



METHODS
ANALYTICS

Methods Analytics GCloud 11 Service Definitions CCS

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1. Methods Analytics Services

1.1 Methods Analytics: Delivering Better Outcomes

We believe that access to high quality information is indispensable in effective decision making. Our vision is to deliver actionable knowledge to decision makers.

In health care we provide intelligence on population provision and needs, healthcare provider clinical performance, to enable the public, commissioners, providers, and policy makers to have comparable, transparent intelligence to make decisions on. We can predict and analyse the quality of healthcare services, making comparisons, assessing change over time and providing credible insight on the needs of the population within a local context. We use the latest research methods, and a wide range of information sources and tools to ensure that our information is robust, and evidence based. We work closely with healthcare professionals and the public to understand the type of intelligence they need from us.

We are an independent organisation, ensuring that in client-side activities we are always fair and impartial, and provide pragmatic advice. For any assignment, we aim to reduce risk, create simple enabling structures, and use evidence-based tools and approaches.

Methods Analytics Team comprises a highly qualified and experienced group of information and data science specialists primarily focused on the provision of strategic intelligence around quality and safety of care for the healthcare market in the UK. We increasingly work in a variety of other sectors including Life sciences, Defence, Police, Education, Central, Local Government and academia.

We have extensive knowledge of the datasets frequently used in the public sector. We use a wide range of information sources and tools to ensure that our information is robust, and evidence based, and we work closely with stakeholders and the public to understand the type of intelligence they need from us. Methods Analytics has developed a range of analytics products that are free to the public. We also provide specifically commissioned bespoke analysis as well as specialised information products that are available on a subscription basis as a managed service.

Our core capabilities include:

- Benchmarking and comparative analysis
- Interpretation and insight to develop a compelling narrative
- Independent investigations of urgent care, mortality or pathway failures
- Predictive Analytics
- Data Science
- Capacity modelling and pathway redesign
- Business intelligence product and bespoke tool development
- Business Intelligence Managed Services
- Development as a Service

1.2 Our Role in Big Data

The UK public sector produces huge quantities of data for a wide range of purposes including welfare, population, tax, driving licences and identity, as well as for managing healthcare.

“Big Data” refers to these very large datasets, and new, big data tools enable us to seek insight by combining and examining disparate sources of data. The volume of data released already gives us the opportunity to support clients in driving better organisation, learning and innovation. The opportunity for significant change – transformational change - is immense.

This includes better integration of health and social care; better support for those seeking work; reductions in tax fraud and error. The scale of benefit possible is likely to be in the tens of billions per annum should we choose to optimise the big data opportunity and act on the findings.

All these areas – health, social care, welfare, housing and tax are areas of significant spend and major inefficiency. Applying the learning and insight that can be developed from information already held will improve the quality of services and make huge savings for the public sector, yielding a better set of more targeted services for citizens.

2. Methods Stethoscope™ (Cloud Software)

Stethoscope™ is an advanced analytical platform providing a managed service approach for NHS customers to access monthly updated quality, safety, efficiency and organisational metrics for service improvement and performance management, benchmarked nationally.

The information contained in Stethoscope™ has been used by NHS England, CQC and NHS Improvement, supporting large scale national projects, Framework Assurance and was also part of the Keogh Mortality review process.

2.1 Stethoscope™: An Overview

Busy people need as much assistance as possible in managing the vast flows of data that the NHS generates. We think this means putting the information needed to inform action into the hands of decision makers in a way that makes accessing it and using it as easy as possible. We also think it means providing as many measures and metrics as are required, but as few as possible, to avoid confusion or overload.



Figure 1: Stethoscope™ entry page

Methods Stethoscope™ is an easy to use online platform that transforms a wide range of healthcare information into transparent, benchmarked, comparative, actionable intelligence – so that decision makers can understand variation and see opportunities to improve patient outcomes and organisational efficiency.

Stethoscope™ can be accessed through any modern web browser including Windows Internet Explorer (version 9 and above), Google Chrome, Safari, Mozilla Firefox and Opera. The system has been designed to be accessed using portable handheld devices such as iPads/Tablets and smart phones. There are no

additional plug ins or software downloads required. It is a fully maintained solution provided over a secure web-based interface.

