



G-Cloud 14
Service: Data Visualisation &
Modelling

Lot 3: Cloud Support



EMPLOYER
RECOGNITION
SCHEME

BRONZE AWARD



**UK'S LEADING
MANAGEMENT
CONSULTANTS**

2019 – 2024



Our Mission

Alchemmy was established with a pioneering spirit to transform the consultancy landscape. Its mission revolves around placing the priorities of both clients and team members at the core of its operations. Dedicated to creating innovative solutions and assisting clients through complex challenges, Alchemmy aims to deliver sustainable change that advances business and technology.

Why Choose Us

People-Centred Approach:

Dedicated to prioritising customer needs, making sure each action and decision is centred around the customer's best interests, while engaging stakeholders at every level of seniority.

Collaboration & Partnership:

Building genuine partnerships through a collaborative and trust-based approach, ensuring a seamless transfer of knowledge and expertise.

Innovation & Excellence:

A passion for great ideas and the pursuit of excellence in solving problems and implementing strategic changes.

Humility & Teamwork:

While taking work seriously, maintaining a culture of humility and promoting teamwork, emphasising a 'with you, not to you' philosophy.



Our Key Achievements

Successful delivery of large-scale digital and data change programmes for major public and private sector organisations, showcasing Alchemmy's capability to handle complex transformations.

Establishment of enduring partnerships with leading organisations, enabling strategic and beneficial changes across various industries.

Cultivation of a highly experienced team with a successful track record, reinforcing Alchemmy's reputation as a leader in consultancy.

What this means for you:

Alchemmy stands out for our unwavering dedication to customer service, innovation, and value, backed by a team of professionals who are committed to making a meaningful difference. Our unique approach to consultancy, focusing on genuine partnerships and collaborative success, makes Alchemmy the ideal choice for organisations looking to navigate and thrive in the complexities of business and technology change.

