



Modernizing Mission-Critical Applications Without Compromises

Ashwani Kumar, EMEA Migration & Modernisation Sales Leader, AWS
Santino Spagnoli, VP Mainframe Engineering, mLogica



Modernizing Mainframe Applications with AWS

Ashwani Kumar – EMEA Mainframe Modernization GTM Leader

RoachFest24 London
27th June 2024



WHAT SHOULD YOU EXPECT IN THE SESSION?

Why?

Why are organizations looking to modernize Mainframe and other distributed applications

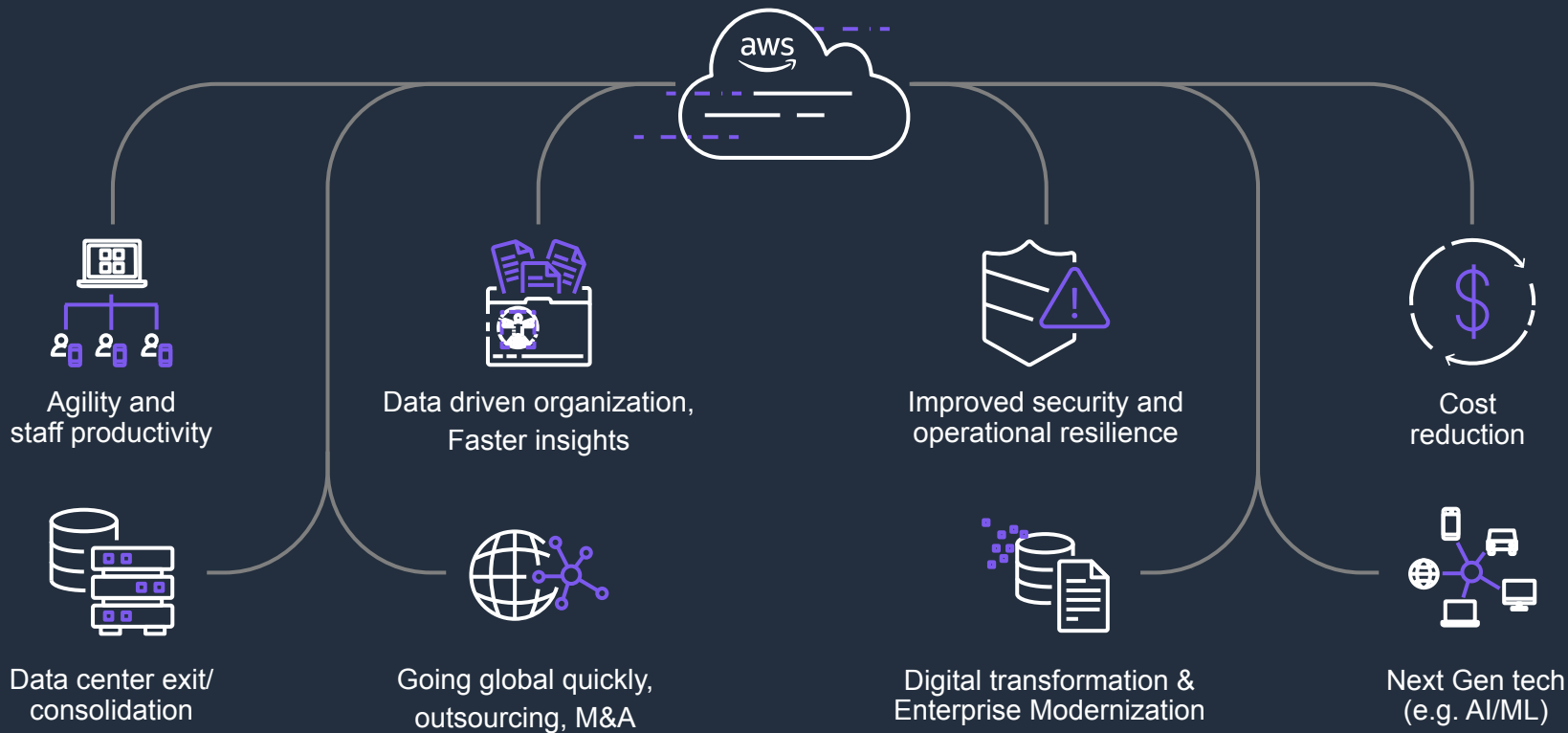
What?