2.2 The Methodology

There are a number of reasons why we call Stethoscope™ a service improvement platform rather than a performance management platform. We make available a view of all organisations nationally, therefore, for a given indicator or sub-indicator users can see which organisations are high performing for the item in focus, benchmarked against other organisations in England to support 'Best Practice'

Different time periods are sometimes used for different indicators, which initially can be confusing for users, however this allows the most recent data available to be displayed for any given indicator. Some indicators are potentially susceptible to rapid change, such as length of stay and readmission rates, which are shown as single monthly snapshots, whereas others such as mortality rates are shown as 'rolling year to latest date'.

Stethoscope employs a number of statistical methodologies to direct users to areas of focus. Our main approach is 'Statistical Process Control', surfacing variation so users can understand outlier status in the context of local factors.

2.3 Stethoscope™ Structure

Stethoscope™ is structured in layers:

- **Stethoscope™ Executive** provides access to the Domain and Indicator views, Alerts and My View reporting functionality.
- **Stethoscope™ Assurance** includes all of **Executive** plus the ability to further investigate each indicator providing 3 year trends, data tables, maps, VLAD plots etc.,
- **Stethoscope™ Advanced** provides all of **Executive** and **Assurance** with detailed interrogation analytics within the Advanced Analytics modules covering Mortality, Market Share, A&E, Readmissions and Length of Stay.
- **Stethoscope™ Explorer** is an additional option to Advanced Analytics, which enhances Advanced Analytics with a HES/CDS data explorer module.

2.3.1 Formats in which data can be obtained

All views in Stethoscope™ can be exported as a PDF report, including Domain, Alerts and My View. Data can be exported to Excel using the Qlikview drill down view and Advanced Analytics.

Stethoscope™ provides the following reporting views:

- Spine Chart
- Run charts (trend)
- Tables (exportable to Excel)
- Funnel Plots
- Z-Score
- Heat Maps
- GIS Maps
- VLAD plots
- Bar charts
- Pastille chart

2.3.2 Included for Subscribers

These include: **Subscriber only (monthly updated)**

- Access to all Trusts and CCGs in England
- Easy to use and interpret, for analysts, busy clinicians and senior execs
- SHMI, HSMR crude rate mortality and other sensitive metrics
- Impact rated alerts and sub-alerts for your organisation
- Set your own personal alerts against any metrics in the platform
- Slice & Dice drill down (Qlikview BI and Tableau for Advanced Analytics)
- My view user created reports and filtered dashboards
- Consultancy days included in contract for bespoke analysis/consultancy
- Updated monthly
- Free upgrades as platform evolves
- Ability to insert bespoke metrics using national or local data
- Clear Consultant name (secure user type only)
- Local Patient identifiers (secure user type only – for Acute trusts)

The core Stethoscope™ platform is continually being developed and extended. This additional content and functionality will be included in the platform for existing subscribers for no additional fee.

2.4 Stethoscope™ Training

Methods Analytics offer 2 training days in the first year at no additional cost for staff to get to know the platform, introduce how to set up custom reports and distribution lists and how to make the best overall use of the system.

We have designed the training with the same ethos as the analysis; making it insightful and accessible to decision makers and technical staff. Training materials and guidance on using the platform are already fully developed and available to distribute to users.

Training materials and general guides are available here: <https://stethoscope.methods.co.uk/what-is-methods-stethoscope-a-user-guide> and training videos are available online and we have a comprehensive 'About' section online as well as a 'Take a Tour' section on the site.

We hold quarterly meetings with the organisation to review usage, showcase new functionality and ensure that the platform remains optimised for your current priorities. We also offer bespoke services where necessary and will work closely with you to help you get the best from the findings you've made in the data.

2.5 Source of Benchmarking Data

The core platform is populated with data from many sources including the national Hospital Episode Statistics (**HES**), Secondary User Services (**SUS**), Diagnostic Imaging data sets (**DIDs**) and the Mental Health and Learning Disabilities Data Set (**MHLDDS**). We present 3 years' worth of data within the platform for any given indicator. We also use Office of National Statistics (**ONS**) data linked to HES to calculate post-hospital mortality for metrics such as the Summary Hospital Mortality Index (SHMI). We also load data from a wide variety of sources, such as the Health Protection Agency, National Reporting and Learning Service and Electronic Staff Record, amongst others. Stethoscope™ data is updated each month, or when the data is refreshed from NHS Digital and has no negative impact on the users. A full list of data sources used in the core platform is available from Methods Analytics. We are on the NHS Digital Register of approved data releases as can be seen at:

http://www.hscic.gov.uk/media/16064/Register-of-approved-data-releases---January-2015/xls/Copy_of_Data_releases_register_-_01-07-2014_to_30-09-2014_-_ver1.xlsx .

