Serco

Requirement:
Secure bespoke software system.

-interface to bespoke hardware
- Capture and present data in real time to the user
- Guaranteed delivery of data within critical time window
- Locked down user environment
- Full MIS reporting
- 24/7 up time
- Securely audit all data entry to an evidential level
- Background processes ensure data integrity, security and recovery
- Process the data through the agency's workflow systems
- Prominent government agency to use the system nationwide

Solution:
Windows forms .NET development utilising a suite of applications, services and relational database technologies.

- Bespoke client applications focused on user roles
- Centralised data access via web services
- Bespoke windows services to manage 24/7 hardware interfaces and guaranteed delivery of data to client.
- Storage using SQL Server
- Bespoke reports created for use on SQL Server reporting services for MIS.
- Workflow mimics user working practices
- Creation of simulator to enable effective testing/demonstration of system employing DirectX 3D graphics.

Summary:

The system has been successfully delivered and is being rolled out across the country.

Unasys

Requirement:

Bespoke software system for project managing the commissioning of oil and gas installations.

- Large volume of data to be viewed on client screen
- Rapid access to specific data
- Chart progress and report on late delivery/milestone completion
- Document scanning/storage
- Roles
- Ease of delivery to client site
- Remote working, international client sites

- MIS reporting

Solution:
Windows .NET application delivered via a combination of smart client technology, web services and relational databases.

- Implemented a rich GUI application as a smart client
- Web delivery of software and updates for ease of roll out
- User configurable interface
- Centralised data hosting serving international clients
- SQL Server reporting services embedded in the client application
- Documents and images saved to the central storage along with progress data
- Real time progress calculation triggering alerts via e-mail and SMS to interested parties
- Implementation of 3D visualisation of the plant and interaction with the data model.

Summary:
Initial delivery used in the UK, Norway and Spain. Further development ongoing to bring the solution to the web and other hardware platforms such as smart phones.

Pfizer

Requirement:
Bespoke software application to make use of new electronic signature legislation in the United States of America (21 CFR part 11)

- Fully audited system to identify user conducting experiment
- Life critical system, data integrity is essential
- Interface to different laboratory equipment
- Use on many different machines across the business to process a single experiment
- Interface to existing user logons
- Harsh environment

Solution:
Bespoke intranet web application developed in .NET with a SQL relational database.

- Web developed front end
- Real time capture of data from laboratory machinery
- Electronic signature capture to enforce technician identity
- Remote access to laboratory information for long term experiments without interrupting experiment

Summary:
Pfizer's first electronic signature application. Spin off laboratory equipment management application ordered and developed as a web application.

Nomis

Requirement:

Bespoke software application to provide complex analysis and decision support of mortgage products to maximise customer retention. A simple and easy to use application was of paramount importance.

Solution:
Bespoke .NET client application to interface to existing RDBMS systems for data extraction and subsequent data analysis.
- .NET developed Windows application
- Generic interface to relational database systems
- Custom statistical data analysis including cluster analysis and forecasting
- XML inputs and outputs to allow data export to external systems
- Custom graphing of complex datasets
- High performance application processing up to 100,000 customer records in near real-time

Summary:
The application has been sold to a number of high street mortgage lenders and continues to be further developed and supported.