What is AWS value proposition to help modernize Mainframe applications

How?

How do we help customers help modernize Mainframe applications

Business drivers for cloud migration & modernization



AWS Leadership is Committed to Mainframe Application Modernization



Our customers asked,

“What about my Mainframe?”

AWS has continually invested in modernization

INNOVATIONS AND COLLABORATIONS TO MODERNIZE MAINFRAME APPLICATIONS

More automation and optimized process for every facet of the modernization journey

More AI and Gen AI to accelerate modernization steps

More modernization patterns and more source platforms support

AI & Generative AI **2024**

Modernization patterns
Data Integration
Application Testing

AWS Mainframe Modernization Service launch

Acquisitions

AWS  Competency Mainframe Partners

2022

UniKix
by NTT DATA

precisely

bmc
model

MLOGICA

BLU AGE

MICRO FOCUS

2017

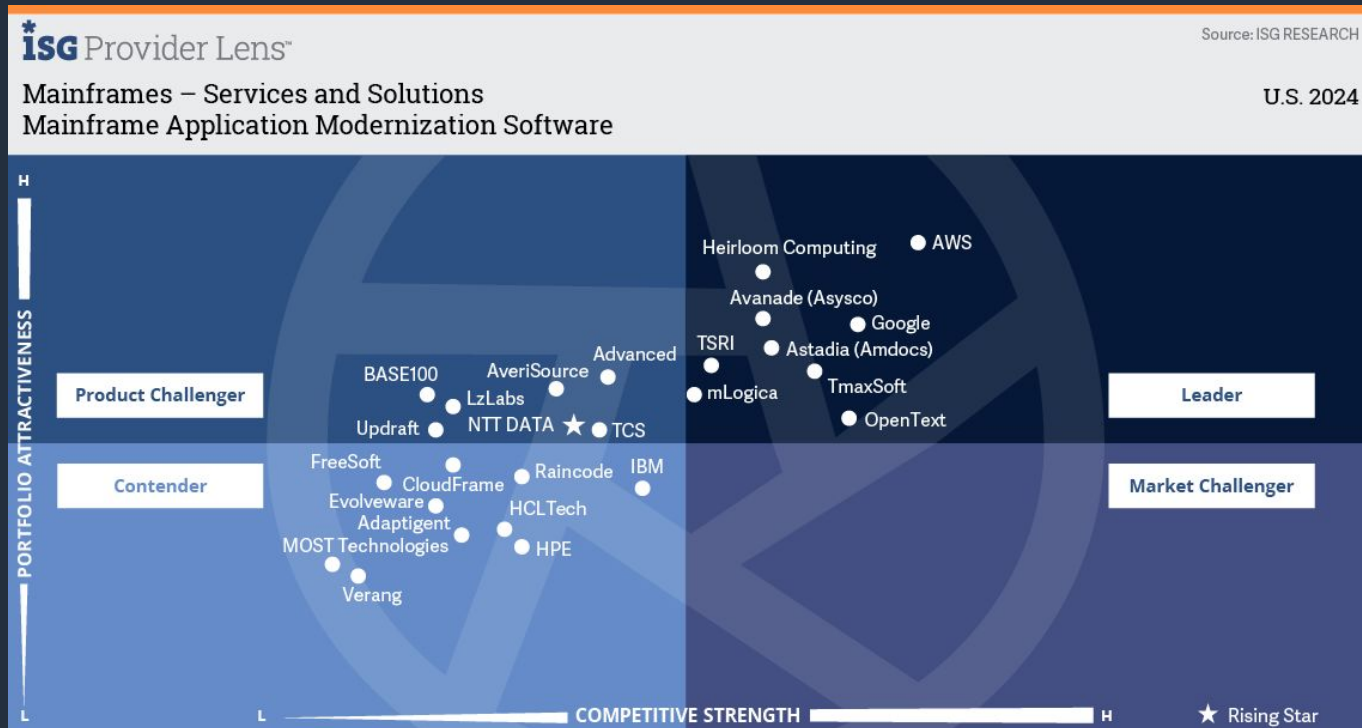
Dedicated Headcounts
Partnerships
Acquisitions

aws Partner Network



Highest in portfolio attractiveness and competitive strength

ISG recognizes
AWS
as a
Leader in
Mainframe
Modernization



ISG Provider Lens, Mainframes - Services and Solutions, Mainframe Application Modernization Software, Pedro L Bicudo Maschio, Manoj M., Jan Erik Aase, February 2024. ISG and Provider Lens are registered trademarks of ISG and/or its affiliates in the U.S. and internationally and is used herein with permission. All rights reserved. ISG does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings. ISG research publications consist of the opinions of ISG research organization and should not be construed as statements of fact. ISG disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose. This graphic was published by ISG as part of a larger research document and should be evaluated in the context of the entire document. The ISG document is available upon request from AWS.



