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G-Cloud 15

Data Products Service Definition

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Why Edge Health

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1 Why Edge Health

Edge Health is a specialist UK healthcare analytics, strategy and change management consultancy that uses data and insights to improve the delivery of health and care services so that better outcomes can be delivered more efficiently.

Edge Health has a wide variety of expertise and specialist skills in data science, data engineering, and health economics, and our project team will provide rigorous and innovative analysis to support evidence-based decision making.

1.1 Notable achievements



1.2 Expertise at Edge

Edge Health has a broad array of experience across multiple disciplines including data science, dashboards, and cloud computing.

Data science

Edge Health has vast experience in the field of data science, building analytical models in several languages, making use of machine learning and AI. Expertise includes:

- R
- Python
- SQL
- MATLAB
- Octave
- Apache Spark, Hadoop, MongoDB
- React

Visualisations, reporting and dashboards

Edge Health has built visualisations, reports and dashboards for a variety of needs. As well as dashboards we have built technical reports, business cases and slide decks to show case analysis and inform business decisions. Expertise includes:

- RMarkdown
- LaTeX
- Power BI
- Tableau
- Microsoft Office (Excel, Word, Powerpoint)
- Google Workspace (Docs, Sheets, Slides)

Economics and Forecasting

Edge Health has delivered robust evaluations to track and monitor impacts of clinical pathways, programmes and organisations, supporting effective solutions to scale quickly. Expertise includes:

- Health economics and outcome research (HEOR)
- Health economic evaluation
- Survey development, deployment, and analysis
- Business case development
- Benefits tracking and realisation
- Pricing and regulation

Cloud computing

Edge Health has built software, applications, and data pipelines on the top public clouds as well as private clouds. Expertise includes:

- Microsoft Azure

Why Edge Health

- Google Cloud Platform (GCP)
- Amazon Web Services (AWS)
- Palantir Foundry
- Serverless technology (Cloud Run, Cloud Functions, Cloud Build, Azure Functions, Azure App)
- Deploying and managing virtual machines
- Data pipelines (Azure Synapse, Azure Data Lake, Google BigQuery, Amazon EMR, Databricks)

Dev-ops

Edge Health has utilised several dev-ops tools to build scalable, reproducible and fault tolerant services on the cloud as well as improving speed of delivery and enabling continuous deployment. Expertise includes:

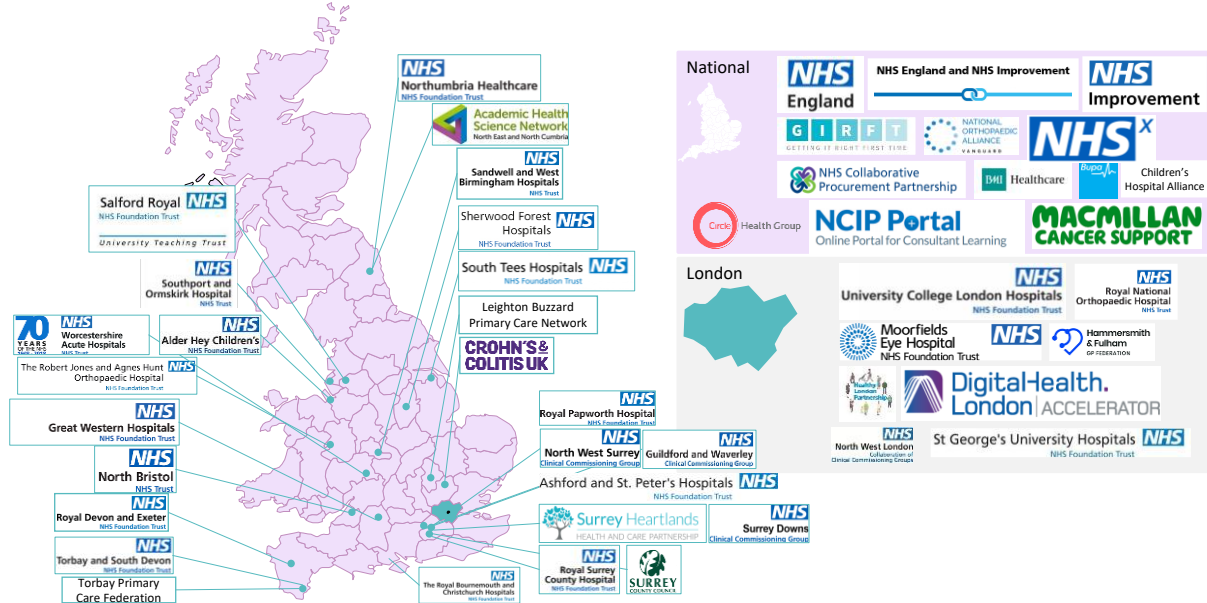
- Docker
- Kubernetes
- Jenkins
- Infrastructure as code (Terraform, Packer and Ansible, Azure Resource Manager, AWS Cloud Formation, Google Cloud Deployment Manager)

MLOps

Edge Health implements MLOps practices to bridge the gap between model development and production, ensuring that machine learning assets are scalable, monitored, and continuously improved. Expertise includes:

- Model Lifecycle Management: End-to-end tracking of experiments, model versioning, and registry management.
- Automated Retraining Pipelines: Building pipelines to automate the transition from experimentation to production.
- Model Serving & Deployment: Scalable deployment patterns using managed services like Azure Machine Learning and Amazon SageMaker.
- Monitoring & Observability: Implementing performance tracking to detect data drift and model decay.

