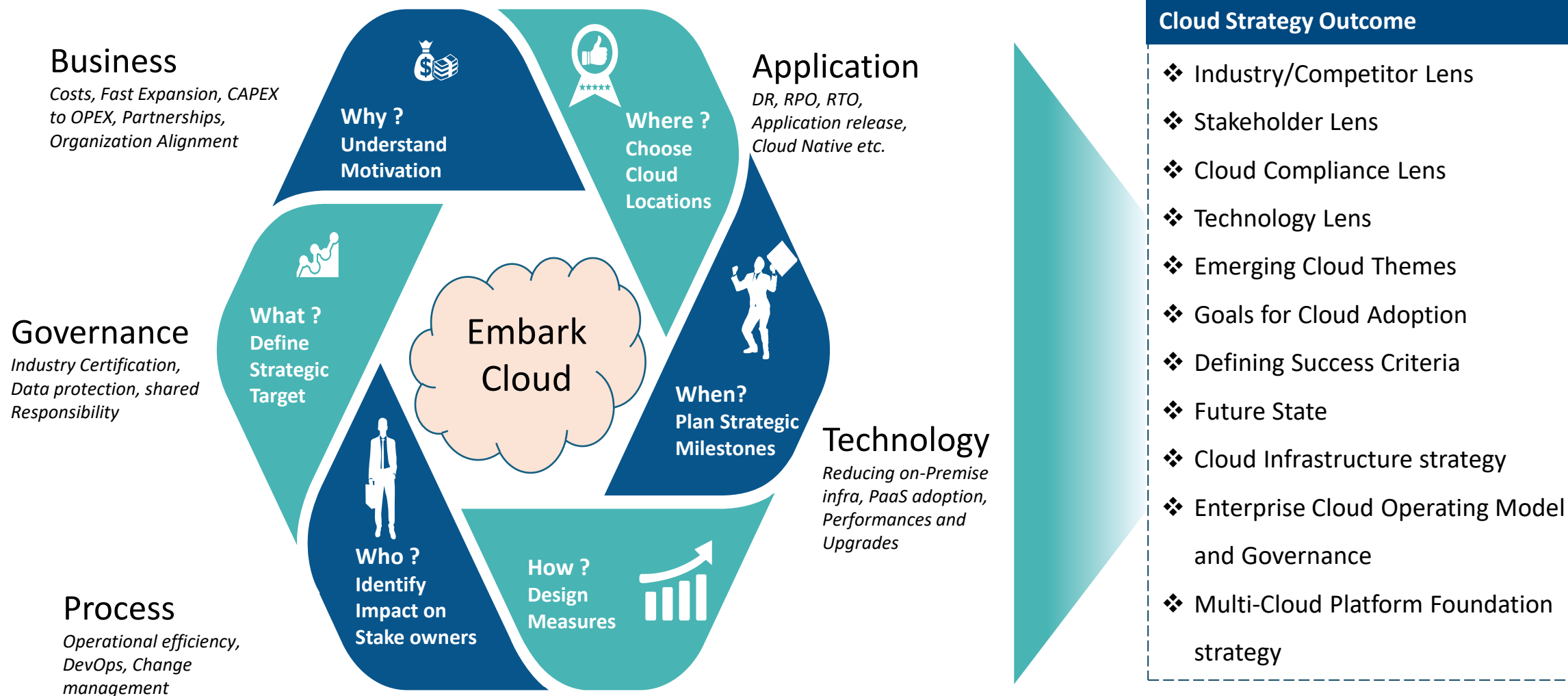
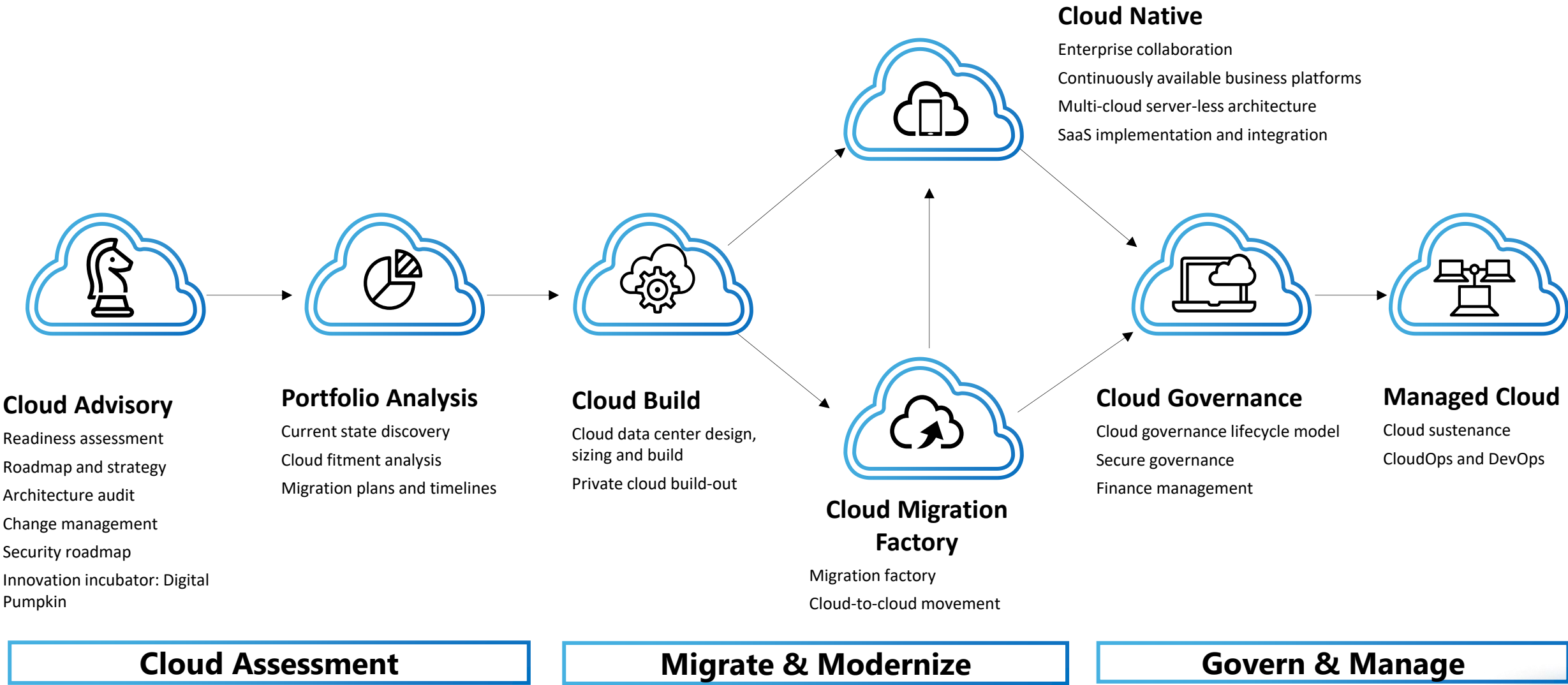


# Embark Cloud for Cloud Strategy



# LTIM drives Enterprise Cloud Strategy through a proven 7 Step Journey



# Azure Capabilities

**2200+**  
Azure  
Consultants

**600+**  
Azure Certified

**2000+**  
Applications  
rearchitected

**15+**  
Proprietary cloud  
Accelerators &  
Frameworks

**\*ISG** #Leader in Provider  
Lens Microsoft  
Ecosystem 2022

## Azure Credentials

- **Azure Expert Managed Service Partner**
- **Global ITES 360 Partner.**
- **CSP Tier 1 Cloud Reseller in 7 regions** - USA, EMEA, APAC
- **15 Competencies – 14 GOLD & 1 SILVER**
- **Microsoft CAF Partner**
- One of the largest Azure partners with **6 Advanced Specializations**
  - Analytics, Kubernetes, AI and ML, SQL & Win, DW migration, Modernization of Web App

### Joint GTM

- Microsoft Azure Expert MSP – 2023
- GTM on LTIM Canvas
- Joint Domain Solutions, Co-Sell & GTM
- Microsoft Business Unit & Azure CoE @ LTIM
- Focussed Cloud & Digital Transformation & Data & Analytics centric sales themes

