delivery with all partners recognising that transformation cannot be achieved by working in isolation of one another and so informatics solutions have to be co-developed to meet the demands of patients and clinicians.

To be sustainable, we need to create improved capacity to deliver whilst improving the quality and safety of the care we deliver. It is widely accepted that this can only be achieved through adopting a capable infrastructure that connects clinicians as well as patients in a way that health and wellbeing becomes a joint responsibility.

This roadmap will present challenges to the local health economy, we are aware of these and with this awareness we can plan to overcome them. The commitment to deliver this roadmap is strong across all of the provider and commissioning organisations.

The table below shows the organisations who have come together to build this vision and plan.

Care Organisation Type

Organisations

Shropshire and Telford & Wrekin

Local Digital Roadmap

Primary Care	Shropshire CCG – 43 Practices Telford and Wrekin CCG – 18 Practices Covering a population of circa 480,000
Out of Hours	Shropdoc
Secondary Care	Shrewsbury and Telford Hospital Trust Robert Jones and Agnes Hunt Orthopaedic Hospital NHS FT
Community Care	Shropshire Community Health NHS Trust
Mental Health	South Staffordshire and Shropshire Healthcare NHS FT
Local Authorities	Shropshire Council Telford and Wrekin Council
Third Sector	Shropshire Partners in Care (SPIC) Severn Hospice Hope House Children's Hospice
Emergency Care	West Midlands Ambulance Service

This roadmap has been developed not just to underpin our local Sustainability and Transformation plan but also to underpin the four areas which Simon Stevens sets out that the NHS& Social Care need to address:

- 1. Improve local partnerships with integration across systems.
- 2. Patients in control of their health.
- 3. Use technology to improve patient health, experience and access.
- 4. Seek radical enhancements to public health to change our system from reactive to proactive prevention.

LDR

Shropshire and Telford & Wrekin

Local Digital Roadmap

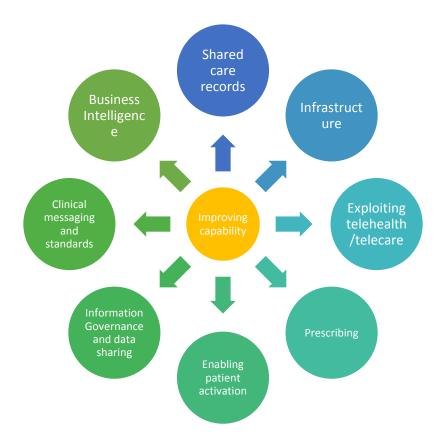
Within our local health economy, we are facing the same challenges that the rest of the NHS is acutely aware of; an aging population, limited funds, demanding citizens with greater expectations than ever before and a potential deficit of £120 Million by 2020/21 if we fail to act and transform the way we work.

The LDR sets out our Vision for Informatics and what we aim to have in place by 2020 and beyond. It recognises the pace of transformation and the opportunities that lie ahead whilst at the same time focussing on how we might use technology to:

- 1. Close the health and wellbeing gap.
- 2. Close the care and quality gap.
- 3. Close the finance and efficiency gap.

In producing this LDR, we have taken stock of where we are as a health economy, our level of digital maturity, the things we have done well, the achievements we have made but importantly, what we must do next.

We have identified within this document a number of areas where improvements need to be made. The headline areas are shown on the diagram below:



Key milestones have been set out within this LDR and further engagement with the Sustainability and Transformation team is underway to ensure correct alignment of delivery.

In developing this LDR, we have considered our 'Readiness to Proceed' setting out our delivery principals and governance model and how delivery is controlled. We have within the Health Economy a capability to deliver with strong skills available to us. We have recognised that we can only deliver this challenging LDR by pooling skills and capabilities at times of need.

Delivering benefits and capability to the Sustainability and Transformation programme is our prime objective as it is this programme that will bring about the required transformation to secure sustainability in the future. We will ensure that we engage fully in the

development of the programme benefits management strategy and the mapping of benefits.

This LDR cannot be achieved without a significant investment in IT.

Presently the level of funding afforded to IT is relatively low, and so it is recognised that further investment is required. This can only be achieved by:

- 1. Uplifting current IT investment and demonstrating through the development of robust business cases that investment is justified.
- 2. Utilising STP monies to underpin robust governance
- 3. Attracting external funding to support project delivery
 - a. Innovation funding opportunities
 - Unlocking funding from the additional £1.8 Billion that is aligned to support improvements to digital health.

This LDR is Version 2 and we are expecting that it will mature as our transformation programme gather pace.



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Shropshire and Telford & Wrekin

Local Digital Roadmap

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1.0 Creating the Local Digital Roadmap - A Collaborative Approach

Shropshire, Telford & Wrekin LDR team have worked collaboratively with Local Digital Roadmap (LDR) teams from across the Midlands area to ensure consistency in approach across a number of major programmes. We recognise that delivering the digital capabilities necessary to bring about sustainability and transformation can only be achieved if we work together, share capabilities and resources and align our delivery programmes accordingly. In particular, there has been close working with Birmingham & Nottingham LDR leads. This approach has resulted in the creation and adoption of the greater midlands LDR accord with each party committing to work collaboratively on a number of fronts. These include but are not limited to:

- Consent models
- Data Sharing agreements and governance processes
- Adoption of standards, such as interoperability, identification and messaging to ensure consistency across the regions and benefits to patients who cross borders to receive care.
- Joint procurements, including a single messaging hub for the region
- Intelligence platforms and big data a single shared approach which will drive benefits and reduce costs for all parties.

1.1 Organisation involved in the development of this LDR

The table below summarises the organisations that have contributed to, and are committed to this Local Digital Roadmap.

Shropshire and Telford & Wrekin

Local Digital Roadmap

Care Organisation Type	Organisations
Primary Care	Shropshire CCG – 43 Practices Telford and Wrekin CCG – 18 Practices Covering a population of circa 480,000
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Third Sector	Shropshire Partners in Care (SPIC) Severn Hospice Hope House Children's Hospice
Emergency Care	West Midlands Ambulance Service

1.2 How the LDR has been produced

The Shropshire, Telford and Wrekin Digital Strategy Group has been in place for 2 years and has met on several occasions to discuss the requirements and begin capturing information necessary for the LDR. Additionally, each of the providers completed their digital maturity assessments which were submitted to NHSE by 17/05/2016.

A workshop was held on 9th June in Shrewsbury which included representatives from local authorities, Out of hours' service, all local NHS providers, West Midland Ambulance Service (WMAS), third sector hospices and patient representatives. Attendees were made up of Clinicians, Technologists, Managers and patients. The workshop covered the STP objectives and linked to LDR as needing a digital golden



Shropshire and Telford & Wrekin

Local Digital Roadmap

thread between the two work streams. The workshop led to a prioritisation exercise over the universal capabilities and additional work

streams such as tele health. The outputs from the workshop have been compiled into Appendix 4.

Each organisation within the LDR footprint has been given access to office 365 to review and edit the LDR over time.

The authors of the LDR and STP have been in regular contact to ensure that the themes of the STP are mapped closely to the digital themes in the LDR. The draft LDR was presented to the STP group on 21st June 2016 for comments and signed off on the 28th June by the same group. The LDR os now to be presented to the Health and Wellbeing Boards for both Shropshire and Telford and Wrekin.

LDR

Shropshire and Telford & Wrekin Local Digital Roadmap

2.0 Introduction

The NHS is facing one of its greatest ever challenges during this period of austerity measures. A £30 Billion funding gap by 2020, of which the Shropshire specific element amounts to £120M across health and social care if left unchecked.

Simon Stevens sets out four areas in which the NHS & Social Care needs to address;

- 1. Improve local partnerships with integration across systems.
- 2. Patients in control of their health.
- 3. Use technology to improve patient health, experience and access.
- 4. Seek radical enhancements to public health to change our system from reactive to proactive prevention

The five year forward view and Personalised Health and Care 2020 sets out a framework by which technology can be used to address the above to drive transformation, improve health and reduce healthcare costs.

The introduction of local digital roadmaps to demonstrate that local plans are in place to implement and address the above became a requirement in October 2015.

NHSE then released Five Year forward view into action which set out the timescales and further detail that CCGs needed to include in the LDR. It is important to note that whilst CCGs are taking the lead, LDRs must be a collaborative document with all parties contributing and agreeing to its content.

LDR

3.0 Strategic Alignment

The digital roadmap utilises the following localised intelligence to form the base requirements needed within the local health and social care economy:

- New Models of Care
- Sustainability and Transformation Planning
- Commissioner and Provider Strategic and Operational Plans

The main national policies and strategic drivers for the local digital plan are:

- NHS England Five Year: Forward View
- NHS England Business Plan 2015/16 Building the NHS from the Five Year Forward View
- Power of Information: Putting all of us in control of the health and care information we need
- Securing Excellence in GP IT Service Operating Model 2014-2016
- The Forward View into Action: Paper-free at the Point of Care Preparing to Develop Local Digital Roadmaps
- Development of the National Information Board (NIB)
- Interoperability handbook

The digital roadmap partners have recently reviewed and are currently updating their IM&T strategies to align with the national strategy, "The Five Year Forward View" the "5 Year Forward View into Action"

The digital roadmap is designed to deliver the capabilities that will enable delivery of local health and social care economies strategic plans and will support the creation and enactment of the Sustainability & Transformation Plans (STP). The STP will ensure the delivery of both health and care systems across the estate, providing the drive and strategic requirement to support the use of new technologies to improve the delivery



Local Digital Roadmap

of care for example enabling new care models and supporting seven day services where required.

This is necessary as our population is increasing. The population is also getting older, with changes to the retired population increasing significantly whilst working age groups are reducing.

Whilst an aging population can be seen as a significant achievement for healthcare services, these achievements come with challenges for the future. We need to ensure we provide high quality health and social care, so that we not only live longer lives, but live longer healthier, active and independent lives.

For a significant number of older people, advancing age is associated with frailty. In medicine this is often defined as a reduction in physical capacity: a group of older people who are at the highest risk of adverse outcomes such as falls, disability, admission to hospital, or the need for long-term care.

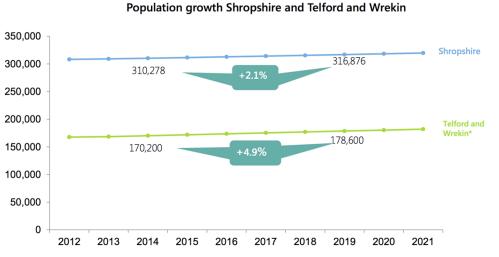
Faced with an ever-increasing ageing population, we need to rethink old age, and move from a reactive approach to managing frailty, to a proactive approach. Changes to our healthcare provision, alongside advances in medicine and technology provide us the best opportunity to meet this challenge.

The charts which follow provide a graphical summary of the populations' growth and age profile.

