Data Protection Impact Assessment

Article 35 of the General Data Protection Regulation 2016 (GDPR) requires that a Data Protection Impact Assessment (DPIA) is undertaken where there are 'high risks to the rights and freedoms of natural persons resulting from the processing of their personal data'.

The use of Privacy Impact Assessments has become common practice in the NHS and DPIAs build on that practice. The GDPR identifies a number of situations where the processing could be considered high risk and where a DPIA is a legal requirement, including:

- a) profiling and automated decision making
- b) systematic monitoring
- c) the use of special categories of personal data including sensitive data (health and social care)
- d) data processed on a large scale
- e) data sets that have been matched or combined
- f) data concerning vulnerable data subjects (includes processing where the Controller could be seen to demonstrate an imbalance of power over the data subject e.g. Employer and Employee
- g) technological or organisational solutions
- h) data transfer outside of the EU and

i)processing which limits the exercising of the rights of the data subject

The simple screening questions (below) should be completed for **every** project / proposal - any 'Y' yes answers indicate a DPIA is probably required..

Screening questions

Will the processing involve a large amount of Υ It will affect health and social care service personal data and affect a large number of data users across BaNES, Swindon and subjects? Wiltshire ('BSW'). Υ Will the project involve the use of new The project will involve the use of technologies? systems and data sharing protocols that are new to Data Controllers in BSW. Whilst most technologies are likely to have already been 'tried-and-tested' (so may not be considered 'new') it is safer to assume at the outset that new technologies may be introduced. Υ Is there the risk that the processing may give rise to There is a risk that without appropriate discrimination, identity theft or fraud, financial loss, due care/diligence, such risks could be damage to the reputation, loss of confidentiality of introduced. personal data protected by professional secrecy (e.g. health records), unauthorised reversal of pseudonymisation¹, or any other significant economic or social disadvantage?

¹ 'pseudonymisation' means the processing of personal data in such a manner that the personal data can no longer be attributed to a specific data subject without the use of additional information, provided that such Data Protection Impact Assessment

Is there the risk that data subjects might be deprived of their rights and freedoms or prevented from exercising control over their personal data?	N	There are no objectives within the project that should deprive individuals of their rights as a 'data subject'.
Will there be processing of genetic data, data concerning health or data concerning sex life?	Y	Processing of data that concerns health will be central to the project.
Are the data to be processed revealing racial or ethnic origin, political opinions, religion or philosophical beliefs, or trade union membership?	Y	It is likely that data relating to racial or ethnic origin and religion will be processed as it will affect the management of care and is essential to population health analytics and improving access to care services.
Will there be processing of data concerning criminal convictions and offences or related security measures?	Y	It's possible that such information will be included in safeguarding concerns/alerts.
Will personal data of vulnerable natural persons, in particular of children, be processed?	Y	Processing will include the personal data of vulnerable natural persons.
Will personal aspects be evaluated, in particular analysing or predicting aspects concerning performance at work, economic situation, health, personal preferences or interests, reliability or behaviour, location or movements, in order to create or use personal profiles?	Y	It is likely that service users' personal data will be analysed, with risk scores applied or to inform risk stratification initiatives.
Will the project include a systematic and extensive evaluation of personal aspects relating to natural persons which is based on automated processing, including profiling, and on which decisions are based that produce legal effects concerning the natural person or similarly significantly affect the natural person (e.g. a recruitment aptitude test which uses pre-programmed algorithms and criteria)?	N	The project is not expected to include the development of any processing that would result in decisions being made without human intervention.
Will there be a systematic monitoring of a publicly accessible area on a large scale (e.g. CCTV)?	N	This is not applicable.

A DPIA is designed to describe the processing, assess the necessity and proportionality of the processing and to help manage the risks to data subjects. DPIAs are also important tools for demonstrating accountability, as they help controllers to comply with the requirements of the GDPR. Under the GDPR, non-compliance with DPIA requirements can lead to fines imposed by the Information Commissioners Office (ICO); this includes not carrying out a DPIA, carrying out a DPIA in an incorrect way or failing to consult the ICO where required.

additional information is kept separately and is subject to technical and organisational measures to ensure that the personal data are not attributed to an identified or identifiable natural person

Background Information						
Project/Activity	Integrated Care Reco	rd [ICR]	Date of DPIA	August 2020		
Name:	extension & Analytics	extension & Analytics use submission:				
Project/Activity		Project/Activity Leads				
Leads Name:	Chief Finance Officer	Contact [Details:			
Sponsor (e.g. Project Board):	BSW Digital Board	Lead Org	anisation:	BSW CCG		

Name of individual submitting this DPIA/Key contact:

Confirm that BSW CCG's Data Protection Officer has been informed of this DPIA and the date:

Shared on 18/06/2020 -

Brief description of proposed overall activity and activity period:

Development of BaNES, Swindon and Wiltshire Population Health Management system.

Background: Why is the new system/change in system/sharing of information/data processing required? The new processing will enable improvements to the provision of safe and effective care; ensuring best use of public monies to meet the needs of the BS&W population and efficient interagency working.

