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RAPID | AGILE | DATA & DIGITAL | TRANSFORMATION

INTRODUCTION TO AMBER LABS

SME Digital Transformation Consultancy - Amber Labs are a specialist consultancy helping Public Sector deliver technology change at a pace

Robust and Transparent Delivery & Governance - our processes align to the Service Manual and Technology Code of Practice

Rapid Consultant Deployment Framework - our deployment framework ensures we provide value in weeks rather than months

Diverse Presence & Capability - we have 100+ Consultants deployed across a range of Government departments, with over 80% of our staff living outside of London

CLIENTS

Home Office

NetworkRail

Department for Work & Pensions

BAE SYSTEMS

Department for Environment Food & Rural Affairs

Sage

TECHNOLOGY

Azure

kubernetes

databricks

aws

snowflake

APACHE Spark

GOVERNMENT ALIGNMENT

Government Digital Service

Our work follows Government Service Standards

CYBER ESSENTIALS PLUS

Cyber Essentials Plus Certified

100% of staff are BPSS & majority Security Cleared

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OUR CAPABILITIES

DATA ENGINEERING	AI & ANALYTICS	CLOUD ENGINEERING	DIGITAL TRANSFORMATION	DELIVERY
Data Quality	Business Intelligence	DevOps	Front End Development	Testing
Data Architecture	Generative AI	Cloud Provisioning	Back End Development	Business Analysis
Data Governance	Data Mining	Cloud Security	Full Stack Development	PMO
Data Integration	RPA	Deployment Automation	Enterprise Architecture	Resource and Budget Management
MDM	Predictive Analytics	Cloud Monitoring	UI/UX Design	Agile/Scrum Delivery
Data Lake & Warehouse	Machine Learning	Cloud Architecture	Solution Architecture	
	Data Science		Business Architecture	
			Software Engineering	

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CLOUD DATA PLATFORM

SERVICE DEFINITION

CLOUD DATA PLATFORM

At Amber labs we work to understand and address your business needs, leveraging our knowledge and technical expertise across Cloud, Data and Digital to delivery business transformation.

Our Cloud Data Platform Service provides full project lifecycle of activities from requirements, data analysis, architecture, design, development, integration and deployment of a Cloud Data Platform. Capabilities include data management (data lake, data warehouse, data lakehouse), data integration (batch, streamed), data visualisation and data science tools and technologies.

SERVICE FEATURES

- Cloud Data Platform delivered to meet specific business objectives.

- Flexible architecture to embrace current and future workloads.

- Storage optimised for cost and performance.

- Compute optimised to eliminate idle resource.

- Prioritised workloads to be implemented onto platform.

- Data architected for specific workloads.

- Flexible ingestion mechanisms from batch to streaming.

- Data governance closely aligned with Data Platform Delivery.

- Data lifecycle applied for regulatory and business use cases.

- Secure platform for data at rest and in transit.

- Data Platform delivered to meet specific business objectives.

SERVICE BENEFITS

- Leverages cloud leading practices and principles.

- Cost optimised for both storage and compute.

- Environmental footprint built into design.

- Flexible cloud deployment using infrastructure as code.

- Data secured based on leading cloud practice.

- Compute capabilities governed by policy to avoid mis-use.

- Independent advice of cloud data platform technologies.

- Agile-based approach delivery focusing on delivering value.

- Offload capability to cloud and software suppliers where possible.

- Data delivered specific to data use-cases.

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SERVICE DELIVERY

DELIVERY OVERVIEW

We firmly believe that matching the right delivery methodology to your project is essential for long term success. A collaborative assessment of your current delivery approaches, the nature of the specific project itself, and assessments of the delivery challenges and risks will feed into our recommendation of an optimal delivery approach. Once agreed, Amber Labs would then allocate the right delivery personnel from a pool of Delivery Managers, Scrum Masters and PMO professionals to ensure your project is set up and executed successfully. During project execution, Amber Labs will wrap its own internal project control processes around the delivery, to provide a continuous critical assessment of the state of the project and its delivery. Once established, and regardless of delivery approach, our Cloud Data Platform Service will progress through a number of typical delivery phases as defined in the following sections. All of our services are designed to be flexible such that either all or a partial set of the defined services can be provided.