1.3 Example Edge Health clients



1.4 Where our work has been featured



1.5 Accreditations and awards



Why Edge Health



Winner of Best Consultancy
Partnership with the NHS



HSJ Partnership Awards
2025: Data Integration Project



DATA | EVIDENCE | DECISIONS

The Florence Nightingale Award for
Excellence in Healthcare Data Analytics

Supported by



Highly commended: The Florence
Nightingale Award for Excellence in
Health and Care Analytics

1.6 Our offering

Our approach at Edge Health is to develop solutions that are led by the problem and need, and to build these with a compelling narrative for users. To support this, we have two different services:

1. **Edge Health Cloud Software.** Edge Health's offering includes Software as a Service (SaaS) application, accessible over the internet or private network and hosted in the cloud.
For example, our Data Analytics and Software Hub (DASH) provides a dynamic, scalable and adaptable infrastructure backbone for NHS Trusts and Integrated Care Boards (ICBs) business intelligence. With end-to-end capabilities, our data platforms can organise, analyse, and present data in a way that lets even non-IT professionals gain insight and act.
Our products embed a wide range of features, including alert interfaces and dashboards with automatic data refresh, ETL/ELT data collection, APIs programming, Web Apps, IoT solutions, AI-powered data repositories, synthetic data generators, patient notes extraction, AI translation services, and live-data streaming.
2. **Edge Health Cloud Support.** Under the Cloud support service, Edge Health provides expert analysts and data engineers to build, maintain and improve your cloud data consumption. Our comprehensive support offerings include proficient guidance and assistance with cloud migrations and multi-cloud Solutions, data analytics and infrastructure development. We also delivered training and engineering support for DevOps implementation, data governance and quality assurance, including the adoption of Azure Services.

2 Edge Health Cloud Software

Elevate Your Digital Infrastructure: Scalable Solutions for Seamless Data Analysis

2.2 Data Analytics and Software Hub (DASH)

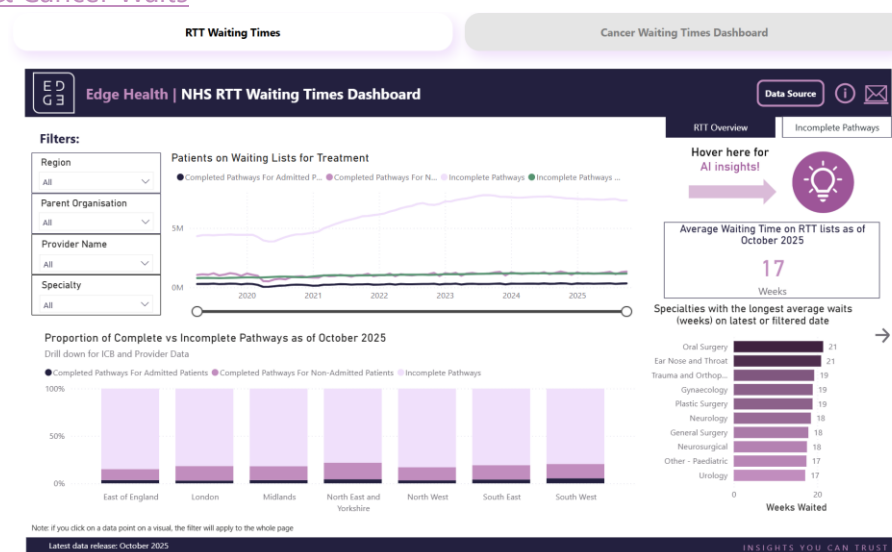
Edge Data Analytics and Software Hub (DASH). Edge Health DASH is a fully customisable cloud-powered solution that can be tailored to requirements. DASH can be built for a range of problems and use cases ranging from dashboards to predictive and prescriptive analytics solutions. For example, machine learning to accurately predict cancer patients at risk of breaching waiting times.

Four levels of intensity are available:

1. Level 1 (low intensity) - static cloud powered analytics solutions to visualise and describe your data
2. Level 2 - static cloud powered analytics solutions to make predictions based on your data as well as regular visualisation and descriptive analytics
3. Level 3 - Regularly refreshed cloud powered predictive analytics and live or near live visualisation and descriptive analytics
4. Level 4 (high intensity) - Live or near live cloud powered predictive analytics solutions
5. Maintenance, hosting, and support

These are some examples of our dashboards powered by DASH using publicly available data from the NHS and Fingertips:

Flow— RTT & Cancer Waits





2.2.1 Level 1 - Static cloud-powered analytics solutions to visualise and describe your data

About our solution

Under level 1 support, Edge Health will build data products to provide descriptive and explicative analytics into a one-off data download.

