

Service Definition

Mainframe Modernisation Service

FUJITSU



G-Cloud 15

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Service Overview

Many organisations are under increasing pressure to continuously improve, to reduce operational cost and risk, to create and sustain competitive advantage, to remain compliant and to grow the business. Businesses need to capitalise on their existing legacy investments and exploit their business-critical information whilst at the same time rationalising, modernising and transforming their application estate and ways of working to meet the demands of today's rapidly changing marketplace.

To meet the ever-changing needs of the business, an organisation will have to implement more flexible software and service architectures, often leveraging cloud environments, in order to meet both business functionality requirements and cost constraints.

The end-to-end set of services that Fujitsu offers to enable this adaptation for legacy mainframe applications and environments are described in more detail below and include:

- Mainframe Modernisation Services
- Design and architectural guidance
- Automated (Legacy) Code Conversion - Fujitsu Progression
- Code Migration and deployment (Microsoft Azure, Amazon AWS, Google GCP clouds and more)
- Agile Application Development and Modernisation
- Application Managed Services
- Project & Programme Services
- Benefits Realisation
- DevOps driven approach (incl. continuous integration/continuous deployment)

It is not necessarily required to include all services for each engagement, where appropriate we can tailor the approach to the specific customer situation, strategy and requirements.

Fujitsu Progression is one of the most effective automatic code conversion tools in the market. The tool is converting up to 100% of the codebase on the first run.

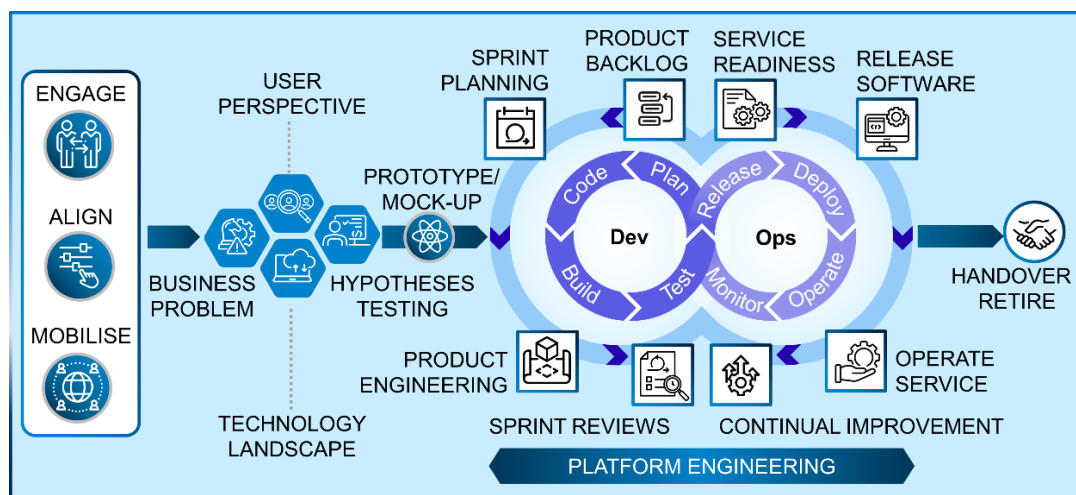
Next to our extensive Mainframe expertise, we have a unique conversion service that has proven efficiency and value-add on many engagements, drastically reducing the complexity, efforts and duration of modernization initiatives.

Agile Approach

Fujitsu understands that customers are unique. So, while understanding the importance of Agile industry methods such as SAFe, Scrum, etc. we know that these need to have the flexibility to meet each customer's specific needs.

We have created a set of working practices that can adapt the standard methods that allow us to provide flexibility while maintaining a consistent and dependable delivery, meaning that any Agile approach will be determined on a case-by-case basis.

Fujitsu's approach is defined within our Adaptive Digital Engineering (ADE) DevOps delivery methodology, which aligns with the UK Government's GDS Service Manual and is consistent with the Digital, Data and Technology (DDAT) approach, as illustrated in the following diagram.



