



Secure cost effective data storage:

- meet world class standards
- shave up to 30% off lifetime storage costs

Data and information is important to your organisation whether a Trust or a PCT. Volumes of data to be stored, grow over time and storage infrastructures need to be able to cater for this growth over the years. Within the NHS, new capital investment is more tightly controlled than ever. As the volume of data rises exponentially, so the standards to be observed become more demanding. Is this the time for a thorough review?

HealthSystems has designed, reviewed and implemented managed data and business continuity services for healthcare organisations within both the UK and elsewhere across Europe. This experience informs our methodology for assessing healthcare data storage configurations. We ensure that they are as cost effective as they can be. In recognition of our specialist technical knowledge of data centre optimisation, Hitachi Data Systems has authorised HealthSystems to implement its storage economics methodology in healthcare

Is your data centre world class?

Like other large organisations, the NHS has widely adopted the TIA-942 Data Centre Standard's Tier Three Data Centre standard as its preferred data centre standard.

Our evaluation of data centres assesses sites across three major dimensions:

- Physical location, its component elements, networks and layout of the data centre
- Environmental systems
- Fall- back position / disaster recovery / business continuity

This evaluation reveals the gap between your existing storage arrangements and where you need to be, as well as options for making the improvements required.

Are you spending too much on data storage?

Cost savings are greatest when technical and operational investments become aligned with business benefit and cost improvements. The NHS not only needs fit for purpose data storage; it also has to be cost effective.

Use of our storage economics methodology typically leads to Total Cost of Ownership (TCO) reductions of 20-35%. Organisations report halving total storage infrastructure costs, giving older assets extra useful life and making significant labour and general storage management efficiencies. Econometric analysis used in this way provides a tested framework for mapping storage ownership costs or budget to activities that will deliver savings.

Our team

Our consultants possess:

- strong commercial experience in evaluating relevant supplier solutions
- membership of BCI (Business Continuity Institute) and WCIT (Worshipful Company of Information Technologists)
- substantial experience in information governance, security and data recovery.
- extensive knowledge and experience in data standards (ISO27001), data migration, systems interfacing and systems integration.
- Expertise in reviewing the safety and security of NHS, Local Authorities or Commercial physical connections and in developing agreements (code of connection) which meet NHS Information Governance requirements.

Some of our recent assignments include:

Healthcare shared services organisation, Dublin: This assignment at Europe's largest healthcare shared services organisation resulted in the migration of

Storage Economics Quick Estimator software tool

We use the Hitachi Data Systems tool illustrated below to:

- appraise your main options – both technically and commercially
- compare existing and potential new data centre sites
- define the cost effective storage architecture for future deployment

over 250 business and mission critical information systems from a range of sub-optimal computing facilities into a World Class (Tier Four) hosting centre. As part of this work HSCL worked with our client and following contract award with HP to develop improved server management; safe, secure and optimal networking services; a technology refresh and optimisation plan; a collaborative staff training and development programme as well as completing the migration as planned.

National Patient Safety Agency (NPSA): HSCL has considerable experience in the safe and secure connection of NHS organisations to third party locations. HSCL worked with the NHS Information Authority to design a remote access model for the National Patient Safety Agency (NPSA) using domestic broadband services for the NPSA Patient Safety Managers who are geography based and work from home.

Bolton, Salford and Trafford Mental Health Partnership Trust: to provide NHS approved network connections into Local Authorities premises. These links have brought together information from both healthcare and social services to optimise the care of mental health patients.



Our approach provides for accurate measurement of key indicators across asset lifetimes. We apply the tool to individual storage systems, specific storage tiers, backup-and-restore processes, disaster protection or top-level costs. We also ensure full alignment with your IT strategies and budgetary processes.

Typically, through use of this tool, we expect to identify potential cost reduction in the following areas:

- Storage hardware purchase avoidance
- Storage software purchase avoidance
- Hardware maintenance cost reductions
- Software license fee reductions
- Time for backup windows
- Faster recovery times - catastrophic and non-catastrophic loss
- Storage Administration
- Weekly, common mgmt tasks
- Staff time spent for planned outages
- Business impact of planned outages
- Business impact - data path availability
- Business impact - storage subsystem availability
- Data centre floor space
- Electricity costs (kWatt and BTU reduction)
- Reduce servers that provide CIFS/NFS storage and number of backup servers
- Storage and storage network management simplicity
- Time for workload balancing, re-provisioning storage
- Mean time to provision (acquire, install) storage
- Compliance risk, penalties for retention, protection
- Reducing the number of tape libraries, tape drives
- Reduce developer time - access to DBMS copies
- Reduce local storage network infrastructure
- Long distance circuit cost reduction
- Business impact with faster storage performance
- Storage Network Performance
- Reduced waste, fragmentation of disk storage
- Downtime due to capacity problems, management errors
- Disaster protection, reduced cost of risk
- Data migration, re-mastering
- Security