Does the delivery of the project involve multiple organisations? If yes – please name them, and their project lead details:

Royal United Hospital Foundation Trust	Already In Scope
Avon & Wiltshire Mental Health Partnership NHS Trust	Already In Scope
BaNES Local Authority	Already In Scope
Virgin Care	Already In Scope
Dorothy House Hospice	Already In Scope
Wiltshire CCG	Phase 1
Swindon CCG	Phase 1
Salisbury Foundation Trust	Phase 1
Great Western Hospital	Phase 1
Medvivo (Out of Hours & 111)	Phase 1
Vocare (111)	Phase 1
Wiltshire Health and Care	Phase 1
Swindon Hospice	Phase 1
Wiltshire Hospice	Phase 1
Wiltshire Local Authority	Phase 1
Swindon Local Authority	Phase 1
Oxford CAMHS	Phase 2
CHIS	Phase 2
St Peters Hospice	Phase 2
3rd Sector	Future Consideration

Also c.95 General Practices in Phase 1

Other Key Stakeholders and consultees:

Wessex LMC

General Practices' DPO (Medvivo)

Does the DPIA link to any procurement activity? What stage of the procurement are you at? Yes, the procurement of a preferred supplier has concluded.

Does the project link to any other project management activity?

No, N/A

Where the DPIA relies upon documents submitted as part of PMO activities, please detail them

here and attach them as part of your submission:

N/A

Has anything similar been undertaken before? If yes please detail:

Yes, on a smaller, fragmented basis. The platform is expected to enable a more economical, streamlined, easier way to generate reports. The system supplier has also supported the implementation of a PHM in other regions of the UK.

1. Information/Data – categories/legal basis/collection/flows/responsibility

(you should be able to complete this part of the DPIA from existing project plans/commissioning plans or other activity outcome document)

1.1
What category/ies of data/information will be used as part of this proposed activity? (indicate all that apply)

	Y/N	Complete first
Personal Data	Υ	1.2
Special Categories of Personal Data	Υ	1.2
Commercially Confidential Information	Υ	Consider if a DPIA is appropriate
Personal Confidential Data	Υ	1.2
Sensitive Data (GDPR definition Article 10)	N	
Pseudonymised Data	Υ	1.2
Anonymised Data	Y	Consider at what point the data is to be anonymised
Other (please detail)		

1.2 What conditions for processing are you proposing to rely upon to process this Data/Information?

Article 6 of the GDPR conditions for processing	Y/N
are as follows:	
a) The Data Subject has given explicit	Possible
consent	
Complete section 1.3 to 1.5 below	
b) It Is necessary for the performance of a	N
contract to which the data subject is	
party	
Give details of the contract in 1.6 below	
c) It is necessary under a legal obligation to	Possible
which the Controller is subject	
Give details of the legal obligation in 1.7	
below	
d) It is necessary to protect the vital	N
interests of the data subject or another	
natural person	
Describe the circumstances where this	
would apply in the context of this	
DPIA/project in 1.8 below	
e) It is necessary for the performance of a	Y – this will be a primary lawful condition for the
task carried out in the public interest or	majority of organisations processing data
under official authority vested in the	through the PHM
Controller	
Give details of the public interest task or	
details of where the Controller derives their	
official authority from in 1.9 below	
f) It is necessary for the legitimate interests	No
of the Controller or third party (can only	

be used in extremely limited circumstances by Public Authorities and must not be used for the performance of the public tasks for which the authority is obligated to do)

Give explicit detail in 1.10 as to the legitimate interest if you are completing on behalf of a Public Authority

1.3 - complete if relying on 6(a) above

Why are you relying on explicit consent from the data subject?

This may be the basis for research, where other lawful bases are not more appropriate (e.g. Article 6, 1(e) and Article 9, 2(j))

6 1(a) would only apply if it was records based research where the consent to participate is the consent to use the data (as it would be a single choice). Consent to participate in active research would not use consent as the basis for data processing (as if someone wants to participate, their data has to be used)

1.4 - complete if relying on 6(a) above

What is the process for obtaining and recording consent from the Data Subject? (how, where, when, by whom)

Include proposed consent form for review:

To be developed. It is expected, at this stage, that the consent form will only be used for research purposes (see 1.3).

1.5 - complete if relying on 6(a) above

How do the proposed consent statements comply with Data Protection Legislation requirements including the right to withdraw consent and how they can do this? (there is a checklist that can be used to assess this)

To be developed if and when required

1.6 – complete if relying on 6(b) above

What contract is being referred to?

1.7 - complete if relying on 6(c) above

Identify the legislation or legal obligation relied upon for processing

The PHM supports access where there is a legal requirement to share information (i.e. to safeguard a child or respond to a Court Order)

1.8 - complete if relying on 6(d) above

How will you protect the vital interests of the data subject or another natural person?

1.9 - complete if relying on 6(e) above

What statutory power or duty does the Controller derive their official authority from?