3. Online Survey, Audit and Data collection platform (Cloud Software)

Methods Analytics' have developed a platform focussed on collecting data securely from users, that can be deployed to your organisation and fully configured to your data collection and reporting needs. The platform allows you to setup your organisation structure, your teams, service lines and locations and then configure the questions you need answered by users in those teams through an intuitive front-end. Admins are able to configure different types of data for collection, including;

- Numerical
- Yes/No
- Text strings
- Multiple choice
- Dropdowns
- Risk and issue logs
- Document submission

The data collection schedules are controlled by admin users and there are configurable levels of sign-off within the platform, along with email and in-app notifications when activities are undertaken and completed. Organisations can configure user permissions, registration requirements and user groups, ensuring access to the data is effectively managed. All user actions are fully audited and visibility of this metadata can be configured for display or provided in reports.

The collected data can be analysed within the platform to produce benchmarking dashboards, analysed using SPC, calculated to produce rates, exported for analysis externally and explored using D3 charting within the platform. Users are able to configure self-service reports and schedule regular emailing of datasets to non-registered users. We are also able to overlay our data science capabilities on the data collected to produce novel analysis, including using Natural Language Processing and semantic analysis to provide insights into text strings and comments from users.

The platform is currently being used to run nationwide audits, NHS-wide data collections and locally within individual organisations to survey their employees and collect benchmarking data. It was built to help organisations move away from MS Excel, MS Access and Sharepoint based data collection, to reduce effort, gain control and provide a more enjoyable and manageable user journey.

The platform is well suited to large, multi-disciplinary and multi-site organisations e.g. large healthcare providers, councils, social care providers. It can be hosted on-site, or within our secure, GDPR-compliant cloud infrastructure or within our highly-secure, NHS IG-compliant physical datacentre.

Features:

- Secure data collection
- Fully configurable
- Perfect for collecting data across organisational teams, services and locations
- A comprehensive end-to-end information system
- Easy to access web based solutions
- Data visualisations
- Data export
- Bespoke dashboards
- Application of statistical methodologies to your data
- Enhanced reporting solution for the creation of custom reports
- Online user guide
- Training provided
- A fully managed infrastructure and security implementation
- Customisable maintenance and update packages

Benefits:

- A secure survey tool that can replace MS Excel, Access and Sharepoint data collection
- Collects many types of data
- Reduces complexity of configuration – anyone can setup a wider ranging data collection with no prior technical knowledge
- Aids collaboration
- A platform for sustainable future development
- Workflow Automation and notifications
- Provides information for strategic planning

4. Methods Analytics: Health Care Consulting Review Services (Cloud Support)

We undertake reviews focused on Mortality, Emergency and Elective pathway system demand, whole system capacity, pathway models and other areas of concern. Using a data led approach we bring a range of clinician and NHS management experience to understand the population, processes and behaviours that combine to create a problem.

We also undertake organisation and whole system capacity and flow modelling which is critical in understanding the impact of service redesign and pathway creation and alteration.

These reviews typically focus on, but are not limited to:

- Mortality
- Emergency/Elective Pathway
- Patient Flow
- Service/Pathway Redesign
- Economic impact modelling
- Root Cause Analysis
- Strategic Reconfiguration
- Travel time analysis/heat maps
- Lean/Process Improvement
- Failure Investigation
- Decision tree modelling (such as Markov models, microsimulation and bootstrapping)

Benefits include:

- Increased understanding of reasons for heightened mortality (SHMI/HSMR)
- Potential to reduce Length of Stay
- Potential to reduce Readmissions
- Potential to reduce A&E attendances and admissions
- Potential to reduce breaches
- Increased understanding of root cause of system failure
- Improved patient flow and throughput
- Increased understanding of population behaviour and healthcare usage
- Better management of resources

5. Bespoke Healthcare Analytics and Managed Services (Cloud Support)

We help you to improve the use of one of your most valuable assets, your data and that of peers and competitors. We work to understand the questions you need to answer, investigate the available data to inform these questions and then transform data into easily accessible, intuitive, insightful evidence.