LDR

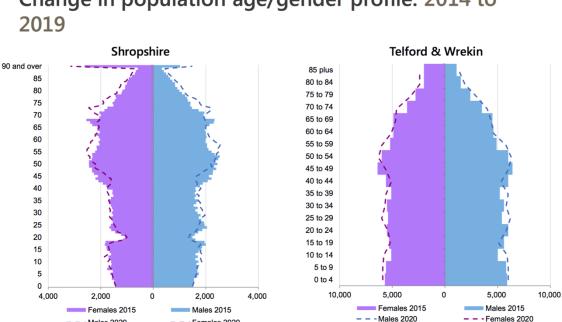
Shropshire and Telford & Wrekin Local Digital Roadmap

Population size



* Telford & Wrekin population projections have been adjusted locally to account for major residential build plans. Shropshire projections are taken directly from ONS published figures

- Females 2020

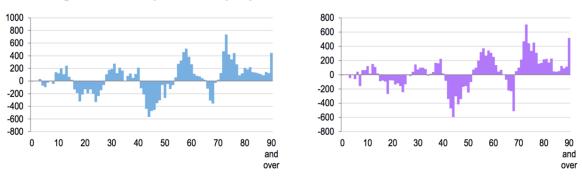


Change in population age/gender profile: 2014 to

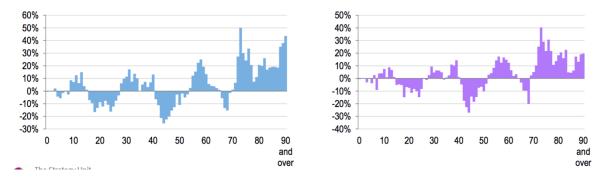
- Males 2020



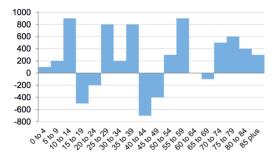
Change in Shropshire's population 2014-2019

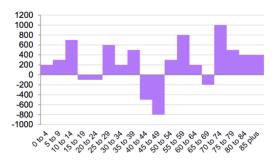


% change in Shropshire's population 2014-2019

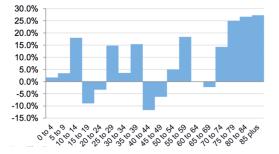


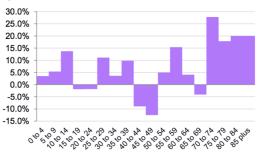
Change in Telford & Wrekin's population 2014-2019





% change in Telford & Wrekin's population 2014-2019







Our local digital roadmap is designed to provide a mature set of technologies that will enable future sustainability and address the challenges of this trend by doing things differently.

The STP acknowledges that in order to address the financial challenges it faces there needs to be a shift from reactive care to prevention and early detection. Delivering a digitally connected economy will provide us with the intelligence to deliver this transformation.

The STP sets out 6 key objectives all dependant on technologies currently in place or delivered from this digital roadmap. These objectives include:

- To build resilience and social capital into people's environment so they have the knowledge and skills to help themselves to live healthier and happier lives enabled by current and emerging digital technologies.
- To develop a model of coordinated and integrated care across the NHS, Social Care and the Voluntary Sector that reduces duplication and places the patient and service user at the centre. We intend to achieve this by connecting Health and Care systems ensuring that data flow freely to those who need to see it.
- To work as one Health and Care system to deliver for patients and citizens and develop a single shared view of the place-based needs of the population using advanced business intelligence capabilities.
- To develop a sustainable workforce that is fit for purpose, is supported by modern technology, and can deliver evidence-based care in new ways that suit user's lifestyles, where they live.
- To develop a transformed system of care that is high quality, financially sustainable, and efficient and delivers on national standards all the time.



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 To use evidence from around the world to develop excellence in care and pioneering services through the use of high quality research and use of new technologies.

The STP is ambitious, necessarily so to ensure the suggested deficit of £120 Million by 2020/21, identified by Price Waterhouse Coopers does not occur. The STP describes a range of themes which have been mapped against LDR Output. The tables below map for each year LDR programmes against STP themes.

The STP will only be delivered if we correctly align the technology delivery plans with those of the STP. It is with this in mind that a clear line of accountability has been established between the Local Digital Strategy Group and the Sustainability and Transformation Group.

LDR

4.0 Our Vision

By 2020 we aim to have:

- An integrated care record across our economy (starting with end of life by March 2018)
- Patients as co-authors of their record. Contributing and interacting with their record, approving access, booking appointments, repeat prescriptions etc.
- Data Sharing agreements in place to enable our vision of a paperless NHS at the point of care. We expect agreements to be in place by Mar 2017.
- Universal capabilities significantly delivered by March 2018
- Tele Health at scale 2016-2020.
- Collaboration locally and regionally standards, infrastructure, procurements, large projects like big data population health analytics.

However, our vision extends beyond 2020 due to the pace of innovation around the world.

Our Vision for 2030 extends to:

- Patients, Carers and Clinicians have the information they need at the time they
 need it to make decisions about health. This information will be a consolidated
 view from across all care settings including information provided by the patient
 and via telemetry from tele health monitors and will include alerts, smart
 algorithms and machine learning.
- Precision medicine increasingly being used to support decision making, including greater use of genome sequencing for screening and medication. New pharma technology used to ensure compliance with care plans, such as



pills that detect if they have been taken.

 Tele health at scale, harnessing the exponential growth in mobile technology that the population has embraced to change behavior to a healthier lifestyle or to better manage a long term condition with 70% of patients with life style issues (weight, alcohol, smoking etc.) or with long term conditions using a form of app or tele health solution to better manage their condition.

Our world has been radically transformed by digital technology such as smart phones, tablets, and web-enabled devices have transformed our daily lives and the way we communicate. Advances in clinical systems have leveraged the digital revolution to bring about levels of integration that have never been possible before, which in turn enables:

- Improved patient care.
- Care coordination across care settings, including alerting, decision support algorithms and workflow.
- Patient participation in their own care including tele health.
- Improved diagnostics and patient outcomes.
- Care in the community, including remote consultations and diagnostics.
- Cost efficiency and savings.

The local digital roadmap aims to create a digitally enabled health and social care economy across the Shropshire, Telford and Wrekin geography. We believe that by harnessing the power of technology and innovation we can address the three national challenges of:

- 1. Closing the health and wellbeing gap.
- 2. Closing the care and quality gap.
- 3. Closing the finance and efficiency gap.

4.1 To close to health and wellbeing gap we will commit to:

- Using advanced data analytics to manage current demand and to identify future demand at patient level where early intervention can result in better health and wellbeing.
- Using this data to work with our public health colleagues to design and target public health programmes within our health economy.
- Empower our patients to be partners in managing their own health and wellbeing by providing access to a range of tailored digital tools from access to their own medical record to using a range of accredited apps specific to their need and required level of support.
- Implement tele health at scale in order to drive health benefits and reduce costs.

4.2 To close the care and quality gap we will commit to:

- Ensuring that at the point of care, the patients' Health and Care record is available to those that need it. The first major step being in the adoption of an EPACCS system across the LDR footprint by March 2018.
- Ensuring that an individual's information is recorded once and shared where needed.
- Clinicians are alerted promptly to key patient's events and changes in their status, supported by knowledge management and decision support tools.
- Ensuring that medicines management and optimisation systems across the economy are compliant with the DM&D, with the EU falsified medicines directive and with GS1 and PEPPOL standards.
- Ensuring that all referrals, bookings, diagnostic tests, results reporting and discharge notifications are completed electronically.



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- Ensuring that our approach to Information Governance is one that allows patients control over who can access their record, and is not seen as restrictive in delivering better care.
- Building the capability to ensure that technology is not just delivered but truly embedded into clinical and business process. We will ensure that this happens by taking a rigorous approach to benefits identification and delivery and measurement.
- Ensuring that we deliver the capability for our community workforce to be truly mobile and only see those patients that need to be seen.

4.3 To close the finance and efficiency gap we will commit to:

- Ensuring that our ambitions are realistic, achievable and funding sources identified.
- Ensuring that we maximise the benefits of procurement through scale and standardisation.
- Ensuring that the recommendations of the Carter review be incorporated into new systems and process improvement schemes to include EPMA, coding of medicines, guaranteeing 80% of pharmacist resource be directed at medicines optimisation and significant stock-holding reduction.
- Capitalising on investment already made.
- Ensuring that we adopt a 'Digital by Default' policy utilising cloud-based solutions to reduce unnecessary operating costs.
- Taking a rigorous approach to benefits delivery in particular around managing demand and creating capacity.

This digital Roadmap underpins the 'Sustainability and Transformation Plan which sets out a vision for its patients to be amongst the healthiest on the planet.

5.0 Baseline Position – Our Starting Point on this journey

Shropshire, Telford and Wrekin health and social care community spends £1 billion annually to provide services to the citizens. The expenditure across all organisations on IT is less than 2%. Described below is the current digital maturity position across sectors, and it is clear that we still have some way to go in order to meet the requirements of the five year forward view.

Patients and Service Users;

- Have no or little access to their electronic record
- Very few access on-line booking
- Very few use technology as part of their health or social care needs

Our Workforce

- Has limited connectivity to core systems outside of main facilities, instead using paper to complete tasks and provide care.
- Still use a mix of electronic and paper (with the exception of primary care and mental health)
- Have limited if any information at the point of care when treating patients from other organisations.

Infrastructure

- Systems are joined within each organisation using EPRs but this is not joined to other sectors to create an integrated care record.
- Infrastructure is not shared, so workers from one organisation cannot work in another



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- There is duplicated infrastructure in place such as messaging hubs which could be combined to drive efficiency and make management easier.
- Joint procurements are rarely undertaken with organisations being at different places in their digital journey.
- Mobile infrastructure and the use of Unified Comms in some areas is good but this is not consistent.

5.1 Digital Maturity within Primary Care

All Shropshire practices use the EMIS web clinical system apart from one which uses INPS Vision. All practices use *Docman* for electronic document management. Digital maturity is generally good within primary care, and the need to share primary care patient records with secondary care is recognised as a key priority. All Shropshire EMIS practices have signed a data sharing agreement to share their summary patient data with A&E and the urgent care centre. The e-referrals system is extensively used via a referrals management centre (RAS). Patients are encouraged to access their own medical record online, book appointment online and order repeat prescriptions online. Uptake is improving, although coming from a low base.

See appendix 1 for a full picture of digital maturity within Primary Care.

5.2 Digital Maturity across Providers

A summary of the digital maturity indices submitted in comparison with the national average is given in the table below.