This can solve several problems that may be facing your institution, including:

- Provide a deep dive into your waitlist, how it has been impacted by COVID-19 and focus points to meet NHSE targets
- Combining different sources of data available to your institution to perform trend analysis to understand the link behind behaviours in your data

Our capability

Edge Health has expertise in several tools including R, RShiny, Python, Power BI, Excel and more. This means the output of the product can be tailored to your business need, including dashboards, configurable models and/or reports/slide decks. These can be used to identify business development opportunities and contribute to business cases as well as new insight into your data.

Features of our solution

- Support for big data analytics, with expertise in Spark, Hadoop and other big data technologies
- Interactive dashboards to allow you to explore the modelling

Benefits of our solution

- Any outputs are available in several formats including but not limited to PowerPoint, PDF, Excel, and Power BI
- Agreements to be made on metrics to track to ensure the health of the service. This could include an uptime percentage for example which would be maintained via DASH level 0 support.

Pricing of our solution

DASH Level 1 support is priced at £30,500 + VAT. This is based on an expected six-week delivery period. Shorter delivery period can reduce cost, longer can increase cost (£45,500 to £58,500). This cost is additional to the cost of maintenance, hosting, and support (priced at £15,000 per quarter).

2.2.2 Level 2 - Static cloud-powered analytics solutions to make predictions based on your data as well as regular visualisation and descriptive analytics.

About our solution

Under level 2 support, Edge Health will build data products to provide regular (up to weekly) descriptive and explicative analytics or predictive analytics into a one-off data download.

This can solve several problems that may be facing your institution, including:

- Regular reporting on performance metrics that benchmark your institution with historical trends
- Predictive modelling on your waitlist and activity based on different scenarios, modelling COVID induced backlogs and future pressures
- Disease modelling, such as impact of testing travel restrictions on COVID cases.

Our capability

Outputs can be tailored to your business need, including regularly refreshed dashboards and reports for regular descriptive analytics or an interactive model, dashboard or slide deck for predictive analytics. These outputs can be used to monitor the performance of your institution, identify areas of improvement, and enact policy change.

Features of our solution

- Support for big data analytics, with expertise in Spark, Hadoop and other big data technologies
- Automated data pipelines to regularly refresh the analytics with the most up to date information
- Interactive dashboards to allow you to explore the modelling

Benefits of our solution

- Any outputs are available in several formats including but not limited to PowerPoint, PDF, Excel and Power BI
- Agreements to be made on metrics to track to ensure the health of the service. This could include an uptime percentage for example which would be maintained via DASH level 0 support.

Pricing of our solution

DASH Level 2 support is priced at £48,000 + VAT. This is based on an expected six-week delivery period. Shorter delivery period can reduce cost, longer can increase the cost (£63,500 to £68,000). This cost is additional to the cost of maintenance, hosting, and support (priced at £15,000 per quarter).

2.2.3 Level 3 - Regularly refreshed cloud-powered predictive analytics and live or near live visualisation and descriptive analytics.

About our solution

Under level 3 support, we will build data products to provide regular (up to weekly) predictive and prescriptive analytics or live/near live descriptive analytics.

This can solve several problems that may be facing your institution, including:

- Live reporting of capacity metrics, such as bed and theatre utilisation. Trend analysis can be applied to identify patterns in low utilisation of constrained resources.
- Regularly refreshed models to predict pressures on your system. Since these will regularly refresh, they will improve with time and can be tailored further to your needs.

Our capability

Outputs can be tailored to your business need, including regularly refreshed dashboards, reports and interactive models. These outputs can be used to support business cases or embedded into your business' way of working, improving the efficiency of your organisation.

Features of our solution

- Support for big data analytics, with expertise in Spark, Hadoop and other big data technologies
- Interactive dashboards to allow you to explore the modelling

Benefits of our solution

- Agreements to be made on metrics to track to ensure the health of the service. This could include an uptime percentage for example which would be maintained via DASH level 0 support.
- Any outputs are available in several formats including but not limited to PowerPoint, PDF, Excel and Power BI

Pricing of our solution

DASH Level 3 support is priced at £68,000 + VAT. This is based on an expected six-week delivery period. Shorter delivery period can reduce cost, longer can increase cost (£73,000 to £88,000). This cost is additional to the cost of maintenance, hosting, and support (priced at £15,000 per quarter).

2.2.4 Level 4 - Live or near live cloud-powered predictive analytics solutions.

About our solution

Under level 4 support, we will build data products to provide live predictive models using machine learning (AI) with a user-friendly interface to provide actionable insights.

This can solve several problems that may be facing your institution, including:

- Improving utilisation of existing capacity by predicting the demand of limited resources through AI and using algorithms to efficiently plan their usage.
- Predicting patient outcomes, allowing intervention where necessary. For example, whether the complications of the patient pose a risk to breaching waiting times.

Our capability

Outputs can be tailored to your institution's needs. For example, a dashboard to allow live monitoring, automated PDF reports as well as data pipelines to push data back to your institution for internal use.