Refer to the 'General Legal Gateway Matrix' - also from the legal basis establishing the CCG's powers (see NHSE Secondary Use Data Governance Tool - https://data.england.nhs.uk/sudgt/activities

1.10 - complete if relying on 6(f) above

What is the legitimate interest relied upon? See guidance for further information on where this can be used.

1.11 If using special categories of personal data, a condition for processing under Article 9 of the GDPR must be satisfied in addition to a condition under Article 6.

Article 9 conditions are as follows:	Y/N
a) The Data Subject has given explicit	Possible for research purposes
consent	
 b) For the purposes of employment, social security or social protection 	N
c) It is necessary to protect the vital interests of the data subject or another natural person where they are physically or legally incapable of giving consent	N
d) It is necessary for the operations of a not-for-profit organisation such as political, philosophical, trade union and religious body in relation to its members	Not applicable
e) The data has been made public by the data subject	Not applicable
f) For legal claims or courts operating in their judicial category	Possible that access to PHM is used for the purpose of the defence of a legal claim
g) Substantial public interest	Possible but likely that this would fall into another Art 9 condition
h) processing is necessary for the purposes of preventive or occupational medicine, for the assessment of the working capacity of the employee, medical diagnosis, the provision of health or social care or treatment or the management of health or social care systems and services on the basis of Union or Member State law or pursuant to contract with a health professional and subject to the conditions and safeguards referred to in paragraph 3 (see note below)	Yes – this is the primary lawful condition for the majority of access to the PHM to support delivery of safe and effective care
i) processing is necessary for reasons of public interest in the area of public health, such as protecting against serious cross-border threats to health or ensuring high standards of quality and safety of health care and of medicinal products or medical devices, on the basis of Union or Member State law which provides for suitable and specific measures to safeguard the rights and freedoms of the data subject, in particular professional secrecy	Possible – likely to be used as a condition for processing in such circumstances as contact tracing should an individual be diagnosed with, for example, Covid-19 or Ebola

1.12

What is the purpose for using this data/information?

To support delivery of safe and effective care, but also enable data analysis to monitor population need, support public health initiatives and prevent outbreaks of infection.

1.13

Are any of the data subject to a duty of confidentiality (e.g. clinical records, OH details, payroll information)? If so, please specify them.

Yes, clinical records.

1.14

If the processing is of data concerning health or social care, is it for a purpose other than direct care?

Yes, it is to be analysed to determine population needs and support wider public health initiatives.

1.15

What is the scale of the processing (i.e. (approximately) how many people will be the subject of the processing)?

c.900,000 (the population of BSW on the assumption that most will be registered with a General Practice and so information processed as part of the PHM)

1.16

How is the data/information being collected?

(e.g. verbal, electronic, paper)

Electronic – from sharing partners' source systems

1.17

How is the data/information to be edited?

No data will be edited from the PHM.

1.18

How is the data/information to be quality checked?

Records will be linked by NHS Number and Spine Demographics Reporting Service (SDRS). Checks at source (data sharing partners' responsibility). The platform will not land data on top of other data; which would highlight discrepancies.

1.19

What business continuity or contingency plans are in place to protect the data/information? Organisations will have their own plans, however, PHM system supplier provides resilience.

1.20

If required, what training is planned to support this activity?

User guides / guick reference guides to be produced to support the correct use of the PHM.

1.21

Who is responsible for the data/information i.e. who will be the Controller/s?

(You may need help from the SCW Information Governance Manager to assist you with this part of the DPIA).

As detailed within the Programme's Data Sharing Agreement, BSW CCG is the data controller for the processing activities to establish the PHM platform and for the uses of the data on the three datasets (anonymised, pseudonymised and identifiable)

1.22

Identify any other parties who will be subject to the agreements and who will have involvement/share responsibility for the data/information involved in this project/activity.

As per 1.21

Also, Graphnet are contracted processor (as system supplier)

1.23

Name the Data Custodian/Information Asset Administrator and Information Asset Owner supporting the project/area/team this activity relates to?

Jason Young, CIO of BSW CCG will be the Asset Owner of the PHM.

The CCG will be responsible for managing system access.

2. Information/Data – linkage/sharing/flows/agreements/reports/NHS Digital

(you may need help from Information Governance, and Business Intelligence or Data Management support team to assist with this part of the DPIA)

2.1

Please detail any proposals to link data sets in order to achieve the project/activity aims? Please detail the data sets and linkages.

Data from multiple health and social care systems will be linked by NHS number and SDRS. Further details in 2.2 in terms of data sets and linkages.

2.2

What are the Data Flows?