Digital Maturity AssessmentEconomy Average Scores from DMAOrganisation Demographics

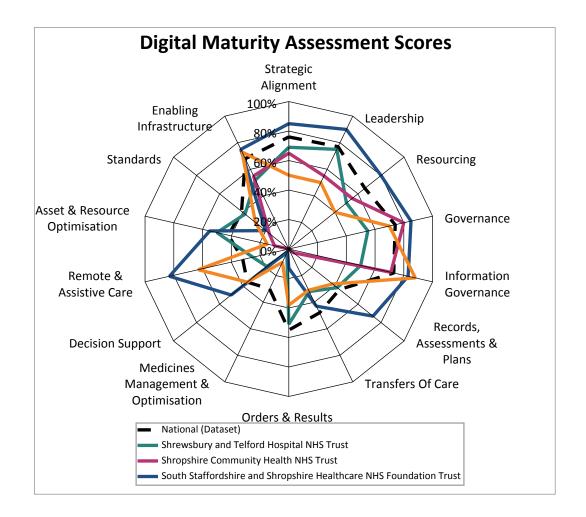
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	Local Digital Noaumap
Strategic Alignment	69.8% 6.2% below national
Leadership	67% 10% below national
Resourcing	61% 5% below national
Governance	72% 2% below national
Information Governance	73.6% 0.4% below national
Records, Assessments & Plans	37.4% 6.6% below national
Transfers of Care	31.2% 16.8% below national
Orders & Results Management	25% 29.5% below national
Medicines Management & Optimisation	4.8% 25.2% below national
Decision Support	28.8% 7.2% below national
Remote & Assistive Care	34.2% 2.2% above national
Asset & Resource Optimisation	39.8% 2.2% below national
Standards	25% 16% below national
Enabling Infrastructure	67.8%
	0.2% below national



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The chart below shows the position for each of the provider organisations. The Shropshire health economy has a generally lower level of maturity than the national average (although there is wide variation between organisations) with the exception of 'remote and assistive care' where it appears that we are doing significantly better than the average. The most significant underperformance against the national average was 'orders and results management'.

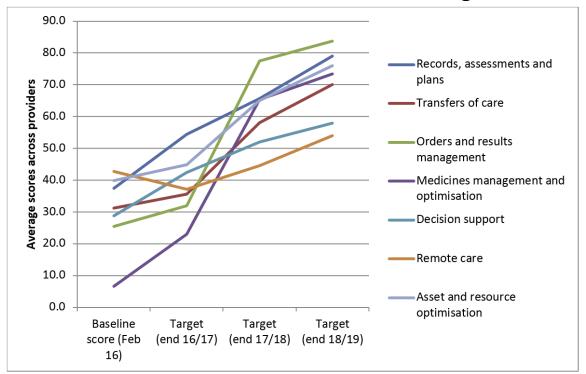


5.3 LDR Maturity Planned Trajectory

The below chart indicates the increases in maturity that the providers LDR economy is predicting based upon the work planned to deliver the LDR'.



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5.4 Digital Maturity Position

5.4.1 Digital Maturity -What is happening already, our achievements to date.

5.4.1.1 Information sharing

- General Practice receives NHS 111 reports electronically using DTS.
- To support 7-day working, federated practices are now sharing patient records.
- The health economies Out of Hours provider, 'Shropdoc', has access to patient records within their Adastra system via Graphnet and a feed from the Summary Care Record.
- Within Shrewsbury and Telford Hospital Trust a clinical portal already exists providing real time access to test results, letters, medication, GP patient data and alerts. This is already delivery benefits to hospital clinicians and patients.



- Observations are captured and communicated electronically. There are no 'end of bed' paper charts. Early warning scores alert medical teams to the deteriorating patient.
- A live demand and capacity system is available across shropshire which informs
 of the current state of urgent care within SATH. The system is used by
 operational staff within the trust, directors, CCG senior staff and directors,
 social workers, care coordinators, GPs and practice managers. This is making
 use of real time analytics.

5.4.1.2 Transfer of care

- Within the Emergency Department of Shrewsbury and Telford Hospital Trust an electronic status board has been established where they can see at a glance where patients are, tests that have been undertaken to aid patient flow. This information is available on mobile devices accessible anywhere.
- 90% of inpatient and A&E discharge correspondence from within the Shrewsbury and Telford Hospital Trust is sent electronically to GPs.
- Within Shrewsbury and Telford Hospital Trust, wall size ward electronic touch screens providing patient status at a glance and providing the focus for twice-daily clinician board rounds to aid timely transfer of care.
- The West Midlands Ambulance Service has implemented a new system from 'Safer Patient Systems' which enables:
 - the digital hand over of documents to A&E departments.
 - \circ $\,$ Messaging via docman hub to GP to inform of the conveyance
- At RJAH within Graphnet we have the capability to perform an e-handover of patients and all discharges to the Shropshire based GP's in addition to sending Radiology reports as well via DocMan.

5.4.1.3 Prescribing

- Ward based pharmacy teams in Shrewsbury and Telford Hospital Trust make use of mobile drugs transcribing systems to reconcile and order drugs and to manage interventions and contraindications. This is a pre-cursor to eprescribing.
- The Shrewsbury and Telford Hospital Trust is currently introducing a chemo prescribing system.
- RJAH have now procured JAC EPMA and stcok Management which is now live.
- EPS all but two non-dispensing GP practices are currently using electronic prescribing. Usage of the system is above the regional and national averages

5.4.1.4 Electronic Order of Tests and Results Reporting

- Clinicians within the Shrewsbury and Telford Hospital Trust order entry and results communication, this will soon to include radiology exams.
- General practice clinicians order and review all blood and microbiology tests and most radiology examinations electronically
- A refresh of the Shrewsbury and Telford Hospital Trusts Picture Archiving and Communication (PACS) facility laying the basis for further image communications and vendor neutral archiving. The trust is currently bringing its echo cardiogram image and reporting capability into line with this.
- The Shrewsbury and Telford Hospital Trust is setting the scene for Point of Care Testing systems to be introduced in a joined-up, safe and integrated way across the economy.

5.4.1.5 Patient Activation and Self-Management

 Patients using Shrewsbury and Telford Hospital for their cancer management are being introduced to cloud-based shared care APPS which allow the patient to manage and control data they share with their care team. With this information they tell us they will more confidently manage their lives and

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improve the efficiency with which they use traditional hospital models of care-which will then no longer be traditional

 Both CCGs have commissioned tele health systems in the past but the solution used had very limited results and was decommissioned. A new approach is being adopted of tele health at scale and this roadmap will enable its deployment and greater impact in order to deliver the aims of the STP.

5.4.1.6 Electronic Patient Records

- The South Staffordshire and Shropshire Healthcare NHS FT is 100% paper free having scanned all of its paper records and current patient records are now being entered digitally onto RIO.
- All general practice, including our out-of-hours provider(Shropdoc) have fully digitised records and are 100% paper-free.
- Across Rob Jones and Agnes Hunt Orthopaedic Hospitals Trust a number of developments have taken place:
 - They have implemented VitalPAC to ensure observations are captured electronically and these feed into the Graphnet EPR.
 - Through IdeaGen scan the legacy case note are incorporated into their electronic record. This is viewable through Graphnet EPR.
 - They have procured JAC EPMA and Stock Management. The Stock management is now live and the Trust are expecting to go live with EPMA over the next 12 months.
 - They have also started digitising their pre-operative pathway through the Genera Pre-Op system

5.4.1.7 Infrastructure

• The South Staffordshire and Shropshire Healthcare NHS FT has invested in Wi-Fi at all of its premises in Staffordshire to enable mobile working. The Wi-



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Fi capability is shared with other organisations offering true mobility for all. There are plans to replicate this in Shropshire.

- The South Staffordshire and Shropshire Healthcare NHS FT has implemented an integration engine to enable mobile device integration with the RIO diary capabilities.
- The South Staffordshire and Shropshire Healthcare NHS FT makes use of Skype for consultations with local care and nursing homes.
- To support mobile working, the South Staffordshire and Shropshire Healthcare NHS FT has issued mobile technology to its clinical workforce with both VPN and tethering to mobiles configured.
- Shropdoc have been investing heavily to promote mobile working for its staff and are considered the pioneers in this area locally
- Primary care has 100% cloud based clinical systems enabling clinicians to work from different locations if necessary.
- The Robert Jones and Agnus Hunt hospitals trust have been investing in Wi-Fi over several years and have a secure hospital WiFi to allow for mobile access to records. This has been segmented to also allow free WiFi access across the Trust for patients.

6.0 Digital Maturity – Areas where we know we need to deliver improved capability

The local digital roadmap team have identified through discussion, areas that we have all agreed need addressing within the scope of this roadmap.

6.1 Shared Care Record

Delivering a 'Shared Care Record' across Shropshire and Telford &Wrekin will require a co-ordinated effort to bring together local EPR developments with the requirement to integrate systems across organisation boundaries, necessary to improve care coordination, transfer of care, readmission rates and improve outcomes.

Organisational clinical systems are relatively stable across the economy. The Shrewsbury and Telford Hospital will have to make a number of tactical extensions to system contracts (including the PAS, Pharmacy, PACS and Pathology) but will be considering these in parallel with the wider requirement to procure an ePrescribing solution, a (compliant) pharmacy stock control system and an EPR. The Shropshire Community Health Trust will also be replacing its current PAS with RIO, whilst Robert Jones and Agnes Hunt Orthopaedic Hospital NHS FT have also recognised the need for an integrated EPR and to replace older legacy systems.

We have also seen from the work of Shrewsbury and Telford Hospital NHS Trust that technology alone will not deliver the required benefit, a concerted effort is needed at service level to bring about the enabling transformation and ensure that the whole organisation adopts the technology to reduce variation in process and waste.

The table below, maps the key systems in use with each partner organisation

Organisation	Primary	SATH	RJAH	Shropdoc	SSSFT	SCHT	WMAS
	Care						



				LUU		Lai Rua	umap
Existing Systems supporting integration	EMIS Web INPS PCti docman edoctransfer	Atos Sema Helix PAS* Varian Chemo prescribing and radiotherapy SystemC VitalPAC observations CSC Pathology CSC Pathology Agfa PACS Phillips Echo CRIS radiology CRIS radiology SystemC Maternity EScript (internal) medicines management SeW (internal) clinic letters PCti docman edoctransfer Medisoft ophthalmology	CSC IPM PAS * Graphnet EPR* PCti docman edoctransfe Bluespier Genera Pre-Op Fuji PACS VitalPAC JAC VitalPAC JAC IdeaGEN (Legacy Scanned Note)	Adastra EMIS Web	RIO	iPM (replacing with RIO) Sema Helix TPP system one (prisons)	CLERIC
Integration Platform	Graphnet CareCentric	Orion Rhapsody	Orion Rhapsody		Ensemble		

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*Currently reviewing medium to long term future of the systems as Trust require a SPINE enabled integrated EPR.

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The LDR organisations have recognised the need for a shared or integrated care record and put forward a bid to the 'technology fund 2' in order to pump prime the project almost 2 years ago. The bid had backing from all health and social care organisations but unfortunately was not supported nationally. The requirement still remains and we are confident that this project will attract the necessary investment to bring about this important capability.

Our ambition is to build a shared care record that extends beyond a simple 'lookup'. We aim to provide interoperability at the highest level, providing the ability of systems to exchange information and to use the information that has been exchanged. Using semantic interoperability, we can take advantage of the structured data exchange. This level of interoperability supports the electronic exchange of patient summary information among caregivers and other authorized parties via potentially disparate electronic health record (EHR) systems and other systems to improve quality, safety, efficiency, and efficacy of healthcare delivery.