Features of our solution

- Support for big data analytics, with expertise in Spark, Hadoop and other big data technologies
- Ability to build pipelines to push data back to your institution
- Interactive dashboards to allow you to explore the modelling

Benefits of our solution

- Agreements to be made on metrics to track to ensure the health of the service, which could include an uptime percentage for example
- The software will be bespoke and so your institution will have its say in how it is developed to ensure maximum impact once deployed

Pricing of our solution

DASH Level 4 support is priced at £89,000 + VAT. This is based on an expected six-week delivery period. Shorter delivery period can reduce cost, longer can increase cost (£104,000 to £120,000). This cost is additional to the cost of maintenance, hosting, and support (priced at £15,000 per quarter).

2.2.5 Maintenance, training and ongoing support

About our solution

Edge Health will provide support for previously built DASH solutions. This will include support with training and onboarding new staff, carrying out required maintenance to keep services running and 9-5, Monday-Friday support for any queries you may have.

Details of our offer

- Monday-Friday, 9-5 support
- Response time within 1 day
- Training for cloud software and hosting services
- Continued onboarding of new users

Benefits of our solution

- Solution will be maintained to pre-agreed standards (i.e. uptime percentages)

Pricing of our solution

Our maintenance, hosting, and support is priced at £15,000 + VAT per quarter.

2.3 Edge Health Analytics as a Service

Analytics solutions to visualise and describe your data

About our data products

Our analytics as a service is a fully customisable business intelligence solution with end-to-end capabilities, organising, analysing, and presenting data in a way that lets even non-IT professionals gain insight and act. These include tried and tested Artificial Intelligence and Machine Learning techniques, which help unlock new value from old data.

How we work

Our work is tailored to your needs through initial scoping and kick-off meetings. As well as regular check-in meetings, our team remains available for a defined period after completing agreed outputs.

Our capability

Our analytical capability is flexible and works across several tools, including but not limited to R, Python, SQL and big data tools such as Apache Spark: there are no limits to the analysis we can undertake. The analyses can provide insight and solutions to problems your institution may be facing.

Outputs can be delivered across a range of products including PowerPoint, Excel, RMarkdown, LaTeX, and more. Outputs can be tailored to your needs such as a static report or slide deck showcasing the analysis and outcomes, or a dynamic Excel model.

Examples of our work

- Demand and capacity modelling of theatres, beds and required activity
- Data-driven diagnostics to understand trends and relationships between different data
- Granular analysis of services, specialities, systems, regions, etc., including benchmarking

Features of our solution

- With expertise in R, Python, SQL and more, analysis can be carried out without limit
- Support for big data analytics, with expertise in Spark, Hadoop and other big data technologies
- Outputs can be used to support business development and business cases

Benefits of our solution

- Outputs are available in a PowerPoint or PDF slide deck, customisable Excel models, technical reports and more

- Through regular check-ins the direction of the work can be tailored as it progresses based on initial findings

Pricing of our solution

A standard solution, which can be delivered within six working weeks is £54,000. This price can vary depending on precise requirements and scope.

Our current range of data products include:

1. Hospitals
 - 1.1. SpaceFinder
 - 1.2. ListBuilder
 - 1.3. BedPlanner
 - 1.4. CriticalPlanner
2. Systems
 - 1.5. CanCollaborate
 - 1.6. SystemAssurance
 - 1.7. StrategicPlanner
 - 1.8. EdgeForge
3. Population Health
 - 1.9. PopNeed
 - 1.10. PathwayMiner

2.4 Data products for hospitals

2.4.1 SpaceFinder

Utilise hospital theatre capacity more effectively by identifying theatre space ahead of a scheduled session taking place.

About our service

SpaceFinder uses machine learning to accurately predict operating times for people on the waiting list. This is done using historical data of actual operations and is specific to the procedure, team, and patient. This information is then combined with scheduling information to identify likely under or overruns in sessions so that adjustments can be made ahead of time.

Example problems solved

- How to increase utilisation of theatres during core hours
- How to reduce overruns
- How to reduce weekend and overtime working

Features

- Secure and easy to access on-line platform
- Estimates are specific to the surgeon, patient, theatre, time, etc.
- Results summarised in dashboard
- Machine learning
- Statistical analysis
- Downloadable reports summarising metrics for key populations

Benefits

- Manage workload
- Reduce overruns and unused theatre space
- Improve the booking experience for booking staff

Price

The minimum cost for SpaceFinder is £45,500 +VAT. There are no user limits or limits on the number of specialties covered.

Addition costs may apply for: connecting non-standard data sources, tailoring outputs, creating updating (e.g. real-time) data feeds, additional support from Edge for local engagement.

2.4.2 CanCollaborate

CanCollaborate allows Trusts and system partners to monitor and risk-assess their cancer patients.

About our service

CanCollaborate is a system-wide solution that unlocks information for Trusts and provides system partners access on complex pathways – allowing them to understand and support timely access for patients who are transferred between two or more hospitals. The software reduces the number of cancer breaches by enabling proactive management of patient pathways – particularly for the most complex pathways – and facilitating joint working.