Our services are flexible to align to this DevOps delivery methodology model, where we:

- **Build** – Fujitsu will be responsible for delivering the business outcome.
- **Supply** – Fujitsu will deliver your outcome using Fujitsu capability or a hybrid team (where Fujitsu augments your team), for a defined term including enablement and knowledge transfer to allow you to insource.
- **Deploy** – Fujitsu will deliver a Fujitsu product to help you accelerate to deliver more.

Service Scope

This document describes Fujitsu's Mainframe Modernisation Services which form part of Fujitsu's overall G- Cloud services. Fujitsu provides a full scope of Mainframe Modernisation Services based on an innovative model that forms the basis of your business case for change.

The specific deliverables from the Mainframe Modernisation Services will depend on the element(s) of the Service to be delivered. Our services include (but not limited to) the following features:

- **Resource Augmentation** – Fujitsu provides you with specialist resource to act as part of your delivery team to fill capability gaps to help accelerate success.
- **Cloud Migration Readiness Assessment** – Fujitsu will work with you to provide a rapid discovery of your current posture for cloud adoption. The output is a clear action plan to help you accelerate and de-risk your cloud migration programme.
- **Mainframe Discovery** – Fujitsu provides you with our application discovery services that allow you to gain insight into your overall mainframe landscape. This service will help you scope your mainframe modernisation programme through technical discovery, application discovery and requirements gathering.
- **Mainframe Application Strategy** – Fujitsu takes the input from an application discovery and helps you define a migration strategy for your application portfolio based on the industry cloud migration 'R' model (Rehost/Re-platform/Refactor/Rebuild/Rearchitect/Repurchase/Retain/Retire).
- **Business Case support** – Fujitsu will work with you to define the business case for your mainframe modernisation project or programme to give a clear linkage from business benefits to outcomes and planned milestones.
- **Governance Programme Management** – management of the delivery of projects and programmes aligned to the delivery model including Agile and Waterfall. The Management of Programmes includes key aspects such as governance, benefits management, release and change management and risk management.
- **User Centred Design** – Fujitsu takes an iterative approach to design with a focus on the users and their needs in each phase of the design process.
- **Fujitsu Progression** – Automated accelerated modernisation of mainframe code from legacy languages to Java or .NET.
- **Full Stack Agile Development** – Fujitsu provides development services that cover any aspect of a complete product from platform through to application including elements such as alerting and backup.
- **Testing Services** – Fujitsu provides testing services integrated with the mainframe modernisation services. Fujitsu will use automated testing approaches to ensure your applications are tested thoroughly and rapidly to support an Agile model.
- **Agility Services** - Fujitsu provides Agile services to support organisations in adopting and implementing Agile methodologies and practices. These services include; Agile coaching, training, community, consultancy and delivery. Helping you to achieve greater business Agility to accelerate change and transformation.
- **User Training** – Fujitsu provides training to the application users to ensure they understand how to use the newly delivered systems. We provide multiple levels of support from train the trainer type services through to onsite presence with floor walkers to ensure a successful go-live.
- **Release Engineering** – Fujitsu provides build and support services for your CI/CD pipeline, build tooling and developer environments.

Service Approach

Fujitsu is an experienced service integrator with unique knowledge of heritage and cloud solutions. We have delivered Mainframe Modernisation Services for large organisations for over 30 years and have deep skills in a wide range of cloud and heritage technologies.

Fujitsu as standard will deliver mainframe modernisation using an Agile model. Our model is designed to work as a responsible member of a wider ecosystem of services ensuring agility, quality, reliability and security at all stages.

Fujitsu will provide you with an agile, user-centric approach to mainframe modernisation that enables you to realise business value quickly.

The Mainframe Modernisation Services comprises the following main areas.

Agile Methodology

Fujitsu implements a collaborative DevOps approach to break down the traditional barriers that have existed between development and operations teams. Our tried and tested DevOps methodology drives professionalism in application development and application operations by fostering collaboration and standardisation.

