

Reference Number: FOI202223/613
From: Commercial
Date: 27 February 2023
Subject: Data & Storage

Q1 We'd like to explore the sector's relationship with data, strategies for data modernisation and how it is collected, stored, and categorised. We will also look into data usage, standardisation, open data, and transparency data.

We would like to make a Freedom of Information (FOI) request and ask you to answer the questions in the attached spreadsheet.

A1 [Please see attached document: FOI 613 Response](#)

Question	Options	Answers
Instructions: Please add your answers into column C or highlight your answer option in column B.		
SECTION A: Data maturity and whether it is positioned as IT or strategic business imperatives		
<p>1. Do you have a policy/strategy on how you use your data? (Outside of data protection and data privacy covered under general legislation)</p>	<p>(select one)</p> <p>a) We have no strategy around data</p> <p>b) Our data strategy is covered by the IT strategy</p> <p>c) Our data strategy is an essential part of our IT strategy and clearly supporting our organization's goals</p> <p>d) Our data strategy encompasses all of our departments and is aligned to our organization's goals</p> <p>e) The data strategy is a key part of business model & company strategy</p> <p>f) Our data policy is covered by the trust or wider departmental organisation we belong to</p>	<p>c) Our data strategy is an essential part of our IT strategy and clearly supporting our organization's goals</p>
<p>2. (If yes) What considerations are included in your data policy/strategy?</p>	<p>(scaled based on maturity - from Well established, Working on, No intent to include)</p> <p>Data sovereignty</p> <p>Data interoperability</p> <p>Data security</p> <p>Data skills</p> <p>Data availability</p> <p>Data ethics and responsibility</p> <p>Inter-departmental/agency collaboration</p> <p>Citizen outcomes / Tax payer value</p> <p>Data retention</p>	<p>Data sovereignty No intent to include</p> <p>Data interoperability well established</p> <p>Data security well established</p> <p>Data skills well established</p> <p>Data availability well established</p> <p>Data ethics and responsibility working on</p> <p>Inter-departmental/agency collaboration working on</p> <p>Citizen outcomes / Tax payer value working on</p> <p>Data retention well established</p>

<p>3. Do you have a dedicated resource aligned to your data initiatives (excluding data protection)?</p>	<p>(select one)</p> <p>a) There is no specific budget for data initiatives available</p> <p>b) Some data initiatives are covered by IT budgets</p> <p>c) Budgets for specific data initiatives are managed in the IT department with contributions from other departments</p> <p>d) There is a cross-departmental budget for our data strategy which is provided centrally</p> <p>e) The executive office decides on the data strategy for our whole organization, including strategic budget allocation</p>	<p>b) Some data initiatives are covered by IT budgets</p>
<p>4. Do you have these roles within your organisation?</p>	<p>(options - Yes, No, Partially, Plan to hire)</p> <p>a) Data analyst</p> <p>b) Data scientist</p> <p>c) Data engineer</p> <p>d) Machine Learning engineer</p>	<p>a) Yes</p> <p>b) Yes</p> <p>c) Yes</p> <p>d) No</p>
<p>5. Do you outsource these roles?</p>	<p>(options - Yes, No, Partially, Plan to outsource)</p> <p>a) Data analyst</p> <p>b) Data scientist</p> <p>c) Data engineer</p> <p>d) Machine Learning engineer</p>	<p>a) Data analyst Partially</p> <p>b) Data scientist No</p> <p>c) Data engineer Partially</p> <p>d) Machine Learning engineer N/A</p>

<p>6. Who is responsible for setting your data strategy? (Understanding how senior the ownership is within the organisation)</p>	<p>(select one)</p> <p>a) Level 1: CEO b) Level 2: CDIO, CIO, CTO, CxO c) Level 3: Senior Manager (Director/VP) d) Level 4: Delegated to departmental/line managers without organization-wide responsibility e) Level 5: Implicit throughout the organization</p>	<p>b) Level 2: CDIO</p>
<p>SECTION B: Understanding of location of data</p>		
<p>7. What percentage of your data is stored:</p>	<p>(scaling percentage 0%, 0-10%, 10-25%, 25-50%, 50-75%, 75-100%, NA)</p> <p>a) On-premise b) Private Cloud c) Public Cloud</p>	<p>On-Premise, 100%</p>
<p>8. What percentage of your data is stored:</p>	<p>(scaling percentage 0%, 0-10%, 10-25%, 25-50%, 50-75%, 75-100%, NA)</p> <p>a) With UK providers b) With USA providers c) With European providers d) Other</p>	<p>With UK Providers 100%</p>
<p>9. Post brexit will your organisation store more data in the UK or less data in the UK?</p>	<p>(select one)</p> <p>a) More b) No change c) Less</p>	<p>No Change</p>