(Please detail and/or attach a data flow diagram)



Annex 2 - Graphnet

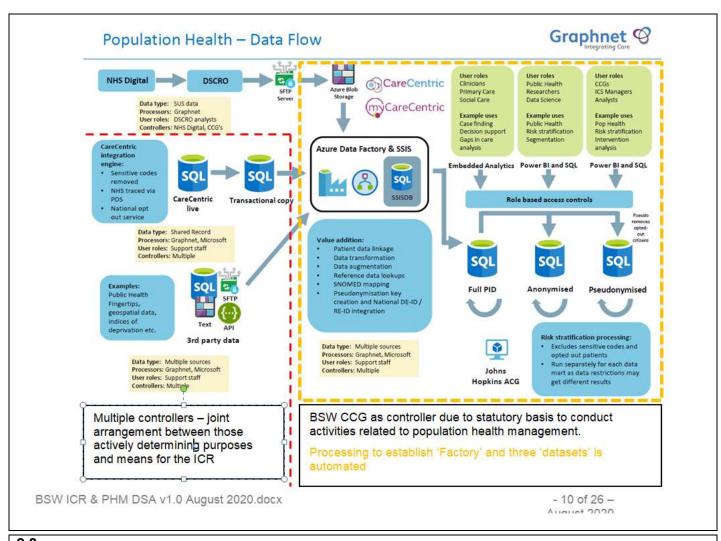
Tabled data feeds included in Annex 2 of contract between CCG and system supplier)



data feed

timeframes_v4.docx (Local data feed planned time line)

The diagram below illustrates the data processing for Population Health Management.



2.3 What are you proposing to share as a result of this activity? If so please detail all of the following;

- > What data/information is being shared?
 - Health and Social Care records from multiple agencies.
- Why is this data/information being shared?

To support population health management;

- to ensure health and social care staff have access to a comprehensive, up-to-date and accurate source of information to best inform care decisions,
- to focus/manage services/resources to best effect,
- to use secure, auditable systems to share sensitive information, and,
- ensure public monies are used efficiently (reducing staff time and service overheads).
- Who are you sharing with?
 - Multiple agencies within the health and social care community.
- How will the data/information be shared?
 - Through role-based access to an intelligence platform for population health management.

2.4

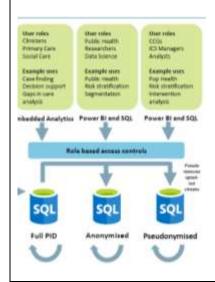
What data sharing agreements are or will be in place to support this sharing?

There will be a DSA that covers the population health management platform.

2.5

What reports will be generated from this data/information?

It will be possible to generate different reports, initially to replicate/replace those produced under established Insights Population Analytics agreements through the PHM platform. The CCG will operate a request/approval process (mini DPIA) to manage use of the data, this process will identify the most appropriate data source for any analytical activity. Reports will be subject to RBAC. Illustrated below:



2.6

Does this activity propose to use Data that may be subject to or require approval from NHS Digital? SDRS link will need approval.

There will in time be inclusion of SUS data from NHS Digital, which will require review and potential amendment to the DSA that NHSD has with BSW CCG.

2.7

If using NHS Digital data, is the new use covered by the purposes agreed under the existing Data Sharing Agreement?

SUS is on the development roadmap but not at launch. IPA/Graphnet will dual run initially. If SUS data to be used in PHM, then amendment to NHSD DSA is likely to be required.

2.8

Is any of the data involved subject to National Data Opt out provisions? If so detail what data and describe how the 'opt outs' apply and have been observed.

System supplier will pick up National Data Opt outs, as illustrated in the PHM dataflow diagram and these will be observed:

The CareCentric Population Health Management platform has the ability to utilise the both the national Opt Out service or GP coded opt outs via configuration options. This is because is it currently in transition between systems. Opted out patients are excluded from the pseudonymised data mart by default.

Two data fields are present on the Patient data table for use in analytics:

OptedOutType2Flag - National Opt out status that is pulled from the CareCentric database when national opt out integration functionality is present and active.

CodingOptOutFlag - Derived based upon clinical coding Opt out / Opt in codes from GP coding (configurable).

Where a patient's GP record has the opt out flag noted, then the GP data in the ICR will be deleted and any other data on the patient suppressed from access and will not be copied into the PHM platform.

3. Information/Data – Security

(you may need help from IT or Information/Cyber Security specialists to assist with this part of the DPIA)

3.1

Are you proposing to use a third party/processor/system supplier as part of this project/activity? If so please detail the name and address of the Processor:

Graphnet (part of the System C and Graphnet Care Alliance), System C Healthcare Limited, Maidstone Studios, Vinters Business Park, New Cut Road, Maidstone, Kent, ME14 5NZ

GP data is to be extracted via the Strategic Reporting Extract tool available to BSW CCG. BSW CCG will act as processor for the practices to extract, amalgamate and transfer the GP data to Graphnet.

3.2

Has the third party/processor/system supplier met the necessary requirements under the GDPR? A checklist is available as part of the framework document.

The supplier has completed the <u>Data Security and Protection Toolkit</u> self-assessment, which indicates that they have met the mandatory standards and reflects that the supplier has met the necessary requirements under the GDPR. This is based on latest submission published on 31st March 2020.

Graphnet also have ISO27001 and Cyber Essentials accreditations.

BSW CCG (processing GP extracts) merged from three individual CCGs in April 2020. The previous three CCGs submitted 'standards met or exceeded' DSPT assessments at the end of March 2020.