Adaptive Digital Engineering (ADE) is our bespoke DevOps delivery methodology and accelerator that provides a framework within which Fujitsu and our customers can collaboratively design, build and operate Digital Services in line with their shared fundamental principles, values and culture. ADE has been especially developed by Fujitsu to align to the GDS Service Manual, focusing on delivering user needs by applying approaches such as; Test Driven Development, User Centred Design, Secure by Design, etc. to ensure the most robust, secure and optimised digital outcomes adding the most value for our customers.

It is a phased approach, which can be applied end-to-end or in individual sub-sections, allowing our customers the flexibility required, delivering maximum impact and business benefits. The ADE methodology is designed to optimise development, delivery and operation when Modernisation Services for our customers Digital Services.

It comprises four phases and eight stages, which are identified below and outline a workplan for delivery of successful outcomes:

Envision		Deliver		Optimise		Handover/Retire	
Learn	Propose	Discover	Build	Enhance	Operate	Enable	Close
The Envision Phase focuses upon understanding Client's requirements, working jointly to explore options to create & support exceptional digital products and services.		The Deliver Phase takes an idea or problem statement for which there is likely to be a digital solution and develops the concept from ideation to implementation; this underpinned by a strong Agile approach characterised by the continual delivery of value.		The Optimise Phase is the shift from Build to Run for a set of digital services, applications and capabilities. It focuses upon the processes for identifying and delivering new features to continually improve the product for users.		The Handover Phase is the controlled shift of responsibility, when required, from Fujitsu to the Client or a nominated 3rd party.	

Our Working Principles for DevOps are centred around collaboration, automation and continuous improvement, as follows:

- Culture of Collaboration:** we promote a culture where development, operations and other stakeholders collaborate seamlessly, breaking down silos and fostering shared responsibility, as One (DevOps) Team.
- Automation:** we maximise automation for driving optimum efficiencies, that include infrastructure provisioning, testing, deployment and monitoring, to ensure quality, reduce errors and accelerate delivery.
- Continuous Integration (CI):** we encourage frequent integration of code changes using industry-standard tools e.g. Jenkins, GitLab, AWS DevOps, etc., enabling early detection of integration issues and ensuring that the software remains in a deployable state at all times.
- Continuous Delivery (CD):** we promote the practice of automating the delivery process to deploy code

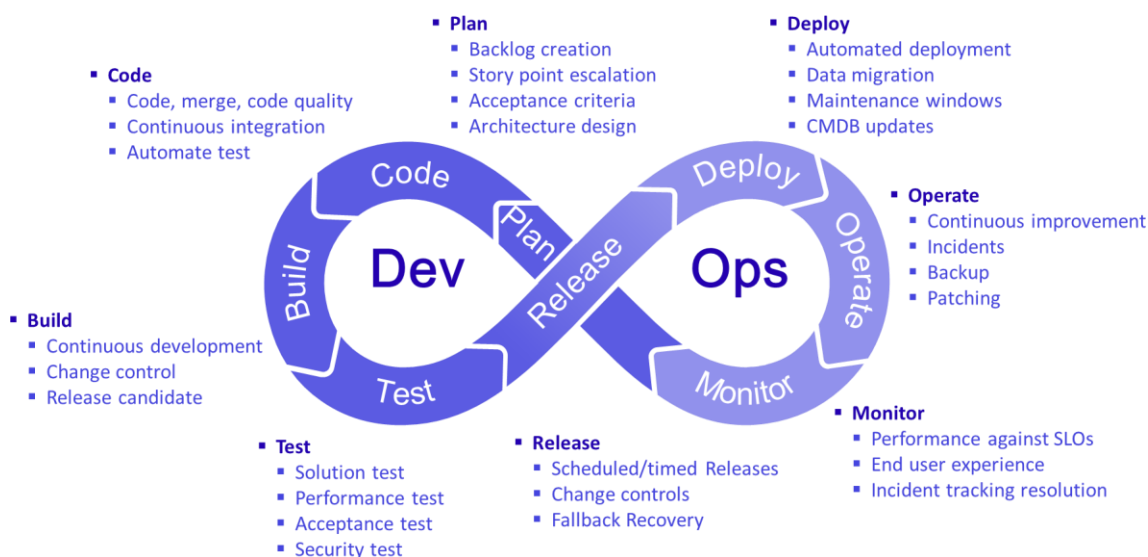
changes into production or other environments rapidly, reliably and frequently, integrating with the chosen cloud tooling platform to seamlessly deploy services. Additionally, we implement monitoring and alerting mechanisms to track the pipeline's performance and detect any issues.