Various industries use legacy mainframe applications



Banking

Credit cards/
payments

Customer service
center

Mortgage and
loans

Insurance

Claims
processing

Benefits
management

Health
Insurance

Government

Benefit
systems

Public
services

Tax
assessment

Retail

Merchandizing
systems

Point of Sale
systems

Omnichannel
customer service

Travel

Travel
planning

Travel
reservations

Airline/train
seat maps

Manufacturing

Equipment
maintenance

Auto manufacturing
applications

Industrial
workflows



Modernizing mainframe unlocks business value

As customers modernise and migrate mainframe workloads to cloud, they are looking for ways to get a better value for their modernisation effort based on the following key drivers that drive their migration to Cloud.



Financial outcomes

Rising operating and maintenance costs. For Mainframe are rising faster than those for any other form of computing.



Reduce business Risks

Limited scalability, Competitiveness and customer responsiveness constrained. MIPS are a finite resource. Legacy infrastructure



Legacy skill Shortage

Aging workforce maintaining legacy applications, creating a need to modernise and migrate mainframes to reduce cost, technical debt, and operational complexity



Agility and Insights

Time to market; Gain visibility to legacy data and apply advanced analytics capabilities to uncover key business insights

Spotting a Mainframe (or Midrange) legacy opportunity

WHAT IS IT?

Hardware

- IBM Z
- Unisys ClearPath
- Fujitsu
- Bull

- IBM Power
- HP NonStop
- HP Integrity
- Oracle SPARC
- ...

Operating systems

- z/OS, z/VM, z/VSE
- MCP, OS2200
- BS2000, VME, GS21
- GCOS

- IBM i (OS/400), AIX
- NonStop OS
- OpenVMS, HP-UX
- Solaris
- ...

Subsystems

- CICS
- IMS DB/TM
- Db2
- Batch
- IDMS
- Adabas
- Datacom
- VSAM
- MQ
- ...

Languages

- COBOL
- Assembler
- PL/I
- JCL
- ADS/O
- Natural
- Ideal
- REXX
- Easytrieve
- ...