PLANNING & COSTS

Our Engineers will use a range of Amber Labs estimating tools and capabilities to develop estimates for delivery of each item within the requirements catalogue. Estimates will be rolled up in order to provide an overall Estimate for the delivery of each Application. Depending on the preferred delivery methodology (see Delivery Overview), our delivery leads will provide an Implementation proposal which will include either a throughput-based costing model, or a scope-based costing model, along with required team structures, project costs, and a view of key risks and assumptions.
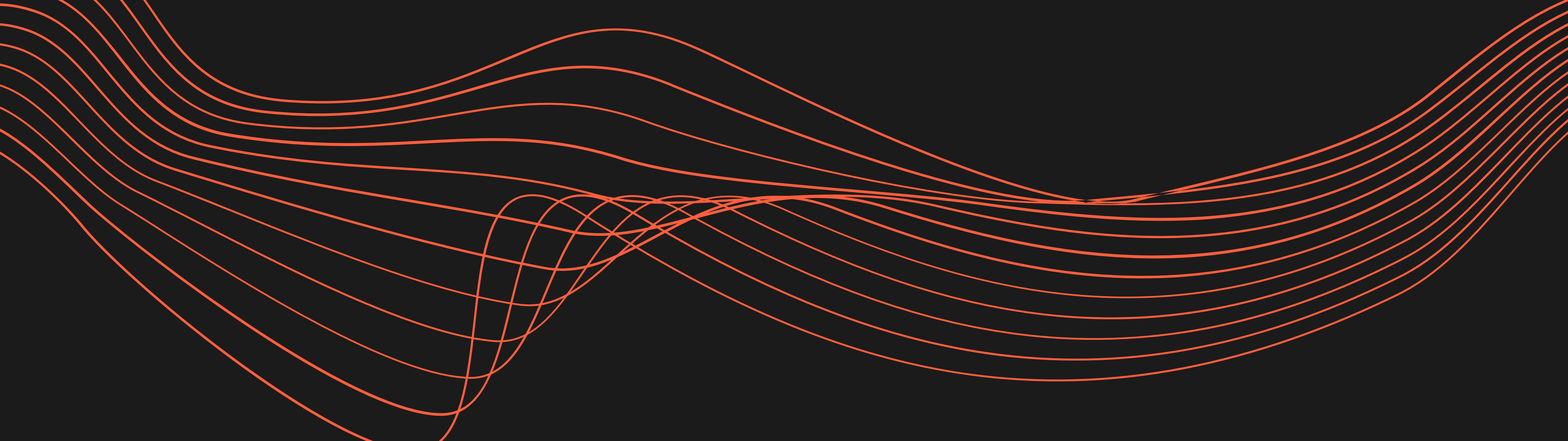
IMPLEMENTATION

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REQUIREMENTS DEFINITION & PROTOTYPING

Amber Labs will host and facilitate a series of deep dive discovery sessions to assess your Cloud Data Platform requirements. The sessions will initially focus on understanding your business and data objectives or strategies for the platform. They will then move onto more focused sessions aimed at capturing your business and data requirements and understanding the data literacy of your information workers. Planning will also need to incorporate whether the Data Platform is part of a greenfield cloud implementation or being implemented on an existing cloud infrastructure. So planning would need to establish the process of enabling cloud data components. Highlighting any additional procurement will be done early to accommodate procurement processes and lead-times that will impact planning. Finally having a clear priority process for the projects and capabilities being enabled on the platform will also be fed into planning, so resources can be allocated appropriately, dependencies managed and ultimately ensuring that whatever is implemented on the platform delivers value, from enabling self-service power users to centrally driven capabilities such as scheduled reporting.

ONGOING SUPPORT & MAINTENANCE

Amber Labs offer a comprehensive Support and Maintenance package for all Applications developed through out Cloud Software Engineering Service. Details of our Support Service can be located separately within G-Cloud 14.

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