- **Infrastructure as Code (IaC):** we treat infrastructure configuration as code, enabling infrastructure provisioning and management through code-based tools, such as AWS CloudFormation, Azure Resource Manager, Google Deployment Manager or Terraform, which ensures quality, repeatability and scalability. Additionally, we use configuration management tools like Ansible or Puppet to automate the provisioning and configuration of resources and we apply best practices for modularisation, parameterisation and reusability of infrastructure code
- **Monitoring and Feedback:** we advocate continuous monitoring of applications and infrastructure to provide feedback on performance, user experience and other agreed metrics, enabling the collective team, including stakeholders, to make data-driven decisions and improve continuously.
- **Feedback Loops:** we establish feedback loops throughout the development lifecycle, enabling teams to gather insights from users, stakeholders and monitoring systems to iterate and improve rapidly, through agile ceremonies including sprint retrospectives, show and tells, demos, etc.
- **Lean Practices:** we apply lean principles to eliminate waste, streamline processes and optimise workflows, ensuring that resources are utilised efficiently and value is delivered to customers quickly.
- **Cross-Functional Teams:** we encourage the formation of cross-functional teams with diverse skills and expertise, enabling them to take ownership of end-to-end delivery and respond quickly to changing requirements.
- **Shared Goals and Objectives:** we align the goals and objectives of DevOps and other stakeholders with the overall customer business objectives, fostering a sense of a common purpose and collective responsibility towards delivering value.

By embracing these principles, we create a culture of collaboration, automation and continuous improvement that ensures the delivery of high-quality software in most optimum, reliable and secure way.

The success of DevOps is as much about a cultural shift as process and technology to enable seamless rapid business change.

The diagram below provides a high-level outline of the tasks performed for the various DevOps stages.



Code Migration

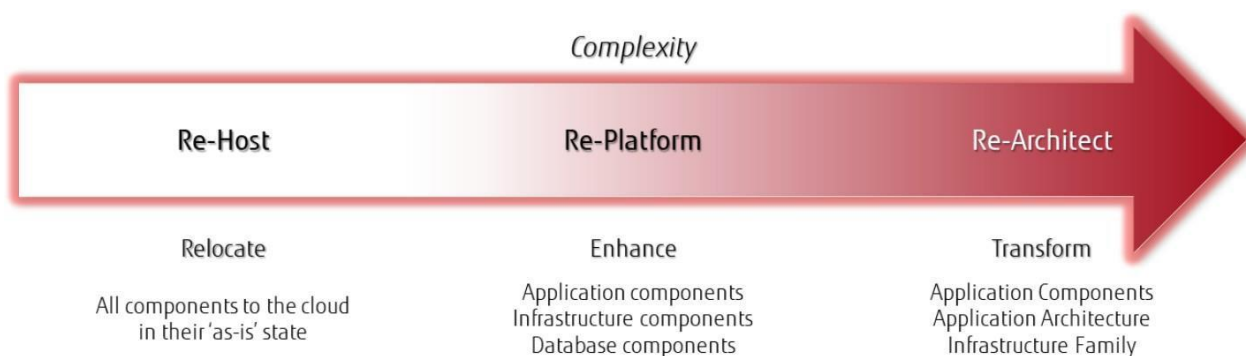
For customers wanting to move their mainframe workloads to the cloud, there are multiple migration approaches available. Fujitsu's Application Modernisation methodology focuses on the three most common methods: Re-Host, Re-Platform and Re-Architect.