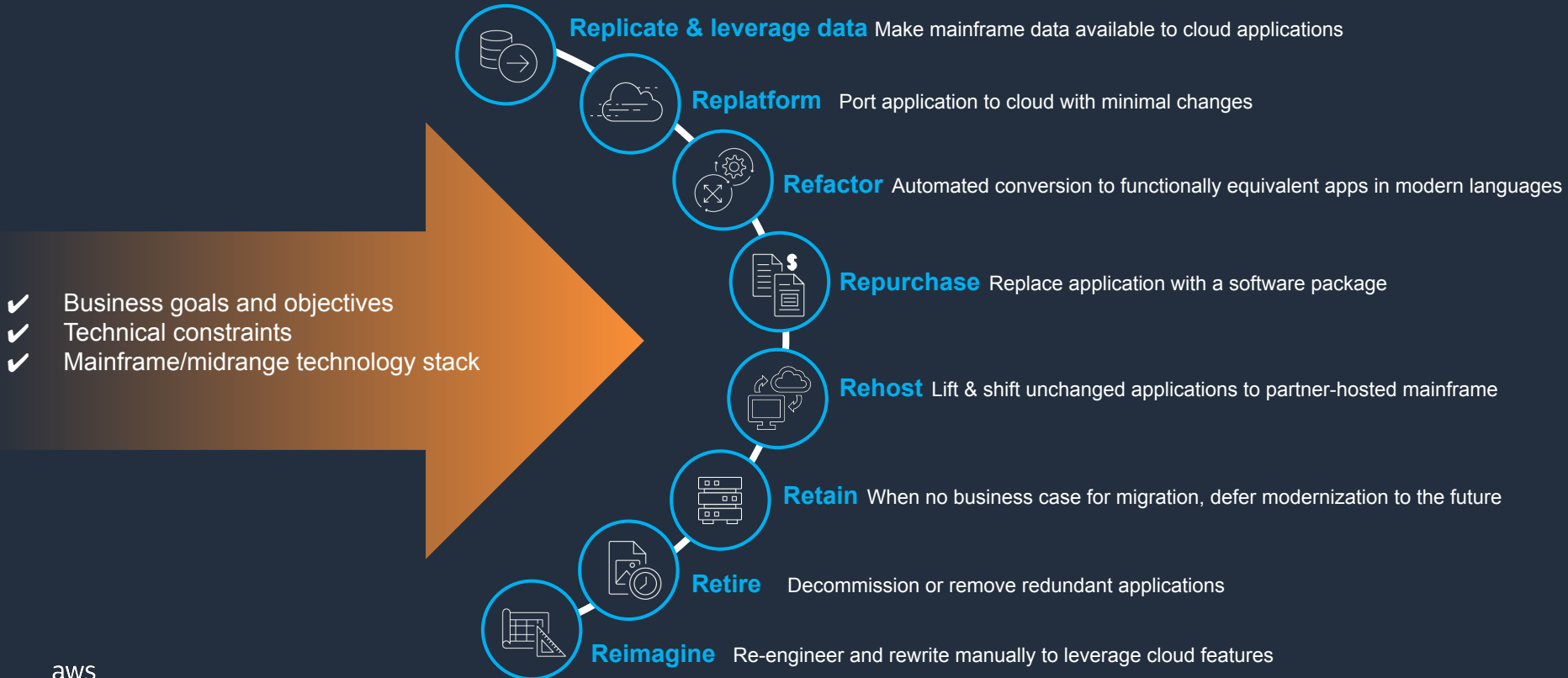
85-90% of the mainframe market is dominated by IBM Z

10-15% remaining includes Unisys ClearPath MCP, OS2200; Fujitsu BS2000, VME; Bull GCOS

