

DEVELOP JOINT DATA STORAGE AND ANALYSIS RESOURCE

The purpose of CAMDASH is to establish a unified data storage and analysis resource for the for use within the Cheshire and Merseyside Radiology Imaging Network

CAMDASH collects data such as performance, workforce, assets and demographics, and stores them with minimal change to the original format or content of the source data. Connections between these data sets can be generated, for example, we can link CT opening hours with workforce information.

RESULTS

- A proof of concept between two suppliers as part of the procurement process
- Architecture has been established and data has been uploaded.
- Unified view of capacity and demand data and a real time view of operational performance data across 12 Trusts in CAMRIN.

PROBLEM STATEMENT

Lack of a centralised single version of real time radiology data.

Within the network we have 12 trusts carrying out similar clinical processes with similar metadata being generated by these processes. This data is kept separate either by separate systems or by a lack of understanding of how the same data is processed differently by each trust.

This creates an environment where data gathers must be conducted multiple times in different trusts leading to a redundant use of resources. Having tasks conducted multiple times by different teams can also lead to variances in methodology which reduces the opportunities for learning. Opportunities for shared learning and improvement are being missed.



OVERVIEW

The main aim of this project is to have one central place to store data from the 12 trusts that form the network and provide an analysis framework which can be rolled out to all trusts. There are 12 Trusts/sites within the CAMRIN Network 10 trusts within the network use CRIS and we have three trusts that do not use CRIS. We are looking to bring all this data together so that we can create a suite of dashboards to feedback useful and relevant data in order to help the trusts operate as effectively as they can.

We would also like to provide the trusts with an as close to real time view of the data they need, which will support the day to day running of the department. The solution needs to be flexible in order to bring in data from a variety of data sources such as PACS, HR solutions, unstructured documents and national data submissions; and link them together for analysis.

We are looking to ingest raw data from each data source and carry out transformation processes in the cloud, this will allow for the greatest level of flexibility when making use of the data as well as allowing for full control of the data pipe line and full transparency for audit purposes.

BENEFITS

- Provide a real time view of operational performance data across 12 Trusts in CAMRIN.
- Single capacity and demand tool across CAMRIN
- Enable joint governance by providing joint datasets and joint reporting and collaborative benchmarking.
- Enable sharing of and analysis of workforce skills mix including recruitment and retention.
- Enable real time sharing and update of capital equipment lists which should empower collaborative procurement through transparency.
- Unified capacity and demand modelling across the network.
- Act as a resource for evidencing an implementing change.

APPROACH/SOLUTION

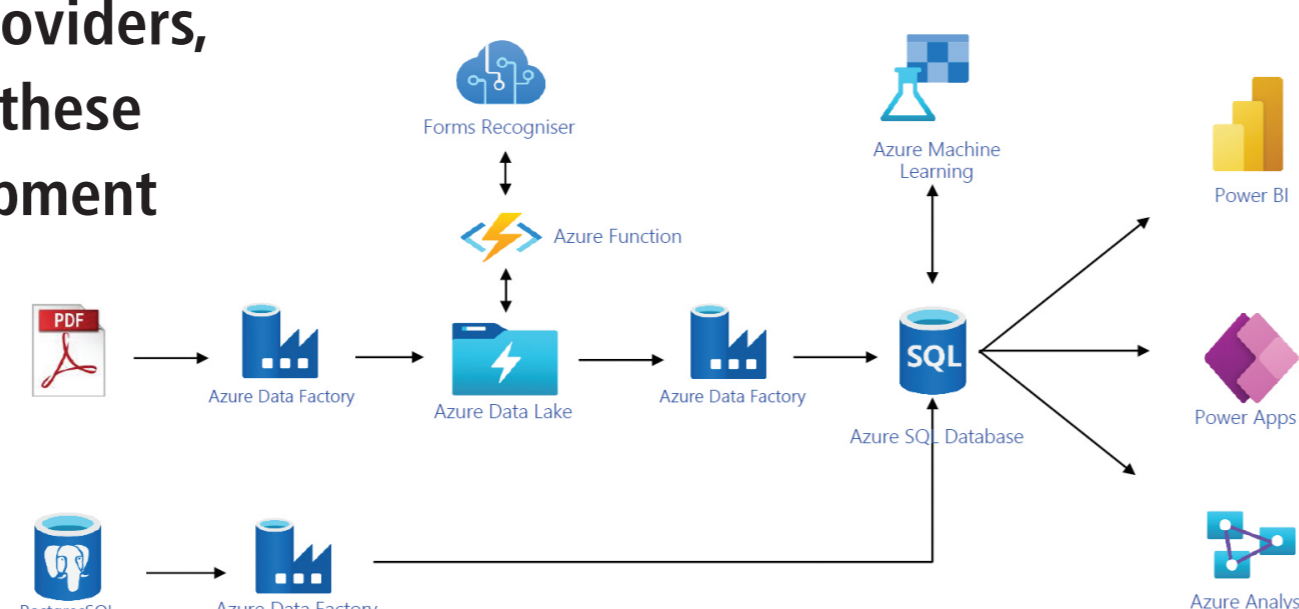
CAMRIN are well developed with a shared Radiology Information System (RIS) among a majority of trusts as well as a shared Picture Archiving Communication Software (PACS). CAMDASH was developed in order to close the gaps with other trusts and to create a platform to ingest data from additional sources.

The approach was to engage with the trusts to identify some simple dashboards, develop a data set to fill these dash boards, conduct a proof of concept (POC) with cloud data storage and analysis providers, choose a provider based on these POCs, engage with a development

partner, then deliver the proof of concept dashboards fully fleshed out to the trusts before reengaging for the next round of development.

The key stakeholders where:

- Trust radiology managers
- Radiologists
- Trust RIS/PACS managers
- CAMDASH Provider
- Strategic Partner



FOR MORE INFORMATION

If you would like more information on the C&M journey to the out of hours reporting hub please contact: CAMRIN@liverpoolft.nhs.uk