Example problems solved

- Reduction in administrative time. All Trusts can easily access the platform and review the same patient pathways and agree on next steps for tertiary referrals or hospital transfers.
- Assurance of equity of access for tumour types with complex pathways, where capacity needs to be shared across multiple Trusts. One joint PTL for the system means that Trusts can ensure that patients across the system access treatment in a way that's equitable, irrespective of which Trust is responsible for managing their pathway.
- Early warning of incoming tertiary referrals, flagging cohorts of patients from secondary centres who have been referred to tertiary centres, who have yet to be integrated to tertiary centre's PTL. This allows Trusts to begin plans for accommodating these patients earlier and prevent administrative delays to patient pathways.
- Detailed analysis of patient pathways and identification of patients at risk of breaching by patient cohort. Linked to demand and capacity modelling, which allows users to easily navigate between a system-wide view of demand and specific patient-level actions.

Features

- Secure and easy to access online platform
- Compatible with all major cancer tracking systems (e.g., Somerset, Infoflex, Dendrite)
- Real-time data flows providing the most up-to-date picture of patient risk
- Patient-level predictions of risk of breach. Risk is summarised for different tumour sites and patient cohorts and then linked to specific actions, making it easy for administrators to act based on recommendations.
- Weekly demand and capacity forecasting provided 12-weeks in advance to align with staff scheduling. Used to support system planning and discussions around capacity sharing.

Benefits

- Saves administrative time
- Prevents patients from breaching, using predictions and demand and capacity modelling
- Facilitates joint working by providing one central system with validated PTL data

- Real-time view of data for system partners (e.g., Cancer Alliances)

Price

A standard solution, which can be delivered within six working weeks is £130,000 + VAT. This price can vary depending on precise requirements and the number of Trusts being included in the tool.

2.4.3 ListBuilder

Optimises theatre schedules based on predicted operating times and local constraints.

About our service

Using estimated operating times from SpaceFinder and a detailed understanding of local constraints (equipment, surgeon capabilities, etc.), ListBuilder creates operating lists that make the best use of the time available. Alternatively, ListBuilder can be calibrated to optimise different criteria, such as minimising waiting times or prioritising cases (e.g. based on outputs from Prioritiser to help manage post-Covid-19 demand).

Example problems solved:

- How to optimise available theatre operating time
- How to maximise the use of theatres to reduce priority demand
- How to avoid double-booking limited equipment

Features:

- Secure and easy to access on-line platform
- Lists are based on local constraints (e.g. surgeons rota and theatre's equipment)
- Local prioritisation rules for patients on the waitlist
- Machine learning
- Statistical analysis
- Downloadable reports with proposed lists

Benefits:

- Easy to access information for bookers
- Reduced on the day cancellation rates
- Reduced admin workload
- No user limits

Price

ListBuilder requires SpaceFinder. The minimum additional cost for ListBuilder is £36,500 + VAT, which includes two specialties. Further specialties are priced at £5,000. Discounts available for multiple specialties.

Addition costs may apply for: connecting non-standard data sources, tailoring outputs, creating updating (e.g. real-time) data feeds, additional support from Edge for local engagement.

2.4.4 BedPlanner

Plan future bed capacity requirements under a range of scenarios (different levels of demand, or different ward configurations)

About our service

BedPlanner uses historic patient-level data to predict future bed occupancy based on expected admission rates. These prediction scenarios can be altered to reflect expected or known changes in demand, such as post-Covid-19, to simulate different demand scenarios. Or patient flow rules can be changed to simulate the effect of changing clinical processes or ward configurations (e.g. maximum time in Assessment Unit capped at 36 hours). This approach, which uses granular data means the model is calibrated with a rich understanding of local demand and usage patterns.

Example problems solved:

- How to reconfigure hospital wards to better match demand
- How to identify the requirement for additional beds

Features:

- Secure and easy to access on-line platform
- Metrics on bed demand, capacity, and utilisation
- Multiple pre-coded demand, capacity and flow scenarios included.
- Machine learning
- Clustering
- Statistical analysis
- Downloadable reports summarising metrics

Benefits:

- Bed demand and capacity with insights and analysis on usage patterns
- Ward and specialty view provide an in-depth understanding of Trust specific pressure points
- Easy to access information for different users
- No user limits

Price

The starting cost for BedPlanner is £45,500 + VAT for a Trust. There are no user limits. Addition costs may apply for: connecting non-standard data sources, tailoring outputs, additional scenarios, creating updating (e.g. real-time) data feeds, additional support from Edge for local engagement.

2.4.5 CriticalPlanner

Understand, plan, and manage critical care bed demand

About our service

CriticalPlanner uses historic critical care demand data from local systems, including ICNARC data, to provide an assessment of historical demand patterns and drivers. This is then projected forward to estimate planned care requirements (e.g. post-surgical) in the context of uncertainty from unplanned admissions.

Example problems solved:

- How to utilise critical care beds more effectively
- How to plan shifts to align best to demand profiles
- Identify over or under booking of critical care beds in advance.