The design standards and design principles of the record will allow integration with neighbouring economies.

It is intended that we will have an Open Standards Application Program Interface (API) creating a level of integration of future digital platforms within the whole economy. The combination of RBAC, Governance and API, will ensure that only appropriate and agreed data is made available from the economy to any applicant system.

6.2 Infrastructure Improvements

Although we have pockets of good and encouraging practice such as in South Staffordshire and Shropshire Healthcare NHS FT we need to make improvements.

• Connection of network infrastructure to:



- o enable access to patient records at any location
- Offer unified communications across all staff inc video to deliver greater efficiency capabilities.
- Enable the delivery of a shared care record.
- Enable remote access to telehealth monitoring capabilities.
- Enable tele-medicine capabilities to be exploited.
- Extension of network infrastructure to create a Health and Social Care Network to ensure improved co-ordination and transfer of care.
- Ensure that all staff have access to the right device for the job that they are doing. Whilst South Staffordshire and Shropshire Healthcare NHS FT have already deployed mobile technology to its staff, Shropshire Community Health Trust have committed to a widespread deployment over the next 5 years.

6.3 Exploiting the capabilities of telehealth and telecare

We are all agreed about the importance tele-health and care will play in coordinating and delivering care in the future. This technology is recognised by the sustainability and transformation group as fundamental to future care models where the patient is activated to become an equal partner in managing their own health, condition and well-being.

All organisations are keen to invest, but in order to ensure we do not waste effort and resources we intend to work collaboratively on procurement and operationalisation.

RJAH are presently looking at options utilising tracking of patients, staff and resources to automate and alert to issues within workflow in order that actions can be carried out prior to an issue occurring. This adoption is relatively new in the UK but has been utilised to good effect in the US. We will share learning from this.



6.4 Prescribing

Adoption of the Dictionary of Medicines and Devices (dm+d) is a requirement for compliance across NHS systems as per ISB 0052 is 30 June 2017. Currently the principal GP clinical systems hold compliance to this standard. Economy wide adoption of dm+d will be required for an effective economy wide care record, that supports cross organisation clinical system support.

There is a further prescribing requirement to adopt the EU Falsified Medicines Directive (FMD) with a deadline for implementation of February 2019. A focus on clinical safety, based on the risk posed by the growing volume of counterfeit medications on the market within the EU. This will require integration and use of bar codes for all pharmacies.

In addition to this:

- Shrewsbury and Telford Hospitals NHS Trust will be procuring ePrescribing and pharmacy stock control solutions and have stated they will be considering the linkages with the community prescribing functions within the RIO system. Additionally, they are looking at introducing a chemo prescribing system.
- RJAH will be implementing their EPMA system within the next year.

6.5 **Patient Activation**

6.5.1 Patient record access

The position of the patient will be amended allowing access to shared record as both consuming and contributing party. The IOM (Institute of Medicine) defines patient-centred care as: "Providing care that is respectful of and responsive to individual patient preferences, needs, and values, and ensuring that patient values guide all

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clinical decisions". Inclusion of the patient identification strand of work at this point, will allow the successful inclusion of the patient as a decision maker within their own healthcare.

6.5.2 Communication channels to individuals

Formation of an economy-wide patient forum focussing on the digital communication requirements of individuals across the sectors. Significant work has already been undertaken in this space by several of the partners within the footprint. Consideration needs to be given to expanding these channels to include web, mobile and speech-to-text platforms, to promote digital inclusivity. Convergent methods of information presentation to patients needs consideration to effectively change the role of the individual, to allow their effective inclusion within care arrangements.

6.6 Information Governance

6.6.1 Economy wide data sharing arrangements

Significant work has been conducted within the economy on a data sharing agreement at an economy scale. While a hugely valuable exercise, consideration needs to be given to its scalability. Further effort will be placed into the ongoing maintenance and transparency that the agreement could provide in line with the Data Sharing Code of Practice. To promote the sharing of individual and organisation data at an economy level, requires a transparency that engenders.

- public trust by ensuring that legally required safeguards are in place and complied with.
- protection for individuals when their data is shared.
- increased data sharing when this is necessary and beneficial.
- greater trust and a better relationship with the people whose information you want to share.
- reduced reputational risk caused by the inappropriate or insecure sharing of personal data.

better understanding of when, or whether, it is acceptable to share information without people's knowledge or consent or in the face of objection.

6.6.2 Data Sharing digital platform

The impact of true integrated care records from a governance perspective increases risks of potential breaches due to much larger amounts of patient information being joined together across a disparate geography. In order to ensure that this does not happen, we need to provide assurance to each participating organisation that information assets are registered, that data flows are identified and have data sharing agreements in place, that privacy impact assessments have been completed etc. The CCGs already use a web-based system in order to provide board level assurance on information assets which is necessary to ensure legal compliance and for the completion of the IG toolkit. This tool could be extended to include all health and social care providers, hospices and third sector in order to ensure consistent levels of assurance within each organisation and to reduce the burden in maintaining the system which otherwise would be significant. New enhancements include one organisation taking the lead on performing assessments and uploading to all partners. The Assessment would then show in each organisations workflow for approval, providing a consistent level of assurance with significantly less effort than possible today.

6.6.3 Consent and Privacy

Utilising previous strands of work to gain explicit consent, would allow cross sector analytics to be undertaken which are not currently possible within the economy. Use of the combination of work strands allows for these to be undertaken in a clear and transparent manner in accordance with an individual's wishes. It is envisaged that the work to seek consent from patients for secondary use of data could commence in advance of the final live system being available. The details of this will not be investigated however until the publication of the forthcoming Caldicott 3 review, to



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ensure that any system is in alignment with the Data Protection Act (DPA) and the Caldicott guidance.

6.7 Clinical Messaging and standards

6.7.1 Clinical Coding

Through the duration of this LDR we will be working to ensure that we adopt the same technical standards for clinical coding. Our aim is to ensure that SNOMED CT is implemented across all sectors by April 2020. We are presently agreeing timescales with each organisation to support the move from existing platforms such as ICD10 or HRG4.

A single coding system across the economy will support use of an economy wide care record for functions beyond simple viewing of care data across organisations.

6.7.2 Discharge Documentation

Emerging models of care and evolving needs results in larger volumes of documents flowing between organisations and requiring review or action. We plan to give priority to reviewing these data flows but also the standards and structures of the documents themselves.

With plans to adopt the Academy of Medical Royal Colleges (AoMRC) <u>Standards</u> across the economy we aim to improve and standardise processes covering Discharge, Handover and Referrals.

This is a large scale piece of work, requiring systematic review and potential amendment of all documents in use within all sectors. Whilst we review standards for inter and intra-organisation documents, we will also be considering the mechanism by which documents transfer between organisations.

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The health economy is presently looking at a hosted delivery platform that can be accessed by all organisations for sending, and or receiving documents. Providing a single document brokering solution at an economy scale that encompasses health and social care needs. Once the collaboration work stream has standardised document structures, work can commence on the Clinical Document Architecture (CDA) to transmit machines in a machine readable using a Health Level 7 version 3 (HL7v3) Reference and Information Model (RIM) standard that is both machine and human readable. Machine parsing of documentation will allow key information to be transferred between systems for information and action.

6.7.3 Patient Identification

There is a need to provide a uniform method of identifying patients throughout the economy. The first requirement is the uniform adoption of NHS number by all organisations. This is practically complete for all partners with the exception of some social care schemes for which this is a piece of ongoing work. Work needs to be done to ensure that patients are positively identified at times of treatment and that this is recorded within the system. System implementations such as EPMA will have this built into the workflow.

In addition, we would like to see the provision of a single method for the individual to digitally identify themselves to all services with the economy. Consideration will be given to the option to use the National Identity Service (NIS) and its potential to allow a patient to securely identify themselves once and have access to appropriate records across the economy, or a local Citizen service potentially based from systems such as the electoral register to allow patients the same benefits. The unique patient identification approach allows an approach to patient consent, directly allowing an individual to provide dynamic consent for organisations to view or use data for both primary and secondary purposes.

6.7.4 Data Informed Decisions and Business Intelligence

Enabled by the capability afforded from building a Shared Care Record across our economy we aim to improve at economy level our ability to collect, analyse and interpret data from a range of connected sources.

This LDP will see the creation of a Big Data project, the outputs of which we will use to drive improvements to promoting health and wellbeing and direct care delivery.

6.7.5 Point of contact

We aim to provide cross sector analytics providing improved point of contact support to service professionals and patients. Utilising an abstraction of the care record to provide a reporting function capable of delivering point of contact decision prompts.

It is proposed that the point of contact services could include local prompts, national guidance or validated clinical calculations such as QRisk or INR calculations that can be performed on cross organisational data sets.

6.7.6 Population and Epidemiological Studies

Consent from individuals through existing IG models) for data in population level process mining and epidemiological studies, would allow the development of new methods of identifying individual concerns. These could span from identifying an issue with Patient-Carer relationship which might result in a crisis event, through to early identification of life altering conditions such as diabetes or cancer.

The population and process based studies would however allow holistic or whole systems review of process, that would facilitate care commissioning. This would look at how people use the services across Shropshire, Telford & Wrekin to define how existing systems can be altered, commissioned or decommissioned according to need and efficacy.

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7.0 Our Programme

7.1 Building Capability

This section of the document brings together are planned milestones for the delivery of the National Capabilities and some more local initiatives already identified as necessary to underpin the delivery of the Sustainability and Transformation programme.

7.2 Capability Deployment schedule

7.2.1 Paper Free at point of care

	AVERAGE SCORES ACROSS PROVIDERS			
Capability Group	Baseline score	Target 2016/17	Target 2017/18	Target 2018/19
Records, assessments and plans	37.4	54.4	65.6	79
Transfer of care	31.2	35.8	58.0	70.0
Order and results management	25.5	32.0	77.5	83.8
Medicines Management and Optimisation	6.6	23.0	65.4	73.4
Decision support	28.8	42.4	52.0	58.0
Remote care	42.8	37.2	44.6	54.0
Asset and resource optimisation	39.8	44.8	65.0	76.0

7.3 Universal Capabilities

The table belows summaries our plans for progressing the Universal Capabilities over the next 2 years, further detail can be found in appendix 4.



