Mainframe Modernization

with Fujitsu and AWS

shaping tomorrow with you

Now is the time to modernize to Amazon Web Services with Fujitsu

Moving on from Mainframe to AWS delivers a number of benefits:

Reduce Total Cost of Ownership by up to 50%

Cost Savings: Reduce costs

- Remove legacy mainframe footprint, reduce TCO
- Automated conversion of legacy codebase avoiding expensive manual rewrite efforts
- Safeguard investments made in legacy codebase
- Mitigate risk/reduce dependency on scarce (and expensive) legacy skillsets (e.g. Cobol)
- No license fees or runtime licenses.

Remove dependency on increasingly rare skillsets

Staff Productivity: Avoid future skill shortages

- Usage of modern languages, Cloud-native and AWS platform specific (optimized) tooling
- Fujitsu AWS Springboard for rapid deployment
- Adoption of DevOps ways of working.

Improve scalability and availability of applications

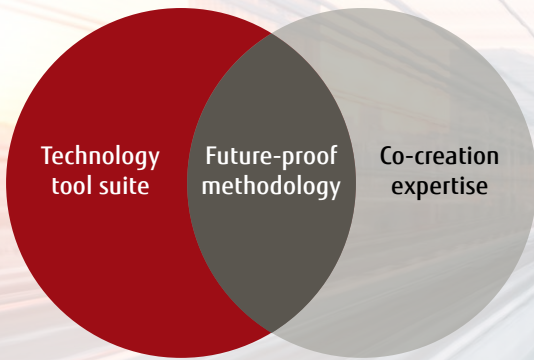### Operational Resilience: Access new technologies

- End-to-end approach: From consultancy to modernization
- Delivery and ongoing AWS Managed services
- Optimized SLAs for new cloud-based solutions
- Performance, scalability and availability of applications addressed via transformation (e.g. microservices, APIs, containerization).

Enable digital transformation, and take advantage of AWS

Business Agility: Be more agile and transform your business

- Transform legacy applications to match future-business requirements, business fit, value and agility
- Speed to market, move to modern cloud based environment and toolchains reduces release times
- Provides the option to create new business functionality (overcoming technical limitations caused by legacy technology).

It's possible to maximize the benefits and minimize the disruption of Mainframe Modernization with Fujitsu and AWS.

The PROGRESSION Approach

PROGRESSION the Fujitsu wholly owned and unique technology suite combined with an extensive global network of experienced industry experts, come together into an end-to-end mainframe modernization methodology.

Technology tool suite

Our tools are wholly owned by us. This reduces the complexity and cost of modernization, as clients don't have to deal with third parties or pay additional licensing fees.

Future-proof methodology

Our ability to make ongoing code changes, reduces risk and optimizes change management. This increases the pace of change, and shortens the time to market, without disruption

Co-creation expertise

Our range of skills and collaborative approach means we foster the relationship and deliver continual innovation and success.
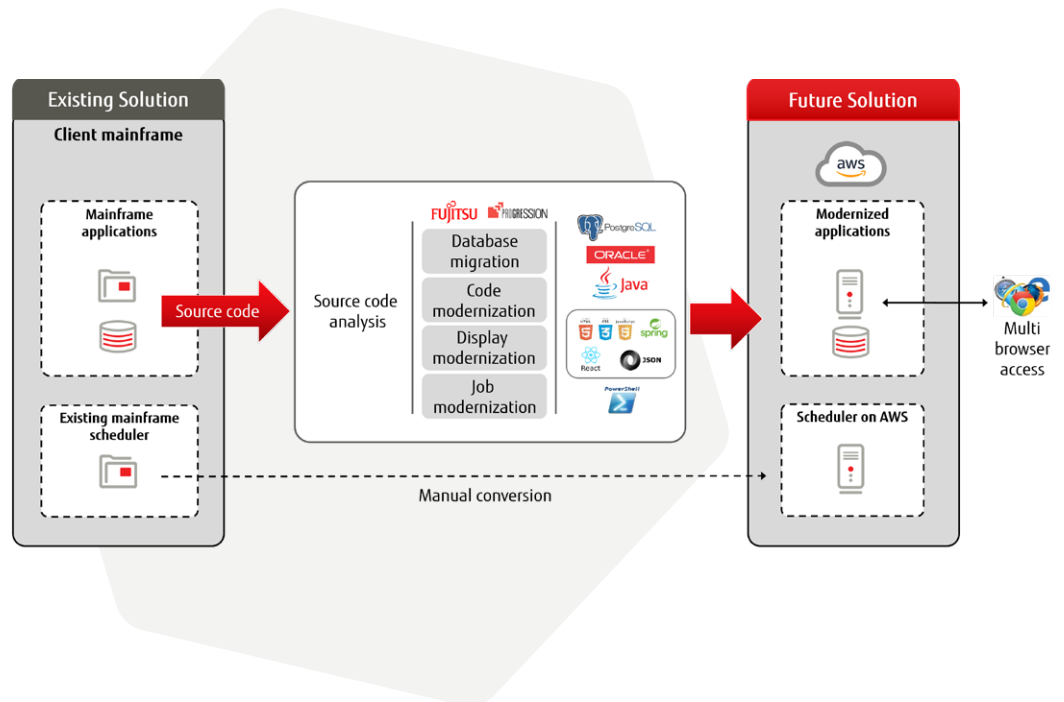
Fujitsu and AWS