Midrange market includes IBM Power (IBM i/AS400), HP NonStop, OpenVMS and Unix

The modernization can leverage multiple patterns

THE BUSINESS AND TECHNOLOGY ENVIRONMENTS CAN DICTATE THE CHOICE



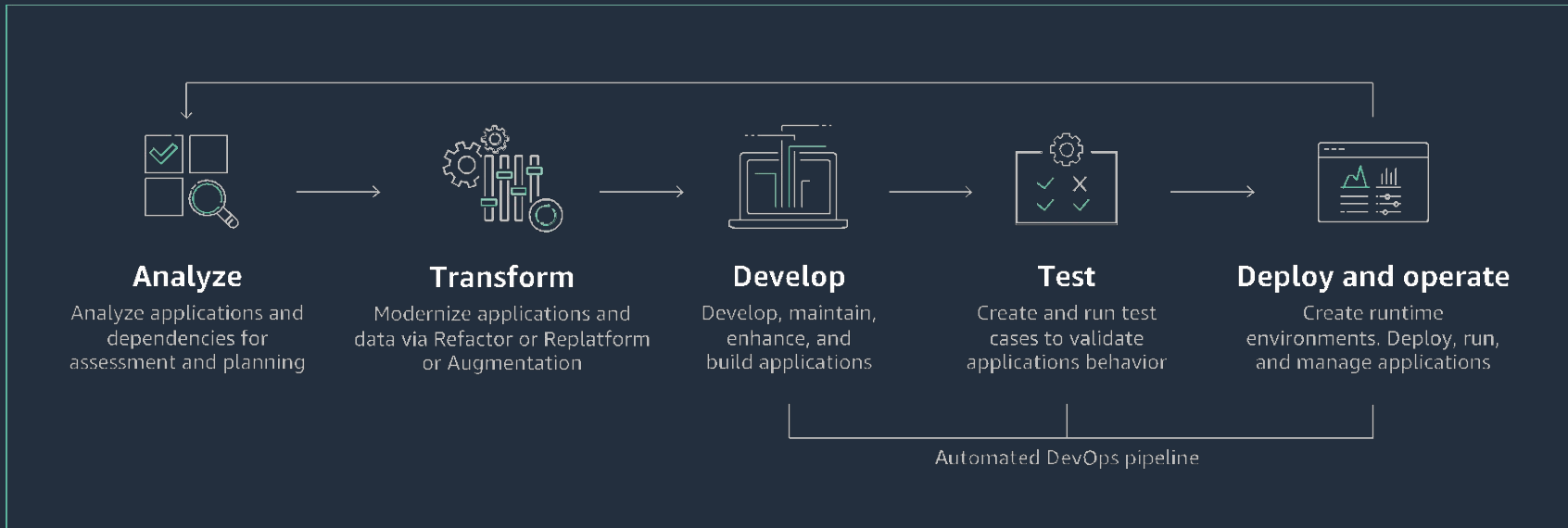
AWS Mainframe Modernization Service





AWS Mainframe Modernization service

AWS CLOUD NATIVE SERVICE TO MODERNIZE, MIGRATE, AUGMENT, TEST, AND RUN MAINFRAME APPLICATIONS IN CLOUD

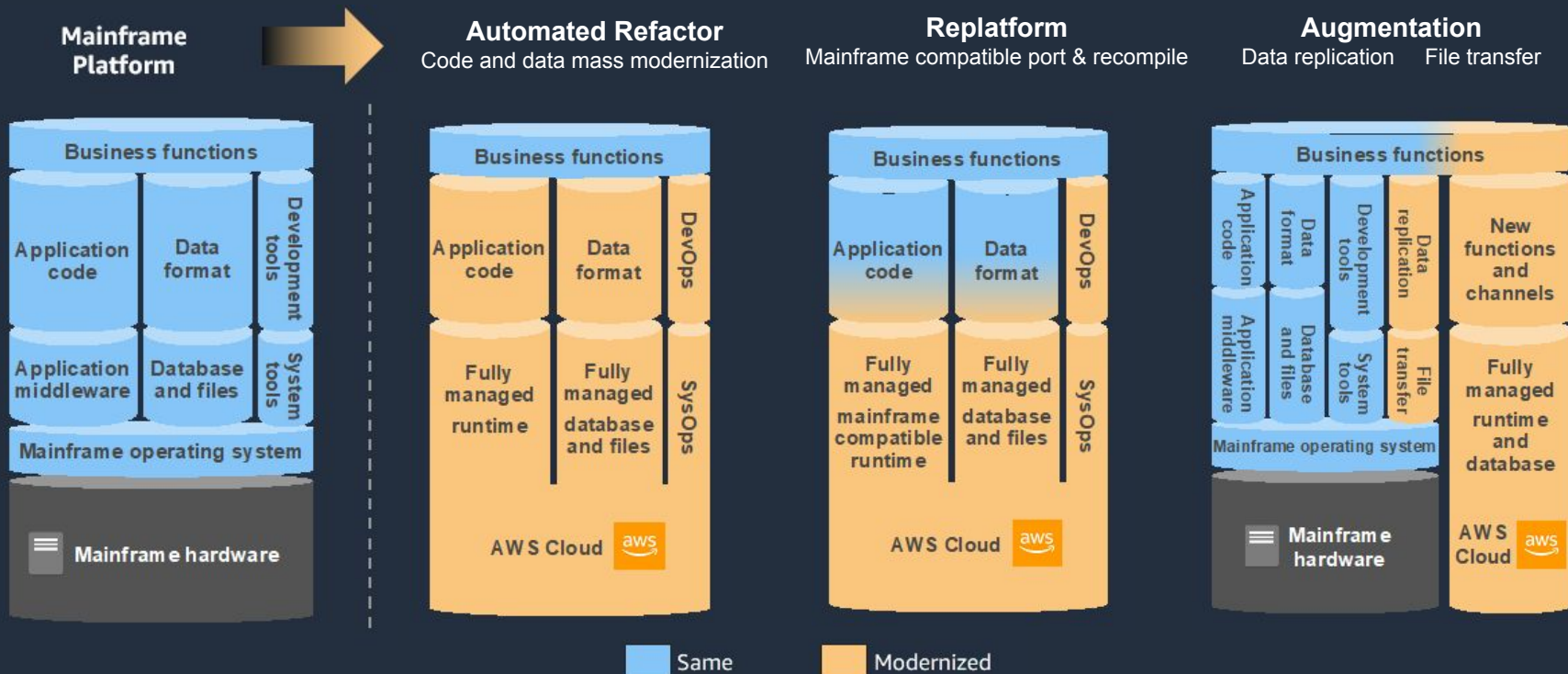


- ✓ Fully managed infra/runtime during & after modernization
- ✓ Broad choice of Modernization patterns
- ✓ Pre-packaged modernization tools
- ✓ On-demand access from AWS Console
- ✓ Pay as you go pricing