Features:

- Secure and easy to access on-line platform
- Metrics on critical care bed demand, capacity, and utilisation
- Accurate bed occupancy predictions for planned admissions
- Multiple pre-coded demand, capacity and flow scenarios included.
- Machine learning
- Clustering
- Statistical analysis
- Downloadable reports summarising metrics

Benefits:

- Critical care bed demand and capacity with insights and analysis on usage patterns
- Ward and specialty view provide an in-depth understanding of Trust specific pressure points
- Easy to access information for different users
- No user limits

Price

The starting cost for CriticalPlanner is £40,500 + VAT for a Trust. There are no user limits.

Addition costs may apply for: connecting non-standard data sources, tailoring outputs, additional scenarios, creating updating (e.g. real-time) data feeds, additional support from Edge for local engagement.

2.5 Data products for system management

2.5.1 SystemAssurance

Review, track and explore system (e.g. ICB) assurance metrics

About our service

SystemAssurance is a user-friendly dashboard that summarises local system data needed for system assurance. This includes provider performance (e.g. RTT, 4-hour), quality, cost, activity, etc. Key metrics are summarised on a home page, which can be drilled into to provide greater depth and longitudinal values over time.

Example problems solved:

- Summary dashboard of how ICB is performing at a point in time
- How the system has performed over time
- Geographic analysis comparing different parts of the system

Features:

- Performance metric analysis
- Outcome metric analysis
- Cost metric analysis
- Activity metric analysis
- Geographic and spatial analysis
- Map-based visuals
- Real-time data
- Machine learning
- Clustering
- Statistical analysis
- Downloadable reports summarising metrics

Benefits:

- Connects to local data sources, so builds one version of the truth.
- SystemAssurance is typically built in Tableau but can also be provided in PowerBI, Shiny and other visualisation systems.
- Easy to access

Price

The starting cost for SystemAssurance is £40,500 + VAT for an ICB. There are no user limits.

Addition costs may apply for: connecting non-standard data sources, tailoring outputs, creating updating (e.g. real-time) data feeds, additional support from Edge for local engagement.

2.5.2 StrategicPlanner

A comprehensive system planning tool that brings together activity, operational performance, cost and income information

About our service

StrategicPlanner helps systems, and their hospitals trust to base planning and contracting discussions on a firm evidence base that translates proposals into key metrics, such the impact on activity, cost, and income. This is done using patient-level information and costing (PLICS) data, which is combined with a clear understanding of proposals being considered to provide summary information and insight.

Example problems solved:

- Robust and detailed evidence base for system planning
- Comprehensive understanding of the potential impact of proposed changes on all parts of a hospital: theatres, beds, and A&E, and support services (radiology, pathology, etc.)

Features:

- Predictive analytics
- PLICS based analysis
- Outputs clear information on activity, cost, and income
- Machine learning
- Clustering
- Statistical analysis
- Downloadable reports summarising metrics

Benefits:

- Provides granular outputs at a level which clinician can recognise their activity and effectively engage
- Outputs that feed directly into the regulatory returns that Trusts are required to submit
- An intuitive user interface, which allows the user to explore data by specialty, HRG, commissioner or consultant
- Planning not just for the "average" day, but also the peaks and troughs by understanding the variations expected in the demand
- Accurate and innovative predictive engine, using machine learning techniques and predictive analytics to get a robust view of future demand that goes beyond extrapolations
- Joined up view of activity, cost, and income under different scenarios

Edge Health Cloud Software

- Easy to access

Price

The starting cost for StrategicPlanner is £42,500 + VAT per Provider Trust - Commissioner. There are discounts for multiple Providers/Commissioners in the same region. There are no user limits.

Addition costs may apply for: connecting non-standard data sources, tailoring outputs, additional support from Edge for local engagement.

2.6 Data products for population health

2.6.1 PopNeed

PopNeed helps GPs, PCNs and others to manage population health more effectively by consolidating, analysing, and presenting information relevant to their local population in a single and easy to access online platform

About our service

Managing population health can improve outcomes and reduce health system cost. This needs information and analytics on care gaps and population health in general. PopNeed provides this information by pulling together a wide range of data that is publicly available and supplied locally. This information is harmonised, analysed, and summarised in a user-friendly dashboard. The analysis includes practice and PCN benchmarking, geographic analysis, and care gap identification based on emergency service usage patterns. Summaries are accessed based on population segments (e.g. diabetes) or themes (e.g. screening).

Example problem solved:

- Analysis and insights from PopNeed can be used to support successful business cases.
- Identify care gaps in local communities driving increased use of emergency care.
- Easy to access information covering a wide range of population health metrics
- Use as a starting point for ICP/ICB public health campaigns.

Features:

- Secure and easy to access on-line platform
- Metrics on wider determinants, activity and cost, and outcomes
- Machine learning
- Clustering
- Geographic analysis and mapping
- Statistical analysis
- Downloadable reports summarising metrics for key populations

Benefits:

- One access point for population health management information
- Identify population health differences across geography.
- Facilitate benchmarking between practices and PCNs
- Easy to access information for different users
- No user limits

Price

The starting cost for PopNeed is £40,000 + VAT for an ICP / ICB. There are no user limits or limits on the number of PCNs covered.