Examples include:

- Bespoke indicator development
- Scoping and requirement gathering
- Benchmarking, baselining, presentation and data visualisation
- Online interactive dashboards and Business Intelligence tools
- Performance reports and dashboards as a one off or ongoing managed service
- Tableau development and deployment
- Microsoft SSRS/SSIS/SSAS/PowerBI
- Bespoke visualisation design

Benefits include:

- Increased ability to understand business critical management information
- Better visualisation and ability to investigate specific problems
- Independent assurance
- Expertise regarding NHS and public nationally available data sources
- Leveraging reuse of existing/previously built assets
- Improved access to data
- Bespoke design
- No hardware costs if provided through managed service

6. Health Care Coding, Data Quality Assessments and Information Governance (Cloud Support)

Methods Analytics provide health care data consulting and advisory services for independently assessing adherence to, and assistance with, NHS information governance protocols, such as the DSP Toolkit, best practice coding standards, and data quality. We also conduct reviews of clinical coding data to identify opportunities for increased revenue.

This may include, but is not limited to:

- Clinical coding data quality audit (HES/SUS, ICD10, OPCS4, HRG, Read, SnomedCT)
- Development of clinical coding and data quality standards
- Financial data quality audit (SUS/PbR, Commissioning data set, Tariff review)
- Automatic application of data quality measures to local/CDS data
- Case note audits to assess appropriateness of admissions and delays
- Compliance to data access agreements
- Framework design for information governance protocols and implementation services

Benefits include:

- Better quality clinical coding leading to more accurate management reporting
- Early identification of coding anomalies
- Increased revenue
- Compliance with legal and NHS information governance requirements

7. Benefits Realisation & Measurement and Programme Evaluation (Cloud Support)

Methods Analytics can assist with helping you identify the strategic objectives your programme of work is seeking to achieve through defining the benefits and creating the evidence base to establish success through quantifiable metrics and undertaking program evaluation.

This may include, but is not limited to:

- Assessing benefits of health services including technology
- Creating benefits frameworks and roadmaps
- Identifying, articulating and defining benefits
- Developing metrics to evidence and quantify benefits

- Dashboards, analytics and performance monitoring
- Programme evaluation

Benefits include:

- Articulating program benefits
- Maximising value and benefit delivery
- Accurate and evidence based projections
- Assurance of process and ability to evaluate success post implementation

8. Business Intelligence and Data Warehouse Development as a Service (Cloud Support)

Methods Analytics provides Business Intelligence, Analytics and Data Warehouse development as a service for several clients in the UK public sector, which includes Data Visualisation, Integration, MIBI, Data Platform and Big Data. Specialisms include Healthcare, Education, Defence and Police. A significant part of this service involves working alongside client resources in a collaborative mentorship role so that knowledge transfer occurs seamlessly and in an ongoing fashion. These engagements predominantly involve working on client site with the Microsoft BI and Azure stack, either on-premise or in the cloud. Scoping of work packages typically occurs using an agile development approach with rapid turnaround of deliverables over several iterations, but this depends on client preference.

This may include, but is not limited to:

- Specialist MI/BI developers working on discrete work packages
- Full end to end solution development including Business Analysis, Testing, Project Management, Environment setup and deployment
- Reporting and Visualisation solutions including data acquisition, managed refresh and alerting, and integration and consolidation of legacy data sources
- Tabular, Kimball, Star Schema, Snowflake, Data Vault 2.0, Dimensional modelling, Relational Database Management Systems (RDBMS)
- Data Migration / ETL / Integration: SSIS, Alteryx, Pentaho ETL, DataStage, Talend, InfoSphere, including staging, cleansing, Data profiling, Data Factory, Data quality, fuzzy matching
- Data Warehouse / Model: SQL Server, SSAS, Oracle, Azure SQL, SAP Hana, DBA provision, APS Parallel Data Warehouse (PDW), Data Lake, Data Vault, in-memory, XML, BIML, Kimble, Tabular
- Data Visualisation: Tableau Desktop, Tableau Server, Power BI, SSRS, Excel, Qlikview, QlikSense, Business Objects
- Big data and Data Science: Hadoop, Internet of Things (IoT), Machine Learning, Elastic Search, Solr, HDInsight, Hive, Storm. Spark, MapReduce, R shiny, Event Hub, Cortana, Jupyter notebook, Python, Polybase
- Development using Agile (using scrum or Kanban) or Waterfall methodology as per customer preference
- Delivery teams as a managed service, consultancy or embedded resources

Benefits include:

- Microsoft Gold Partner accreditation for Data Analytics and Data Platform, enabling access to joint Microsoft Solution Design
- Microsoft, Tableau, Qlik and Oracle certified developers
- Reduced Human Resource overhead to on-board and manage specialist resources
- Assurance of skillset and delivery
- Assurance of knowledge transfer

- Ability to rapidly scale up or down depending on need
- Ability to assemble development team matched to preferred client technology stack
- Ability to host and refresh BI/DW solution as a managed service
- Utilisation of external analytics expertise for specialist skillsets
- Regular account management and professional managed service with Service Level Agreement (SLA)

9. Data Science & Artificial Intelligence as a Service (Cloud Support)

Methods Analytics provides Data Science and Artificial Intelligence as a Service for several clients in the UK public sector. Specialisms include Healthcare, Education, Defence and Police. A significant part of this service involves working alongside client resources in a collaborative mentorship role so that knowledge transfer occurs seamlessly and in an ongoing fashion. These engagements predominantly involve our Data Scientists working on client site conducting projects from discovery to full roll out of a Data Science delivery function for the client, typically using Data Science tools and methodologies such as Natural Language Processing (NLP), Machine Learning, Python, R, Supervised and Unsupervised methods and others. Scoping of work packages typically occurs using an agile development approach with rapid turnaround of deliverables over several iterations, but this depends on client preference.

This may include, but is not limited to:

- Data Scientists working on discrete work packages
- Supervised methods: stepwise, forward stage wise, LASSO, random forest, support vector machine, bagging
- Unsupervised methods: clustering techniques, k-nearest-neighbour
- Data Engineering and Orchestration: ETL, Integration, pipelines, modelling, warehousing, Data Factory, Data Vault, Data Lake, HDInsight, Event Hub, Data Warehouse development
- Machine Learning and Artificial Intelligence / AI, xgboost, Neural network, Bayesian model, Feature engineering, Decision tree, Graph Databases, Cognitive, NLP, edge computing
- R and Python
- Full end to end solution development including Business Analysis, Testing, Project Management, Environment setup and deployment
- Development using Agile (using scrum or Kanban) or Waterfall methodology as per customer preference
- Delivery teams as a managed service, consultancy or embedded resources

Benefits include:

- Microsoft Gold Partner accreditation for Data Analytics and Data Platform, enabling access to joint Microsoft Solution Design
- Microsoft accredited developers in Cortana Analytics suite
- Reduced Human Resource overhead to on-board and manage specialist resources
- Assurance of skillset and delivery
- Assurance of knowledge transfer
- Ability to rapidly scale up or down depending on need
- Ability to assemble development team matched to preferred client technology stack
- Ability to host and refresh BI/DW solution as a managed service
- Utilisation of external analytics expertise for specialist skillsets
- Regular account management and professional managed service with Service Level Agreement (SLA)

10. Data Science and Predictive Analytics (Cloud Support)

Our Data Scientists and Predictive Analytics team bring together a wealth of experience including a knowledge of C#, R, SAS, SPSS, Python and SQL. We have substantial expertise in turning real world data into actionable intelligence by applying various artificial intelligence techniques such as Machine Learning and Natural Language Processing.

Features:

- Handling and analysing big data
- Risk stratification and population segmentation modelling
- Linear regression modelling
- Propensity matching
- Holt-Winters forecasting
- Capacity/demand modelling
- Expertise in NHS data sources
- Healthcare data integration
- Fuzzy data matching
- Key term extraction
- Predictive algorithm development and deployment

Benefits:

- Improved access to, and use of existing datasets
- Understanding business critical information by mining complex data
- Use of semi-structured or unstructured data
- Independent assurance
- Ability to understand inefficiencies within system wide models
- Ability to predict future outcomes and risk
- Ability to investigate specific problems
- Leveraging reuse of existing/previously built assets
- Understanding of healthcare data

11. Value and Outcomes Based Pricing Contract Monitoring

Methods Analytics offer a service to work with the NHS and Lifescience industry to design and implement value and outcome based contract solutions. Methods Analytics support both industry and the NHS to work through agreeing the contract measures and KPI's along with providing a platform which collects and surfaces performance against the agreed measures. Our monitoring system integrates with your medical record systems allowing trusts to implement and monitor value and outcome based pricing contracts for medical devices and pharmaceuticals.

