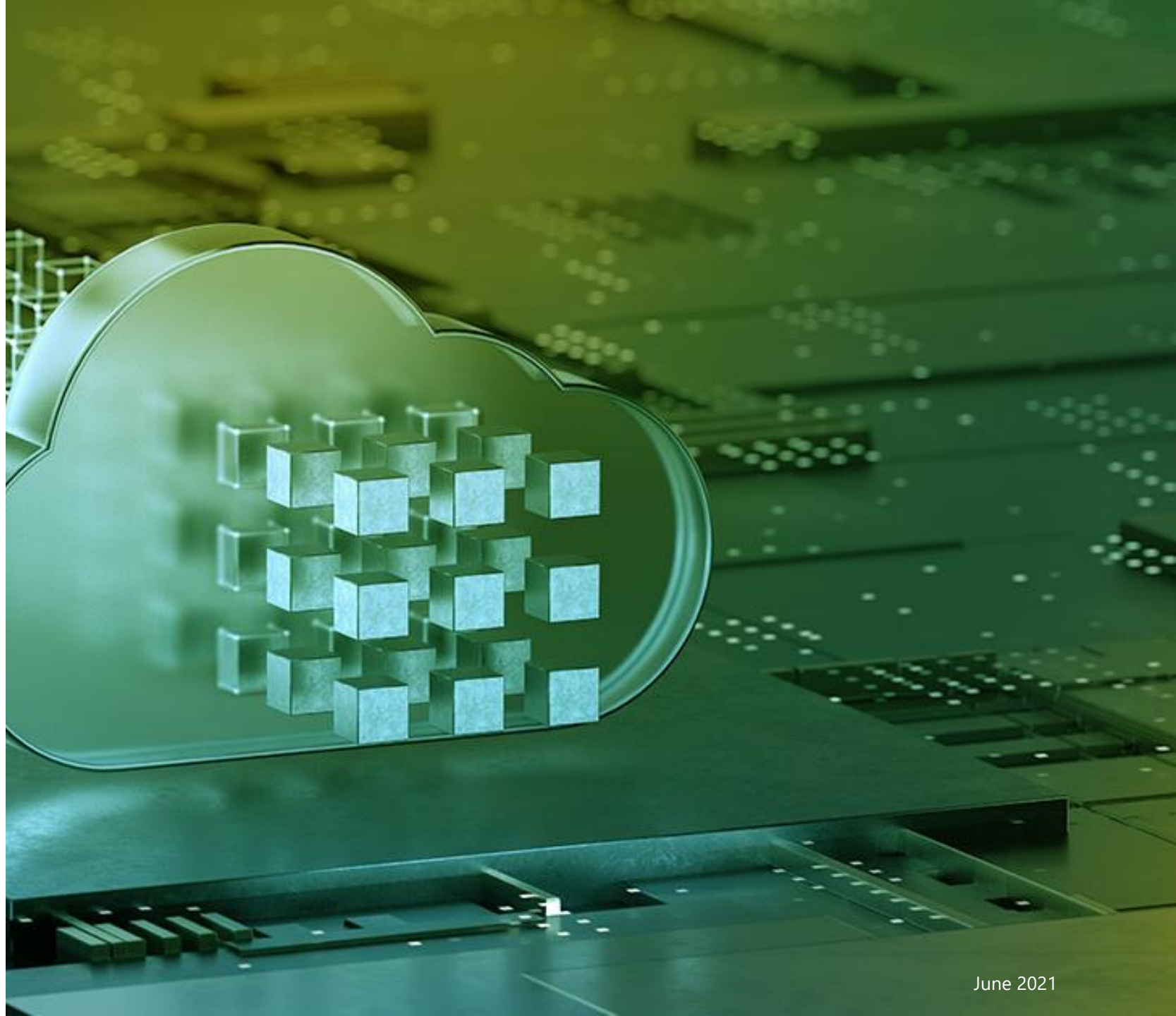


Happiest Minds Cloud Infrastructure Services (Powered by Microsoft)





AGENDA



- Cloud Services Portfolio
- Cloud Center of Excellence
- Happiest Minds Success Stories
- Cloud Adoption Framework
- Cloud Maturity Models
- Happiest Minds Value Proposition

Cloud adoption challenges that we are addressing

Cloud Skills & Expertise

- Fast evolving cloud technology and services eco-systems
- Choosing the right cloud services, architecture, migration, integration and automation strategies
- Cloud native development
- DevSecOps

Application Performance and User Experience

- Concerns over application performance resulting in poor user experience

Cloud Cost Management

- Inefficient capacity management leading to "cloud waste"

Azure Cloud Management

- Increasing number of technologies, products, tools and integrations to be managed
- Siloed toolsets and processes for managing Azure Cloud Infrastructure & applications

Cloud Governance

- Lack of clearly defined policies resulting in poor cloud operating models

Cloud Security & Compliance Management

- Data governance
- Regulatory compliance
- Multi-cloud and Azure cloud security monitoring

80% of the Enterprises have a Azure Cloud strategy

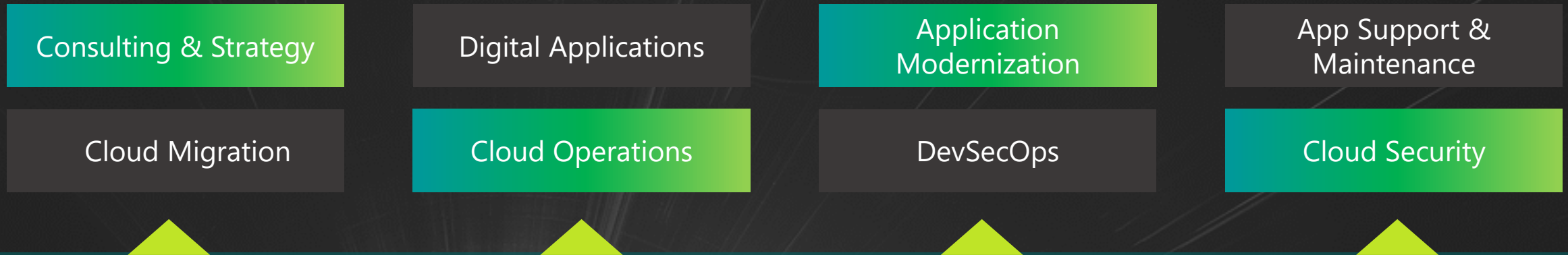
85% of the organizations are reporting some cloud repatriation activities

Cloud waste is more than 30%

30% of the Enterprises are implementing applications using microservices

Happiest Minds' Cloud Services Portfolio (Powered by Microsoft)

Cloud Services Across Applications, Infrastructure and Security

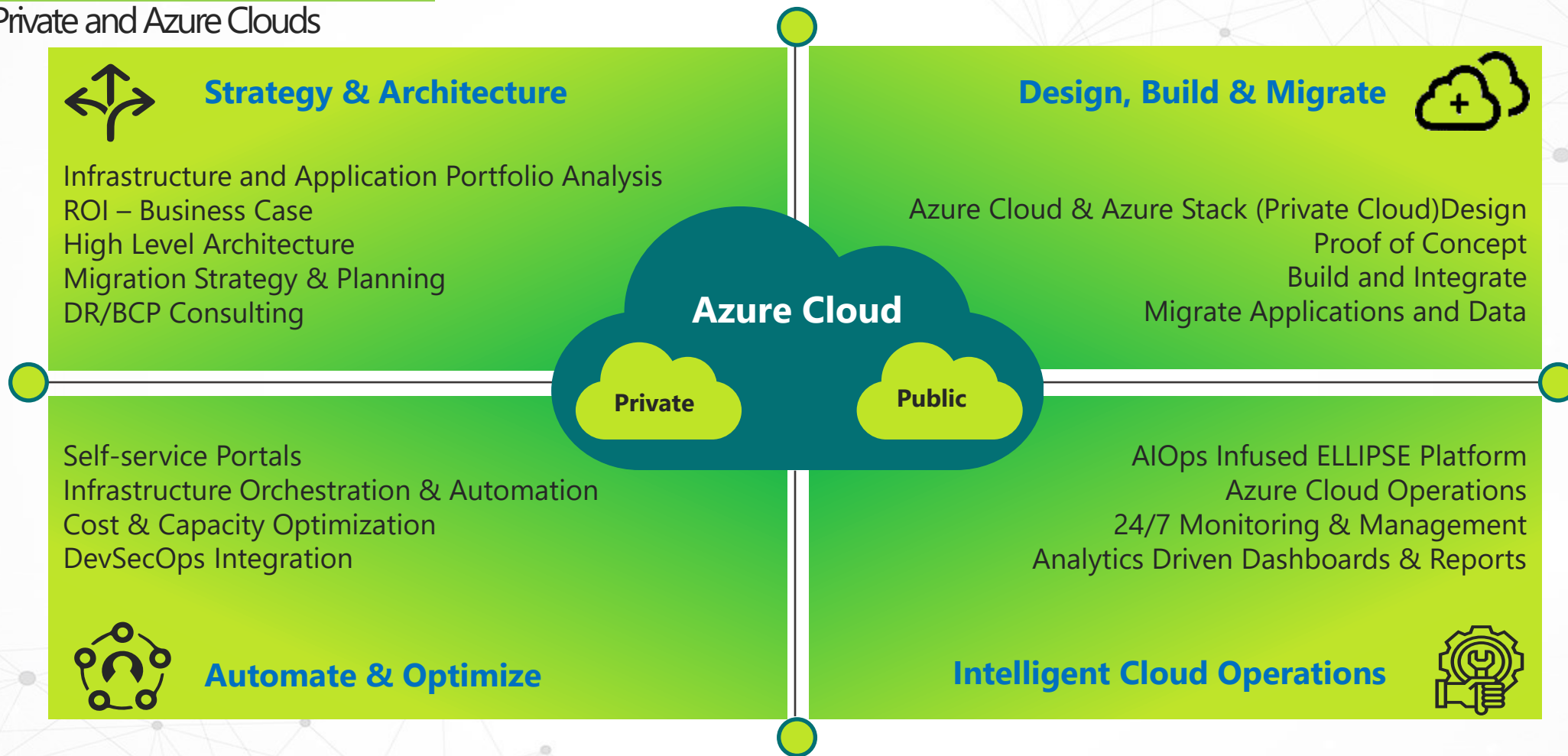


Enabled by Skills, Partnership, IP Assets and Frameworks



Cloud & Data Center Infrastructure Services (Powered by Microsoft)

- Public, Private and Azure Clouds



Skills & Partnerships

aws

Microsoft
Azure

Google Cloud

vmware

Example Case Studies for Azure Cloud Services

US Based Automotive Aftermarket OEM

B2B eCommerce platform development, integration with ERP and CRM systems. Application, infrastructure and security support services.

Leading Global Retailer of Luxury Watches

Blockchain enabled platform for trading of pre-owned luxury watches; cloud assessment & migration, reduced operational spend by more than 30%.

For a Global Professional Services Company Specializing in Tax, Accounting, HR & Payroll Processes

- Transformation Capabilities Covering Azure Cloud, Azure Stack, DC/DR, Cloud, End User Services, Networks and ITSM/ITOM

For a Europe Based Wholesale Retail Company with Operations Across India

- Smooth Transition and Setup of the Transformed e-Commerce Site on Azure.
- Setup of Infrastructure Backbone on Azure.

For an International Qualification Accreditation Company

End to end Infrastructure setup on Azure Cloud
Highly secure and optimized environment
Provisioning of database by leveraging Azure PaaS offering

Global Pharmaceutical Company

Azure Cloud Migration, DC consolidation & optimization, M&A related DC infrastructure consolidation and Cloud migrations

A Large UK Based Manufacturer of Roofing and Waterproofing Solutions

End-to-End Offerings in End User Computing, Directory Services, Messaging & UC, Azure Cloud & IDAM

US Company That Provides Information on Physicians and Hospitals

25% cloud cost savings through cloud capacity optimization, improved availability and process streamlining

Cloud Migration & Adoption Journey (Powered by Microsoft)

Cloud Journey

Phase-1 **Assessment**

(Infrastructure, Application
and Security)

01

Phase-2 **Plan & Design**

(Proof Of Concept, Plan &
Design)

02

Phase-3 **Transformation**

(Lift and Shift, Rehost, Replatform,
Rewrite, Replace and Retire)

03

Phase-4 **Operations**

(Continuous Service Assurance
and Continuous Optimization)

04

Phase-1: Assessment/Consulting (Powered by Microsoft)

Description	Tools	Advisory and Assessment Frameworks	Assessment Areas	Deliverables
Integrated Cloud Advisory & Assessment - iCaaF	Ellipse Platform Toolsets, Azure Native Tools, SolarWinds, Device42, Dynatrace, AppDynamics, any existing customer tool and CMDB (if available)	1. Application Profiling	Business Applications and Functionalities. Determine BR, FR and NFR driving transformation	Application Profiling Quadrant Results and Reports. Application Cloud Adoption Strategy Results. Go/No Go Decisions
		2. cIAF - Infrastructure Assessment Framework	People, Process, Tools, Technology and Architecture	Current State Maturity (Basic, Reactive, Proactive, Service Orientation and Value Realization)
		3. cQF - Cloudability Quotient	Functional and Non-Functional Requirements	Maturity Score to Understand the Cloud Adoption Readiness
		4. cAF - Cloud Adoption Framework (Maturity Model)	Maturity Scores derived from cQF - Cloudability Quotient	Maturity Model (Build your own, Private Cloud/IaaS, PaaS, SaaS, BPaaS) will be derived based on various business factors (Capex, Opex, Efficiency, Faster Deployment and Agility)
		5. cSAF - Cloud Stack Assessment and Selection Framework	Maturity Model Derived From cAF - Cloud Stack Assessment and Selection Framework	Cloud Operating Model
				Detailed Analysis Covering:
6. iCSAF - Integrated Cloud Security Assessment Framework	Cloud Security Readiness Audit	1 Azure		
		2. Open-Source vs Proprietary		
		3. Azure Private Stack vs Azure Public Cloud		
		Cloud Business Case and ROI		
		Detailed Analysis and Security Recommendation Reports		
		BCP/DR Planning		

Phase-2: Plan & Design (Powered by Microsoft)

Description	Tools	Framework	Planning & Design Considerations	Deliverables
Efficient Cloud Spend and Repurpose of Investments	Ellipse Platform, Cloud Native Tools, Existing Customer Tools	iCaaF – Integrated Cloud Advisory and Assessment Framework	<ul style="list-style-type: none">• Functional and Non-Functional Requirements• Business Drivers• Design Aspects/Parameters• Migration Strategies and Sequencing• Infrastructure as a Code• Deployment• Cloud Integration, Monitoring and Management Strategies	<ul style="list-style-type: none">• High Level and Cloud Landing Zone Designs• Low Level Designs• Infrastructure Test Plans• Proof of Concept Plans• Learning/Findings, Updated Low Level Designs• Project Plan Consisting of Implementation and Migration Details, Risk and Mitigation Strategies

Phase-3: Cloud Migration (Powered by Microsoft)

Description	Tools	Frameworks	Areas/Activities	Deliverables
Phased Migration, Minimal Downtime, Agile Transformation and Migration	Ellipse Platform & Cloud Native Tools	cTF - Cloud Transformation Framework	Application Transformation or Revitalization approach	<ul style="list-style-type: none"> • Application Transformation (The 6 R's): <ol style="list-style-type: none"> 1. Lift & Shift (With No Change) 2. Re-host (Lift & Shift) 3. Re-Platform (Lift & Shift) 4. Re-Write / Re-Architect (Decouple & Redo) 5. Retire the Application 6. Replace with a Different App • Data Migration • Cut Over and Sign Off • Project Documents and Reports
		cTF – Cloud Transformation Framework	Cloud Infrastructure Migration (Lift and Shift, Re-host or Replatform) – P2V, V2V, Data Migration)	
		cGF – Cloud Governance Framework	Change Readiness, Organization and work Design, Stakeholders Management, Team Effectiveness, Communication	

Phase-3: Data Migration Factors and Enablers (Powered by Microsoft)



Data Migration Methodology

Replication vs Migration
Partial vs Complete Migrations
Heterogenous vs Homogenous Migrations
Zero versus Minimal versus Significant Downtime



Database migration cardinality

Consolidation ($n:1$)
Distribution ($1:n$)
Re-distribution ($n:m$)



Migration consistency

Consolidation ($n:1$)
Distribution ($1:n$)
Re-distribution ($n:m$)



Type of Migration

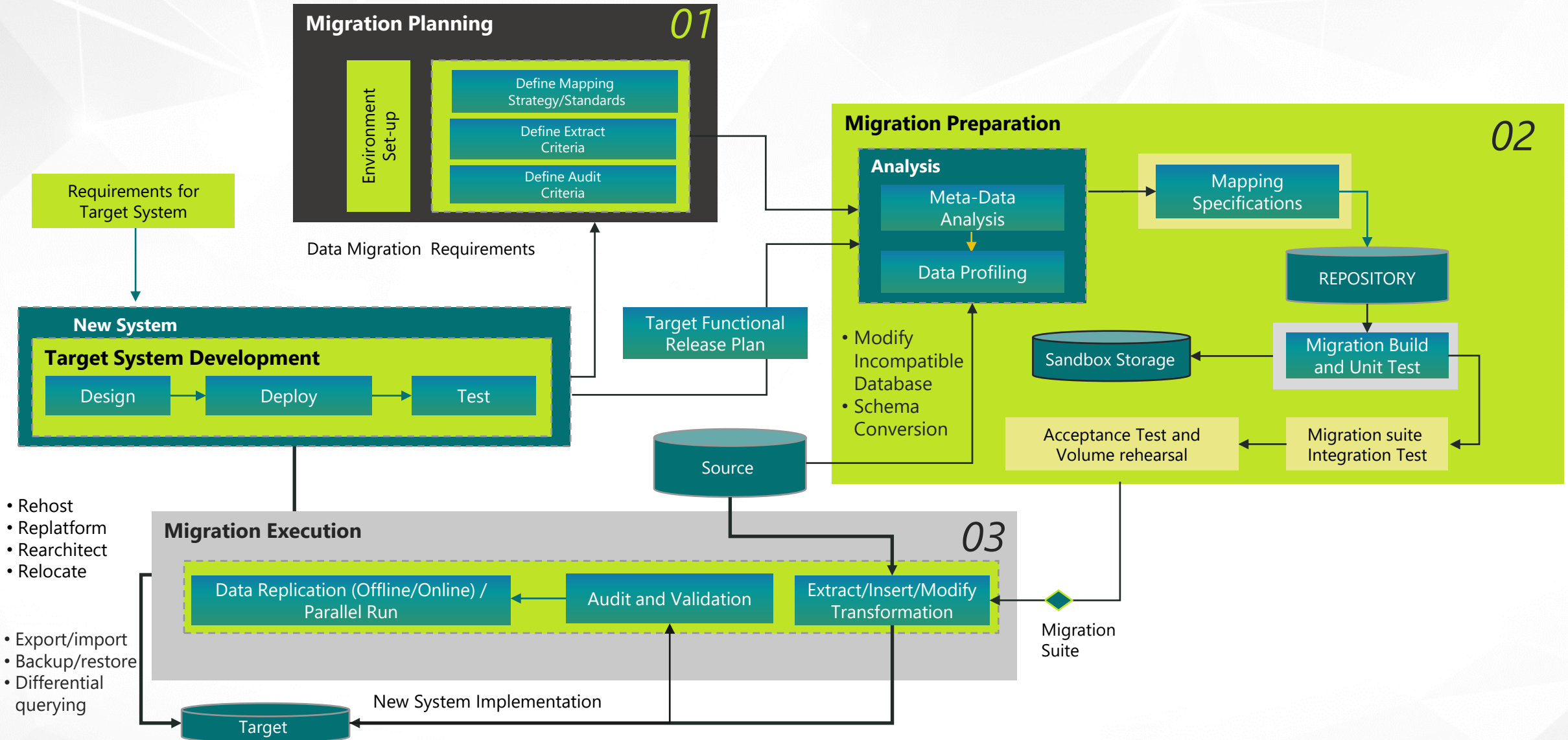
Active – Active
(supports clients writing into both the source as well as the target databases during the migration)
Active – Passive (the source databases can be modified during the migration, while the target databases allow only read-only access)



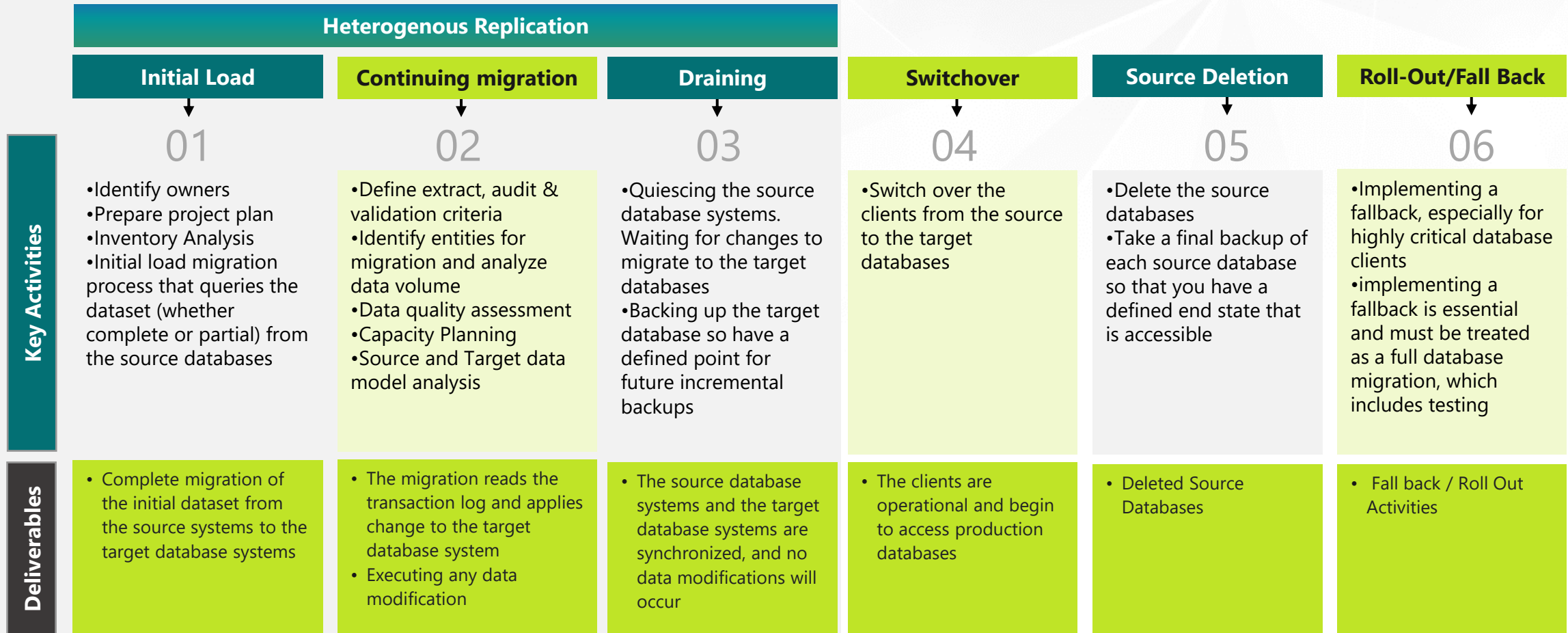
Samples

Migration Strategy
Cutover Strategy
Product / Technology Specific Samples
Design
Data Mapping
ETL Scripts/Stored Procedures
Reconciliation Scripts
Performance Tuning Guidelines

Phase-3: Data Migration Flowchart (Powered by Microsoft)



Phase-3: Data Migration (Heterogenous/Homogenous) – Phases (Powered by Microsoft)

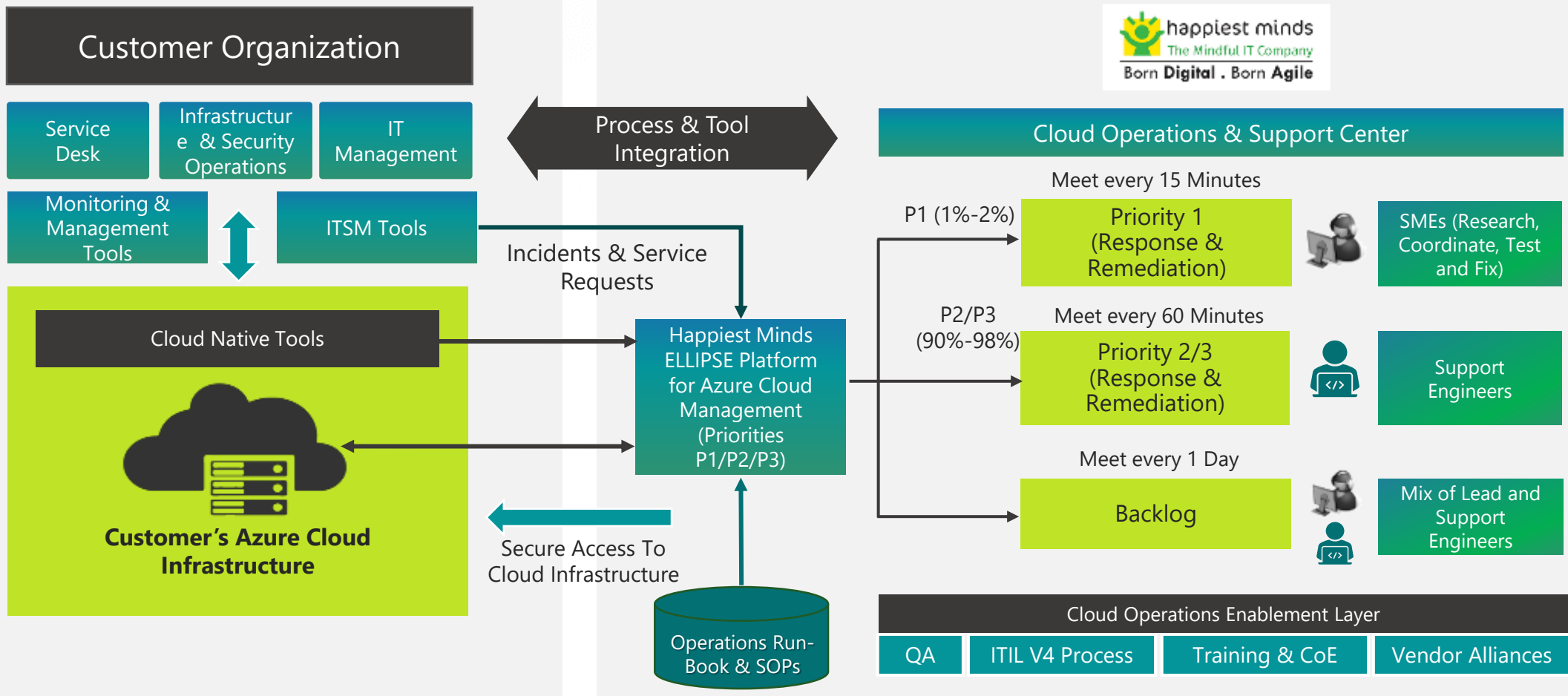


Offline Migration - Backup/Restore – Export/Import

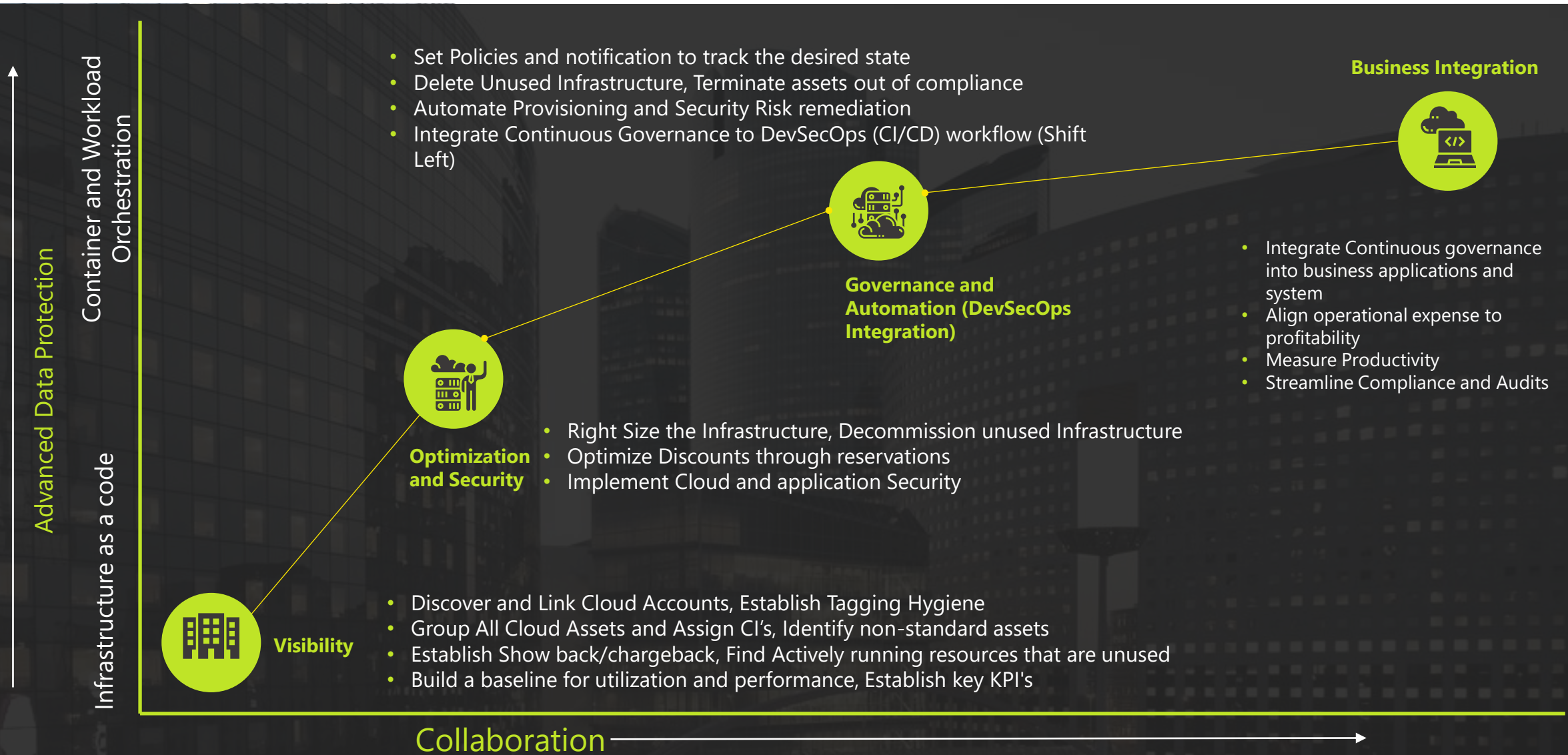
Database Management System Replication – Homogenous Replication

Schema Changes (Rehost, Replatform, Rearchitect, Relocate), Data Changes, Migration Process Changes, Migration Failure Mitigation

Phase-4: Steady State Cloud Operations Model (Powered by Microsoft)

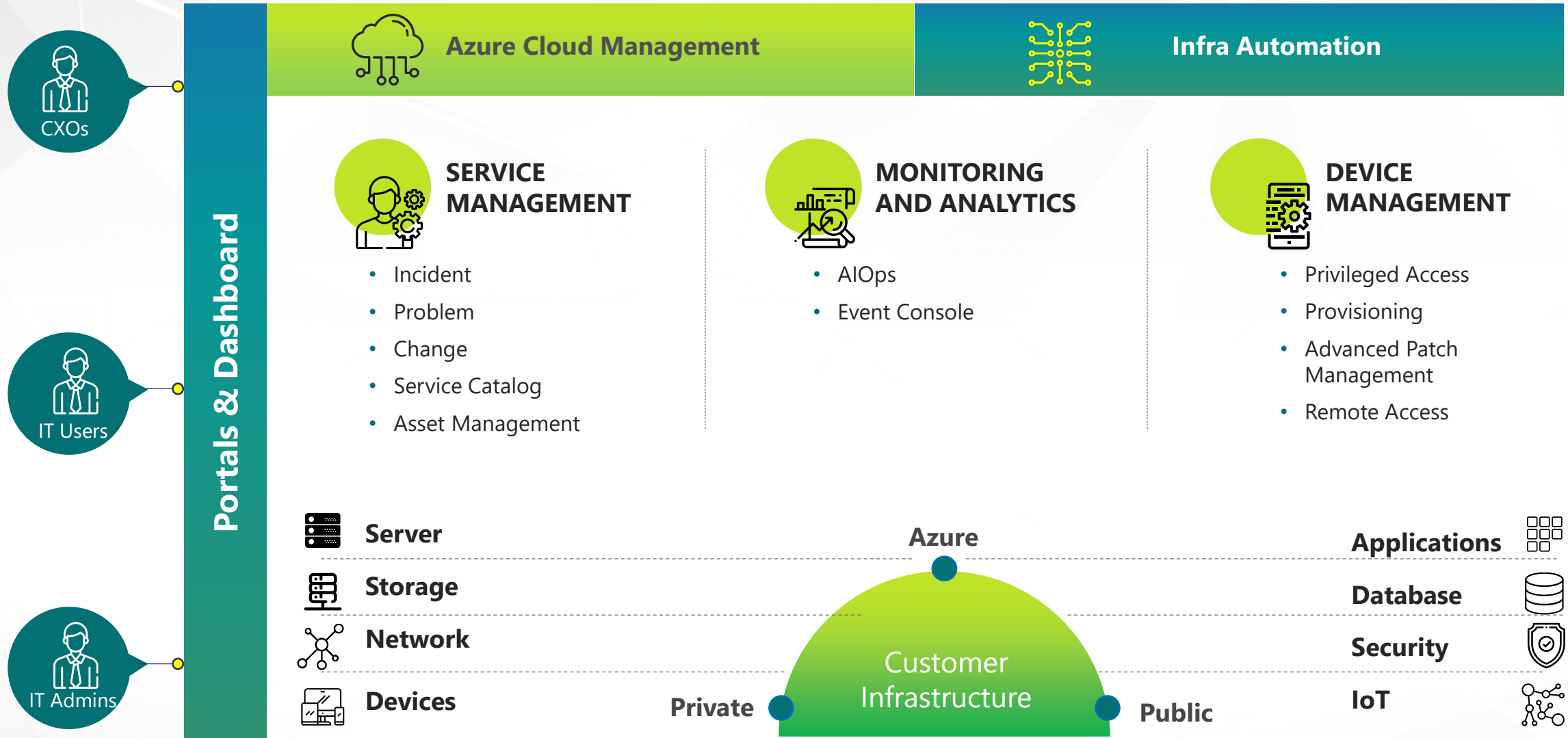


Cloud Operation Maturity Model (Powered by Microsoft)



Phase-4: ELLIPSE Platform for Intelligent Azure Cloud Operations

Continuous Assurance and Continuous Optimization



Our Value Proposition

Predictable Pricing
Model

Flexible Engagement
Model & Ability to Scale

Proven Delivery
Excellence

Investments in
Innovation & Tech CoEs

Quality Management &
Transparency



"Born Digital - Born
Agile" Company



Company with Great
Values and Culture



The First "Mindful IT"
Company



2020- 21 – Highest
Glass Door Ratings



2021 – Top 100 in
"Great Places to work"



Highest NPS for the
Year 2019-20



Skilled Team and ready
to deliver existing and
new services



Year-over year
savings in cost and
predictable model



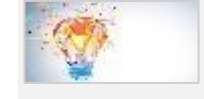
Certified, Compliant
and Secured Delivery
Centers



Continuous Investments
on Technology



Strategic OEM
Partnerships



Co-innovation with
Clients