Addition costs may apply for: connecting additional data sources to PopNeed (e.g. local datasets), tailoring outputs, creating updating (e.g. real-time) data feeds, additional support from Edge for local engagement.

2.6.2 PathwayMiner

Identify variation in pathways that lead to poorer outcomes or higher cost for cohorts of patients, so that improvement opportunities can be identified and delivered

About our service

PathwayMiner uses longitudinal patient-level data pulled together from existing information systems to create rich pictures of individual pathways over time. These are analysed using machine learning techniques to identify cohorts of pathways with similar features (usage of an emergency department, or recurring outpatient attendance, etc.). The cost of the pathways for these cohorts can then be estimated and quality of outcomes assessed clinically so that high-value improvements can be identified and delivered.

Example problem solved:

- Identifying pathways where improvements can be delivered
- Identifying the root cause of low-value interventions
- Identifying specific areas for delivering RightCare improvements

Features:

- Longitudinal patient-level analysis
- Machine learning and clustering algorithms
- Underpinned by clinical intelligence

Benefits:

- Identify specific pathways and areas for improvement.
- Powerful evidence for system changes underpinned by specific examples.
- Costs and outcomes both considered for full economic assessment.

Price

The starting cost for PathwayMiner is £15,000 + VAT. This covers a single clinical area (e.g. digestive disorders) at a point in time for a single organisation. Discounts are available for additional clinical areas and/or organisations.

Addition costs may apply for: multi-organisation pathway analysis (e.g. primary, acute, and community), creating updating (e.g. real-time) data feeds, additional support from Edge for local engagement to support outputs.

2.6.3 Edge Forge

Edge Forge allows users to monitor, assess, and categorise articles and emerging information trends in real time.

About our service

An AI-powered intelligence platform designed to unlock valuable insights within thousands of daily press articles. Apart from collecting data, Edge Forge automatically sifts, condenses and categorises information to deliver high-quality, interpretable insights, and facilitates proactive management of complex data landscapes. By combining securely hosted AI tools with human-in-the-loop validation, the platform augments research capabilities and ensure that teams can safely and accurately identify key trends. The solution offers flexible deployment options including our private cloud or your local server hosting, ensuring data security and compliance.

Example problems solved

- **Unlocking valuable research insights:** Turns the challenge of monitoring thousands of daily articles into strategic insights from News APIs and RSS feeds by automatically identifying valuable information hidden within vast amount of data.
- **Improves clarity within complex data landscapes:** Sophisticated AI systematically interprets vast datasets, summarising key insights and categorising content so researchers can focus on analysis rather than data entry.
- **Enhanced secure, accurate and meaningful results:** The human-in-the-loop validation step allows researchers to clean the output dataset and modify AI decisions, which is critical when the consequences of errors are large.
- **Identification of niche subjects:** Forge specialises in identifying "true positive" articles and associated tags even in highly specific or niche fields where data prevalence might be low, ensuring comprehensive coverage without clutter.

Features

- **High-volume data ingestion:** Automates the intake of thousands of sources via News APIs, RSS feeds, and web scraping for comprehensive coverage and to maintain a constantly updated information stream.
- **Secure, private AI processing:** Utilises privately hosted Large Language Models (LLMs) to summarise and interpret data, ensuring security and consistency.
- **Multi-stage intelligent filtering:** Employs a sophisticated stack of Boolean logic, semantic SVM classifiers, and LLM categorisation to isolate relevant content.
- **AI-Driven article augmentation:** Automatically adds metadata such as priority levels, theme identification, and involved actors while de-duplicating content using vector embeddings.
- **Human-in-the-loop quality assurance:** A React-based web application that facilitates human-in-the-loop validation, ensuring data integrity.
- **Scalable Output Dataset:** Delivers a cleaned repository of news articles with standardised tags, designed to be infinitely scalable.

Benefits

- Significantly increases the quantity and quality of data reviewed, allowing teams to process more information.
- Delivers summarised, categorised insights at speed, enabling faster and more informed policy and strategy decisions.
- Ensures sensitive interpretation logic stays within your control through options for private hosting and local server deployment.
- Creates a single, validated repository of truth that facilitates collaboration and consistent analysis across different teams or departments.
- Reduces compute and resource costs through efficient filtering that identifies relevant content early in the pipeline.

Price

Considerations for future work Costing and Infrastructure Project costs are influenced by API selection (ranging from £5,000 to £30,000) and ongoing compute requirements for live data pipelines. Core components can be delivered for approximately £150,000 + VAT depending on specific dashboard and validation requirements.

2.7 Edge Health Economics as a Service

Edge Health Economics as a Service allows healthcare organisations and system partners to evaluate and assess the value, impact, and cost-effectiveness of health-based interventions.