Features

- Contract design support
- KPI identification and definition
- KPI threshold modelling and contract simulation

- EMR Integrated solution
- Analytical Dashboard to look at performance of contracts
- Managed service by impartial third party
- Full time user support
- Full training for all users
- Regular updates
- Ability to add additional modules and functionality
- Transparency in methodology
- Sanitised view of data for industry

Benefits

- Quantify value of treatments
- Generate evidence
- Work with industry towards common goals
- Optimise treatment of patients
- Improve access to more innovative evidence
- Create a win – win scenario for patients, industry and Healthcare

12. Clinical portal web development (Cloud Support)

Methods Analytics' Agile development team work with clinicians, healthcare managers and analysts to deliver secure, configurable and intuitive web portals. We have extensive experience in specifying and building systems to collect, integrate, analyse and visualise quantitative and qualitative data for users across healthcare to facilitate service and clinical improvement. Our Clinical web portals are also used to increase workflow automation and provide information for strategic planning of care pathways.

Focussing on user stories, journeys and experience, we provide web and system development that can be deployed quickly, over existing infrastructure and meets all relevant NHS Information Governance requirements. We have worked with Acute providers, Commissioners, GPs, STPs and regulatory bodies across healthcare to deliver new products, enhance existing systems and work with existing development teams.

Features

- A comprehensive end-to-end information system
- Easy to access web-based solutions
- Data visualisations
- Data export
- Bespoke dashboards
- Application of statistical and predictive methodologies to your data
- Enhanced reporting solution for the creation of custom reports
- Online user guide
- A fully managed infrastructure and security implementation
- Customisable maintenance and update packages

Benefits

- Utilisation and collation of your data
- Compare your data to national data in one solution
- Aids collaboration

- A platform for sustainable future development
- Workflow Automation
- Provides information for strategic planning of care pathways

13. Web Portal development (Cloud Support)

Methods Analytics' Agile development team work with client stakeholders and analysts to deliver secure, configurable and intuitive web portals. We have extensive experience in specifying and building systems to collect, integrate, analyse and visualise quantitative and qualitative data for users across the public and private sector to facilitate service and improvement. Our web portals are also used to increase workflow automation and provide information for strategic planning.

Focussing on user stories, journeys and experience, we provide web and system development that can be deployed quickly, over existing infrastructure and meets all relevant Information Governance requirements.

Features

- A comprehensive end-to-end information system
- Easy to access web-based solutions
- Data visualisations
- Data export
- Bespoke dashboards
- Application of statistical and predictive methodologies to your data
- Enhanced reporting solution for the creation of custom reports
- Online user guide
- A fully managed infrastructure and security implementation
- Customisable maintenance and update packages

Benefits

- Utilisation and collation of your data
- Compare your data to national data in one solution
- Aids collaboration
- A platform for sustainable future development
- Workflow Automation
- Provides information for strategic planning of care pathways

14. Healthcare data model design and development (Cloud Support)

Methods Analytics undertakes development of healthcare data models and taxonomies that are specifically designed to support reliable and robust data collection and quantitative analysis, covering a wide range of health settings and pathways. Our approach emphasises flexibility and usability, with a focus on addressing real-world clinical and operational health issues.

Features:

- Data models supporting wide-ranging national programmes such as GIRFT
- Ontologies and models for specific purposes, e.g. safety reporting
- Model redesign and improvement based on analysis of existing data
- User-centred focus to ensure usability and tight focus on key issues

- Agile methodology enabling rapid, high-quality outputs
- Compliance with established standards and pragmatic adoption of best practice

Benefits include:

- Designs that support advanced quantitative analyses
- Rapid and robust development, stakeholder evaluation and technical testing
- Facilitation of software and system implementation
- Hierarchical structures supporting appropriate levels of granularity and multiple perspectives
- Minimisation of efforts needed to manage legacy datasets and analyses

15. Health care intelligence, data provision and integration (Cloud Support)

Methods Analytics has developed extensive intellectual property around Healthcare intelligence supporting many organisations through bespoke managed services, reporting and consultancy services to support interpretation and information driven action. Through all this work we recognise that customers often require varying solutions to utilise data and information along with how they further present this internally or to their customers.

Methods Analytics are unique in their approach to supporting customers from the discovery and development of indicators and metrics, from national and local data sets, provision of data for customer insight to the development of new advanced algorithms. These can then be provided through the licence of source code or through a 'white labelled' product from Methods to the outright purchase of developed code to be used in client systems.