3.3

Is the third party/processor/system supplier registered with the Information Commissioner?

Yes, registration number: <u>Z5426100</u> (expires 03rd June 2021) BSW ICO registration:ZA703044 (expires 31st March 2021)

3.4

What IG assurances has the third party/processor/system supplier provided (e.g. in terms and conditions/contract/tender submission)?

Contract in place with appropriate clauses included (reviewed by project Information Governance SMEs) DSPT assurance (ref 3.2)

System security assurances provided by system supplier (see 3.11 & 3.13).

3.5

Provide details of the Data Security Protection Toolkit compliance level of the third party/processor/system supplier?

See section 3.2

3.6

How will the data/information be stored?

Data will be stored in the existing instance provided to BaNES which is a cloud based solution maintained and managed by Graphnet (Microsoft Azure Cloud platform – see 3.10).

GP extracts will be stored temporarily on private network created for GP data prior to this project by Swindon CCG and has been subject to DPIA on that network.

3.7

Where will the data/information will be stored? (Include back-ups and copies) See 3.6 & 3.10.

3.8

How is the data/information accessed?

PHM will be access via a portal.

3.9

How will user access be controlled and monitored depending on role?

Auditing/monitoring will be established with reports available to organisations to audit the access of their users.

BSW are provided with a dedicated Cloud Security Access Service desk. This service desk is used to both request, track, change and retire user access to the solution. There are two basic levels to the requests:

- IP Whitelisting to be able to talk to the solution
- Accounts to gain access to parts of the solution and to specify RBAC required.

The CareCentric Population Health platform offers multiple options in terms of access management. There are likely to be a large number of users who require access to analytical outputs who do not require access to the ICR as they are either non-clinical or in more oversite roles such as a CCGs Business Intelligence or Public Health. The options are:

- The security RBAC permissions can be inherited from the ICR.
- A completely separate RBAC model can be established
- A combination of the above can be used.

The ability to gain a login to the system is dependent on the user being authorised to do so by a Trust authority nominated person who must authorise a login request and define the organisation a user can see before they are given access.

The PHM portal system roles are:

Security Role	Description
Anonymised Data Mart User	Anonymised Data Mart User read only access
Customer Owned Database Admin	Customer Owned Database Administrator access
Customer Owned Database User	Customer Owned Database User read only access to all data
Direct Care Data Mart CareCentric Security Mapped User	Direct Care Data Mart security mapped to CareCentric role
Direct Care Data Mart User - Full PID	Direct Care Data Mart full patient identifiable read only access to all data
Non standard group	Non standard security group required please be specific in description
Power BI Pro developer licence	Microsoft Power BI professional developer licence assigned to user (annual cost will apply). Please state workspace user should be assigned to.
Power BI viewing access	Power BI viewing access, Please state workspaces user should be assigned to.
Pseudonymised Data Mart User	Pseudonymised Data Mart User read only access
User Group Access	Access to User Group Microsoft Teams Site
WebClient Admin	Administrative access to BI Webclient
WebClient Read Only	Read only access to BI WebClient

The Population Health Management portal access will be managed in accordance with the following protocol:



Requesting and managing access-v15

3.10

As part of this work is the use of Cloud technology being considered either by your own organisation or a 3rd party supplier? If yes please complete the additional cloud computing questionnaire available within the framework

YES – supplier utilises the Microsoft Azure cloud computing platform (UK Based) which meets a broad set of international and industry-specific compliance standards, such as ISO/IEC 27001/27002:2013, The Health Insurance Portability and Accountability Act (US legislation) and Federal Risk and Authorization Management Program (US government-wide program). Microsoft adheres to the ISO/IEC 27018 code of practice, covering the processing of personal information by cloud service providers.

3.11

What security measures will be in place to protect the data/information (include physical, electronic etc.) A checklist is available as part of the framework document.

System supplier confirmed:

Customer environments are protected using the following – in this context BSW and BaNES together are the "customer":

- Web Application Firewalls are deployed at the perimeter of the application and within the application Network Security Groups are used to further protect the data. IP whitelisting is used to restrict access to the external interfaces.
- Anti-virus is deployed within the application.
- Data in transit, both externally and internally within the application, is protected using TLS 1.2 (or later) with 2,048-bit RSA/SHA256 encryption keys, as recommended by CESG/NCSC.
- All SQL data is encrypted by default using TDE with keys managed by Azure strong key encryption. Other data is also encrypted at rest.
- Strong passwords and MFA are required to access customer environments.
- Graphnet have a program of annual independent pen testing by CHECK/CREST approved testers