<p>10. When developing your data storage strategies what are your main considerations?</p>	<p>(Scale on importance)</p> <p>a) Data sovereignty b) Data gravity c) Data security d) Storage latency</p>	<p>1 Data security 2 Storage latency 3 Data gravity 4 Data sovereignty</p>
<p>11. What is the maximum period you would hold data for? (If there are varying period for different types of data, please provide more information)</p>	<p>(free text)</p>	<p>The Trust retains data in line with the minimum retention periods as outlined within the Records Management: NHS Code of Practice. NHS data retention periods are based on minimum as opposed to maximum retention periods.</p>
<p>12. What is the process for identifying obsolete data in your organisation?</p>	<p>(free text)</p>	<p>The Trust retains data in line with the minimum retention periods as outlined within the Records Management: NHS Code of Practice. NHS data retention periods are based on minimum as opposed to maximum retention periods. Information Asset Owners are responsible for reviewing and approving records and data.</p>
<p>SECTION C: Using data</p>		

<p>13. How mature is your architecture in managing your data end-to-end, from ingestion / generation to final consumption? (**Need a descriptor to define mature)</p>	<p>(select one)</p> <p>a) Our data is only available in the respective application b) We capture and share data from multiple applications through data warehouses c) A central data lake holds all of our data at rest d) A central data hub connects data producers and consumers for both analytics and operational use cases, and holds both real-time data and data at rest e) We have a central data hub which also includes external data sources f) We put everything into a data lake and then classify into data warehouses</p>	<p>b) We capture and share data from multiple applications through data warehouses</p>
<p>14. At what level does data add value to your organisation?</p>	<p>(select one)</p> <p>a) Application b) Team c) Departmental d) Organisational e) Cross-organisational</p>	<p>d) Organisational</p>
<p>15. What level of analytics methodologies do you master and support?</p>	<p>(two boxed answer – currently use, currently master)</p> <p>a) Spreadsheet-based analytics b) Business intelligence/canned reporting c) Statistical analytics and machine/deep learning on big data at rest d) Statistical analytics and machine/deep learning with real-time data e) Formal methods such as CRISP-DM, KDD or SEMMA</p>	<p>a) Currently master b) Currently use c) Currently use d) Not in use e) Not in use</p>

<p>16. How far does your analytics architecture span across your organization?</p>	<p>(select one)</p> <ul style="list-style-type: none">a) Our analytics remains local and/or within application boundariesb) Our analytics use cases can include data from multiple applicationsc) Our analytics use cases can consume data sources from all relevant applicationsd) In addition to consuming data sources from all relevant applications, our analytics use cases also consume real-time datae) Our analytics use cases consume data from data warehouses/data lakes,f) In addition to consuming real-time data, our analytics use cases also leverage external data	<p>c) Our analytics use cases can consume data sources from all relevant applications</p>
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<p>17. What are the biggest obstacles in your organization to creating value from data and implementing a data-centric strategy?</p>	<p>(select all that apply)</p> <ul style="list-style-type: none"> a) Our top management does not see data value creation as a strategic priority b) There are cultural barriers to adopting a data-centric approach c) We don't have enough budget d) We don't have the required skills e) There is no clear accountability for data strategy, governance and processes f) We don't have access to the required technologies, tools and platforms g) We struggle to access external data in an efficient and trustful way h) Regulatory uncertainties with regards to data ownership and data privacy i) We don't have enough data j) Our data quality is too low k) Our data is buried in silos l) We have no operating model for managing AI solutions in production 	<ul style="list-style-type: none"> c) We don't have enough budget j) Our data quality is too low k) Our data is buried in silos l) We have no operating model for managing AI solutions in production
SECTION D: Open Data/Data Transparency		
<p>18. Do you have a policy for open data or transparency data</p>	<p>(select one)</p> <ul style="list-style-type: none"> a) Only an open data strategy b) Only a transparency data policy c) Both d) Neither - do not have any e) Under an existing IT or data strategy e) In the implementation process or drawing up a strategy 	<ul style="list-style-type: none"> d) Neither - do not have any

19. Do you outsource your open data service?	(select all that apply) a) We outsource our open data service b) We use <u>data.gov.uk</u> c) We use a local company to host the data d) We use internal software	b) We use data.gov.uk
SECTION E: Data Standardisation		
22. Do you have definitive protocols for managing your data in terms of...	(select all that apply) a) Lineage b) Provenance c) Heritage d) Not sure	No