Universal Capability	Milestones
A. Professionals across care settings can access GP-held information on GP- prescribed medications, patient allergies and adverse reactions	 16/17 Improve quality of shared data Ensure that General Practice continues to update SCR entries Ensure that providers utilise the SCR when the local GP record is not available. Agree uniform method of identifying patients that would benefit from an Enhanced Summary Care record, due to out of economy interactions.
	 17/18 Promote and adopt ESCR updates using agreed patient cohort. Frequent A&E attendees and patients with multiple co-morbidities Primary care data in Graphnet or similar system as part of EPACCS also shared with provider EPRs
B. Clinicians in U&EC settings can access key GP- held information for those patients previously identified by GPs as most likely to present (in U&EC)	 16/17 Improve quality of shared data Ensure that General Practice continues to update SCR entries Ensure that providers utilise the SCR when the local GP record is not available. Agree a methodology to identify patients likely to present at U&EC facilities, including for frail and vulnerable patients
	 17/18 Promote and adopt ESCR updates using agreed patient cohort. Frequent A&E attendees and patients with multiple co-morbidities Primary care data in Graphnet or similar system as part of EPACCS also shared with provider EPRs to cover all U&EC settings – benefit is no new username and password needed by provider clinicians to access fuller primary care record.
C. Patients can access their GP record	 16/17 Enablement of all practices to provide access to GP detailed care record.
	17/18Promotional and comms activity to increase

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	usage. Increased access to cover multiple digital platforms, such as mobile application and speech to text. EPACCS procurement will include a patient portal for access by the patient, carers and third sector.
D. GPs can refer electronically to secondary care	 16/17 Ensure that all specialties are available within e-referrals. Promote referrals within all practices with an 80% aspiration Review of Primary care referral management service Baseline provider slot availability for all services ensuring directly bookable with slot availability
	 17/18 Promotion and monitoring of e-referral use, with an aim of all referrals being made electronically. Economy wide adoption of e-referral best practice. Eliminate other forms of referrals so that e-referrals is sole method.
E. GPs receive timely electronic discharge summaries from secondary care	 16/17 Establish the clinical reference group to agree formats and standards for electronic communications. Providers to update the group with their journey to get all departments connected to the Docman Hub. Routine reports on performance by Trust by clinical area Ensure all agreed GP sites across Shropshire / Telford have the ability to receive discharges electronically from all providers. Identify GP site's with low usage and work with CCG IT leads to identify methods of supporting them. Submit joint Midlands mega hub business case to merge all versions of docman hubs into one instance.
	 17/18 Docman hub consolidation across West Midlands CG's support the GP sites which are on the low usage report to improve the use of Docman in



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	 the region Implement solution to allow Social Care to receive Discharge Notes electronically. Support the upgrade to fully hosted Docman 10 (due to be released approximately April 2017) Providers and CCG work with Docman to identify a secondary method or failover process to send to GP's if the GP site has an issue with Docman or Docman hub is offline.
F. Social care receive timely electronic Assessment, Discharge and Withdrawal Notices from acute care	 Establish the clinical reference Providers to update the Forum with their journey to get all departments connected to the Docman Hub Work with wider midlands accord partners
	(particularly Nottingham who have already enabled messages between providers and Social care and have agreed formats for messages)
	 Project plan created Look to adopt these formats locally Enable discharge letters to Telford and Wrekin
	 Enable discharge letters to Shropshire Enable assessments and withdrawal notices to both Shropshire area and Telford and Wrekin
G. Clinicians in unscheduled care settings can access child protection information with social care professionals notified accordingly	 16/17 Agree interim process of U&EC clinicians using SCR for any child attendance (or attendance which meets set criteria) Create plan for inclusion of Social care information into wider ICR (broader than child protection)
	 Agree standards of content passing to ICR including flags. Establish data flows between systems (primarily for EPACCS) but with wider use kept in mind, particularly child protection flag Build flow of data into provider EPRs, with role based access and used in U&EC settings
H. Professionals across care settings made aware of end-of-life preference information	 16/17 Agree specification for an EPACCS system Market test for an EPACCS system.
	17/18Begin deployment of EPACCs, starting with

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	primary care integration and incorporating provider systems, local authority and third sector hospices. Include patient portal for patients and carers to access information, set preferences and grant access to third sector workers.
I. GPs and community pharmacists can utilise electronic prescriptions	 16/17 Produce economy wide dashboard to display use of EPS to CCG and member practices. Review utilisation for all practice to identify good practice and promote throughout economy.
	 17/18 Actions for increasing utilisation in place. Promote patients ordering repeat prescription using EPS in combination with the patient online.
J. Patients can book appointments and order repeat prescriptions from their GP practice	 16/17 All Practices to be enabled for patient online, detailed care records and electronic prescriptions EPS2.
	 17/18 Practices to be offered use of mobile applications to replicate all online functionality on another digital platform subject to procurement.

7.4 Information Sharing

A key component of the ability to share records is a common identifier. The NHS number has been a mandatory field in datasets for many years and is also subject to being included as a mandatory field within the national commissioning contract. Social care can access the number however the uptake across the country is significantly less than NHS.

Organisation	Score
Shropshire Community NHS Trust	99.91%

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Robert Jones & Agnes Hunt Orthopaedic NHS FT	99.90%
South Staffordshire & Shropshire NHS FT	99.80%
Shrewsbury and Telford NHS Hospital Trust	
Telford & Wrekin Council	
Shropshire Council	

The table below sets out our plans for enabling the sharing of patient information

Project	Milestones
Common Information sharing agreements established.	16/17 Working across LDR footprints as partner in midlands accord, agree a consistent approach to consent to facilitate later joining of integrated care records. Share Data Sharing agreements and localise for use in Shropshire, Telford and Wrekin Sign up by all organisations in LDR footprint
Use of the NHS Number in Health and Care Systems	16/17 Will be decided after a comprehensive review of system used by local authorities and the third sector.
other	17/18 Implementation of an electronic Information Asset Management system across all partners.

7.5 Minimising Risks arising from technology

7.5.1 Privacy, Governance and Cyber – Security

All NHS organisations have passed the IG toolkit requirement with scores of satisfactory or better for version 13. One local authority also met a satisfactory score whilst Shropshire Local Authority marginally missed the target and is therefore not satisfactory. It should be noted however that local authorities have only recently been asked to undergo IG toolkit

returns and they are therefore improving their policies, procedures and processes over time.

Satisfactory > = 66%	
Organisation	Score

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Shropshire CCG	91
Telford and Wrekin CCG	91
Shropshire Community NHS Trust	66
Rob Jones & Agnes Hunt Orthopaedic NHS FT	89
South Staffordshire & Shropshire NHS FT	93
Shrewsbury and Telford NHS Hospital Trust	73
Shropshire Doctors	69
Telford & Wrekin Council	85
Shropshire Council	63

The aspirations of creating an integrated care record for our population is a key ambition of this digital roadmap. However, we must remain cognisant of the increased risks to confidentiality and governance that this project raises. We must move forward with sharing records at the same time that we increase the protection offered to patient information and strengthen our governance processes.

7.5.2 Strengthening Security

Security is an area that is seen in two very different ways;

- 1. A way to secure the patient record
- 2. A way to prevent clinicians from accessing the record they need to see with yet another set of usernames and passwords.

In order that we ensure our project meets point A) but avoids point B) our roadmap seeks to ensure that the integration of records is done in a way which embeds the record within the overall clinical application being used by the clinician. In Primary care this would be EMIS Web, whilst in a secondary care setting it would be within their EPR portal. In this way we are providing the necessary information at the point of care to influence the treatment of the patient whilst at the same time ensuring that security is consistent and robust.

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A secondary aim of the digital roadmap is to introduce single sign on. Whilst the ICR will be embedded into the core application of the clinician, there are many more applications that clinicians, social workers and admin staff access every day which cause delays. A project in Birmingham to introduce single sign on for GPs found that on average there are 11-14 applications that GPs access on a day to day basis, each with a separate username and password. By removing the need to have separate passwords, the estimated improvement in efficiency is 25 minutes per clinician per day.

7.5.3 Strengthening Consent

The economy is working collaboratively with other LDR footprints including Staffordshire and other midlands based teams. This collaboration includes data sharing agreements and approaches to ensuring consent is valid to be used as part of the integrated care record project and population health management big data project.

The proposed data sharing agreement is being provided by Birmingham who are already sharing records as part of their Your Care Connected programme. The DSA has been shared with and had input from the ICO, the Caldicott 3 panel, with solicitors and Barristers no less than 8 times through various revisions and with the BMA. This DSA will be tailored by local IG teams and taken to each participating organisation for approval including LMCs, Health and Well Being Boards, Patient participation groups and the STP group.

The Data Sharing agreement calls for the use of implied consent using opt out for sharing medical records for direct patient care. In order to have valid implied consent, the economy must have made every effort to inform patients of the sharing and provide them with the ability and means to opt out.

The population health big data project will use opt in consent to ensure that the patient is fully assured that they want to be involved in the project.

7.5.4 Strengthening Governance

The CCGs already use a tool called UAssure which is a web based governance tool which provides evidence for the IG toolkit returns, provides assurance to the boards that they are appropriately managing information assets appropriately and that they are compliant with legislation and cabinet office policy. This tool is web based and includes the ability to record assets such as integrated care records, complete privacy impact assessments, equality impact assessments and identify data flows as well as store the relevant data sharing agreements which legitimate the flow of information. Each asset is automatically risk assessed and any high risk assets are then flagged for audit by the IG team. The system includes role based access, alerts and workflow. Audits are completed at random in the system by the IG teams to ensure compliance.

This system could be used across the local economy by all organisations to ensure the following;

- A consistent level of assurance for all Boards with routine reports on risks.
- For shared assets like ICR, the asset would be listed once and associated with each participating organisation. The asset would then be shown in each participating organisation with a consistent risk score and put into the workflow of the IG team and SIRO for approval.
- Supplementary documentation such as data sharing agreements, privacy impact assessments and so on would be loaded once and appear in all organisations views to ensure consistency. Automated Alerts of expiring documents are sent by the system to all parties to renew the document.
- Audits done by IG on shared assets are visible to all parties who are linked to that asset



The benefits to the economy are therefore;

- Consistent levels of assurance to the relevant Boards
- Reduced risk of Fines by the ICO (Up to £500K per organisation) and consequent loss of public faith by any lost patient or service user's data.
- Efficiency in data entry to the benefit of all those participating organisations
- Efficiency over the previous method of managing information asset management provided by the Dept. of Health. This method remains largely in place throughout the NHS today and is two excel spreadsheets, one for the asset and another for data flows, neither of which provided any real value or assurance to boards that they were compliant with legislation and guidance. Efficiency is estimated at 100 man hours per organisation of circa 2000 staff.

7.5.5 Cyber Security

The internet and digital technologies are transforming our society by driving economic growth, connecting people and providing new ways to communicate and co-operate with one another. The World Wide Web only began in 1991, but today 2 billion people are online – almost a third of the world's population. Billions more are set to join them over the next decade. There are over 5 billion internet-connected devices. \$8 trillion changed hands last year in online commerce. It is therefore no surprise that Cybercrime is a fast-growing area of crime. More and more criminals are exploiting the speed, convenience and anonymity of the Internet to commit a diverse range of criminal activities that know no borders, either physical or virtual, cause serious harm and pose very real threats to victims worldwide.

As we connect digital systems across health and social care organisations, care must be given to the potential threat posed by the weakest point in the system. Use of techniques such as Demilitarized Zones will need to be considered on an economy level.