- and internal vulnerability scanning, incorporating the OWASP "Top Ten" principles.
- Customer data is backed up nightly.
- Each customer's application is contained within its own Azure subscription and is therefore isolated from other customers. The management of the application is therefore kept separate from other customers also.
- The application environment is monitored for environmental activity (e.g. low disk space, high CPU etc) and Azure security.
- To identify new threats Graphnet monitors NHS CareCERT, US-CERT and other industry sources for information regarding threats, vulnerabilities and exploits. These are assessed weekly and any high risk ones may be subject to emergency patching. Threats are managed through a regular cycle of patching for the laaS elements. The Microsoft Azure platform handles the patching of the hardware infrastructure and PaaS components.
- Graphnet use UK based Microsoft Azure Tier 4 data centres that are highly secure and resilient, operating at TIA942 Tier 3 equivalence and Azure datacentres are engineered to provide 99.999% availability.
- Each Azure facility is designed to run 24x7x365 and employs various industry-standard measures
 to help protect operations from power failure, physical intrusion, and network outages. These
 datacentres comply with industry standards, such as ISO 27001, for physical security and
 availability. They are managed, monitored, and administered by Microsoft operations personnel.

Azure is audited once a year for ISO/IEC 27001, ISO/IEC 27017, and ISO/IEC 27018 compliance by a third party accredited certification body, providing independent validation that security controls are in place and operating effectively. Trust Center section for ISO certification here: https://www.microsoft.com/en-us/trustcenter/compliance/iso-iec-27001.

See the following for further information on the security of the Cloud storage:



CareCentric Cloud Assurance.pdf

For the CCG processing the GP data extract, the following is extracted from the Data Processing Agreement:

The CCG will hold the data on the Swindon Primary Care network run by the CCG, which is separate from the CCG's own network and specifically established for practice support activities. The data will be on a separate machine just for this purpose (a virtualised gateway PC). This is stored on the Azure platform already in place for the Primary Care Network and has been subject to its own specific Data Protection Impact Assessment and is already in use to provide networks for practices. This will only be accessible to a short list of approved CCG staff to manage the data processing.

3.12

Are you transferring any data outside of the UK?

No

3.13

What System Level Security Policy is in place or required?

The product complies with ISO27001 and aligns with ISO27018 and for CareCentric this includes controls covering:

- authentication includes strong passwords and password lockout
- multifactor authentication for technical support staff
- RBAC access control

- system recovery and resilience, backups and BCP/DR (clinical data back up every 24 hours)
- anti-virus
- firewall protection and network segregation
- patching and updates to assets
- · data encryption in transit and at rest
- · asset monitoring and alerting
- application and infrastructure audit trail and logging

For further information see the following Information Security Management System:



GN BMS-DOC 002A Graphnet ISMS Exteri

3.14

What Data Processing Agreement is or will be in place with the third party/processor/system supplier?

Not required as contract with Graphnet provides this.

A data processing agreement has been drafted for the processing of General Practice data to enable it's transposition into the ICR and so therein to the PHM.

As the Data Controller responsible for processing of data into the Population Health Management platform (including the Azure Data Factory and Data Marts), the CCG may pursue further processing agreements with other agencies, such as universities, NHS providers, support agencies and commercial partners, to support processing of data for Population Health Management purposes across the BSW geography. DSA for further detail.

3.15

Does the contract with the third party/processor/system supplier contain all the necessary IG clauses? Note: if using an NHS standard contract for the provision of services then it is mandatory for a Data Security Protection Toolkit to be completed.

Yes, having assessed against GDPR requirements.

3.16

Who will be responsible for monitoring the contract/Data Processing Agreement with the third party/processor/system supplier?

BSW CCG will be responsible for monitoring the contract with the ICR/PHM system supplier and any third parties it engages to support processing for PHM.

Medvivo DPO will monitor the DPA between the CCG and general practices.

3.17

What Data Sharing Agreement (DSA) is in place/amended/required with NHS Digital that includes the third party/processor/system supplier (where appropriate – see 2.6 and 2.7 above)

DSA between NHSD & CCG - that will need amending to incorporate data into this platform

4. Individual Rights - notification/retention/access/deletion/rectification/portability

(you may need help from Information Governance to assist with this part of the DPIA)

4.1

What changes are proposed to Fair Processing Notices of the organisations involved (Privacy Notices)? (there is a checklist that can be used to assess the potential changes required)

There will be a central website that partners can link to. Partners will need to ensure their privacy notices are fit for purpose, which will be part of the Data Sharing Agreement signatory process.

4.2

Please set out the process for responding to requests under the right of access by data subjects.

The CCG will not be able to identify individuals in the anonymised or pseudonymised datasets. Whilst individuals can be identified in the identifiable dataset, the CCG will have to refer any requests for access to the relevant provider organisations to undertake checks on the appropriateness of providing their contribution to the ICR/PHM systems to the data subject.

4.3

Please detail how this data will be made portable if requested by the data subject. (Please see guidance for details on when this right is available).

This won't be applicable for the ICR or PHM solutions. No plans for private healthcare (to whom this could apply) to contribute data at present and even if they were to access the PHM, the data accessed wouldn't be theirs to port.

4.4

Please detail how data subjects will be able to request the erasure of the data being processed.

(Please see guidance for details on when this right is available).