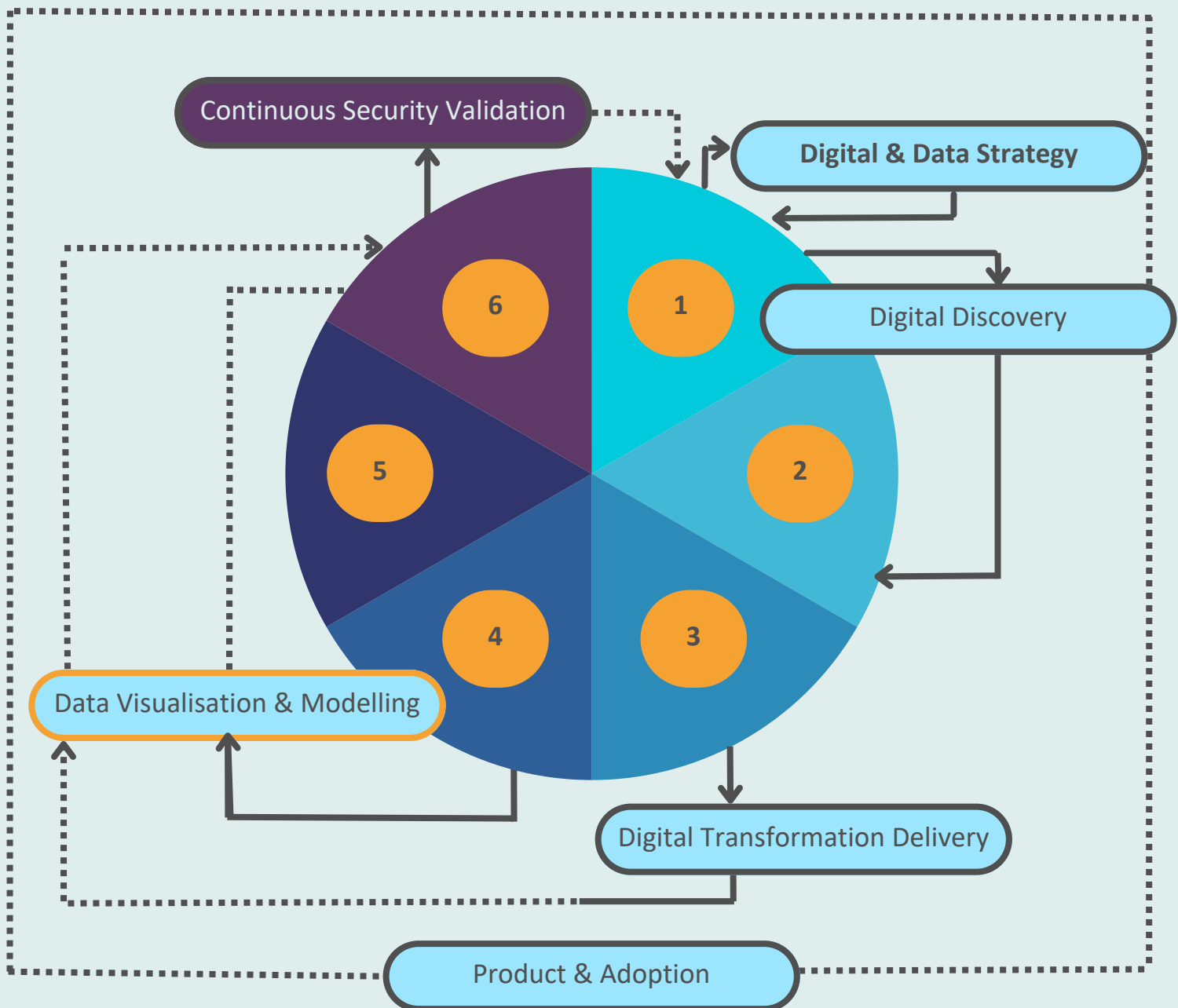
The Alchemmy Digital Lifecycle

Key:

1 - Strategy & Planning -> 2 - Design & Development -> 3 - Implementation & Integration
-> 4 - Visualisation & Modelling -> 5 - Training & Adoption ->
6 Review & Continuous Improvement

Our G-Cloud Consulting Services

Our G-Cloud Cyber Services





Data Visualisation & Modelling Overview:

Alchemmy's comprehensive business intelligence (BI) and data visualisation services empower organisations with strategic insights and data-driven decision-making. Our tailored solutions integrate technical and business change expertise. We explore trends and performance indicators, highlighting key improvement areas, representing data in a user-friendly format, regardless of technical proficiency, enhancing appetite for change.

Features:

- **Business Intelligence Alignment:** Ensures strategy meets organisational objectives.
- **Holistic Solution:** Addresses technical and organisational challenges.
- **Data Management:** Identifies, collects, and cleanses for visualisation.
- **Automation:** Standardises data pipelines into dashboards.
- **Data Modelling:** Transforms data into reusable star schemas.
- **Quality Assurance:** Thorough testing for reliable results.
- **Seamless Deployment:** Integrates interactive, user-friendly dashboards into business as usual.
- **User Training Programme:** Enhances data literacy and dashboard integration.
- **Expertise in Visualisation:** Using various tools, including PowerBI and Tableau.
- **Ongoing Managed Service:** Provides continuous support and capability.

Benefits:

- **Live Dashboard:** Monitor and analyse your important data.
- **Data Literacy:** Promotes data-driven decision-making.
- **KPI Tracking:** Real-time measurement and visual monitoring.
- **Business Alignment:** Maximises revenue, cost, and efficiency impacts.
- **Data Storytelling:** Transforms complex information into actionable insights.
- **Reliable Insights:** Ensures repeatability through automation and robust modelling.
- **Change Management:** Expertise facilitates high BI solution uptake.
- **Partner Collaboration:** Continuous during build and implementation.
- **Secure Design:** Services fit for regulated environments.
- **Single Truth Delivery:** Consistent interpretation across users.