In computer security, a DMZ or demilitarized zone (sometimes referred to as a perimeter network) is a physical or logical subnetwork that contains and exposes an organization's external-facing services to a larger and untrusted network, usually the Internet. The purpose of a DMZ is to add an additional layer of security to an organization's local area network (LAN); an external network node only has direct access to equipment in the DMZ, rather than any other part of the network.

7.5.6 CareCERT

It is the intention of the economy to engage with the HSCIC Computer Emergency Response Team (CareCERT) to gain advice and oversight on cyber security matters. CareCERT consists of three key services, which support stronger cyber security across health and social care:

- A national cyber security incident management function;
- Issuing national level threat advisories, for immediate broadcast to organisations across the health and social care sector;
- Publishing good practice guidance on cyber security for the health and social care system.

7.5.7 Protecting Business continuity

Ensuring business continuity become ever more important as we introduce more digitised systems.

Despite the reliability of technologies available today, there is always a risk that systems might fail and data may not be available when needed. A pragmatic view needs to be taken to balance risk and probability with effort needed.



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Of primary importance to us is protecting the provision of 'safe care' and so as we embrace on our programme of delivery, we will assess the impact with our services and work with them to ensure that they have considered the business continuity requirements for the most critical areas.

7.6 Infrastructure

We identified within our baseline the current position regarding infrastructure. The table below sets out our plans to improve that position and to exploit the 'paper-free at point of care'

Project	Milestones
Consolidation of Various wi-fi networks across the region	16/17 Each organisation broadcast SSID to other partner organisations
Deployment of Virtual Desktop Infrastructure within Primary Care	16/17 Business case produced 17/18 onwards Procurement and deployment
Underlying resilience of data storage and processing facilities on-site to at least tier 3 assurance.	Providers are currently in the process of reviewing cloud based options.



8.0 Readiness to Proceed - Leadership, Governance and Programme Management

8.1 Clinical Leadership

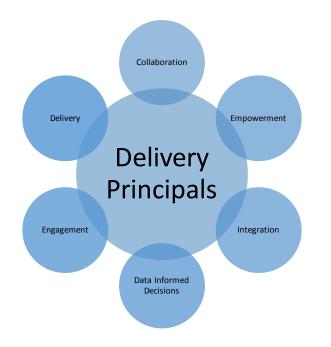
This strategy is supportive of identifying a Chief Clinical Information Officer (CCIO) within each provider organisation to provide clinical leadership and ensure clinical buy-in to developments.

8.2 Programme Governance

Oversight of this Digital Roadmap will be provided by the STP board to ensure there is no ambiguity it terms of what needs to be delivered and when. The governance model is shown within this section. However, we have also agreed across the health economy clear principles that underpin delivery.

8.2.1 Our Delivery Principles

There are 6 core principles that form the foundation of the Local Health Economy Digital Roadmap. These key principles shown in the diagram below will bind together the organisations that form the local health economy delivery team.





Collaboration

We will ensure the continuation and growth of a collaborative and inclusive culture within the local health economy, necessary to ensure we successfully deliver this roadmap.

Empowerment

We will empower patients and clinicians to interact through a variety of appropriate communication channels, including video, social media, email, and telephone, to create a patient owned digital front door that compliments the more traditional face-to-face methods of interaction.

Integration

We will deliver this roadmap by creating a 'Connected Digital Eco-system' ensuring we build on current investment by integrating, as appropriate, local systems to deliver a shared care record for both clinicians and patients that is not limited by organisational boundaries.

Data Informed Decision Making

We will use our digital Eco-system to deliver greater levels of intelligence to our transformation teams to help continuously improve how care is delivered by understanding what is working well, what we might need to change and where we need to focus resources to deliver a healthier population.

Engagement

Engagement with Service Users is key when designing digital solutions to support healthier living. We will do this by working closely with the transformation team and service users to ensure our digital solutions meet expected needs.

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Each organisation commits to the collective realisation of this vision, and that the programme is without boundaries. There is a common agreement that in order to deliver this programme of work capabilities and resources will need to be shared in order to deliver timely capability to the transformation team.

8.2.2 Governance Structure



The STP group shown above has overall responsibility for the STP and LDR. Responsibility for oversight of the implementation rests with the STP group. The responsibility for creation of the LDR is delegated to the LDR This group (previously called the Digital Strategy group which has been in existence for over 2 years) also has responsibility for the implementation of the LDR up to 2020.

The creation of a number of sub groups are necessary to ensure good governance processes are in place.

Information Governance Group

The information governance group will have responsibility for:



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- Creating the data sharing agreement needed by March 2017 to enable data sharing for integrated care record.
- Completing a comprehensive privacy impact assessment for integrated care records
- Agreeing role based access initiatives to be implemented within integrated care system.
- Oversee any IG related issues with any future procurements and ensuring they meet cyber security standards.
- Update the community wide electronic assurance system which provides assurance to each organisations board of compliance with legislative, common law and government policy requirements.

Project Management Office

 The PMO office will coordinate the LDR activities, working across the geography to ensure progress is being made and reported routinely. Where progress is delayed, highlighting this to the LDR steering group and STP group where necessary to redress any delays.

Clinical Reference Group

 This groups membership will change depending on the stream of work being undertaken. In the first instance it is likely to contain clinicians involved in end of life care across the county. This group will help to agree the priority of the development of the EPACCS system and the way in which it is configured to fit with current or enhanced ways of working. It may also contain patient or carer representatives on the group. A CCIO or Senior IT leader will also be part of the group to ensure there is IT expertise present.

Design Authority

This group will be made up of technologists and CCIOs. Its remit will be:

- Quality assure that new systems or standards are fit for purpose, and comply with the standards necessary to maintain a robust, consistent, efficient, effective and integrated technical infrastructure. Standards would include areas such as messaging formats, coding standards, interoperability standards etc. Any organisation wishing to deploy a non-standard solution will need to make a strong case as to why it is necessary.
- **Technical Assurance** To validate changes to technical standards and where validated, pass the recommendation to progress to the PMO.
- **Communication** to ensure that the communications between programmes, projects and teams and others are adequate.
- Alignment of Provider IM&T Strategies To facilitate greater understanding across provider organisations of the overall IM&T requirements to achieve the delivery of the LDR. This will assist individual provider IM&T strategy decisions to take account of the requirements of the LDR.

Patient Engagement and Communication

- This group would be made up of Communication and engagement specialists as well as patient or service user representatives. Their purpose will be:
- Engage with patients and service users to ensure their wishes and aspirations are understood
 - To create a campaign to inform the local population of the integrated care record, making clear the benefits and rationale for why it is happening.

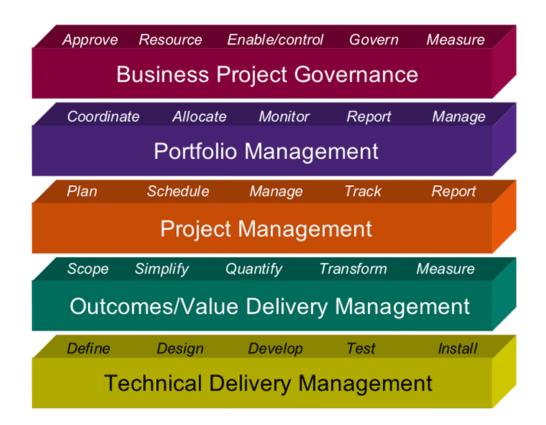


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- Making it clear that patients have the right to opt out of data sharing and how they can do this.
- Attend public meetings and promote the digital programme of Shropshire, Telford and Wrekin
- Encourage patients and service users to opt in to sharing of anonymised data sharing for the population intelligence platform.

8.3 **Programme and Project Management**

The delivery of the digital programme will be based upon a 5 layer, 5 strand top down approach to ensure consistency with the strategic needs and aims of the economy. The governance structure underpinning this programme is shown on page 43.



The delivery of this programme will be managed by the LDP Steering Group and overseen by the 'Sustainability and Transformation' group to which it reports.



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To ensure an appropriate level of control is in place and to align the digital roadmap outputs to the transformation programme, we will adopt both project methods such as PRINCE 2 and MSP for the management of business change.

The overall programme will bring together portfolios of work managed at both an organisation level with those managed at Health Economy level.

Programmes managed at Health Economy level will managed within a number of work streams designed to cover both the National Capability requirements as well as a range of local initiative designed to underpin the STP. To enable operationalisation of a large and complicated volume of work, with each programme reporting back to the Local Digital Roadmap Strategy Group to ensure a continued oversight and ownership.

8.3.1 Benefits Realisation Management

The Sustainability and Transformation Programme will deliver a significant portfolio of benefits, enabled by outputs from this Digital Roadmap.

Benefits Realisation Management process will be used to:

- Identify the investment outcomes
- Define benefit measures for each outcome
- Collect current benefit measure data to have a quantitative basis for decision making
- Agree a tailored BRM approach for this investment
- Plan the new or changed capabilities necessary to realize the benefits
- Plan the investments needed to make the changes necessary to create or change the capabilities



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- Optimize the plan to reduce waste and have acceptable levels of resource, risk, cost, quality and time
- Implement the plan
- Review the impact of the plan implementation on the Benefit Measures and use insights to improve
- On completion of the plan, ensure BRM continues to sustain the capabilities and realisation of benefits

The digital Roadmap will be an integral part of the Transformation and Sustainability programme where programme level benefits will be mapped and managed.

At business case stage, we will ensure that all 'project level' benefits are identified and embedded into the benefits map which will be owned by the transformation programme.

The timely delivery of projects, outputs and benefits either direct or indirect, will be the responsibility of the Digital Roadmap Steering group. However, prioritisation of projects will be set by the Transformation and Sustainability group. This will ensure complete alignment of projects to the programme and the timely delivery of enabling capabilities that will help Business Change Managers deliver transformation and ultimately benefit delivery.

It is worth noting that The Shrewsbury and Telford Hospital are working with the Virginia Mason institute to over 5 years to improve change management processes to support the embedding of technology to maximise benefit delivery. Learning from this will be shared across the programme.



8.4 **Programme Funding**

The level of funding necessary to deliver this LDR will be significant and will require careful financial planning.

It is clear that not all projects within this programme have funding identified and that there is an apparent underinvestment across the whole health economy on IM&T.

The table below shows for 2016/17 the proportion of spend against the overall budget from the returns that we have received to date.

Organisation	IM&T Spend 2016/17	Operating Budget 2016/17	% IMT Spend
Shrewsbury and Telford Hospitals Trust	£1,546,000	£350,000,000	0.4
Rob Jones and Agnus Hunt Orthopedic Hospital Trust	£1,674,000	£101,000,000	1.7
Shropdoc	Missing	Missing	Missing
Shropshire Community Health	£3,000,000	£81,000,000	3.7
South Staffordshire and Shropshire Healthcare NHS FT	Missing	Missing	Missing

The required deliver of IT Capability to the Sustainability and Transformation programme will determine IT spend over the duration of the programme. We will work together with the STP group to ensure that the IT projects within the programme have clearly defined and timely delivered funding streams.