Features:

- Data extraction and provision to life sciences for market intelligence
- SQL code licensing for 'off the shelf' metric provision
- Discovery and development of advanced algorithms in partnership – SQL code developed
- Reporting integration into existing dashboards

Benefits:

- Flexibility for the customer to retain own visuals
- Rapid deployment for customers to use leading edge healthcare intelligence metrics
- Ownership of product without the development
- Access to national data for specific projects under licence
- Expertise regarding NHS and public nationally available data sources
- Leveraging reuse of existing/previously built assets
- Improved access and use of existing datasets

16. Population Health Management (Cloud Support)

Population health management is the approach to healthcare that uses novel contractual models and analytical techniques such as segmentation, risk stratification and case finding to improve the outcomes from and efficiency of care provision. Our Data Science and Analytics team bring together a wealth of experience including a knowledge of R, SAS, SPSS and SQL. We have expertise in the aggregation, linkage and analysis of multiple data sets, including healthcare and local authority data, to provide actionable intelligence and further improve population health outcomes.

Features:

- Risk stratification modelling, such logarithmic regression, cluster analysis and neural networks
- Big data, Machine Learning/Artificial Intelligence techniques, Fuzzy data matching
- Outcome framework development, Population baselining, benchmarking, local needs assessment
- Contract KPI definition, metric creation, Population segmentation, case finding
- Capacity planning and service reconfiguration modelling, using techniques such as discrete event simulation and system dynamic modelling
- Outcomes and contract monitoring through dashboards and online portals
- Service evaluation using both micro randomised control trials (RCTs) and causal modelling, such as propensity score matching and instrumental variable analysis
- Data management for population health models including data integration and linkage
- Provision of ongoing managed service population health solutions through web interfaces
- Deliver a targeted Pilot- PoC to pre agreed timelines , milestones and budget to demonstrate evidence based results and ROI.

Benefits:

- Analyse clinical data across a patient's many care settings
- Improve patient health outcomes
- Improve providers' financial outcomes
- Statistically based evidence in an increase in a defined population's health
- Ability to investigate specific population types
- Ability to develop focused approach to managing a patient or condition cohort
- Development of an outcome framework that can be used for contracting and driving care quality and efficiency
- Ability to identify patients at risk of poor outcomes or incurring high cost
- Ability to manage the multiple data flows necessary for population health management
- Ability to provide live monitoring of contract KPIs for both provider and commissioner
- Identify patient cohort most likely to benefit from an intervention.

17. Primary Care prescribing and Medicines Optimisation benchmarking and analysis (Cloud Support)

Our experienced pharmacists and specialist analysts are expert in the use of primary care prescribing data to enhance local service offerings, reduce costs and identify areas of good and poor practice. They use this insight to deliver practical approaches for the delivery of better care at lower cost.

Features:

- Peer benchmarking of primary care prescribing at practice and CCG level
- Support, design and planning to support Medicines Optimisation initiatives
- Projected cost modelling to provide early warning systems against unexpected cost rises
- Best practice identification
- Powerful local area analytics
- Peer comparators using statistical process control
- Pharmaceutical substitution and switching

- Cost forecasting
- Quantitative impact modelling
- Clinical expertise using evidence-based practice
- Online web-tool for monitoring
- User Testing and refinement
- 'Go live' and user training
- Tableau server solution

Benefits:

- Powerful medicines spend and prescribing insight
- Large time savings
- Potential to automate and use Expert System techniques
- Insight into prescribing practice
- Implementation of best practice
- Cost savings
- Quality-of-care Assurance
- Improved financial planning

18. Methods Stethoscope Pricing, Cloud Software & Cloud Support

- The price for Methods Stethoscope™ is tiered to allow organisations to have different levels of access depending on need

Description	Annual Licence
Stethoscope™ Executive	£12,000
Stethoscope™ Assurance This includes Executive as described above	£24,000
Stethoscope™ Advanced Analytics & Explorer This includes Executive and Assurance as described above	£35,000

- Stethoscope™ Executive – providing access to the web layer in the platform which provides access to the indicator level, alerting and reporting, this is priced at £12,000/annum.
- Stethoscope™ Assurance – providing a further guided drill down layer of top level indicators, priced at £24,000/annum.
- Stethoscope™ Advanced Analytics including Explorers – providing guided analytics down to the lowest level of granularity available within the data set, by indicator, along with tableau based, HES and SUS data explorer which can be enhanced with local data sets including CDS from Acute trusts, is priced at £35,000/annum. *[NB: additional local data sets not currently mapped will incur a development fee with all future uploads included in the annual fee]*
- Bespoke additional Indicator development is covered within the SFIA Rate Table.