Data Visualisation & Modelling - Detailed Service Description



1. Planning & Requirements Gathering

Aligning the business intelligence strategy with the organisation's objectives is crucial for ensuring the delivery of actionable insights, that drive informed decision-making. To identify the specific needs and requirements, we conduct a series of interviews and workshops with key stakeholders, diagnosing and quantifying the critical metrics, key performance indicators (KPIs), and data sources essential to meeting business goals and enhancing operational efficiency. Information captured is translated into a project plan, detailing data collection, modelling, dashboard development, quality assurance, deployment, training, and managed service stages.

Benefits:

- Alignment between business objectives and dashboard solution.
- Identifies key stakeholders and delivers enhanced communication and collaboration.

2. Data Sourcing & Collection

Identifying, gathering, and refining the data required for the dashboard. After evaluating the data, we can determine what can be feasibly achieved with it based on the available information. If the data is not suitable, our team can assist with data sourcing to meet the business requirements.

Benefits:

- Accessibility to relevant data for analysis.
- Ensuring data integrity and quality through robust sourcing methods.
- Facilitating real-time or batch data updates for dynamic reporting.

3. Data Modelling, Design & Dashboard Development

Modelling transforms the data into a dimensionally modelled star schema format, enhancing its suitability for in-depth analysis by optimising data structure, establishing relationships, and creating calculated fields. This structured approach facilitates efficient data retrieval and improves dashboard capabilities. The data model is translated into visually intuitive displays through the front-end dashboard design and development, offering stakeholders a clear and accessible overview of key insights.

Benefits:

- Integration of diverse data sources.
- Repeatability and automation of data analysis.
- User-friendly and intuitive dashboard interface for data exploration.
- Clear measurement of key performance indicators.

4. Quality Assurance & User Testing

Functional testing of the dashboard against user requirements, ensuring it delivers accurate information and meets usability standards through scenario-based testing. This rigorous process culminates in obtaining end-user sign-off, validating the effectiveness and addressing any refinements.

Benefits:

- Accuracy and reliability of analytics and reporting.
- Validates user requirements and expectations.

5. Deployment & Training

Deploying the dashboard to a production environment and updating business users. Alchemmy uses its expertise in business change management to ease transition and address any resistance to the new tool. Our tailored solution includes user engagement strategies and training programmes to enhance data literacy and proficiency, maximising the dashboard's utility and impact across the organisation. Integration into the BAU (business as usual) operation ensures sustained relevance and use of the product, embedding into existing processes and maximising return on investment (ROI).

Benefits:

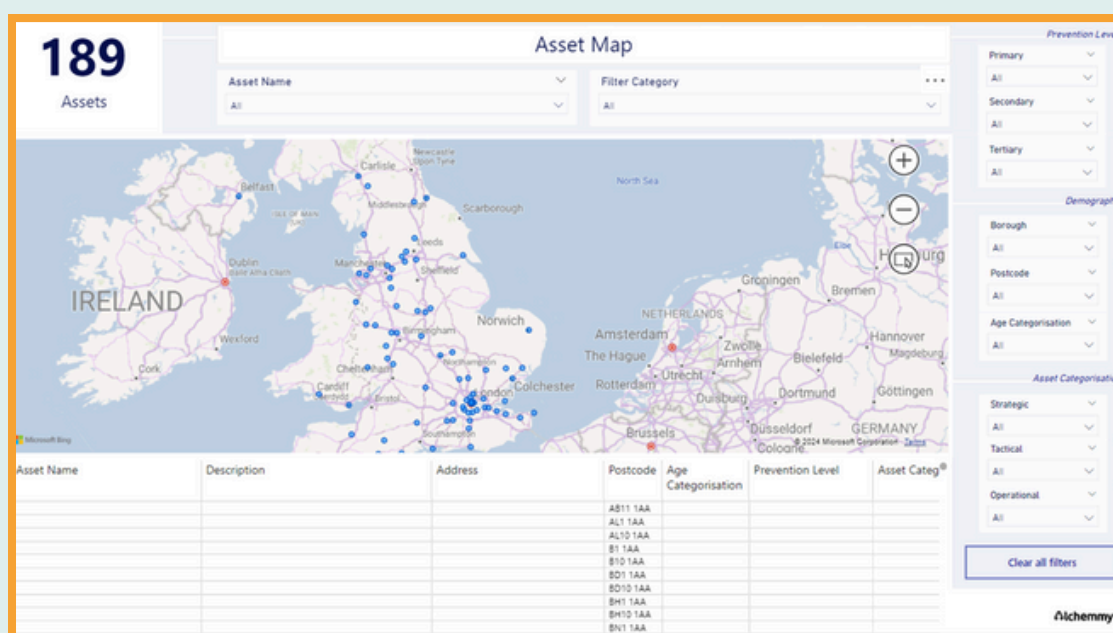
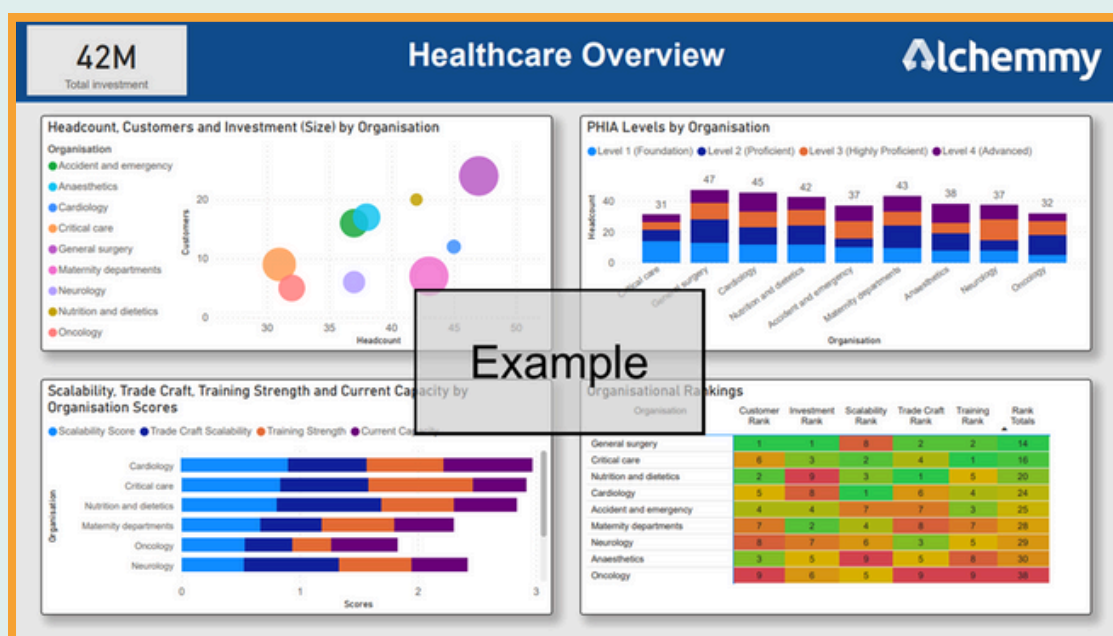
- Knowledge transfer and training enhancing data literacy and proficiency of dashboard use.
- Delivery of a single version of the truth, and single interpretation across users.
- Change management expertise ensuring seamless transition from product development to integration into BAU.

6. Managed Service

Continuous monitoring and feedback mechanisms need to be established to improve and update the dashboard based on user needs and evolving business requirements. Our end goal is to integrate and handover the new capability into your BAU. If necessary, Alchemmy offer an ongoing support and maintenance service, ensuring the dashboard remains up-to-date and aligned with business objectives. Leveraging our expertise, we can facilitate regular reviews and updates, optimising the dashboard's performance and relevance over time.