Our expectation is that this programme will be funded by combining resources made available from:

- 1. Current and uplifted IM&T spend
- 2. Innovation challenge funds.
- 3. Our local Sustainability and Transformation programme
- 4. The unlocking of funding from the additional £1.8Billion being made available nationally.
- 5. Reinvestment of efficiencies delivered through the effective use of technology.

8.5 Programme Resourcing

A resource plan is being put together by the STP group to resource both the STP work and the LDR implementation. The resource plan will make use of existing resources where possible, alongside investment from each partner to support the transformation.



Appendices

Appendix 1 – Primary Care Digital Maturity



Appendix 1

CCG Digital Maturity Baseline

	Question	Shropshire CCG	T&W CCG
1	All practices have access to SMS (or equivalent messaging system) integrated with the practice principal clinical system to support communications with patients.	Yes	Yes
2	All NHS owned GP IT equipment is recorded in an accurate asset register.	yes	yes
3	All NHS owned GP IT equipment is subjected to an approved IT reuse & disposal policy and procedures - using authorised contractors. This is fully integrated with the asset management system	yes	yes
4	There is a locally agreed WES (Warranted Environment Specification) for GP IT equipment which enables practices to effectively operate concurrently applications necessary to delivery both core and enhanced GP IT	yes	yes
5	All health & care organisations (including GPS) can access their principal record systems from all local commissioned provider locations.	<25	<26
6	The CCG commissioned service provider for GP IT services will have an annually reviewed tested Business Continuity Plan and validated IT Disaster Recovery Plan for services critical to GP service continuity	Yes	Yes
7	A local Electronic Palliative Care Co-ordination System (EPaCCS) supporting the recording and sharing of people's care preferences and key details about their care at the end of life which is integrated with principal primary care clinical systems and meets the requirements of ISB 1580 (End of Life Care Co-ordination: Core Content) is available.	No	No
8	The practices have access to a formal Clinical Safety System (ISB 160) and qualified clinical safety officer	Yes	Yes
9	All local providers of health & social care sharing patient digital information have systems which maintain a full automated audit of read and write access to individual patient records	Yes	Yes
10	The CCG completes a formal review of the IT Services with each Practice at least once a year.	No	No
11	The commissioned GP IT services include formal P3M (Project, Programme and Portfolio Management) methodologies which are recognised and used in the deployment of GP Clinical systems, local implementation of national solutions and major primary care IT infrastructure changes or upgrades.	Yes	Yes
12	Formal governance arrangements are established which ensure the effective mapping and provision of digital enablers that will support delivery of locally identified health and care priorities. Business cases (where necessary) are shared with, and agreed with relevant partners in the local area. Business cases where required for Informatics-enabled programmes with cross-community impact are approved by a relevant cross-community Board.	Yes	Yes
13	13 All local GPs and providers of health & social care sharing patient digital information agree to a consistent information sharing model (including common consent protocols).	No	No
14	All software (including operating systems) used on NHS owned GP IT infrastructure by the practice must be approved and recorded on a software asset & license register which must confirm the software is appropriately and legally licensed for such use.	Yes	Yes
15	The CCG has appointed a Chief Clinical Information Officer (CCIO) or equivalent accountable officer who will provide (clinical) leadership for the development of local IT strategy including the development of primary care IT services	No	No
16	There is a local GP IT strategy and programme with roadmap annually reviewed and aligned with local commissioning priorities	Yes	Yes



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17a	There is a comprehensive ongoing training and clinical system optimisation service to support GP Principal clinical systems and national clinical services available to all practices.	Yes	Yes
17b	There is support available to all practices for deployment, training, technical issues, tracking database maintenance and supplier liaison and escalation for GPSoC (lot 1) clinical systems.	Yes	Yes
18	GP IT services are commissioned and contracted with robust and clear service specifications.	Yes	Yes
19	All CCG commissioned GP IT support services are supported with KPI reports (at least 4/year) and there are annual service performance and contract review meetings.	Yes	Yes
20	There is a clear agreed local (CCG) budgeted plan for the full funding of all core GP IT requirements for the next 2 years	Yes	Yes
21	The GP IT infrastructure estate supporting core GP IT (includes desktop, mobile, server and network equipment) has a fully documented plan for refresh and replacement. This must include a local WES (Warranted Environment Specification) for such equipment which as a minimum will meet the WES for the principal clinical systems used and any NHS mandated national systems and infrastructure.	Yes	Yes
22	All general practices have secure data storage services available for all electronic data other than that stored in their GPSOC clinical systems and NHS Mail to a standard not less that tier 3 data centre.	No	No
23	CCG Commissioned GP IT support provides consistent support for core GMS contracted hours (0800 - 1830 Mon - Fri excl Bank holidays) (GMS Contract)	Yes	Yes
24	The GP IT support service desk has current formal accreditation through a recognised (industry or NHS) scheme or meets the requirements for GPIT service desk in the GP IT Schedule of Services (GPIT Operating model revised 2016).	Yes	Yes
25	GP IT services available include IT Security advice and oversight, including configuration support, audit, investigation and routine monitoring.	Yes	Yes
26	Where there is a local community network wholly or part funded through GPIT and used in addition to, or in place of, N3 by general practices AND other locations and care settings the costs are shared between these organisations	Yes	Yes
27	CCG Commissioned GP IT support Service supports general practice to provide extended hours (DES) services	Urgent service only	Urgent service only
28	CCG Commissioned GP IT support Service supports general practice to provide 7-day week services to patients where these are offered.	Urgent service only	Urgent service only
29	here is an agreed local strategy and plan for core GP IT infrastructure & software investment to meet the needs of (i) practice organic/incremental growth (ii) practice developments e.g. mergers (iii) significant primary care developments e.g. new builds	Yes	Yes
30	Within primary care locations Wi-Fi access is available to GPs and primary care delivery staff.	No	No
31	Access to Wi-Fi services is available to general practice clinical staff across local commissioned provider locations	No	No
32	There is clearly defined Executive Leadership (CCG) to ensure that digital technology maturity is recognised as a key enabler to achievement of core objectives in the effective commissioning and delivery of quality health and care and future service transformation.	Yes	Yes
33.1	Formal governance and accountability arrangements clearly articulated and embedded, which effectively engage strategic partners, with terms of reference and reporting responsibilities clearly defined, including the following forums/structures:	Yes	Yes
33.2	The commissioner (CCG) owns the strategic digital direction and ensures that this is driven by local commissioning objectives.	Yes	Yes
34.1	Commissioning of clinical services, routinely includes clinical (CCIO) consideration of digital technologies/systems, together with associated benefits.	No	No



Shropshire and Telford & Wrekin

34.2	Service specifications for commissioning of clinical services, include core digital requirements, including, but not limited to data management and reporting, data security, data sharing, systems access, digital technology requirements.	Yes	Yes
35	Clear standing financial instructions must be established between commissioners and delivery organisations. Clear reporting, monitoring and review arrangements established to ensure CCG oversight of GPIT funding and expenditure, with clear escalation points agreed.	Yes	Yes
36.1	CCG has secured a service that meets or exceeds the 'core' standards outlined in the GPIT Operating model/framework with clearly define local IM&T requirements in the form of a detailed service specification that will ensure local IM&T delivery partners are clear on service needs.	Yes	Yes
36.2	Negotiate and contract for IM&T services ensuring value for money through effective use of national framework contract (e.g. Lead Provider Framework - LPF) and procurement mechanisms in accordance with NHSE procurement rules.	Yes	Yes
37.1	The CCG ensures that appropriate IG and information standards/requirements are clearly specified within any local IM&T service specification and associated service level agreement (SLA) and contractual arrangements with IM&T delivery partners. Able to evidence level 2 compliance for commissioned GPIT delivery partners.	Yes	Yes
37.2	Currently NHS England are responsible for commissioning a local IG support service as described in section 6.4 - GPIT Operating Model. GP Practice IGT compliance is being monitored locally to ensure effective delivery of GP IGT support services.	Yes	Yes
37.3	IGT compliance is assured through the standard contractual routes with wider health economy providers.	Yes	Yes
38.1	The CCG as local commissioner, through formal local governance arrangements, is responsible for ensuring benefit realisation from local investment in digital technology.	Yes	Yes
38.2	Benefits are explicitly defined, tracked and captured within individual projects.	No	No
39	CCGs have appropriate mechanisms in place to effectively manage risks and issues in accordance with system wide procedures to help ensure the safe and successful delivery of outcomes associated with digital investment.	Yes	Yes
40	CCGs actively promote take up and utilisation of national strategic systems, such as SCR, e-Referrals, GP2GP, EPS2, Patient Online, to enable more integrated care across all care settings and achieve operational benefits for patients and clinicians.	Yes	Yes
41.1	There is a comprehensive data quality advice and guidance service is available to all GPs, including training in data quality, clinical coding and information management skills.	No	No
41.2	A formal and structured data quality accreditation programme is commissioned by the CCG and available for GP sites to ensure continuous review and improvement of data quality within General Practice.	No	No
41.3	Calculating Quality Reporting Service (CQRS), General Practice Extraction Service (GPES), A proactive support service is in place locally to support Quality and Outcomes (QOF) data collection and reporting, which includes review, report management and remedial action planning, particularly around exception reporting, to ensure appropriate data quality within GP sites to enable effective QOF reporting.	Yes	Yes

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Shropshire and Telford & Wrekin

Acronym	Term
5YFV	Five Year Forward View
AoMRC	Academy of Medical Royal Colleges
API	Application Program Interface
BRM	Benefits Realisation Management
CCG	Clinical Commissioning Group
CDA	Clinical Document Application
CERT	Computer Emergency Response Team
COIN	Community of Interest Network
CSP	Cyber Security Programme
CSU	Commissioning Support Unit
DM+D	Dictionary of Medicines and Devices
DMZ	Demilitarized Zone
DNR	Do Not Resuscitate
DPA	Data Protection Act
DSA	Data Sharing Agreement
DXA	Data Exchange Agreement
EDT	Electronic Document Transfer
EHR	Electronic Health Record
EPaCCS	Electronic Palliative Care Communication System
EPS	Electronic Prescription Service
EPS FMD	Falsified Medicines Directive
FPN GP	Fair Processing Notice General Practice
GP2GP	Primary Care Medical Record Transfer
HGL	Healthcare Gateway Limited
HL7	Health Level 7
HRG4	Healthcare Resource Groups version 4
HSCN	Health and Social Care Network
IaaS	Infrastructure as a Service
ICD10	International Statistical Classification of Diseases version 10
ICO	Information Commissioners Office
IG	Information Governance
ITIL	Information Technology Infrastructure Library
ITK	Interoperability Toolkit
IGT	Information Governance Toolkit
IOM	Institute of Medicine
LAN	Local Area Network
LDR	Local Digital Roadmap
MESH	Messaging Exchange for Social Care and Health
MIG	Medical Interoperable Gateway
OSI	Open Systems Interconnection
NIS	National Identity Service
PIA	Privacy Impact Assessment
PSN	Public Sector Network
RBAC	Role Based Access Control
RIM	Reference Information Model