### Strategic Vendor

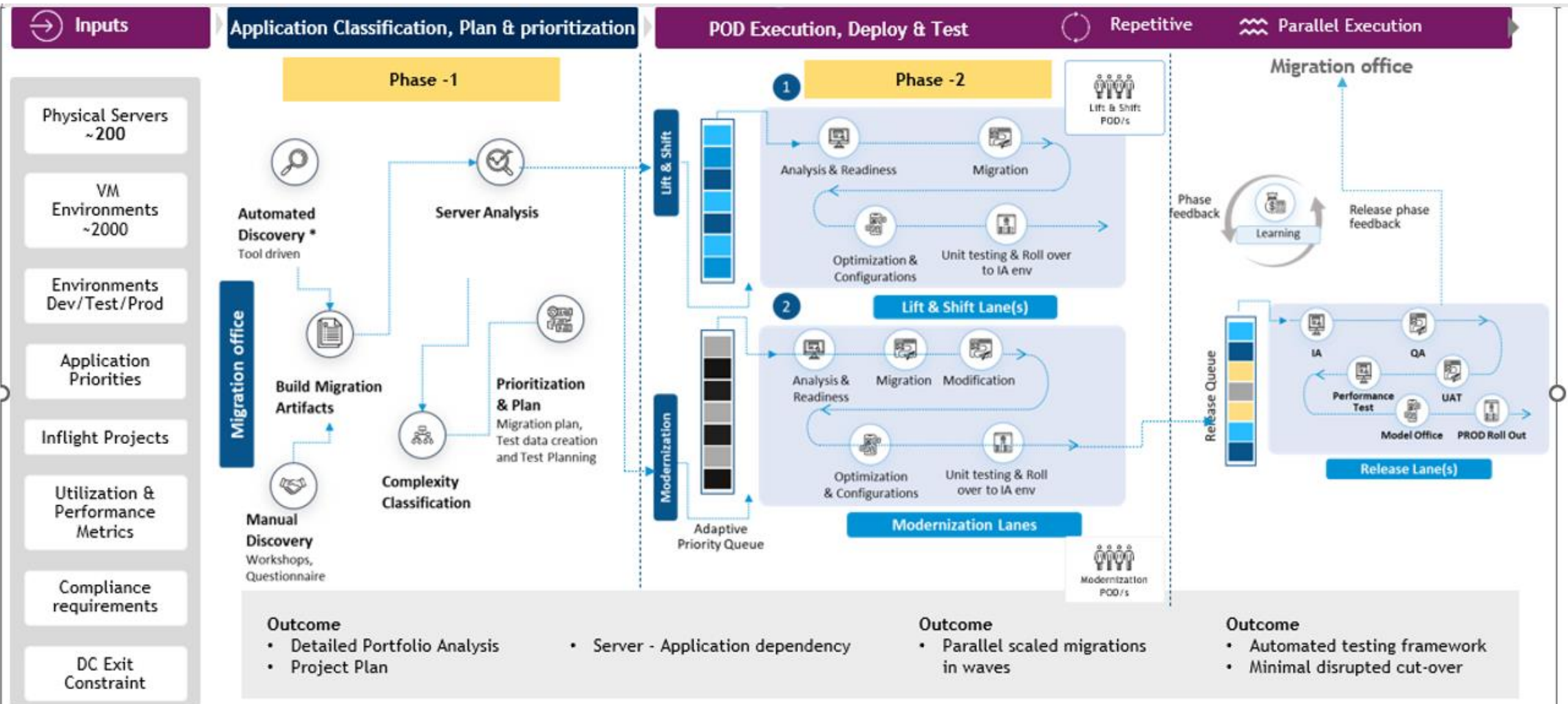
- MSIT Tool Development & Ops Support – Campus, Virtuoso Products
- Cross Domain Delivery
- Environment standardization - Vendor consolidation and optimization of efforts

### Customer

- L&T group is one of the Largest Microsoft Customers in India
- L&T group core apps are all on the MS stack e.g. Dynamics CRM, SharePoint, O365, Dynamics AX, Desktop, Azure Media Services, Lync, Exchange, Azure etc.

### Deliver with..

- 35,000+ Assets in construction business connected, managed and monitored using Azure IoT
- HoloLens – 3D Models piloted in L&T Realty
- IOT devices with GSM capabilities added for Azure Integration



**Outcome**

- Detailed Portfolio Analysis
- Project Plan

- Server - Application dependency

**Outcome**

- Parallel scaled migrations in waves

**Outcome**

- Automated testing framework
- Minimal disrupted cut-over

\* We will deploy automated tools to discover application dependencies and migrations based on cost economics and tools compatibility. Cost of the same will be shared post due diligence



# AWS Capabilities

OFFICIAL LINKS  
[LTIM on AWS Partner Site](#)    [AWS Competency on LTIM Site](#)



**1600 +** AWS Certified Professionals   
 **15827 +** AWS Accredited Professionals   
 **25+** Domain Partnerships & Accelerators   
 **~85** DC Exits   
 **1500 +** Projects Delivered   
 **15+** Service Delivery Validations   
 **10+** Years Experience with AWS

## 9 AWS Competencies

- Machine learning
- Microsoft Workloads
- Data Analytics
- Financial Services
- Migration
- Energy
- DevOps
- SAP
- IoT

## APN Programs

Immersion Day, WAR , MSP Program, ACE  
 AWS Marketplace

 Service Delivery Programs
 

- **AWS Database Migration Service**
- **AWS CloudFormation**
- **Amazon EMR**
- **Amazon Redshift**
- **Amazon MSK**
- **Amazon Kinesis**
- **AWS WA**
- **Amazon EKS**
- **Amazon CloudFront**
- **Amazon RDS**
- **AWS Lambda**
- **Amazon API Gateway**
- **Amazon DynamoDB**
- **Amazon IoT Core**

## Joint Ventures

Access to funding of \$16 M+ for initiatives, leveraging the reStack agreement

Technical Support from AWS Architects, ensuring Well Architected Solutions

Enablement & Joint Trainings, via Immersion Days

Sandbox, POV and MAP Funding

## Partner Certifications

- Premier Tier Partner
- Managed Service Provider
- Authorized Commercial Reseller
- Public Sector Partner
- Solutions Provider
- OpenSearch Partner
- Beta Partner Bedrock
- Consulting Partner
- Migration Partner

# Google Cloud @ LTIMindtree

		1100+	3200+	20+	28+	3	70+	100+
		Google Cloud Certified	GCP Professionals	Accelerators	Horizontal Solutions	Industry Solutions	GCP Customers	Migrations

<b>Our Focused Offerings</b>	<b>Migration, Modernization &amp; Integration</b>	<b>Managed Services</b>
	Accelerated development on GCP to modernize apps Containers   API   Integration   Workflows	Cloud Operations   Cloud Governance   SRE   FinOps For App, Data, ML, AI Workloads
	<b>Data Analytics &amp; Machine Learning</b>	<b>SAP on GCP</b>
	GCP native Data Engineering & Data Science solutions Data DW   DB   AI/ML   BI	Migrate SAP on GCP to leverage cloud scale & resiliency SAP S/4 HANA
	<b>GenAI</b>	
	Use Case Build   Management   Operations	
	<b>Leveraging our Assets</b>	

<p><b>Canvas Eureka</b></p> <p>Automation framework and toolkit for accelerated data modernization journey to GCP BigQuery.</p> <p>INFINITY Express</p> <p>Automated multi-cloud infrastructure provisioning &amp; migration</p> <p>INFINITY Insights</p> <p>Assess cloud readiness, get insights on ops &amp; governance</p> <p><a href="#">Canvas.Gear/AI</a></p>	<p><b>Cloudxperienz</b> <i>From LTIMindtree</i></p> <p>Platform for end-to-end Multi Cloud Management Services</p> <p>INFINITY Ensure</p> <p>Autonomous cloud governance and Reporting. A platform built to monitor and manage multi-cloud environments</p> <p style="color: #0070C0; font-weight: bold; font-size: 1.2em;">SAP LAMPS</p> <p>Tools and accelerators to industrialize the cloud migrations of SAP workloads with comprehensive insights into the migration lifecycle</p>
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**Across Industries**

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*Credited as Resell Partner for GCP & working on increasing the overall benefits in terms of discount and enterprise support cost*

*Google Partner of the year 2024 for Manufacturing*

# End to End Cloud Service Offerings

## Cloud Strategy Consulting

- Cloud Selection
- Cloud Readiness Assessment & Business case
- Cloud Migration Planning
- Cloud Architecture Blueprint (IaaS / PaaS)
- Cloud Centre of Excellence
- Industry Cloud Blueprint

## Cloud Launch Pad services

- Next Gen PoV briefing
- Proof of technology / concept
- Services/platform/tool evaluation

## Cloud Migration (6R disposition)

- Lift & Shift (Rehost)
- Lift-Tinker-Shift (RePlatform)
- Application Refactoring
- Lift-Transform-Shift (ReArchitect)
- Cloud to Cloud Migration (AWS to Azure, Azure to AWS, PCF to OpenShift)

## FinOps

- Cloud Cost Management
- Cloud Cost Optimization
- Cloud Cost Reporting
- Cost Control Guardrails

## Cloud Modernization & Transformation

- Application Containerization (Kubernetes, Docker, EKS, Amazon Fargate, GKE, AKS, Anthos, ARC)
- Serverless Adoption (Microservices, Amazon Lambda, Microsoft Functions, etc)
- Re-engineering application for Cloud Native and PaaS
  - SaaSification
  - Batch Transformation
  - Legacy Mainframe to Cloud Native
- Database Replatforming & Decomposition (Oracle to Postgres, RDBMS to NoSQL/Graph)
- Legacy to OSS Transformation (Windows to Linux, RHEL to Linux, WebSphere/WebLogic to Jboss)

## Cloud Managed Services

- 24\*7 Monitoring & Support
- Incident Management
- SLA based Support
- Site Reliability Engineering
- Backup and Restore

## Cloud Optimization Exercises

- Well Architected Audit
- Cost Optimization
- Security Hardening

## Cloud Application Engineering Services

- Cloud Native Application Development (Full stack, microservices, service mesh, containers)
- Digital Platform Engineering (End to end - Mobile, IoT/IloT, Cloud Native, Edge, Data, AI/ML etc.)
- Integration services (API, ESB, BPM, Step Functions, Logic Apps, etc)

## DevOps/DevSecOps Consulting

- Assessment strategy and roadmap
- Tool selection and harmonization
- ALM and RLM Automation
- DevOps as a service

## Cloud Infra Engineering Services

- Cloud Infrastructure Design
- Cloud Landing Zone setup (Compute, ntwk, Storage)
- Cloud Governance & Security (RBAC, Compliance, IAM, Data Protection)
- Multi Cloud / hybrid cloud setup
- Cloud BCP
- Well Architected Audit

## Cloud Assurance services

- Penetration testing
- Performance testing
- Chaos engineering
- Application testing

## Data on Cloud

- Data Lake
- Data Warehouse on Cloud
  - Snowflake on Cloud
  - BigQuery Omni
- Data Analytics / BI on Cloud ETL/ELT

## AI on Cloud

- AI Solutions on Cloud
- Machine Learning on Cloud
- Chatbots on Cloud

## IOT on Cloud

- IOT Solutions on Cloud

## ERP on cloud

- SAP to Cloud
- ORACLE EBS to Cloud
- JDE to Cloud

# Our Solution tenets and associated interventions to drive Nextgen Operations

## Solution Themes

## Interventions and Elements



Cloud Agnostic



Self-Service and Automation



Cloud Governance and FinOps



Proactive & Intelligent Operations



Modernize Ecosystem & Maximize the value stream



Tiered Service based on business Criticality

- Leverage **Enterprise cloud Team** to drive operations & efficiencies across Azure, GCP and AWS
- Adopt Toolset and strategies to enable **multi-cloud experience**
- **Robust Cloud Governance** with unified product across AWS, GCP and Azure

- **4-dimensional automation strategy** to – Eliminate, Predict, Accelerate and Delight
- Promote **Self-Service** leveraging ServiceNow and reusable cloud automations
- **150+** automation scripts and bots to accelerate adoptions

- Extend our **IP Infinity Ensure** to drive multi-Cloud governance and Discipline'
- Operationalize **FinOps** and continued consumption optimization

- Utilize Automation 1<sup>st</sup> approach to deliver efficiencies
- **Drive Predictive Ops** through Event Correlation and AI driven Automated Resolution
- **Leverage LTIM automation platforms** - Canvas AIOps, and extensive BOT libraries

- Collaborate to accelerate **Cloud adoption**, rollout new services
- Fast-tracking the migration using our '**Migration Factory**' (Tools, Framework, resources)

- Automated **Tagging Strategy** to assign Business metadata for accurate understanding of user group and reflection of business priorities
- Timely support and warm transfers ensuring performance without any **productivity impact**



MCF is a tried and tested framework designed to support enterprises with varying support needs including Major Event Support, Advanced Security Management, Deployment Heavy Systems Support and more.

## Managed Services: **Managed Cloud Framework (MCF)**



### Cloud operations

- Patch Updates
- Log Management
- Deployment Support
- Incident Management
- Change Management
- Service Request Management
- Problem Management
- Coverage – 24/7 or 8x5 with P1 during Off business hours



### DevOps automation

- DevOps Automation
- DevOps Process Identification
- DevOps Workflow
- DevOps Management
- Deployment Support
- Rollback Support
- Weekend Deployments

### Supported Technologies

- Terraform
- Ansible
- Cloud Formation
- Jenkins
- Chef
- Puppet



### Cost optimization

- Cloud Utilization
- Capacity Management
- Upsize/Downsize Servers
- Reserved Instance Planning
- Auto Start/Stop of Non-Production Systems
- Deletion of Unused Services
- Re-architect for Better Performance
- Spot Instances Planning



### Governance & Reporting

- ITSM Based Ticketing Tool
- Establish Governance Policies
- Implement Approval Process
- Strict Adherence to SLA
- RBAC
- Data Sovereignty Management
- Access Key Protection
- Daily, Weekly, Monthly Reports
- Uptime Reports
- AWS/Azure Audit Reports



### Security & Compliance

- Cloud Native Security
- Access Management (Users, Groups, ACLs)
- VPN Support
- Firewall Support
- SSL Management
- DDoS Monitoring & Support
- WAF Management
- Anti-Virus Protection

IPs

Canvas AIOps  
CloudXperienz

Canvas DevOps

Infinity Ensure

Infinity Ensure

Infinity Ensure

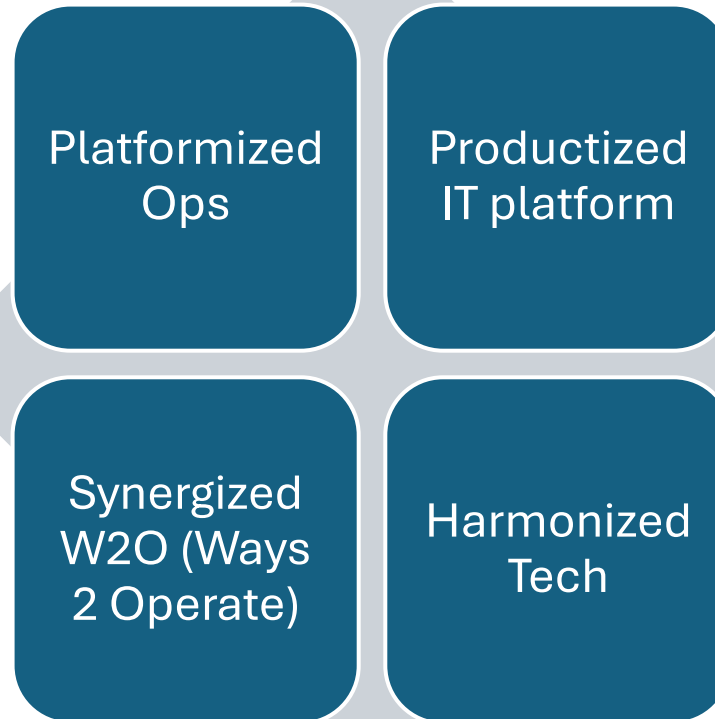
# Full Stack Digital Operations (FSDO) to improve resilience of apps, efficiency of service delivery and TCO savings

## 1. Digitize IT Operations and adopt platform led delivery by integrating tools, processes and data sets across service value chain:

- Adoption of **SNOW** as the platform of truth
- **Engineering platform led delivery** – Adoption of microservices / APIs for integration and Data as horizontal platforms across the service value chain
- **Canvas** owned AI/Ops platform
- **Purposeful Transformation Strategy** for “Growth” with measurable outcomes

## 3. Synergies between teams and BOTS as virtual engineers

- Intentionally designed Squads to manage interdependencies across distributed systems to achieve **hyper-collaboration** and **drive hyper automation**



## 2. SQUAD & TRIBE model for a true productized IT service delivery

- **Productized SQUAD & TRIBE** model for SAP and custom COTS / SaaS / Bespoke apps
- **Tribes aligned to business** – Process as a common language between business & IT
- **SRE adoption** as feasible to help Kraft move to “Zero Downtime”

## 4. Proactive, Predictive & Unified IT Operations:

- **Proactive, predictive and unified IT operations** by Converged Ops team for better MTTR & MTBF
- **Joint innovation workshops** powered by design thinking principles to reduce TCO and improve quality of services

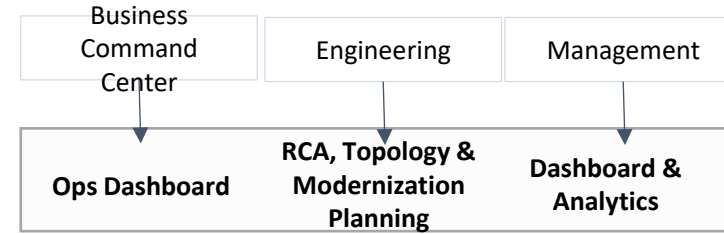
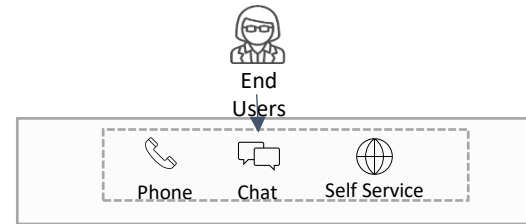
FSDO breaks operational data silos and provides contextualization, observability, and visibility across IT operations

# AIOPS Platform

Unification of IT Operations

Enhance User Experience

Cost Optimization

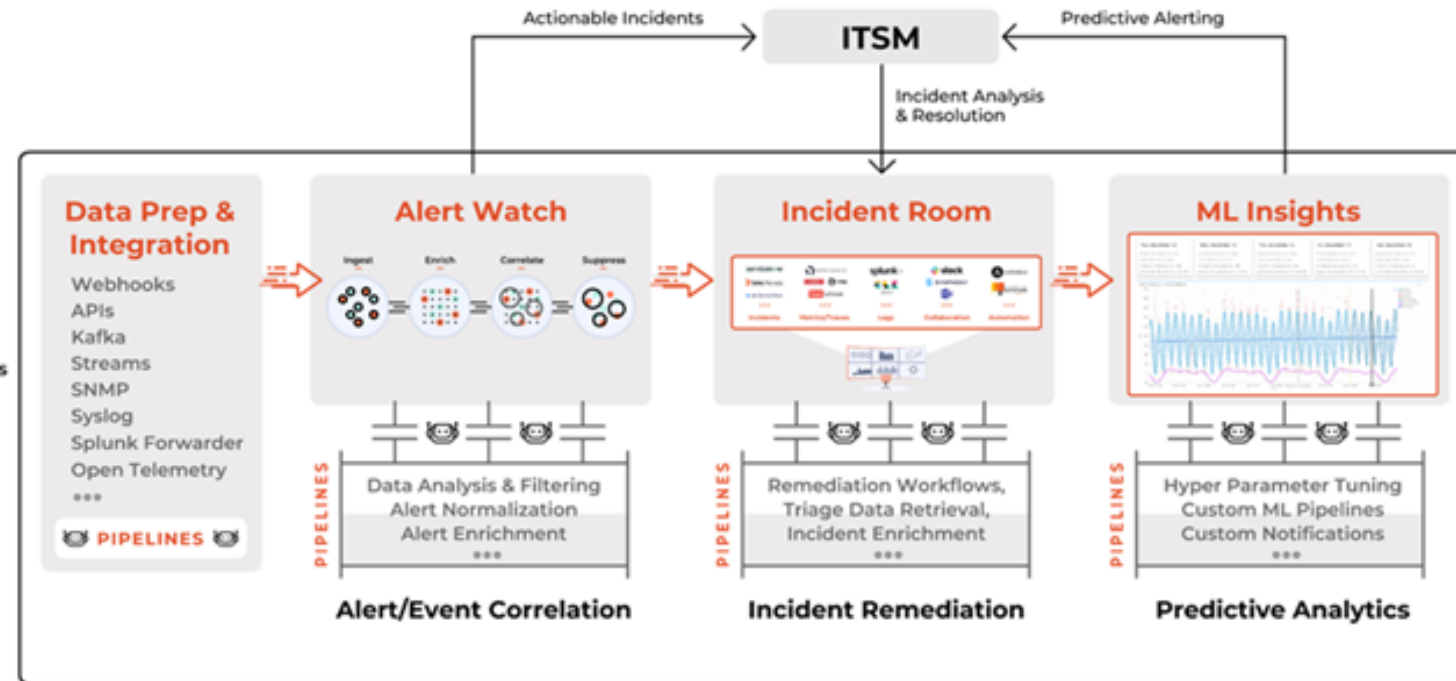


X-Domain Observability Sources



- App
- Compute
- Network
- Storage
- Security
- Cloud
- MW & DB

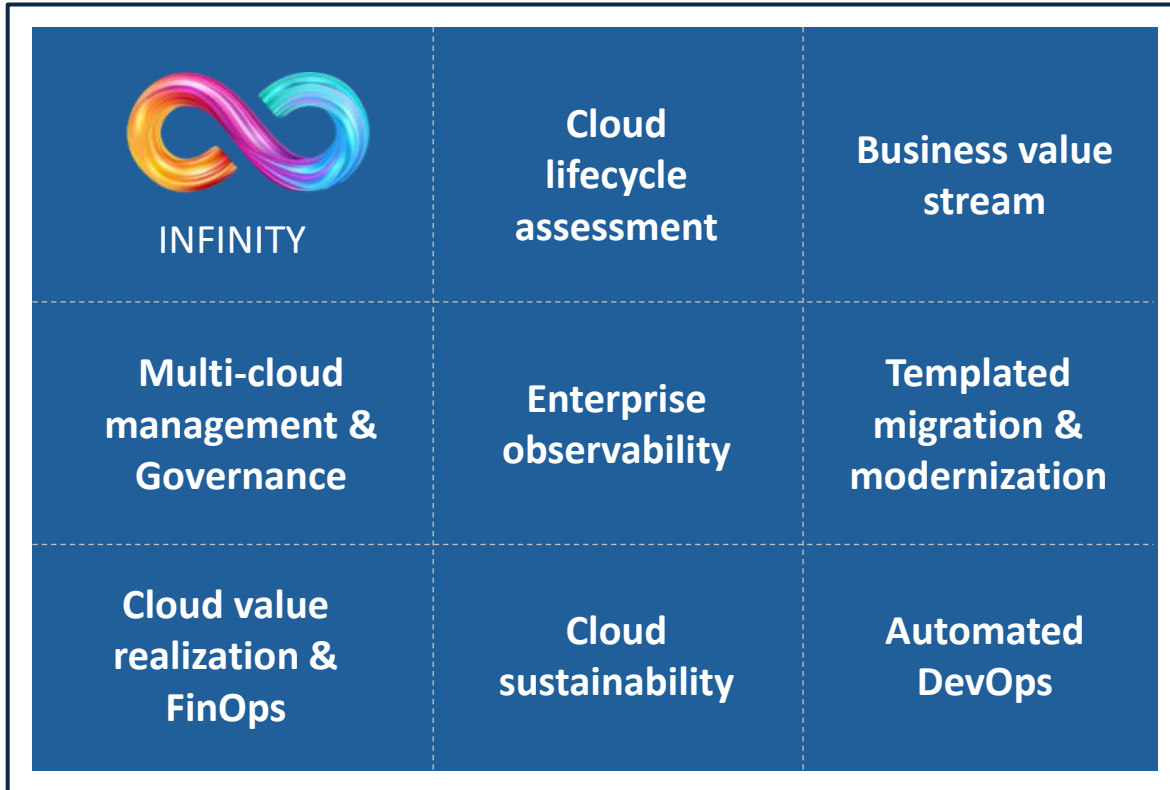
- Metrics
- Events/Logs
- Traces



Streaming Data Fabric | 1000+ Bots Library | Low-Code | Self-Service Automation | Field Customizable

\*Dependency on accuracy of CMDB

# Infinity Platform – Powering End to End Cloud Lifecycle Management



- 1 One of the only **end-to-end cloud lifecycle platform**
- 2 **Industry NorthStar** – MFG - After Sales, Automotive - Supply Chain, BFS - Retail, Insurance – Policy & Claims
- 3 Focus on next gen features:
  - **Infinity Green** – to optimize cloud carbon footprint
  - **Infinity Watch** – Business lens to Observability
  - **Infinity Spark** – Operation for new Stack
  - **Infinity Micro** – Mono to micro recommendation & Transformation
- 4 **Marketplace of cloud-based business solutions**

<b>5 Industry North Stars</b> 150 Business Procs	<b>200+</b> Managed Accounts	<b>3000+</b> <b>WAR</b> remediations	<b>75+</b> Cloud lifecycle solutions	<b>\$30M</b> Savings Delivered	<b>50% Lesser time</b> to Containerize & Deploy	<b>1M</b> Bot interactions per month
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# Delivered through Infinity Marketplace - Ready to use solutions



## Infinity AppLens

App Assessment tool for cloud strategy and modernization



## Infinity Insights

Infra portfolio assessment for cloud readiness.



## Infinity Xpress

Automated multi-cloud infrastructure provisioning & mgmt.



## Infinity DevOps

Self-service DevOps platform & persona-based governance



## Infinity Modernization

Modernization toolkit for Cloud Native transformation



## Infinity Watch

Connect multi-cloud observability platform



## Infinity Ensure

Autonomous multi-cloud governance and FinOps platform



## Infinity Green

Multi-cloud sustainability



## Infinity Botzer

Enterprise Chatbot platform for automated conversational workflows



## Infinity LAMPS

Platform for all SAP on Cloud migrations



## Infinity J2C

Autonomous multi-cloud governance and FinOps platform



## Infinity Spark

Operations for new stack on cloud

### CloudXperienz

- Gain complete landscape oversight, minimize risks, ensure security and compliance
- Govern enterprise-wide cloud resources via fast, consistent, and easy-to-use experience
- Accelerate multi-cloud adoption with automated provisioning and deliver enterprise cloud resources



- End to end Infrastructure discovery tool
- App to Infra mapping
- Provide details to create application wave group for migration



- Self Service Portal for Provisioning IaaS & PaaS on Public Cloud
- Cost Optimization for public cloud consumptions



- Enables integrated platform led delivery
- Engineering platform-led delivery model, which is an accelerator to enable an automation-first approach
- CAPE powers full-stack teams with innovative ways to drive agility and improved productivity

### Infinity Insight

- Comprehensive suite of pr





- Enables AI insight fueled Digital IT operations
- Reduces toil by automating repetitive SOP based tasks
- Rich persona-based insight for effective decision making
- IT to Business correlation
- Anomaly detection and Predictive analysis
- Automated Knowledge building


**Traditional Model** **Converged Operations**


 Focus on availability and performance of technology parameters


 **Focus on Business KPIs,**  
Experience levels

 Configured to provide technology centric view


 **Technology Focused,** Configured for end to end business centric and functional view


 Level 1 / Level 2 / Level 3 skills in each of the technology towers being managed (E.g.: Server, , Storage, Database etc.)


 **Highly cross skilled team** with skill adjacencies supported by specialized technology SME's on escalations


 Higher "tribal and siloed knowledge"

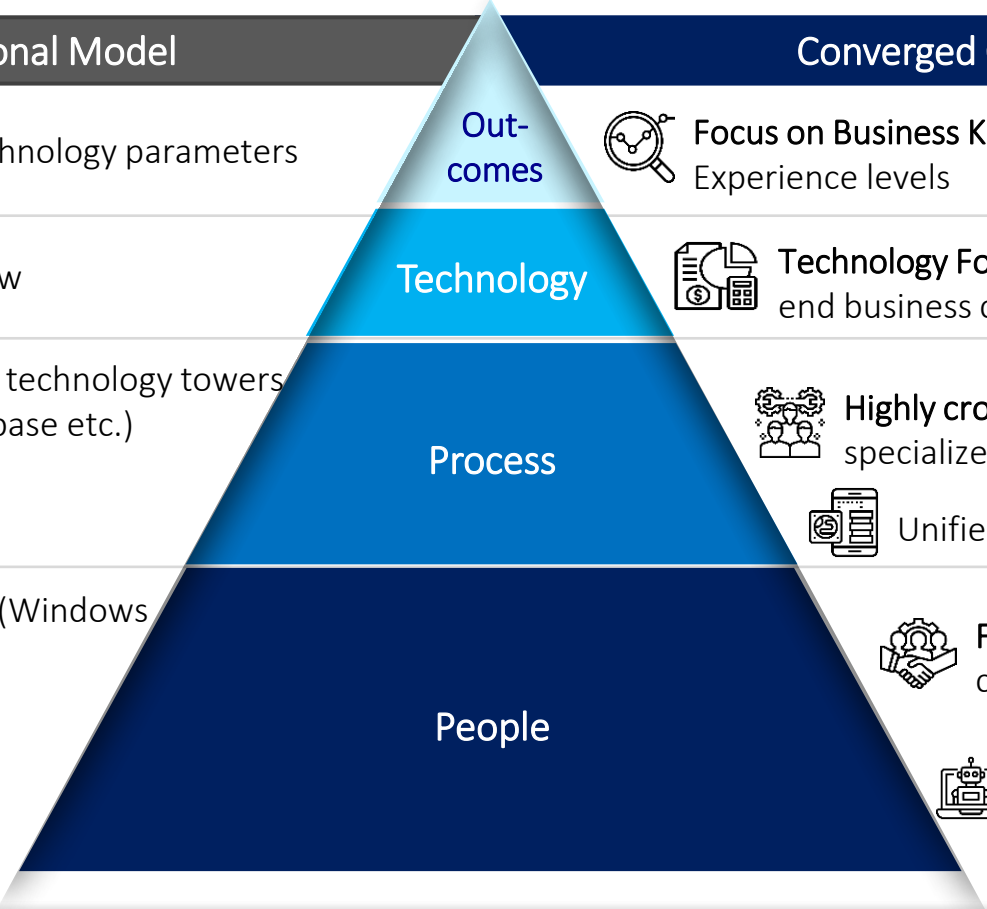
 Unified view **system driven knowledge management**

 A technology aligned tower-based structure (Windows Team, Storage Team, Database Team etc.)

 **Function based team** – A leaner cross functional & cross technologies team supported by SME Pool

 Responsibilities limited to technology tower (Server team does not do Storage tasks)

 **Responsibilities based on functions** spanning all technology areas (Example: Incident Management, Service Request Management)



**Benefits Of Converged Ops Operations Model**

Faster resolution – Lower MTTR through a high skilled cross functional team and faster triaging

Leaner support teams enabled by cross skilling across skill adjacencies

Enhanced single view of knowledge base across teams for faster co-relation and triaging

Enhanced experience for end user

# LTIMindtree Automation (AIOps) Capability summary

Key objectives: Automation readiness; Automation coverage & Maturity; Value creation; Automation as a Culture; Automation IPs;

**110+**  
Clients

**15K+**  
Trained Engineers

**5000+**  
Bots Live

**1400+**  
Reusable BOTS

**4**  
Platforms

**21**  
Tools & Accelerators

**9**  
Point solutions

## Key Uniqueness



**AUTOGRIT™ industry 1st Automation (AIOps) transformation framework**  
TM – India, UK, EU (US in progress)



**Platforms (IPs):** Canvas AIOps platform, Automated ITOPS Simulation platform, Canvas Appscribe  
**Tools & accelerators:** Canvas Opsight, iPPM, ACE Portal, Bot UMT, Automation CMI, IReX etc.



**#1** First Global patent received

**#5** Patents In Progress

## Key Offerings

### AIOps Services

- AIOps Automation Advisory
- Automation BOT Engineering
- Automation BOT Management Service
- OEM Marketplace (ServiceNow & AWS)

### AIOps Products

**canvas aiOps** (Platform ++)  
**canvas OPSIGHT** (Tools/ Acc. ++)  
**ISGS** (Solution++)

## Key Alliances and Partners

**servicenow**

**UiPath™**

**RESOLVE**

**blueprism**

**AUTOMATION ANYWHERE**  
Go be great.

**Microsoft**

## Success Stories

### Our Intelligent Automation Capability Helped Customers Across Industries Realize Large Business Benefits

<b>United States Government</b> Automated Service Request Processing, 24x7 Support, 100% Accuracy, 100% Satisfaction	<b>Large Financial Institution</b> Automated Loan Application Processing, 24x7 Support, 100% Accuracy, 100% Satisfaction	<b>European Retailer</b> Automated Inventory Management, 24x7 Support, 100% Accuracy, 100% Satisfaction	<b>South African Financial Institution</b> Automated Loan Application Processing, 24x7 Support, 100% Accuracy, 100% Satisfaction	<b>Large Government Customer</b> Automated Document Processing, 24x7 Support, 100% Accuracy, 100% Satisfaction
<b>United States Government</b> Automated Document Processing, 24x7 Support, 100% Accuracy, 100% Satisfaction	<b>Large Financial Institution</b> Automated Loan Application Processing, 24x7 Support, 100% Accuracy, 100% Satisfaction	<b>European Retailer</b> Automated Inventory Management, 24x7 Support, 100% Accuracy, 100% Satisfaction	<b>South African Financial Institution</b> Automated Loan Application Processing, 24x7 Support, 100% Accuracy, 100% Satisfaction	<b>Large Government Customer</b> Automated Document Processing, 24x7 Support, 100% Accuracy, 100% Satisfaction

## Key Analysts recognitions



**LEADER**

**#11**  
LTIM Ranked as **Leader**, and in 4 of them **Canvas AIOps** is mentioned as a **Strength**.

**Gartner**

Mentioned **Canvas AIOps** platform as “**strengths**” in PC IT Transformation Report 2023 & **LTIM** recognized as “**Visionary**”

**NASSCOM**

Mentioned **LTIM's** definition of **AIOps** along with **IPs** and case studies in their “**The Key to Achieving Tech Agility report**”.



Digital IT Foundation Transformation Services

Digital IT Foundation Consulting and Advisory Services

Private Cloud Services	Public Cloud Services	Edge Transformation Services	Advanced Connectivity Services	Digital Workplace Services	Service Transformation	Database and Middleware Platforms
<ul style="list-style-type: none"> <li>Private Cloud As A Service</li> <li>Infrastructure Engineering</li> <li>DC Modernization and DC Exit</li> <li>Infrastructure Cyber Resiliency</li> <li>Open Source for Private Cloud</li> </ul>	<ul style="list-style-type: none"> <li>Cloud Platforms design and Build</li> <li>Cloud Migration</li> <li>Cloud Native Modernization</li> <li>Cloud FinOps</li> <li>Well Architected Reviews</li> <li>Industry Cloud Solutions</li> </ul>	<ul style="list-style-type: none"> <li>Edge Compute Solutions</li> <li>Open Source for Edges</li> </ul>	<ul style="list-style-type: none"> <li>SDWAN As a Services</li> <li>WiFi6 and Private 5G</li> <li>SDLAN Transformation</li> <li>Cloud Interconnects</li> <li>OT networks</li> </ul>	<ul style="list-style-type: none"> <li>End user Device as a service</li> <li>VDI design and deployment</li> <li>Workplace Collaboration services ( M365...)</li> <li>Workplace experience solutions</li> </ul>	<ul style="list-style-type: none"> <li>Cross functional Services and SIAM</li> <li>Service Now Service Analytics and reporting</li> <li>Business Observability solutions</li> <li>ITNomics (IT cost take out)</li> </ul>	<ul style="list-style-type: none"> <li>Database Migration to Cloud/Open Source</li> <li>Cloud Database platforms</li> <li>Middleware PaaS Services</li> </ul>
Security Services (User, Private, Public, Network security and AI enabled SecOps)						
Program and Service Delivery Management						

Full Stack Digital Operations (Ops Resilience and Reliability Engineering, Gen AI and Extreme Automation)

Recognitions



<p><b>13,000+</b> Hybrid Cloud, Network, Storage &amp; Backup, Database and Middleware Consultants</p>	<p><b>500+ PB</b> Storage</p>	<p><b>250+</b> Cloud Engagement</p>	<p><b>10,000+</b> Database Instances</p>	<p><b>350K+</b> Network Devices</p>	<p><b>30+</b> IPs and Accelerators</p>			
<p><b>300K+</b> Servers Supported</p>	<p><b>200+</b> Automation Bots</p>	<p><b>8500+</b> Cloud Certified Consultants</p>						

# LTIM Cloud adoption Framework

# Smart Network Services Offering Overview



## Data Centre SDN Solutions

Data Centre Networks & Software defined data centres

Cloud / Hybrid cloud DC Networking

Data Centre migration from legacy to SDN

DC Automation for Design, Build and Manage



## Digital Enterprise Solutions

### Software Defined LAN (SD LAN)

Centralized LAN deployment and management across sites

### Wireless Networking

Next generation Wireless networks and security for enterprise networks

Wi-Fi solutions for industry verticals

### Micro-segmentation

Enable enterprise network to segment their networks into smaller isolated segments to reduce attack surface and minimize risk



## Edge Connect Solutions

### Software Defined WAN (SD WAN)

WAN transformation & migration to Software defined WAN

### SASE Solutions

Uniform advanced security to users connecting data center, branch and cloud resources through different sources

### 5G Solutions

5G solutions for different enterprise use cases



## Platform based Services

### Managed Services

Platform based network operations ensuring enhanced observability, agility, security, scalability and performance

### Professional Services

Consulting and professional service offering to execute network assessments, POC's and transformations

### Network Proof-of-concept as-a-service



## Consulting ...

- Database Design and architectural reviews
- HA And MAA design solution
- DR /Design and Build
- Database auditing
- DB consolidation
- AIOps automation Solution
- Database upgrade And Migration Path Solutions
- DB Modernization



## Transformation ...

- Cross-Technology DB Migration
- Cloud and Data Center Migration
- Heterogenous migration solution
- Database Consolidation And Standardisation
- Mundane Task Automation
- Database Tools optimization, Remediation and Consolidation
- Factory based Continuous upgrade/migrate Framework



## Operation ...

- Managed Database Service
- Converged DB Operations
- User / Schema Management
- Performance Management
- Implementation of HA and DB Replication Support
- Database Backup And Restore
- Database Optimization
- Security Management
- Continual Service Improvement
- DR Operational Support





# Service Offering : Transform Enterprise DB

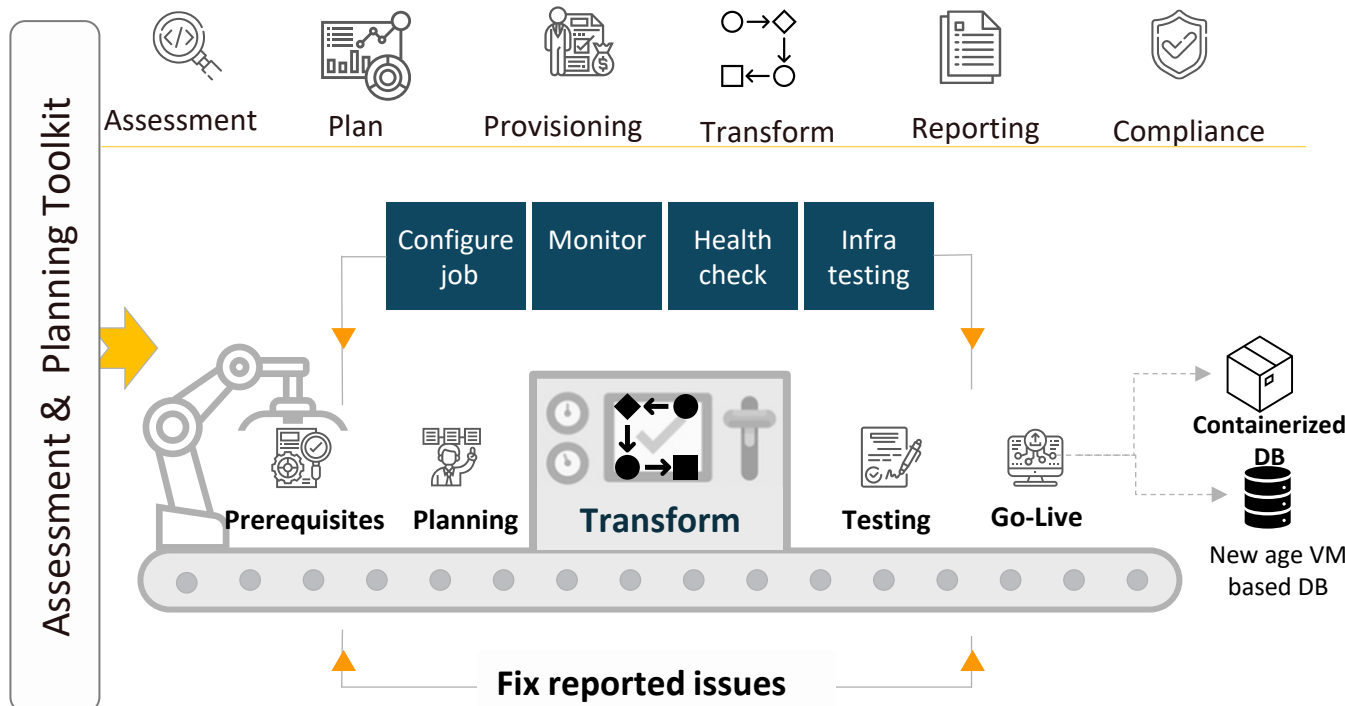
*“Create composable databases out-of-the-box to enable license cost reduction, efficient operations & database containerization for portability, unpredicted scalability & resiliency”*

## Conundrums ...

## Solved by LTIMindtree’s Transform Enterprise DB

## To Deliver...

-  **Exorbitant Operational Cost**
-  **High Complexity**
-  **Lack of Scalability & Portability**
-  **Full Value realization**



- **Reduce licensing cost by 20-50%** (Depending on target database engine)
- **20% time back to engineer** through mundane task automation
- **Shift forward to microservices – Portability, agility & scalability**
- **Implementation of SLO, SLA, SLI**

Transformation



Assessment



Plan



Provisioning



Transform



Reporting



Compliance

Orchestrator

LTI Transformation  
Factory Platform



Runbooks



Workflows



User Interfaces



Rules

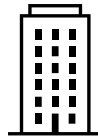
Migration &  
Automation tools



Native tools

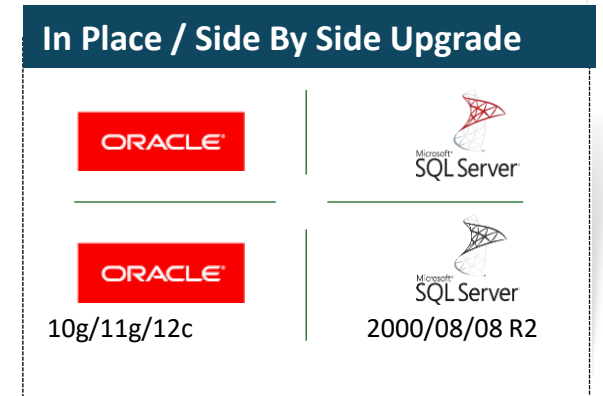
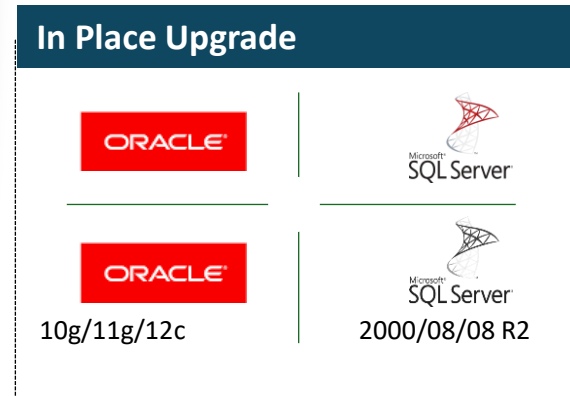
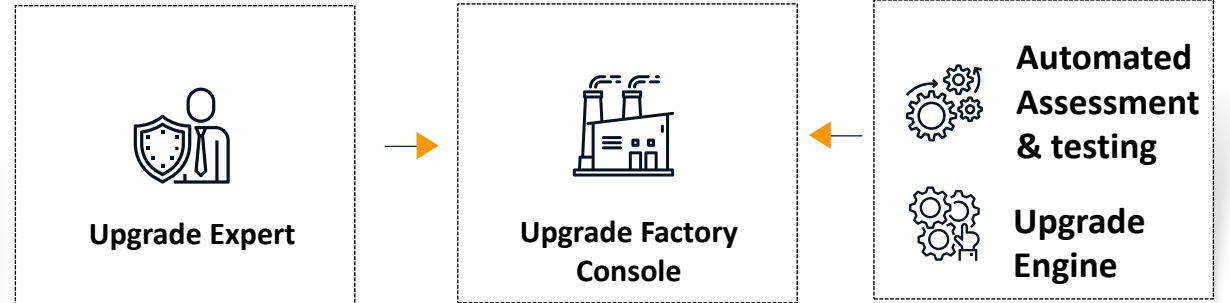
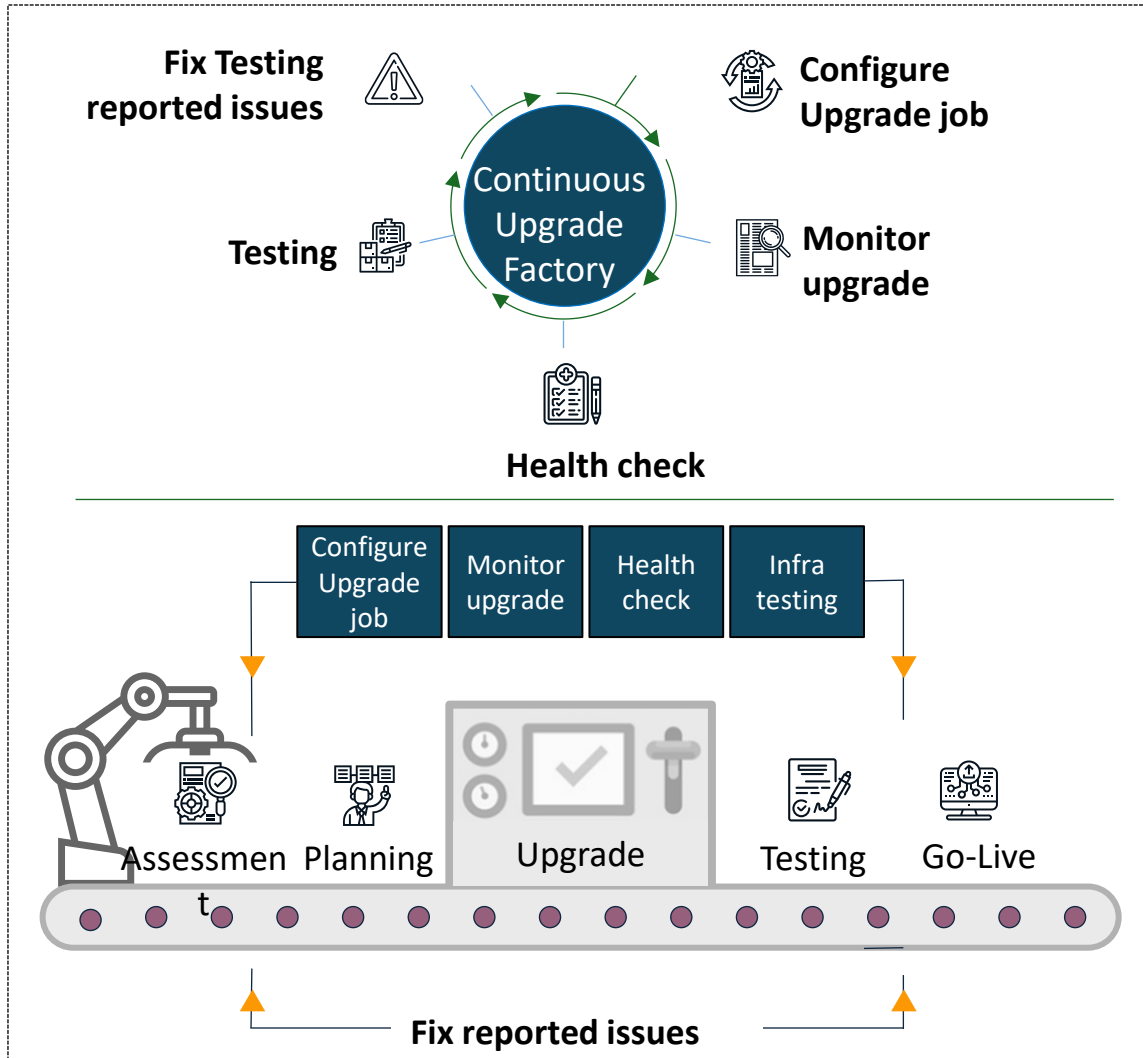
DB Engines

On Premise

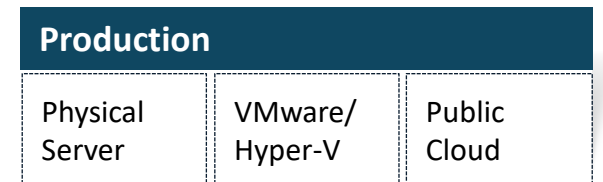
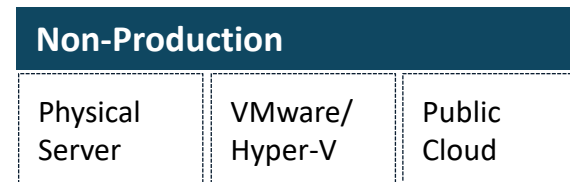


Public Cloud

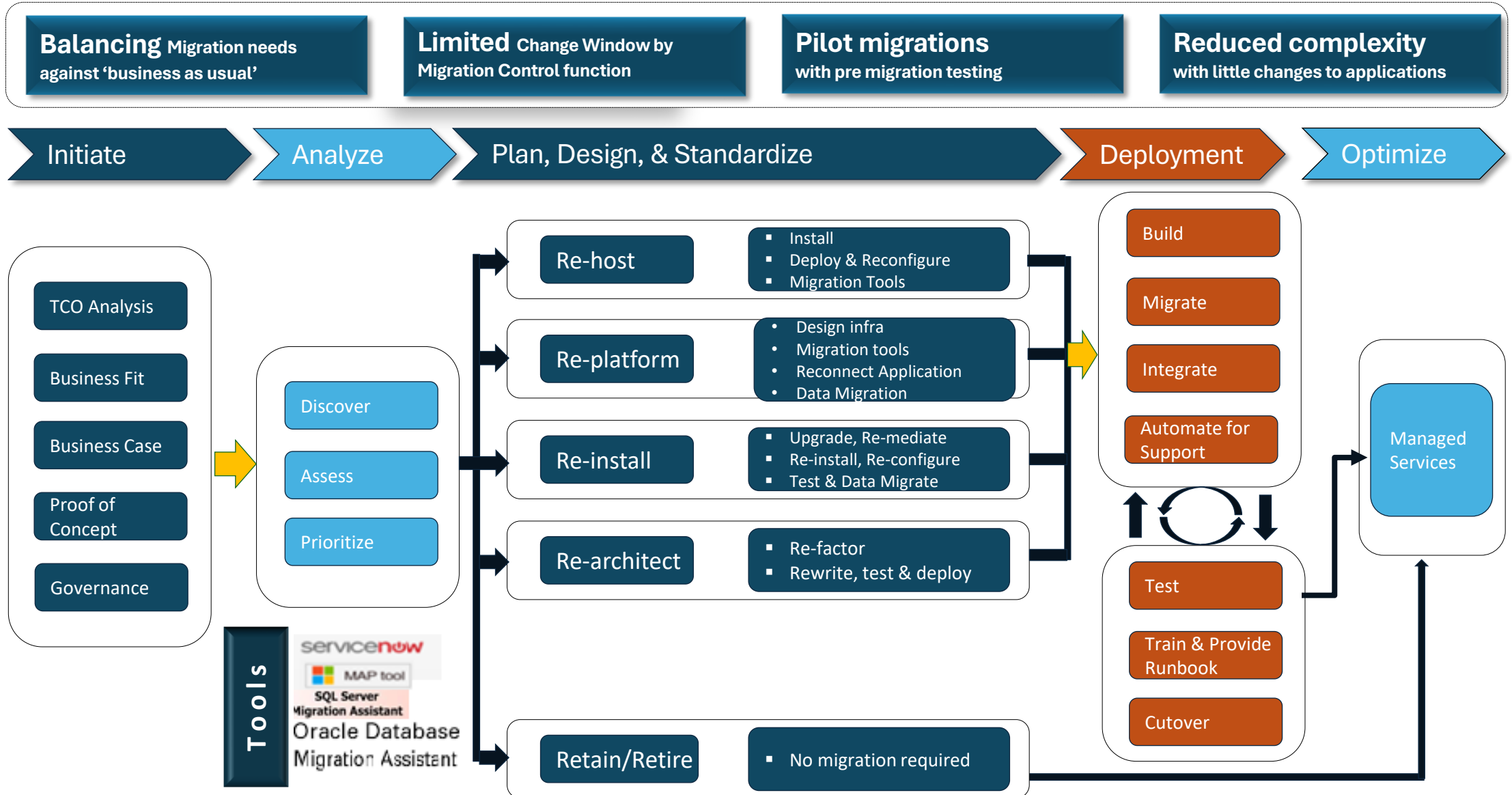
# Offering - Continuous DB Upgrade Factory



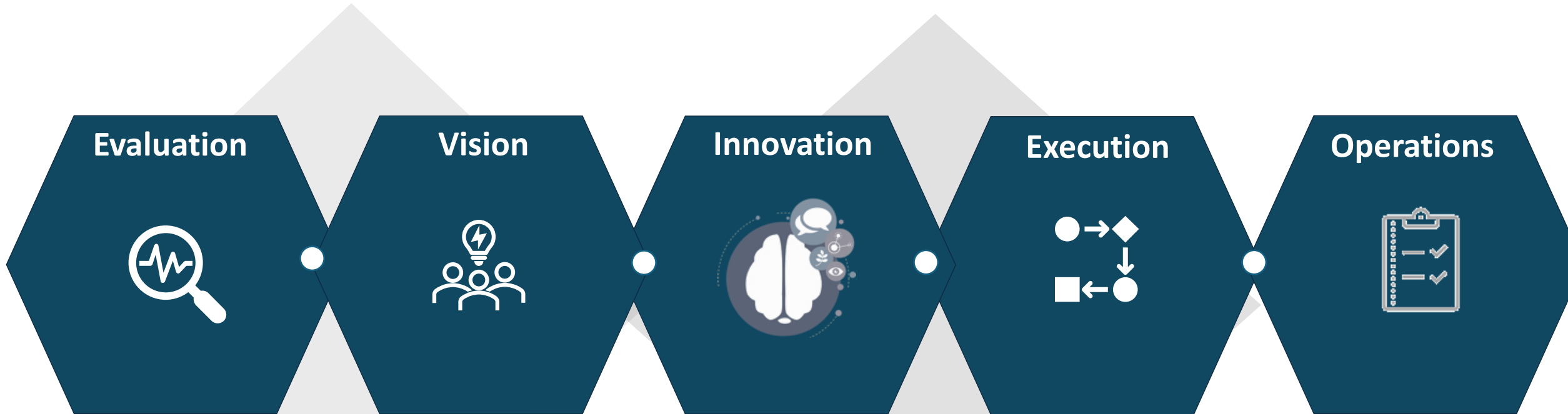
Tool based Replication for near zero downtime upgrade



# Database Migration Framework







**OBSERVATION**

>

**INSIGHT**

>

**IDEA**

>

**SOLUTION**

>

**MEASURE**

Evaluate Current State  
Assess Data growth  
Identify Risks

Define Goals  
Determine RPO & RTO  
Compliance & Security

Optimal Technology  
Seamless Synergy with  
Existing Infrastructure

Deployment Strategy  
Transition Execution  
Address Issues

Monitor and Manage  
Governance Practices  
Defined success metrics

*Strategy*

*Solution*

## Portfolio of services offered

### Consulting Services

- Transformation Roadmap
- Storage and Backup Optimization
- Assessment and auditing

### Transformation

- Design – Low level design
- Build & pilot migrations with pre-migration testing.
- Migration

### Operations / Continuity Services

- 24x7 Monitoring and administration
- Support based on new age delivery capability.

## Key differentiators



Strong and Long-Term Customer Relationship



Proven Consulting/ Transformation & Management experience



Experience of handling large and Complex programs



Automation through Tools and Accelerators



One Stop Shop for Storage Operations/ Transformations & management



SOP's and Runbooks for transition and Operations

# Transformation Journey

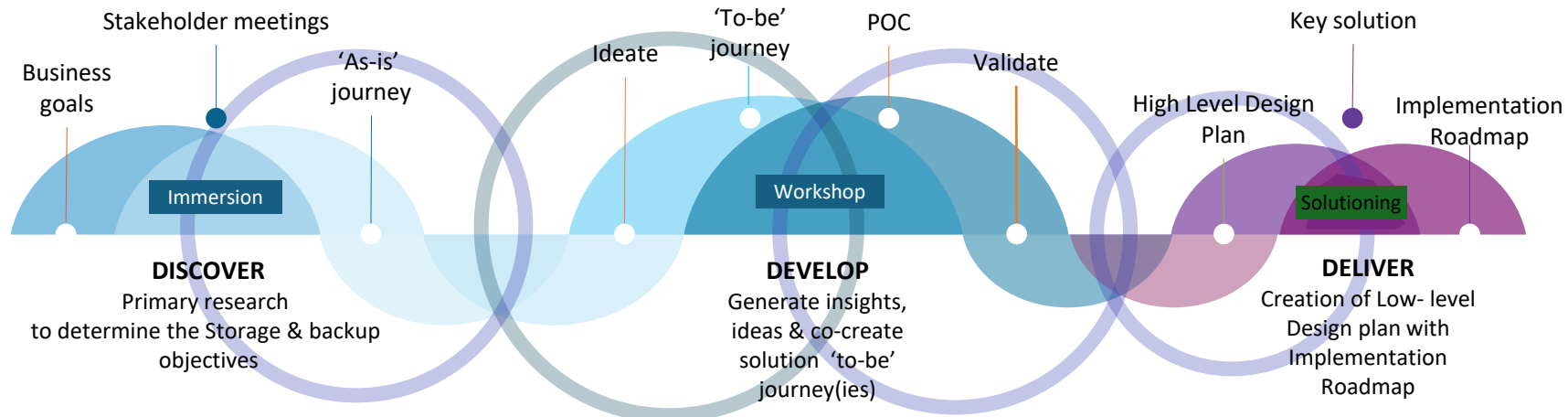
## Opportunity

- **Business Centric Development**  
Delivering solutions that focuses on satisfying specific business needs
- **Solution Development**  
To build and design new solution or service or re-engineering of an existing system
- **Address Limitations**  
Understand and address the limitations of existing solution
- **Embark Transformation**  
Need for a Strategized holistic vision to roll out the roadmap for the Transformation journey
- **Refining requirement**  
More clarity and insights needed for defining the scope
- **Innovation**  
Curate an innovative solution that meets the organization's goals

## Key Principles

- **Classification & Prioritization**  
Categorize data based on its importance, sensitivity and regulatory requirements
- **Security**  
Prioritize security in both storage and backup by implementing robust security practices
- **Scalable Architecture**  
Design an architecture that can easily scale to accommodate growing data volumes
- **Automation & Orchestration**  
Leverage automation and orchestration framework during implementation
- **Continuous Monitoring**  
Implement Monitoring tools to continuously track health of systems
- **Testing & Validation**  
Implement testing standards to validate the design before implementation

## Design Led Solution Delivery

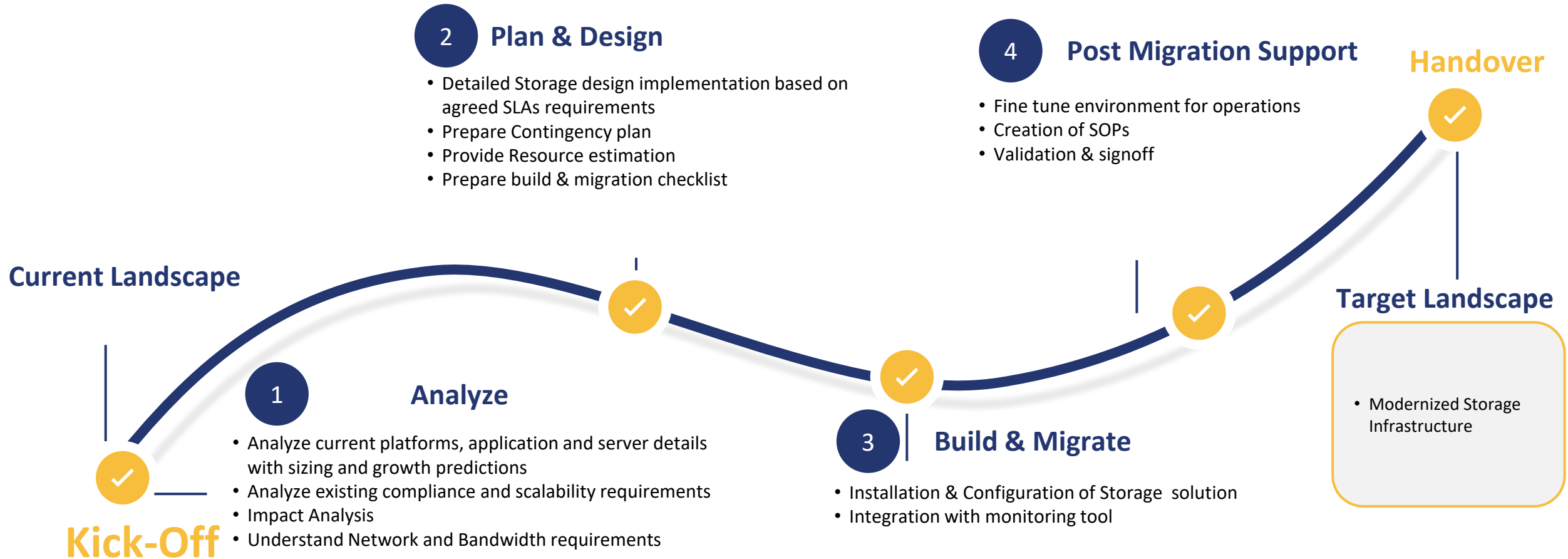


## Key Benefits

-  Improve Delivery Experience
-  Meet objectives and expectations
-  Meet Transformation timelines
-  Reduced Risk during Transformation Journey
-  Innovative Solutions and Offerings

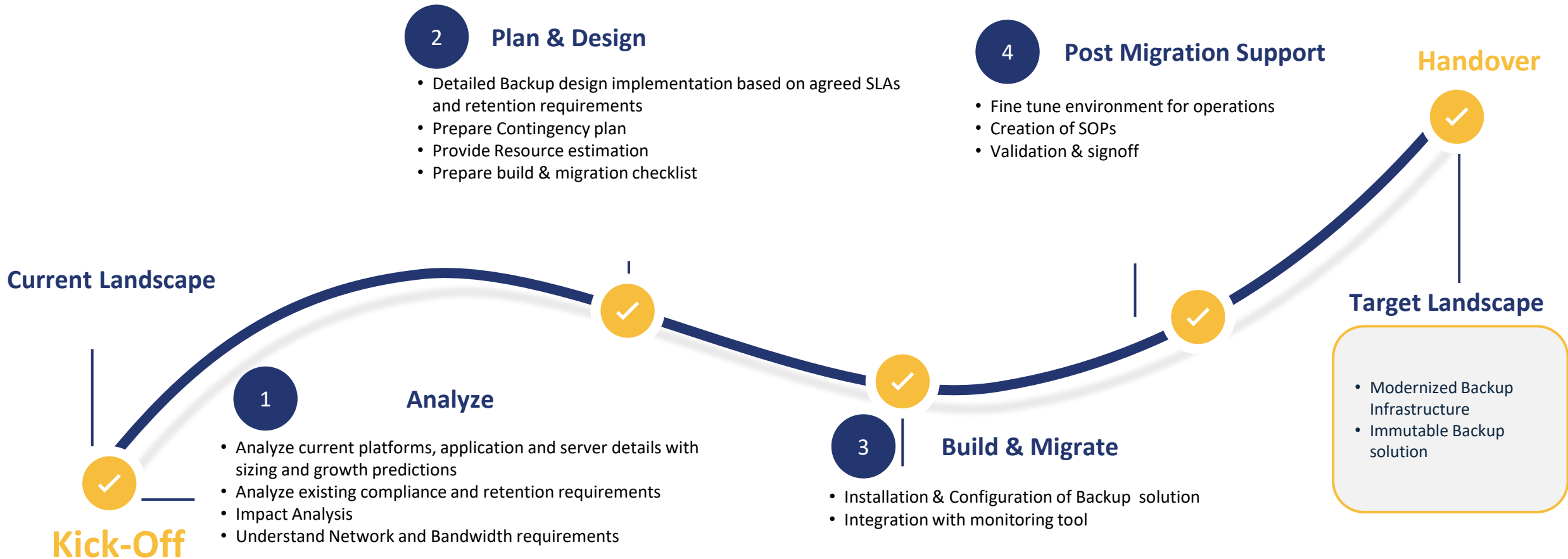
# Approach for Storage Implementation

LTIMindtree recommends a proven **four-step** process designed to modernize Storage infrastructure, examine risks associated with Storage implementation and run operations efficiently

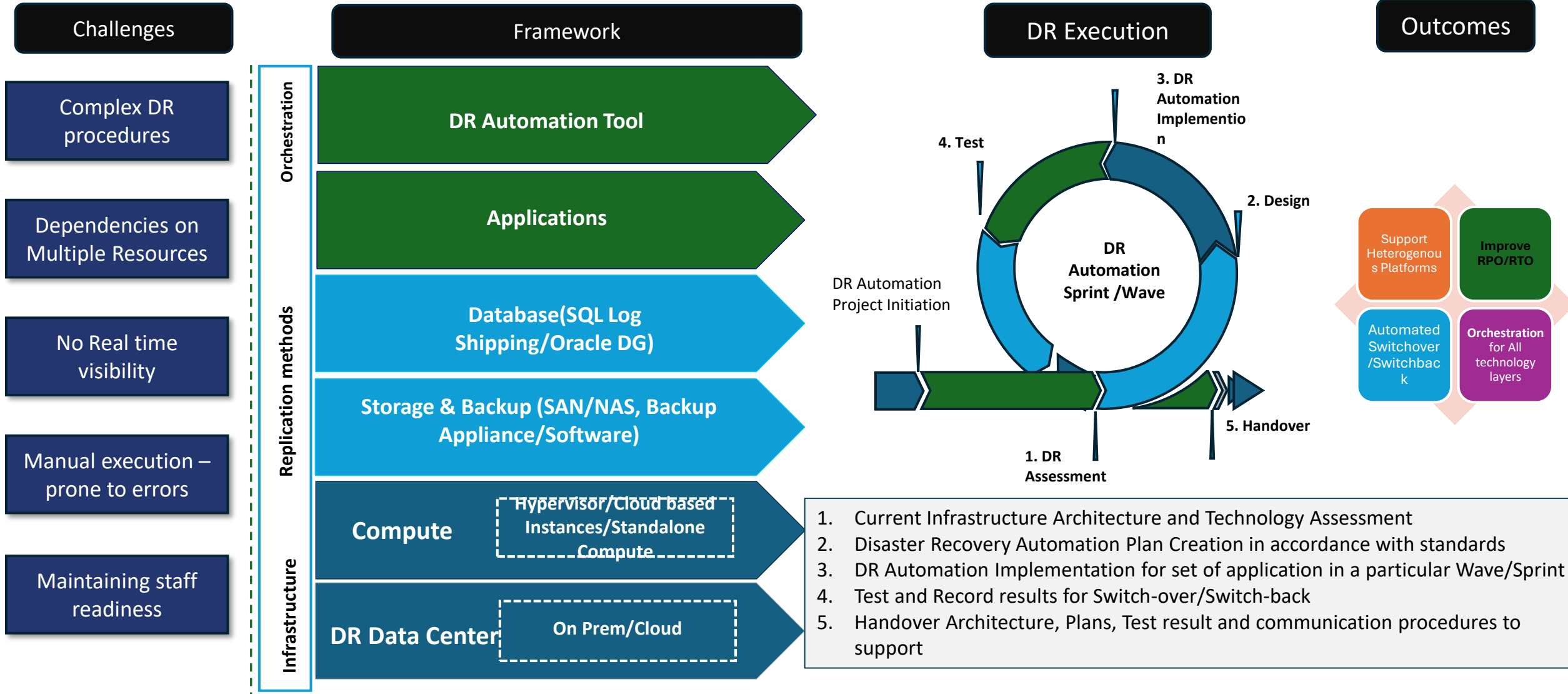


# LTIMindtree's Solution Approach for Backup Modernization

LTIMindtree recommends a proven **four-step** process designed to modernize Storage infrastructure, examine risks associated with Storage implementation and run operations efficiently



**DR Automation provides automated failover and failback in conjunction with all the critical tiers in the infrastructure contributing to the overall resilience. Along with Unified CXO Dashboard with real time seamless information that empowers the stakeholders/ executives**



## Consulting and Design Services

- Infrastructure assessment for Cloud adoption
- Technology refresh roadmap
- IaaS/PaaS enablement
- POC/reference architecture creation
- Infrastructure service analytics

## Transformation

- Hyperconverged infrastructure solutions
- Platform migration and simplification
- SDDC (Software-Defined Datacenter) implementation

## Operations

- Server & OS management
- Server provisioning, de-commissioning and upgrades
- Server patching and Security management
- HA/DR design, implementation, and support.
- Provision of hosting space, electricity, and network connectivity for client servers
- Smart hands and feet support for hardware break-fix and IMACDs at DCs and data rooms

## Portfolio Of Services Offered

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