Benefits:

- Continuous availability and performance of dashboard, maximising usage over time.
- Iterative development, updates and enhancements in line with evolving business needs.
- Support and troubleshooting should technical challenges arise.



Case Study: Merseyside Serious Violence Asset Mapping

The Challenge

Resulting from the Police, Crime, Sentencing & Courts Act 2022, the Serious Violence Duty (SVD) was introduced to mandate key public sector organisations to work together to reduce and prevent serious violence in their localities. It required Specified Authorities (*Police, Justice, Fire & Rescue, Health, and Local Authorities*) and Relevant Authorities (*for example, but not limited to, charity & voluntary sector organisations, prison authorities, youth custody authorities, educational authorities*) to work collaboratively in order to actively reduce and prevent Serious Violence in their communities.

Key Metrics

- **690 Serious Violence Assets** recorded, documented and quality assured,
- **110 Stakeholders** Engaged, across 5 Merseyside Boroughs,
- **21 Organisations** engaged with,
- **7** interactive and discussion-led **workshops**
- **5 Bespoke Sessions** to support further asset collection



Solution

Alchemmy were invited by the Office for the Police and Crime Commissioner for Merseyside to deliver a strengths-based asset mapping assessment to identify and visualise strategic and operational assets, to support the Merseyside Violence Reduction Partnership. The team adopted a people-centred, agile approach to the project. The delivery approach consisted of three sprints:

- Sprint One: Mobilisation & Literature Review
- Sprint Two: Stakeholder Engagement & Asset Collection
- Sprint Three: Quality Assurance & Final Deliverables Build

Following a comprehensive stakeholder engagement phase, we designed, built, and delivered an interactive geographical Asset Dashboard and Directory. Despite the open interpretation of the serious violence asset definition, and the unstructured nature of the asset data collection, the project team developed the data model in a way to ensure flexibility during data collection.

Outcome

The final deliverables included a Final Report, an Asset Map Dashboard, and an Asset Directory. These products supported the local partnership with dynamic and responsive tool to combat and reduce Serious Violence across the Merseyside region. The project delivered the ability for the partnership to undertake bespoke regional analysis, facilitating a deepened understanding of the system, allowing for improved decision-making to be taken.

Case Study: Violence Reduction Evaluation

The Challenge

The client wanted a clearer understanding of the prevalence of serious violence across the region. There was a need to examine differing crime types, analysis methods, levels of granularity as well as incorporating potential socio-economic drivers that may have contributed to the volume and severity of the different crimes. A wide range of drivers were needed for analysis to provide a broader perspective on potential causes of serious violence



Solution

We built out a data model that combined information from 15-20 different data sources. Each table required varying levels of cleansing and restructuring to enable consistent data conformity throughout. The tables were connected using dimensionally modelled star schema layout with appropriate & foreign key lookups in place to enable the joins of varying cardinality. Dimension tables were created to help facilitate cross filtering functionality. Calculated measures were built to perform custom aggregations which included different time series-based aggregations. Some metrics were normalised to enable more meaningful comparisons. Scores were generated to provide balanced scorecard comparisons which provided the socioeconomic context of the regions.

We were able to combine a variety of data sources totalling over 40 million rows of data. More informed decision making was possible as analysis could be performed across the different types of crime, geographical breakdowns, and time series to identify trends. This coupled with more qualitative research enabled delivering a more targeted recommendation plan.

Compliance & Certifications:

Alchemmy holds ISO27001 and Cyber Essentials Plus Certifications



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Pricing

Please refer to our Pricing Document and SFIA Rate Cards available on Digital Marketplace under G-Cloud 14.



Ideal Customers

We are industry agnostic, our services are relevant from management to leadership and to provide a general data health check or to transform specific capabilities. Our service is focused for those who are struggling with operational performance or efficiency and for customers who require change management expertise with a technical and business lens.



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