AWS Mainframe Modernization patterns

ENABLING FAST RETURN ON INVESTMENT WITH LOWER RISK



Business functional equivalence is essential for automation and project speed



AWS Mainframe Modernization toolchains

SUPPORT FOR YOUR PATTERN OF CHOICE

Modernize applications when migrating them to cloud

AWS Mainframe Modernization **Refactor**

Automate modernization of the complete application software stack, infrastructure, and processes
Powered by AWS Blu Age

AWS Mainframe Modernization **Replatform**

Preserve application assets with minimal changes while modernizing the infrastructure and processes
Powered by Micro Focus or NTT DATA UniKix

Augment Mainframe and innovate with your data

AWS Mainframe Modernization **Data Replication**

Replicate data changes in near real time from mainframes to AWS unleashing data-based innovations and use cases
Powered by Precisely

AWS Mainframe Modernization **File Transfer**

Transfer data sets and files from mainframes to AWS for migration and modernization use cases
Powered by BMC

Integrated elastic toolchains augmented by a range of AWS native services



AWS enables the journey

Cloud-native fully managed service

Offload routine infrastructure management and operations

AWS Professional Services

Supplement your team with AWS mainframe delivery experts

AWS Partner Network

Tap into a network with more than 100,000 partners from more than 150 countries

Dedicated mainframe teams

Accelerate success with AWS sales, product, partner, marketing supporting all geographies

Mainframe competency

Leverage validated consulting/technology partner expertise delivered via unique programs



AWS Migration Acceleration Program (MAP)

Deliver transformation faster using guidance, tooling, and annual usage estimation



AWS Mainframe Migration Competency

Expansive ecosystem of Consulting and Technology Partners



partner
network

competency
mainframe migration

Services Competency Partners

accenture

AtoS

Cognizant

Deloitte.

Infosys®



DXC.technology

HCL

tcs

TATA
CONSULTANCY
SERVICES

NTT DATA



Capgemini

IBM

Software Competency Partners

MICRO
FOCUS

TmaxSoft

NTT DATA

advanced

TSRI

Deloitte.
powered by innoWake™

ensono®

HEIRLOOM
COMPUTING

Astadia
An Amazon Company





Thank you!

MLOGICA

Modernization Journey Overview

June 2024

mLogica at a Glance



Leading global provider of digital transformation & pioneers in automated modernization solutions



Specialists in Solving Complex Modernization Challenges for Mainframe and Distributed Workloads to Cloud native technologies



Unmatched Experience

- Customers on 6 continents
- Hundreds of modernization engagements completed across all industry segments

Core Modernization Solutions

LIBER★M

Automated Mainframe Modernization

Replatform, refactor and rearchitect mainframe applications to cloud native technologies with the most comprehensive suite of tools available in the market.

STAR★M

Automated Distributed Modernization

Replatform and Refactor legacy databases and applications to cloud native technologies through a highly- automated & hardened translation engine.

How Customers benefit...



Accelerates your “Modernization to the Cloud” journey through highly automated and hardened translation engine



Significantly reduces costs and timelines during complex migrations, upgrades, and virtualization of consolidated servers



