

Application Modernization on to Azure







Legacy Systems Impedes the Acceleration to Digital Future



IT projects will create new digital services and revenue streams that monetize data



Of data warehouses are straining the limits of their capacity and performance levels



Data migration projects will exceed budget and/or result in some form of business disruption due to flawed execution by 2019



CxOs say technical debt in legacy systems limits their ability to migrate to new technologies or innovate



Organization's global transactions running on legacy applications



Expected spend to continuously modernize legacy application portfolio by 2025 as compared to 1X investment in innovation.





Source: Gartner, Accenture Research, InformationWeek **Redefining Possibilities** for **Tomorgow**

Key Benefits of Rationalization & Modernization



Optimized IT Landscape

Reduce redundancies in toolsets and business applications, remove low-value assets.



Automation





Sustainable Architecture

Modern architecture that provides modular, future-ready capabilities, and leverages cloud infrastructure.



Desired Capabilities

Identifies and introduces new desired capabilities which drive the business.



Security

Provides platform-based and standards-based security models.



Reduction in TCO

Reduces total cost of ownership of running the business, and frees budget to grow.





Key Tenets to Define a Future-ready Architecture

Modular, Service Based & Stateless	Open, Flexible, Future Proof	Multi-speed IT	3V Data Foundation
Extensibility to	Simple, Lightweight	Security & Data	DevOps, CI/CD
Ecosystem with API	& Standards based	Compression	Automation





Application Modernization Framework



Application Portfolio Discovery



The objective is to gather the Applications Inventory based on the Interview / Survey with Application team, Business and SMEs. Determine the category of grouping of application and assign each application to a category

Executive Sponsor



Discovery Phase Key activities

- Strategic Alignment
- Stakeholder identification
- Sponsor
 Communication
- Toolkit setup
- Rollout plan
- Project Governance





Workshops & Interviews







Data Sets from Tools



Outcome

- App modernization strategy
- IT budget considerations
- Cloud readiness
- APR decision parameters
- KPIs & Success Criteria





Business Criticality Analysis



Mindtree Mindtree



Mindtree's Transformation Strategy

		Retain			
Analysis Framework		Already on Cloud / SaaS apps			
Utilize analysis framework for Modernization – app complexity, sequencing and modernization recommendations					
	Application complexity	Scoring based on business criticality, tech, size, age, stability, compatibility, integrations & maintainability			
Initial study and assessment for modernization	Transformation roadmap sequencing	Business impact (Customer Facing, CORE - Priority) Application complexity Transformation strategy			
	Mode				
Mindtree	Mindtree				

3 Recommend Cloud Redeploy / Lift & Shift

- Compatible for lift and shift (ex: container ready)
- Relatively stable application

SaaS Enablement

- Availability of Cloud native services
- Availability of commercial SaaS products

Re-platform

- Adopt cloud services with minor configuration changes
- Give recommendation to tolerate / invest

Rewrite / Re-Architect

- Need for business transformation
- Custom apps, with a mix of multiple technologies
- Give recommendation to invest

Retire/Sunset

- Old applications, low business value
- Duplicate & unused features
- Give recommendation to retire

Reference Architecture for App Modernization





Reference Architecture (External Web App PaaS)



ilities for **Tomorrow**



Step by step **<u>re-platform</u>** journey





Step by step **re-architecture** journey









Technology coverage





Modernization Approach





Execution Methodology





Commercial Models that we support

Ticket/Unit Based Model

- The customer is charged on the number of work units delivered
- Commitment for a minimum number of work units per month by Customer
- Cost for each unit is calculated based on the effort, complexity and nature of work e.g. number of reports delivered, number of test cases executed etc.

Time & Material

- Resource allocation
- Customer owns resource
- Customer owns project delivery
- Customer owns deliverables
- Customer owns reporting
- People based pricing



FIXED PRICE

Fixed team

- Known and fixed scope of work
- Complete project ownership with Mindtree
- Milestone based payment

Fixed+ Variable/ Slab based



- Fixed fee for a fixed volume of services, with variations on fees for volumes above or below target thresholds.
- Viable for a range of volume
- Pricing mechanisms will define the top and bottom limit beyond which there will need to be a re-pricing negotiation.

Redefining Possibilities for Tomorrow

Outcome Based Model

- Set of outcomes at multiple levels are mutually agreed upon and signed off in consultation with the Customer
- Sample Measurable Outcomes based on predetermined goals e.g. ROI Realization in X Months; Reduce TCO by Y%
- Requires high degree of engagement maturity







Manage with Autonomous Service Management Capabilities





Your Anchor Partner for Cloud Transformation

Speed and agility through Mindtree accelerators for data analysis, premodernization and post-modernization

Accelerating enterprise legacy modernization & analytics with Insights Sandbox

'Intelligent Automated Refactoring' to achieve fully automated migration Automation led End-toend data testing with 'Test Early–Test Often' approach

Reimagining customer journey powered by digital studios



Modernizing the Legacy Core for Insights-led Digital Evolution

Reducing technical debt by retiring mainframe dependencies and moving to a scalable platform on cloud to ensure architecture flexibility

Transforming legacy data flow to enable applications to ingest data from disparate sources in real-time for new analytics capabilities

\$20M expected cost savings. Improve ROI by decommissioning mainframe. Increase earnings by improving yield with real-time decisions.



Re-architected a Multi-tenant Airline Reservations Platform

Current applications on legacy platform, being used by 150+ airlines. Weak architecture due to legacy platform and application design leading to high TCO

Re-architected the platform to be future ready with a multitenant based on SOA and using API Improved resilience and agility for the airlines. Ease of integration, onboarding of new airlines, onboarding time reduced from months to days



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So, Where do you	So, Where do you Start?			
Evaluate	Baseline		Recommend	Modernize
 Data collection Gap Analysis Customer SME discussions Re-assess application scoring and cloud fitment 	 Re-categorize applications Baseline application size Updated categorization, Fitment analysis and Modernization Strategy Estimation and pricing 		 Modernization and rationalization roadmap Cost benefit analysis Business case High level Program Plan & Implementation roadmap 	 Proof of Concepts, Prototypes Modernization factory Uplift, Migrate Replace Re-engineer, Transform Cloud migration factory



MAKE DIGITAL