There is a strong bias and correlation between chosen strategy and the time/effort required to deliver it.

The application assessment services identify the appropriate modernization path according to the application constraints and for each application identified, we recommended a specific modernization approach:

- Re-Host
- Re-Platform
- Re-Architect/Re-factor

Application Replacement does not form part of the service, but applications will be identified as candidates should that be our recommendation.



Application Modernisation Methodology

Application Development and Modernisation

Application Modernisation enables our customers to leverage investment made in application assets to deliver more from IT budgets and to reduce the risk of implementing new technologies to replicate existing business logic. We offer a very broad range of services in this area, covering most legacy technologies including mainframe applications, databases, discovery and analysis services and 4th generation languages.

Fujitsu's Application Development and Modernisation Service provides a collaborative approach. It focuses on identifying the business capabilities required to deliver value for the customer and the services required to deliver this value. We use an Agile and incremental approach to understanding and adapting business process, so that we can address business needs with IT solutions that are aligned effectively.

Our assessment services review the extent to which the functionality of legacy applications and associated data sources can be exposed, consumed and re-used as services or micro-services, for example through the exposure of APIs.

Application Managed Services

Fujitsu's Application Managed Services are a full Application Lifecycle Management solution for effective application management. It bridges the gap between a rapidly changing digital landscape and existing business operations, enabling digital transformation to be embraced whilst supporting an increased response to ever-changing business needs. It embeds industry best practices and the latest ways of working in teams, using methodologies such as DevOps, Agile, Continuous Integration and Continuous Delivery to generate real business benefits. Once the mainframe application has been modernised, Fujitsu's application-managed services can ensure that you continue to generate value from it going forwards.

Our application managed services are designed to be an end-to-end service, taking on modernised applications and delivering the following:

- High Quality Application Transition through high quality/low-risk transition of Application Management responsibility from the customer or incumbent to Fujitsu

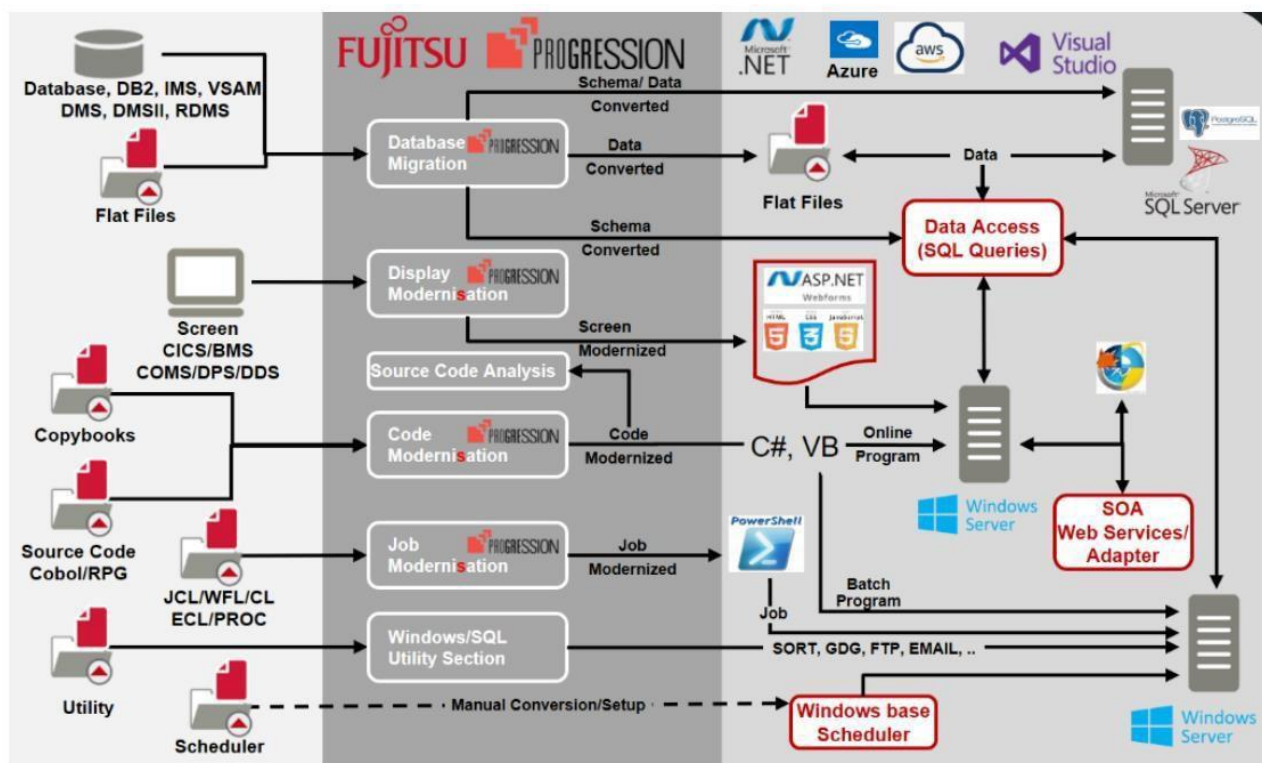
- Optimised Service and Costs through an optimal mix of delivery locations and resources resulting in cost savings
- Improvements in Service Quality & Effectiveness through the application of Fujitsu Best Practice
- Productivity improvements through the integration of ISO/IEC 20000-1 Service Provision with service desks & standardisation of support processes
- Continuous Improvement through the application of LEAN techniques, Sense and Respond® and Shift Left for the elimination of waste to operational support and management
- Business Focused Transformation through collaborative governance with the customer to ensure that application investment is directed at those transformation projects which will deliver maximum business value.

Automated Code Conversion – Fujitsu Progression

Many large organisations use mainframe or midrange to run their critical systems. However, as experts in legacy systems become scarce and technology obsolescence becomes a bigger issue, the need to modernise these systems and applications becomes pressing. Where needed, Fujitsu can modernise code using an automated suite of code conversion and migration tools, using our Progression Service. Progression from Fujitsu for Mainframe to .NET or Java modernisation offers an accelerated solution to support migration from legacy systems such as IBM Mainframe, AS/400, iSeries, UNISYS and HP3000 to Microsoft.NET or Java on modern environments. Legacy applications developed with languages such as COBOL, RPG, VB and Transact are rapidly modernised to a new platform such as Microsoft.NET or Java.

The Progression service provides highly configurable options using parameters and templates, which allow the implementation of all coding techniques, standards and packaging. The use of the highly automated tool makes sure there is a very high level of consistency in the resulting application, minimising the risk of introducing human errors. Fujitsu's approach relies on extensive configuration and version management. At every step, a specific version of all components is retained, making it easy to identify all changes that have been applied. In conjunction with the automated conversion suite, it is very easy to integrate ongoing maintenance into the test cycle, using change management tools that allow comparison and the merge of converted components.

The Progression solution can be used as a standalone code conversion tool, or as part of a larger migration project, leading to managed service.



Fujitsu Progression approach to modernization

This solution is designed to:

- Analyse legacy applications (e.g., documentation)
- Identify obsolete code and produce a gap assessment
- Modernise legacy applications to C#.NET or Java, using a turnkey solution from project initiation to implementation
- Evaluate the converted code for quality and accuracy
- Produce cloud ready applications
- Implement a stable, reliable, modernized solution that is capable of handling peak loads effectively
- Utilise a professional team of experts that has successfully implemented migrations across multiple customers
- Improve legacy application integration with newer application systems
- Reduce the expense of hardware and/or operating system maintenance
- Support a more robust software development and quality assurance lifecycle process
- Establish modernised application environments requiring little or no ongoing vendor support
- After production release of the modernised applications, retire the legacy systems and applications
- The solution offers a number conversion and migration options including:
 - IBM, HP or UNISYS Mainframe COBOL to .NET or Java
 - IBM AS/400 COBOL/RPG to .NET or Java
 - VB to .NET or Java
 - Natural/Adabas to .NET or Java

Additional characteristics of this solution include:

- Automated tool assisted migration using the Progression toolsuite
- No freeze needed for legislature changes and production fixes
- Generated code logic follows Microsoft / Java recommended coding standards
- Fully automated testing (e.g., Regression) via continuous integration and continuous deployment tools (e.g., SVN, Jenkins)
- Robust transactional model (DB locks, concurrent, conversational)
- Stability through full load balancing support
- No Fujitsu software upkeep maintenance fee - the customer owns the converted code
- Flexibility to accommodate extensive database redesign (Data Access Layer)
- Microsoft .NET solution or Java
- Microsoft .Net Framework, C# language, Powershell or Java
- Windows Server, SQL Server, Visual Studio or Java
- Thin client Web Form application (multiple browser support)
- Fully compliant with Object Oriented principles, SOA architecture (Web Service Interface), WFC

Approach to Realising Benefits

Fujitsu's joined-up approach to business change and benefits realisation ensures that the value expected by customers from new capabilities and change is clearly defined and managed throughout the process. We recognise that business change frequently needs to be achieved quickly, with minimum disruption and maximum buy-in from all involved. Our benefits-led approach takes account of our customer's priorities and circumstances, including their capability and capacity for change, available funding, pressing needs, alignment with other investment projects and attitude to risk.

Fujitsu's approach to business change is underpinned by benefits realisation that utilises Results Chain Modelling to clearly understand the business outcomes that are expected and how they will be achieved. Results Chain Modelling defines the initiatives required to achieve the outcome and provides a framework to measure achievement and to ensure that the expected outcomes are delivered.

Business Value

Using Fujitsu's Mainframe Modernisation Services will enable you to:

- Safe, secure and proven patterns for mainframe modernisation
- Mainframe Modernisation Centre of Excellence for over 20 years
- Reduction of technical debt and dependency on legacy skills
- Reduction of cost releasing resource to focus on innovation
- Increased agility through the use of modern solution such as microservices
- Our co-creation approach builds trust and accelerates outcomes
- Removal of costly mainframes Fujitsu VME / IBM zSeries
- Simplification and standardisation of your application portfolio
- Supports GDS vision to move to Open-Source solutions
- Fujitsu operates highest levels of security and complexity

Common Opportunities for Mainframe Modernisation include:

- Your organisation is reliant on scarce legacy skills
- Your organisation's legacy systems are difficult to interact with, with out-of-date interfaces
- You are struggling with complex, unclear and ever-changing requirements
- Your organisation is constrained by the speed of application development and release
- You are experiencing high levels of technical debt
- Your developed applications have disparate look and feel, with little consistency in quality

Pricing

This service is priced as per the SFIA rate card for this service.

Other pricing models can be agreed to support your project requirements

About Fujitsu

As one of the world's leading IT companies, Fujitsu is at the forefront of pioneering technology in the UK since we made our initial investment over 40 years ago. As a key strategic partner we deliver essential services, from our secure hybrid IT which underpins critical national infrastructure to our investment in emerging technologies to boost national capability. Drawing on our Japanese technology expertise we provide bespoke digital transformation solutions. This unrivalled expertise has allowed us to specialise in emerging focus areas; Hybrid IT, AI & RPA, Data analytics, Agile application development/transformation and Security. Together, we offer a full package of solutions to support the UK as a long-term industry supplier.

We believe in realising the significant alignment between the UK and Japan in emerging technologies and in creating a UK-Japan 'Innovation Bridge' to support the UK's science and technology superpower objectives. We are committed to investment in UK skills and research and development, driving customer outcomes and promoting social value. We employ 124,000 people around the globe, including around 8,000 people across the UK, promoting diversity and inclusion as a DWP Disability Confident Leader. We are recognised as a Times Top 50 employer for Women since 2017, a Stonewall Top 100 Employer for 2023 and were awarded an EcoVadis Silver Rating, the world's largest provider for sustainability ratings.

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