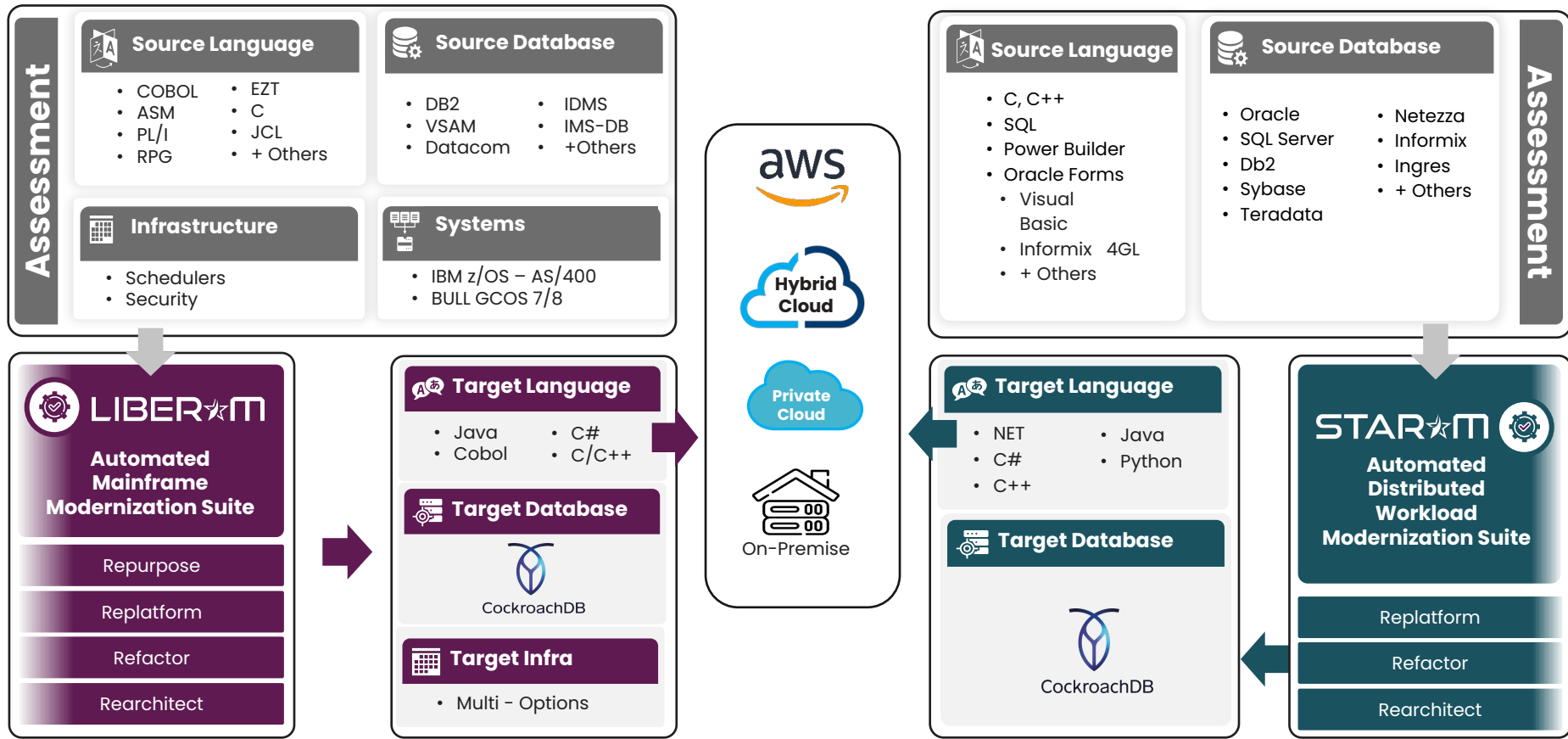
Minimizes business risk with automation technology, obviating the need for manual re-writing of code that is prone to errors

Trusted by Enterprises Globally

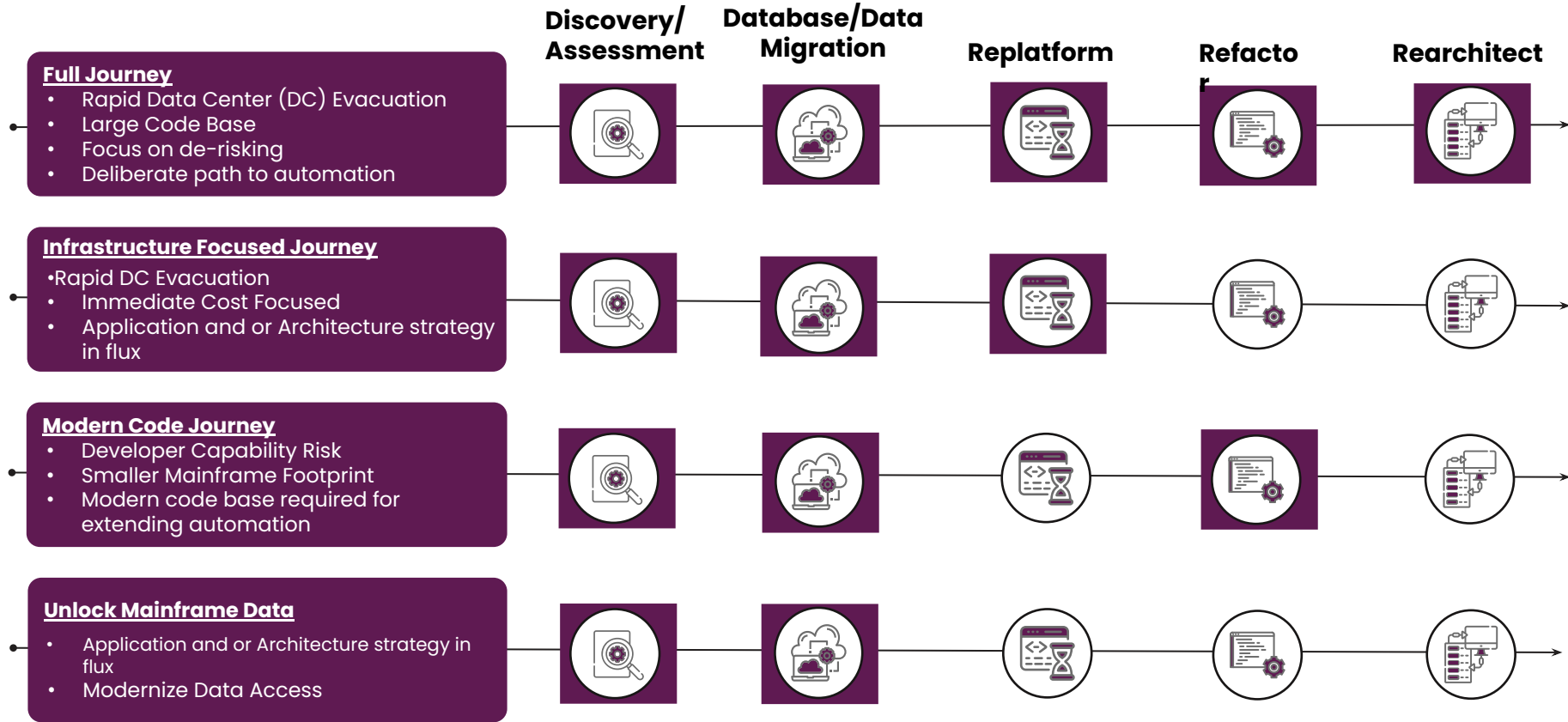


mLogica delivers at 1/2 the Cost and 1/3 of the time vs other modernization options

Accelerating Modernization to CockroachDB to the Environment of your Choice



mLogica Mainframe Modernization Journey: Multi-path Options





High degree of automation using mLogica proprietary software

- Ensures Business Logic moves 100%
- Lowers Cost and Time to deliver compared to manual rewriting
- Lower Risk: Improves predictability of timeline and ability to provide fixed bid engagement
- Improves accuracy of testing for like-to-like comparison



Specialized and Proven Methodologies specific to mainframe modernization



Expansive Source, Target Language and Data Coverage



Ability to support multiple disposition strategies without prejudice

- Willing to use the right solution for the right issue whether it is mLogica IP or other



End to End Commitment as opposed to point solution provider



Ability to assist with entire project or work with in house or preferred SI to extend and optimize the team



No code freeze



Testing strategy planning support, testing automation expertise



Powerful Automated Assessment to map and plan the entire end to end engagement

- Application Source Code Assessment can reduce inventory up to 50%

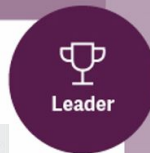
ISG Report – Mainframes – Services and Solutions

Mainframe Application Modernization Software

Leader since April 2024



Mainframe Application Modernization Software



“mLogica uses sophisticated technology for replatforming and refactoring legacy applications, providing a comprehensive solution comprising application code, data, architecture and scheduling tools.”

Pedro L Bicudo Maschio

This quadrant assesses modernization software vendors that support clients with professional services to transform and migrate mainframes to cloud using automation for rehosting, replatforming, reengineering or rewriting applications.

Pedro L Bicudo Maschio

MLOGICA

THANK YOU!

LAS VEGAS | SANTA ANA | PHOENIX | RESTON
| TORONTO | EDINBURGH | ROME | BELGRADE
| UAE | MUMBAI | PUNE



+1 (714) 630-2500



modernize-now@mLogica.com