It is possible but very unlikely that this would be relevant as only applies to limited circumstances, including; if data is processed based on consent and this is withdrawn and no other lawful basis supports continued processing, it is no longer necessary to process the data, there is no lawful basis to process the data, and/or an objection to process the data is upheld. System supplier has confirmed that data can be permanently erased if required by written request to their SRO, which is acknowledged and actioned following internal process.

Ref 4.2 – A request may be submitted to any of the Joint Controllers – process will be in the SOP

4.5

How long is the data/information to be retained?

The system retains all data in line with the retention periods relevant to the source records, although this may be reviewed in the light of emerging thinking and potential national guidance. This will be assessed locally as and when required in conjunction with all partners. There may be a basis to keep data in the anonymised and pseudonymised datasets for longer. This will be assessed and reviewed on an annual basis and any proposed retention discussed with partner agencies

For documents and/or audit data shared/stored in the solution, processes in line with NHS and Local Authority retention periods will be established.

4.6

How will the data/information be archived?

Records relating to the deceased or service users that move out-of-area are archived (locked down using RBAC to a specific user group), however, no other data (i.e. documents, audit data) is archived at a particular point (though the supplier is reviewing this, June 2020).

Audit data will be retained by the system supplier until the contract ends (then subject to exit clauses).

4.7

What is the process for the destruction of records?

See 4.4 (requests to erase data). In addition any deletions from source systems will carry through to the ICR & PHM platform

4.8

How will it be possible to restrict the processing of personal data about a particular individual should this become necessary? (Please see guidance for details on when this right is available).

Possible to restrict the processing of personal data via an opt out process and mechanism. Within SysMan there is a facility to opt someone's record out.

Data received will be stored however it will be inaccessible to any user. GP data will be purged. The same result may be achieved via the GP feed where specific codes are used.

<u>4</u> 9

If the organisation/service ceases what will happen to the data/information?

This is answered on the basis of the ICR/PHM system being withdrawn. If that was to be the case, then a review of the data held on the ICR/PHM would have to be commissioned. If the ICR/PHM does not contain any data recorded directly then there is no need to determine where such data should go. If it does, then that will be the subject of review in a closure project.

Regardless of whether the ICR/PHM has been used to directly record data not held elsewhere, the audit trail data of staff activity with records will need to be retained for the relevant retention period, in case it is needed for any investigations or claims. Final decision on how that is retained and who by would be the subject of a closure project.

4.10

What plans are in place in relation to the reporting of a personal data breach?

Information breaches will be the responsibility of the organisation in which the breach occurred. All breaches should be assessed in line with the 'Guide to Notification of Data Security and Protection Incidents' (https://www.dsptoolkit.nhs.uk/Help/29). This provides a common tool for scoring of incidents, noting when an incident should be reported to the Information Commissioner's Office and affected individuals. Where a partner identifies a reportable breach related to the ICR/PHM platform, then they should inform (via the programme team) all other partners, prior to notifying the ICO. A breach that is not classed as reportable will be managed by the partner identified as responsible and will engage other partners as required, in addition these will be reported to the programme who will make available to all

4.11

What plans are in place in relation to the notification of data subjects should there be a personal data breach?

See 4.10

4.12

Will any personal data be processed for direct marketing purposes? If yes please detail. Unlikely and would be subject to the request/approval process for use of PHM Platform data.

4.13

Will the processing result in a decision being made about the data subject solely on the basis of automated processing (including profiling)?

If Yes, is the decision:

- . necessary for entering into, or performance of, a contract between the data subject and a data controller
- · authorised by law
- based on the data subject's explicit consent

None at present though this is an area that will be kept under review as it's an area that is developing at pace.

4.14

Please describe the logic involved in any automated decision-making.

N/A

5. Risks, issues and activities

5.1 What risk and issues have you identified? The SCW IG Manager can provide advice to help complete this

				Likelihood		
		1 Rare	2 Unlikely	3 Possible	4 Likely	5 Very Likely
	Very Low - 1	G	G	G	G	G
-	Low+2	G	A/G	A/G	A	A
Impact	Moderate - 3	A/G	A	A	A/R	A/R
ಕ	High - 4	A	A	AR		8
	Very High -5	A	A/R	- 18	TR.	В

Describe the source of risk and nature of potential impact on individuals.	Likelihood	Impact	Overall risk
Include associated compliance and corporate risks as necessary. The risks listed below and the scores are prior to the mitigation identified in the DPIA above. The table in 5.2 sets out the links/detail of mitigation and the impact on the original score	Rare – 1 Unlikely - 2 Possible - 3 Likely - 4 Very Likely - 5	Very low – 1 Low – 2 Moderate – 3 High – 4 Very high - 5	Green Amber Red Black
Unauthorised/ inappropriate access - external hacking threat.	3	5	15
Unauthorised/ inappropriate access - insider misuse of access.	3	4	12
User access management - there is a risk that poorly managed user access could result in account sharing (devaluing audit data)	2	3	6
User access management - there is a risk that staff who have left their position can still access data where they no longer require access and that access may be misused	2	3	6
User access management - there is a risk that staff change roles and accrue greater access than required and that access may be misused	2	3	6
Risk that RBAC does not restrict access sufficiently	2	2	4
Insufficient information - under-sharing of personal data (organisations limiting the data they share)	3	4	12
Temporary data loss / unavailability - theft or accidental loss	3	4	12
Permanent data loss / unavailability – theft or accidental loss	2	4	8
Data Quality - data is of poor quality or is inaccurate	3	3	9
Unlawful processing - processing personal data	2	4	8