The PROGRESSION tool deployment stacks follow the AWS Well-Architected Framework. The AWS Well-Architected Framework helps build secure, high-performing, and resilient infrastructures.

Comprehensive service

With the PROGRESSION automated tool suite, legacy applications developed with languages such as COBOL and RPG can be easily modernized using languages including C# or Java.

Once the conversion is complete, you own the source code, enabling you to now move the code to AWS as a virtual machine or on the AWS EKS container service.

Minimizing risk

Our expertise in modernization protects your valuable systems so that you can stay competitive with cutting edge technology.

Fujitsu have a proven methodology to mitigate the risk of migration. We can manage the crossover period where new and old systems run in parallel. This minimizes the risk of jeopardizing your critical processes.

PROGRESSION from Fujitsu is designed specifically for you to modernize and revitalize your systems & assets to move to AWS.

Don't just take our word for it

We have completed a number of Mainframe Modernization projects, here are a few of them

Customer story

dhrm

DHRM

DHRM is the central Human Resource agency for the Virginia state government.

Needs:

- Mainframe was nearing the end of its lifetime
- Wanted to reduce Total Cost of Ownership
- Aging staff and skills due to COBOL language.

Benefits delivered

- $15m+ saved in operating costs annually
- Technical risk reduced
- Operational efficiency enhanced
- Integrates with modern systems
- Agility and ability to adapt enhanced.

Customer story

County of San Diego

County of San Diego

The County of San Diego is the fifth-most populous in the United States.

Needs:

- Mainframe was built on a system developed in the 70s
- Needed to migrate to a modern, secure and stable platform.

Benefits delivered:

- Significant reduction in the cost of ownership
- Improved quality and system stability
- Enhanced security via Active Directory
- User experience close to identical after migration.

Customer story

Department of Education

Minnesota Department of Education

Minnesota Department of Education serves 850,000 K-12 students and their families, across Minnesota's 339 school districts.

Needs:

- Convert 28 MDE applications from Unisys mainframe to a modern Microsoft Windows .NET platform and SQL Server
- Escape the rising costs of maintaining the mainframe and the anticipated difficulty in finding COBOL developers
- Modernize to ensure the ongoing maintainability and support of these systems.

Benefits delivered:

- Improve integration with newer application systems via common Microsoft technology
- Reduce expense of hardware/ operating system maintenance
- Integrate/improve current DevOps processes
- A three-tier architecture to support a more robust software development.

Why AWS?

- **High Security** you benefit from <u>AWS data centers and a network architected</u> to protect your information, identities, applications, and devices. <u>AWS Security services</u> and <u>AWS compliance offering</u> help you improve your ability to meet core security and compliance requirements, such as data locality, protection, and confidentiality with our comprehensive services and features

- **High Availability** of your applications is made easy with <u>redundancy across availability zones, cross-region replication, Aurora Global Database</u>

- **Scalability and Elasticity** for your critical workload is met with both <u>AWS autoscaling</u> that provides horizontal scalability and dynamic elasticity, and vertical scalability with up to 244 physical CPU cores

- **Cost Optimization** pick the best pricing scheme to <u>optimize your costs</u> (<u>saving plans</u>, <u>reserved Instances</u>, <u>Spot instances</u>) and monitor your costs with <u>AWS Cost Explorer</u>

- **Agility** benefit from <u>AWS CI/CD, Infrastructure As Code</u>, and enrich your Mainframe applications with <u>modern application framework</u> (Containers, Serverless) and the whole set of existing AWS services.
  Get insight on your Mainframe data with <u>AWS Big Data</u> and <u>Machine Learning</u> broad set of services.

What is the mission of Mainframe Modernization?

Find out more...

Contact the Mainframe Modernization team today, to find out how you can benefit from Mainframe Modernization from Fujitsu using the power of AWS via
application.transformation@ts.fujitsu.com

Learn more about Mainframe Modernization with Fujitsu at
www.fujitsu.com/global/services/application-services/application-transformation/
mainframe-modernization

FUJITSU
Tel: +44 (0) 123 579 7711
Email: askfujitsu@uk.fujitsu.com
Ref: 4058