About our service

Edge Health Economics as a Service (HEaaS) is a dynamic, cloud-based platform allowing healthcare organisations to evaluate the social and economic impact of their health interventions or programmes in real-time. Moving beyond static reporting, the service integrates live data streams built on the back of our Data Analytics and Software Hub (DASH) to assess value through a precise pathway and logic model, ensuring benefits and costs are tracked when they occur. By building a bespoke data infrastructure on top of curated dashboards, HEaaS provides a clear sight to the lived reality of services, enabling continuous progress tracking against key performance indicators and supporting agile investment decisions.

Example problems solved

- **Connecting investment to impact:** Maps costs and benefits directly to specific points in the patient pathway, ensuring financial and social value is attributed correctly across complex systems.
- **Enabling complex modelling in data-scarce environments:** Leverages advanced statistical methods to bridge data gaps, allowing available datasets to power complex population and simulation models. This ensures robust economic assessment even for novel interventions where direct evidence is limited.
- **Eliminating information latency:** Replaces outdated, retrospective analysis with live data updates, allowing leaders to track the progress of interventions against KPIs as they happen.
- **Evidence-based business case development:** Generates the robust, granular evidence base required for business cases, ensuring decisions are grounded in the true economic reality of the service.

Features

- **Pathway-based logic modelling:** Unique framework that tracks the flow of costs and benefits across specific pathway stages to pinpoint exactly where value is generated.
- **Live progress tracking:** Integrated dashboards provide real-time updates on Key Performance Indicators (KPIs), offering an immediate view of intervention success.
- **Advanced economic simulation:** Utilises R, Python, and SQL to run sophisticated cost-utility, cost-benefit, and scenario analyses based on live variables.

- **Feedback & Iteration Loops:** Includes mechanisms to capture qualitative feedback alongside quantitative data, ensuring the model reflects the reality.
- **Dynamic data integration:** Built on the back of our bespoke DASH, publicly available data and literature can be curated and incorporated into health economic analysis within HEaaS, allowing for more complex cost-benefit simulation modelling.
- **Tailored Output Suite:** Delivery of results through dynamic Excel models, technical RMarkdown reports, or executive PowerPoint decks. Outputs are customised assess against your relevant aims, objectives and timescales.
- **Scenario Testing:** Platform allows flexibility to test different scenarios to understand the economic impact of different pathways or interventions to guide decision-making.

Benefits

- **Versatile & Responsive:** Adapts to specific organisational requirements with a flexible technical stack that grows with your data needs.
- **Single source of truth:** Facilitates joint system working (e.g., Cancer Alliances) by providing a central, live dataset that all partners can trust.
- **Actionable "Line of Sight":** Bridges the gap between high-level economic theory and the daily operational reality of the service.
- **Built on curated, updated data:** Ensures decisions are never made on live and updated information by maintaining a rigorously updated data backbone.

Pricing and Delivery

Standard Solution A standard health economics solution, delivered within six working weeks, is **£55,000 + VAT**. This price can vary depending on the precise requirements, the complexity of the data, and the specific scope of the project.

How we work Our work is tailored to your needs through initial scoping and kick-off meetings. In addition to regular check-ins, our team remains available for a defined period after completing the agreed outputs to ensure successful implementation.

3 Edge Health Cloud Support

Data engineering and dev-ops support for migrating, building, maintaining and expanding your data platform.

About our service

Edge Health can provide support in building and improving your data platform. With cloud expertise in a number of cloud platforms such as Microsoft Azure, Google Cloud Platform (GCP), Amazon Web Services (AWS) and Palantir Foundry. Our experience is across a number of services such as Databricks, Azure Synapse, BigQuery and we are familiar with popular cloud tools including Docker, Kubernetes and Terraform. Support can take any shape such as:

Refactoring legacy pipelines to cloud native solutions following 'lift and shift' migrations

Building new pipelines to ingest and transform data to make it available for use in further analysis

Build automated processes for providing regular insight for your data, including regular PDF reports on performance, dashboards showcasing key metrics and deploying/maintain apps that rely on regular data feeds.

With the support of Edge Health, you can take your data platform to the next level. Building and improving automated reporting will allow for instant insight into your data allowing for the identification of potential problems and opportunities. The building of fault tolerant cloud solutions and pipelines will allow for focus on actioning insights, not maintaining solutions.

Features:

- Experts in analysis, allowing for data pipelines to be built with the end user in mind. This will ensure that solutions have as much impact as possible.
- Support for big data analytics, with expertise in Spark, Hadoop and other big data technologies
- Flexibility on work that can be carried out, allowing for simultaneous identification and development of new opportunities.

Benefits:

- Experience with a number of public cloud platforms including Azure, AWS, Google Cloud Platform (GCP) and Palantir Foundry as well as on-premises solutions.
- Experience with serverless technology to optimise cloud spending.
- Expertise in Dev-ops technologies including Docker, Kubernetes, Terraform, Ansible and others to ensure service resiliency

Pricing

Pricing depends on the intensity of support required but ranges from £58,000 + VAT to £114,000 +VAT per quarter. The price will be agreed during the scoping stage of the project and would be set for the term of the contract.



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If you want to read more about our work, or contact us. Please visit our website:

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