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Shropshire and Telford & Wrekin

SaaS	Software as a Service
SDIP	Service Development Improvement Plan
SOC	Security and Operations Centre
STP	Sustainability and Transformation Planning
TRUD	Technology Reference data Update Distribution
VDI	Virtual Desktop Infrastructure
VOIP	Voice Over Internet Protocol
WAN	Wide Area Network
WMAS	West Midlands Ambulance Service
XML	Extensible Mark-up Language

Local Digital Roadmap

Shropshire HWB – 28th July 2016

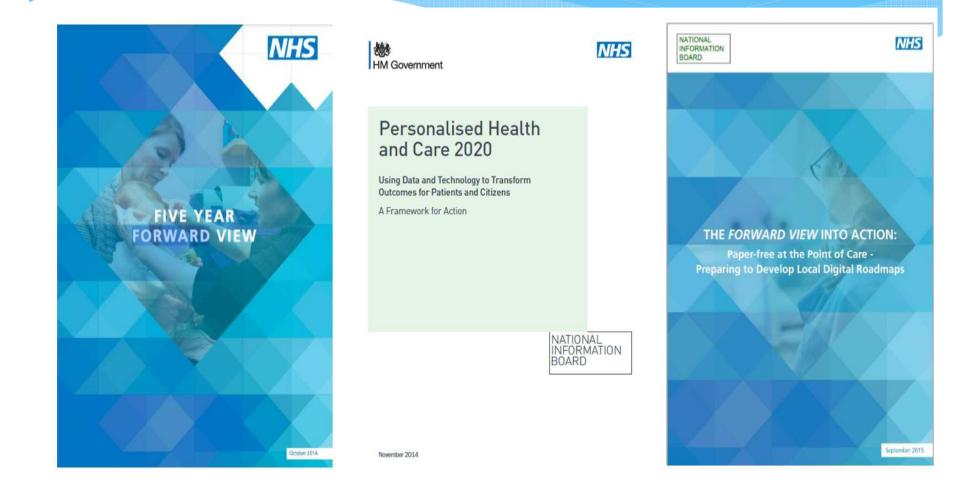


NHS Shropshire Clinical Commissioning Group

Objectives

- 1. Paper-free at the point-of-care (by 2020)
- 2. Digitally-enabled self-care
- 3. Real-time analytics at the point of care
- Whole system intelligence to support population health management and effective commissioning, clinical surveillance and research

Policy Context



Electronic Health Record

"Electronic Health Record is no longer a digital typewriter but an interactive medium for practicing medicine (and delivering care) based on the highest standards in the world."

What it means

AS A HEALTH AND CARE PROFESSIONAL, **PAPER-FREE WILL MEAN I CAN:**



"Having the ability to quickly access an individual's medical history will enable me as a paramedic attending a call to make informed decisions when responding to an emergency." Paramedic

"I want to use the IDCR to access real-time patient information at the scene. Amongst other information, I need to be aware of a patient's allergies and adverse reactions, particularly when handing over to hospital care." Paramedic

"I need to receive referrals guickly, in a consistent manner and be able to access all other relevant information." Social Worker

"I want to know how much social care support a patient has received or is due to receive and ensure this complies with their care plan." GP

"Working in a busy hospital I want to guickly access a patient care record that is complete and up to date." Nurse

"Awareness of any known allergies or reactions will ensure patients in my care are not administered medication that may endanger their health." Hospital Nurse

"I want to look up a child's living conditions before making a home visit. I want to be able to identify any health or care related indicators that include siblings in care, drug or alcohol misuse, domestic abuse that might signal a need for social care support or interventions." Children's Social Worker

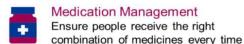


Records and Support Plans

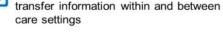
Capture information electronically for use by me and share it with other professionals through the Integrated Digital Care Record



Asset & Resource Optimisation Increase efficiency to significantly improve the quality and safety of care



Medication Management Ensure people receive the right





Decision Support

Transfer of Care

Receive automatic alerts and notifications to help me make the right decisions

Use technology to help me seamlessly

Remote & Assistive Care

Use remote, mobile and assistive technologies to help me provide care



Governance and Strategic Alignment

- * STP is governance body for Digital Strategy Group
- Strategic alignment of digital strategy with STP & Future Fit vision

Developmental Stages

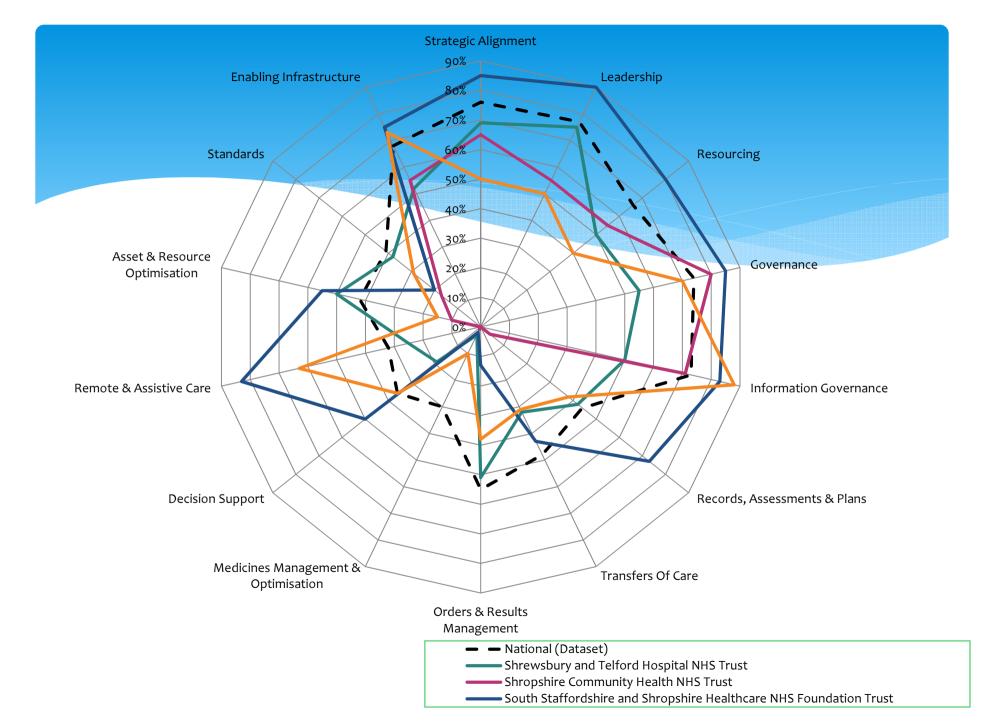
- * Local Digital Footprint submitted 30 October 2015
- * Digital Maturity Index submitted 31 March 2016
- * Local Digital Roadmap submitted 30 June 2016

Local Digital Footprint

- * Shropshire CCG (lead CCG)
- Telford and Wrekin CCG (support CCG)
- * Shropshire Council
- * Shropshire Health and Wellbeing Board
- * Telford and Wrekin Council
- * Telford and Wrekin Health and Wellbeing Board
- * Shrewsbury and Telford Hospital NHS Trust
- * Royal Jones and Agnes Hunt Orthopaedic Hospital NHS Trust
- * Shropshire Community Health NHS Trust
- * South Staffordshire and Shropshire Healthcare NHS Trust (SSSFT)
- * Shropdoc
- * Nursing homes SPIC
- * Severn Hospice
- * Hope House Children's Hospice
- * West Midlands Ambulance Service

Digital Maturity Index: Start point - Where we are

Digital Maturity Assessment - Summary Scores								
Rank		National	Shrewsbury and	Shropshire	South Staffordshire	The Robert Jones &	Average	Variance
Ndlik		(Average)	Telford Hospital NHS	Community Health	and Shropshire	Agnes Hunt	Avelage	Valialice
1	Remote & Assistive Care	32%	25%	0%	83%	63%	43%	11%
2	Information Governance	73%	50%	71%	83%	88%	73%	0%
3	Governance	74%	55%	80%	85%	70%	73%	-1%
4	Enabling Infrastructure	68%	52%	55%	75%	73%	64%	-4%
4	Records, Assessments & Plans	44%	42%	4%	73%	38%	39%	-5%
6	Strategic Alignment	76%	69%	65%	85%	50%	67%	-9%
7	Leadership	77%	75%	55%	90%	50%	68%	-10%
7	Asset & Resource Optimisation	42%	50%	10%	55%	15%	33%	-10%
9	Resourcing	66%	50%	55%	80%	40%	56%	-10%
9	Decision Support	36%	19%	0%	50%	36%	26%	-10%
11	Standards	41%	38%	17%	20%	29%	26%	-15%
12	Transfers Of Care	48%	32%	0%	43%	31%	27%	-22%
13	Medicines Management & Optimisation	30%	3%	1%	2%	10%	4%	-26%
14	Orders & Results Management	55%	51%	0%	13%	38%	26%	-30%
	Average	54%	44%	30%	60%	45%	45%	10%



LDR Vision

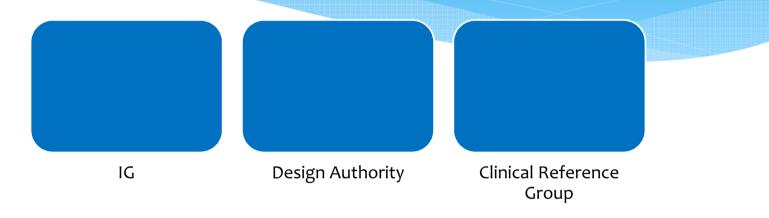
By 2020 we aim to have:

- * An integrated care record across our economy (starting with end of life by March 2018).
- * Patients as co-authors of their record. Contributing and interacting with their record, approving access, booking appointments, ordering repeat prescriptions etc.
- * Data Sharing agreements in place to enable our vision of a paperless NHS at the point of care. Agreements to be in place by March 2017.
- * Universal capabilities significantly delivered by March 2018.
- * Tele Health at scale 2016-2020.
- * Collaboration locally and regionally standards, infrastructure, procurements, large projects like big data population health analytics.

Universal Capabilities

- 1. Professionals across care settings can access GP-held information on GPprescribed medications, patient allergies and adverse reactions
- 2. Clinicians in U&EC settings can access key GP-held information for those patients previously identified by GPs as most likely to present (In U&EC)
- 3. Patients can access their GP record
- 4. GPs can refer electronically to secondary care
- 5. GPs receive timely electronic discharge summaries from secondary care
- 6. Social care receive timely electronic Assessment, Discharge and Withdrawal Notices from acute care
- 7. Clinicians in unscheduled care settings can access child protection information with social care professionals notified accordingly
- 8. Professionals across care settings aware of end-of-life preference information
- 9. GPs and community pharmacists can utilise electronic prescriptions
- 10. Patients can book appointments and order repeat prescriptions from their GP







Patient Engagement and Comms

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