19. Cloud Support (SFIA Rate Card)

All our services – except Methods Stethoscope™ and Business Intelligence and Data Warehouse as a Service (see overleaf) - are priced by a common set of rates tables, based on the ‘Skills for the Information Age (SFIA)’ Definitions & Rate Card, as shown below. This gives day rates for consultants of different levels of experience undertaking different types of roles in different types of projects.

	Strategy & architecture	Business change	Solution development & implementation	Service management	Procurement & management support	Client interface
1. Follow	£400-£550	£400-£550	£400-£550	£400-£550	£400-£550	£400-£550
2. Assist	£450-£650	£450-£650	£450-£650	£450-£650	£450-£650	£450-£650
3. Apply	£500-£800	£500-£800	£500-£800	£500-£800	£500-£800	£500-£800
4. Enable	£850-£950	£850-£950	£850-£950	£850-£950	£850-£950	£850-£950
5. Ensure/Advise	£900-£1150	£900-£1150	£900-£1150	£900-£1150	£900-£1150	£900-£1150
6. Initiate/Influence	£1150-£1400	£1150-£1400	£1150-£1400	£1150-£1400	£1150-£1400	£1150-£1400
7. Set Strategy/Inspire	£1400-£1750	£1400-£1750	£1400-£1750	£1400-£1750	£1400-£1750	£1400-£1750

Standards for Consultancy Day Rate cards

- Consultant’s Working Day – 8 hours exclusive of travel and lunch.
- Working Week – Monday to Friday excluding national holidays
- Office Hours - 09:00 – 17:00 Monday to Friday

- Travel and Subsistence – Included in day rate within M25. Payable at department’s standard T&S rates outside M25.
- Mileage – As above
- Professional Indemnity Insurance – included in day rate.

**Excluding Business Intelligence and Data Warehouse as a Service – see specific SFIA rate card below*

20. Business Intelligence and Data Warehouse as a Service (Cloud Support)

This gives day rates for consultants of different levels of experience undertaking different types of roles in different types of projects specifically for Business Intelligence and Data Warehouse as a Service line.

	Strategy & architecture	Business change	Solution development & implementation	Service management	Procurement & management support	Client interface
1. Follow	£325	£300	£300	£300	£300	£275
2. Assist	£500	£400	£375	£375	£375	£350
3. Apply	£575	£500	£470	£470	£470	£440
4. Enable	£650	£600	£575	£575	£575	£525
5. Ensure/Advise	£800	£800	£775	£775	£725	£625
6. Initiate/Influence	£1200	£1200	£1100	£1000	£900	£850
7. Set Strategy/Inspire	£1600	£1,400	£1350	£1300	£1275	£1100

Standards for Consultancy Day Rate cards

- Consultant’s Working Day – 8 hours exclusive of travel and lunch.
- Working Week – Monday to Friday excluding national holidays
- Office Hours - 09:00 – 17:00 Monday to Friday
- Travel and Subsistence – Included in day rate within M25. Payable at department’s standard T&S rates outside M25.
- Mileage – As above
- Professional Indemnity Insurance – included in day rate

21. Additional Information

Service Management

Methods' consultancy services are accredited to ISO9001 quality standards and delivered according to a proven PRINCE2 or Agile based project management methodology. We are accustomed to working in close collaboration with clients, often on-site, against agreed work and deliverable schedules.

Training

Training is not a requirement of consultancy services; however, Methods always aims to provide skills transfer to client staff throughout assignments. We are also offering to provide training services to client staff on the new products, systems and processes that may be associated with a Cloud solution implementation.

Ordering and Invoicing

Methods is an experienced framework contractor and orders through the G-Cloud framework would be treated in the same way as orders through our other many frameworks across Government. This would involve discussion of requirements, agreement and completion of a Call Off contract, and submission of a Purchase Order. We would then set up a mutually acceptable start date and commence work.

Invoicing would be based on the submission of monthly timesheets and any expenses for the consultants providing the service, along with our invoice. Payment terms are 30 days.

Termination Terms

Since there is no licencing agreement for the consultancy services we are offering, there are no additional termination terms, which would be in accordance with the Framework Agreement and the Call Off contract.

Customer Responsibility

For any give call off requirement, the dependencies on the customer associated with the work (which would differ in each case) would be discussed and agreed before commencement, and form part of the Call Off contract.