without a lawful basis			
Failure to adequately inform individuals about the use of their personal data resulting in complaints	3	2	6
Data retained for longer than necessary	3	2	6
Failure to complete DPIA prior to new processing	1	3	3
Failure to maintain a record of all categories of processing activities - there is a legal requirement on Controllers and Processors to maintain a record of all categories of processing activities	2	3	3
Failure to manage/ report incidents - there is a legal requirement to report incidents (that have or are likely to result in a risk to the rights and freedoms of individuals) to the supervisory authority (ICO) within 72 hours of becoming aware.	2	3	6
Failure to manage subject rights in an appropriate manner - there is a legal requirement to respond to requests from individuals to exercise their rights in respect of their personal data.	3	3	9
Data Quality - data is incomplete	2	3	6
Insufficient information – system downtime <1hr	4	1	3
Insufficient information – system downtime >1h<1 day	3	2	4
Insufficient information – system downtime >1 day	2	3	6
Failure to manage opt outs appropriately	2	2	4
Ensuring restricted/highly-sensitive information remains adequately restricted/protected after flowing from source system to ICR	3	4	12
CCG request/approval process is not robust and allows processing of data that is not lawful	2	4	8

5.2 Identify measures to be taken to reduce or eliminate risks identified as amber, red or black above Options to reduce or Effect on risk Risk Residual Measure eliminate risk risk approved Eliminated, Yes/no Low, reduced or medium or accepted high

5.3 Are there any known activities that will	have a direc	ct effect on this p	iece of work?	1	
5.4 Any further comments to accompany the	his DPIA?				
6. Consultation					
6.1 Will any other stakeholder(s) (whether proposed processing (e.g. NHSE Centr National Statistics)? Partner DPOs Wessex LMC					or
6.2 What was/were the outcomes(s) of suc Revision of control measures, revision of security controls			ns to assure pa	artners of the	
6.3 Will you need to discuss the DPIA or th	ne processin	g with the Inform	nation Commis	ssioners Offic	e?
7. IG Comments					
IG leads of all partner organisations have been involved in two rounds of consultation on the DPIAs and DSA and comments/observations/specific ssues IG leads of all partner organisations have been involved in two rounds of consultation on the DPIAs and DSA and comments have been incorporated as changes into the documents directly					and
8. Cyber Security					
8.1 Comments/observations/specific issues		ents from consulta ed any remaining o			/e
9. Business Intelligence/Data Manager					

Comments/observations/specific

issues

Comments from Jason Young incorporated.

10. Outcome of IG Review

Based on the information contained in this DPIA along with any supporting documents, the outcome is as follows:

Reviewed with no further recommendations:

Reviewed with recommendations (list the recommendations):

Reviewed and recommended not to proceed at present: (provide brief summary of reason)

Subject to the consideration and acceptance of the recommendations there are

- a) No unmitigated or identified risks outstanding
- b) Risks that need further consideration and management
- c) Considerable risks that necessitate further consultation with NHS England and these are:

Describe the residual potential impact on in		Rare - 1 Unlikely - 2 Possible - 3 Likely - 4		Ve	ry low – 1 w – 2	Overall risk Green Amber Red
				Moderate – 3 High – 4 Very high - 5		Black
	easures you could take t	o re	duce or elimir	nate	risks identifi	ed as amber,
red or black above Risk	Options to reduce or eliminate risk		Effect on ris	sk	Residual risk	Measure approved
			Eliminated, reduced or accepted		Low, medium or high	Yes/no

Reviewed on behalf of BSW:	
BSW Data Protection Officer	
Name:	
Job Title: Head of Risk and Information Governance and Deputy DPO	
Signature: Date: 08/09/	/2020
Signed and approved by BSW Senior Information Risk Owner/Caldicott Guardian	
Name:	
Job Title: Chief Finance Officer	
Signature:	. Date: 24/08/20

Please note:

Where further evidence has been requested, in cases where the original recommendation has been assessed as either 'Reviewed with recommendations' (and a further review is needed) or 'Reviewed and recommended not to proceed at present' this must be received within a maximum timeframe of three months from the date of original submission. If the required evidence is not received in this timeframe the DPIA will be closed and no outcome recorded.

It is the responsibility of the Project/Activity Lead to notify the appropriate Information Asset Owner/Data Custodian/Information Asset Administrator for inclusion on the Information Asset Register and Data Flow Mapping.

This DPIA will be disclosed if requested under the Freedom of Information Act (2000). If there are any exemptions that should be considered to prevent disclosure they should be detailed here: