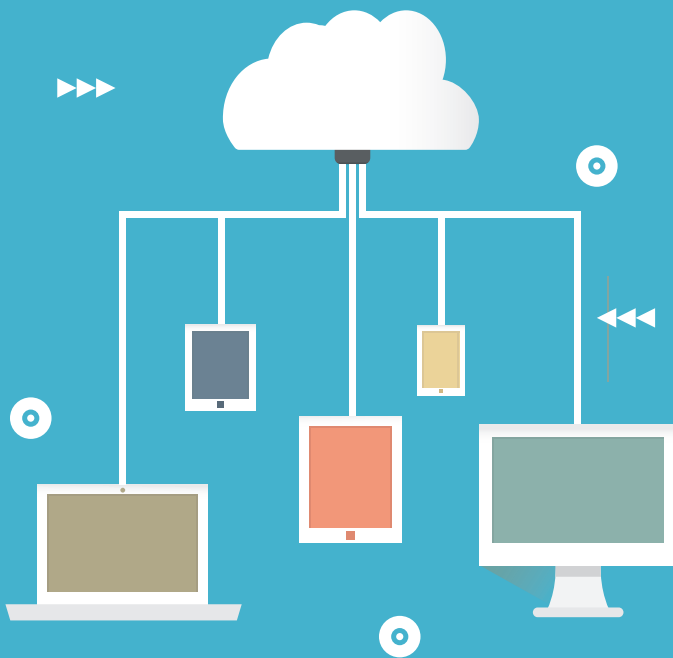**HCL**

LET'S TALK
APPLICATIONS

DIGITAL
SYSTEMS
INTEGRATION

EXPLORE, ACCELERATE,
TRANSFORM

GIVE YOUR APPLICATION PORTFOLIO
THE DIGITAL EDGE WITH AMDN

APPLICATION MODERNIZATION AND MIGRATION TO CLOUD

The need for Enterprises to transition, from on premise legacy based environments to a scalable and cost effective environment adopting Cloud computing resources has crossed the threshold from a point of debate to a mandate for remaining competitive.

Clearly, there is not enough space, energy or computing power to address the escalating needs of business from IT in order to retain business innovation, actionable insights and agility. To start the journey of upgradation and modernization, enterprises require a trusted partner who can not only advise & create a roadmap for modernization but also execute the strategy and deliver the promise of application modernization. The partner should be able to offer a wide range of IT services; Strategy and blueprinting, Application modernization, Modern Application development, flexible cloud Infrastructure options, and the ability to orchestrate applications across hybrid clouds, These will translate to reduced operational costs, increased standardization and agility, and reduced technology debt.

THE KEY CHALLENGES FOR CLOUD

The Visibility Challenge

We believe, based on our extensive experience, that this is the most important challenge faced by enterprises. There is a limited to zero visibility of IT assets, & with the presence of "shadow IT" in the organization complexities have multiplied.

The Value Challenge

Increased pressure on IT to show its business value and justifying benefits/ RoI on IT investments is taking it out of the traditional comfort zone. This is leading to a limited to no increase in IT expenses, leaving little space for experimentation with new technologies. Again, it becomes important that available efforts be concentrated and channelized to maximize benefits.

The Technology Challenge

This challenge is intrinsic to the nature and impact of cloud computing. This is not just the next level of technology evolution, it is a paradigm shift in the way IT thinks and operates. Cloud computing aims to fulfill the promise SOA made of moving IT from "applications" to "services". With cloud, "service" is a modus operandi and location and origin of service is no longer a material concern - assuming that the security and delivery models mature. Most IT departments and their leadership are yet to understand the extent of organization change management required to adopt cloud computing.
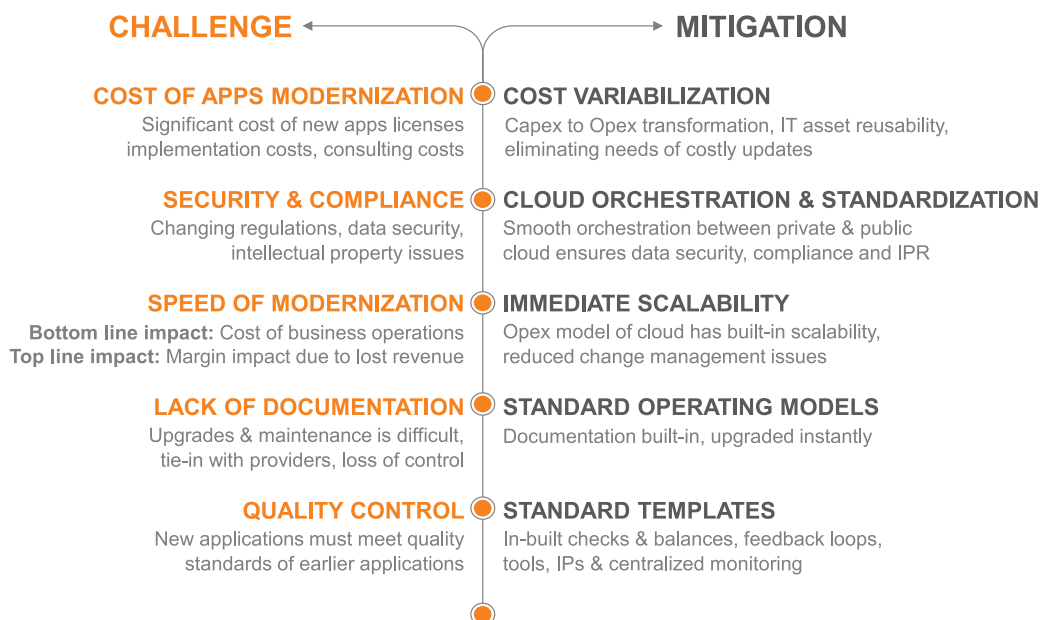
THE KEY CHALLENGES FOR APPLICATION MODERNIZATION

Most Organizations who would be even considering the value of moving to the cloud would inevitably come to the juncture of balancing the pros and cons of moving their legacy applications to the cloud.

Whilst the Legacy applications are the workhorses for their enterprises, being stable and tested for a long period of time, their ability to transform to a next generation IT landscape that needs to respond to ever changing business needs is hampered by the same complexities that made them so robust in the first place.

In addition, there are added concerns over business disruption, productivity impact & other transition costs to be incurred when the complex legacy applications need to be moved to cloud-based next generation platforms.

A quick view of the Application modernization challenges and the answers to the same provide a key to how an organization should prepare to benefit from taking a path to the Cloud via Modernizing and migrating their legacy IT portfolio.

CHALLENGE ← → MITIGATION

COST OF APPS MODERNIZATION
Significant cost of new apps licenses implementation costs, consulting costs

COST VARIABILIZATION
Capex to Opex transformation, IT asset reusability, eliminating needs of costly updates

SECURITY & COMPLIANCE
Changing regulations, data security, intellectual property issues

CLOUD ORCHESTRATION & STANDARDIZATION
Smooth orchestration between private & public cloud ensures data security, compliance and IPR

SPEED OF MODERNIZATION
Bottom line impact: Cost of business operations
Top line impact: Margin impact due to lost revenue

IMMEDIATE SCALABILITY
Opex model of cloud has built-in scalability, reduced change management issues

LACK OF DOCUMENTATION
Upgrades & maintenance is difficult, tie-in with providers, loss of control

STANDARD OPERATING MODELS
Documentation built-in, upgraded instantly

QUALITY CONTROL
New applications must meet quality standards of earlier applications

STANDARD TEMPLATES
In-built checks & balances, feedback loops, tools, IPs & centralized monitoring

BUSINESS DRIVERS FOR CLOUD COMPUTING

Key drivers for adoption of cloud computing are Cost Performance, Agility and Elasticity, and Ubiquity and Utility:

➔ **Cost Performance:** Cloud promises a dynamic shift in the way business of IT is conducted in organizations by changing the underlying cost model of the asset base. Companies no longer have to incur huge budgets for capital expenditure required for smaller initiatives. You can start small and grow, and your IT expenditure is more in line with what you use proportionate to business growth

➔ **Agility and Elasticity:** By being able to scale up as well as down as per business requirements, it allows for faster application development, specially using platforms such as force.com, leading to faster innovation cycles and reduced time-to-market

➔ **Ubiquity and Utility:** Cloud is everywhere and access to cloud is available from all devices - from small handhelds to data centers to embedded systems. This omnipresence coupled with service based and subscription based models for applications and services allows for next generation of services to emerge
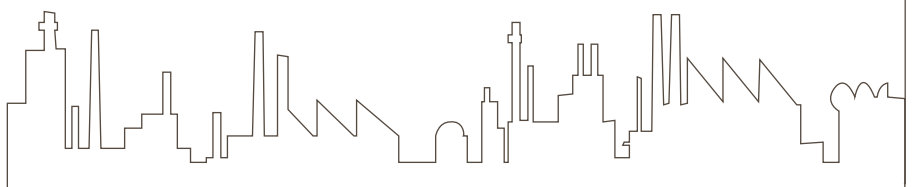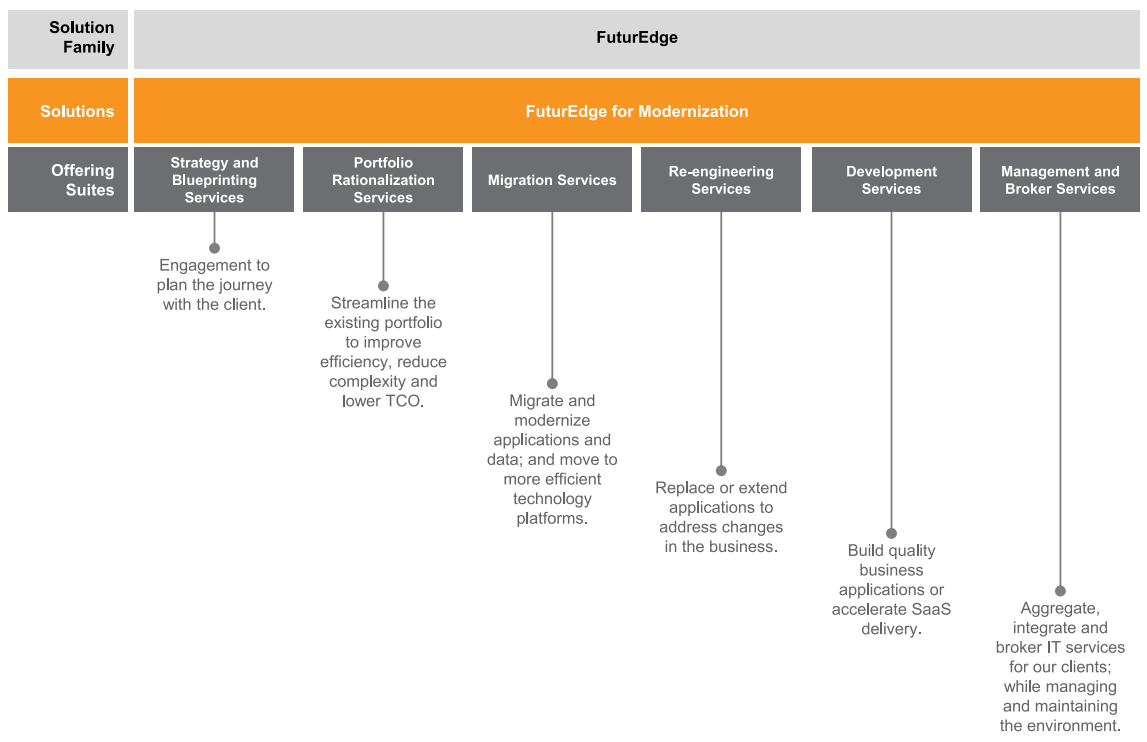
OUR PROPOSITION

'HCL offers an End to End service value proposition to help our customers modernize their application portfolio and accelerate cloud adoption across the enterprise'.

The package of services developed by HCL enable IT leaders to develop a coherent and comprehensive roadmap to migrate & transition their application portfolio and IT organization to the cloud.

A comprehensive, modular services suite that helps any organization re-shape their ageing application portfolios. Covering the full life-cycle, the services scope include analyzing, aligning, modernizing, managing and continuously improving the customer's systems environment regardless of size, industry or location. These services can be used end-to-end or focused on a single application, platform assessment or transformation project.

The services are designed to aid customers improve agility and transform operations with less risk — and then maintain the application portfolios at a lower cost.

Understanding that this is an iterative process, HCL helps the customer rediscover the business value that's locked in spaghetti systems architecture. Organizations can become cloud-ready gradually, at an adaptive pace and introduce new technologies faster with services that combine Industry experience, integrated processes and automation tools, which have been proven across a broad range of applications, technologies and environments with several successful projects worldwide.

Solution Family	FuturEdge					
Solutions	**FuturEdge for Modernization**					
Offering Suites	Strategy and Blueprinting Services	Portfolio Rationalization Services	Migration Services	Re-engineering Services	Development Services	Management and Broker Services
	Engagement to plan the journey with the client.	Streamline the existing portfolio to improve efficiency, reduce complexity and lower TCO.	Migrate and modernize applications and data; and move to more efficient technology platforms.	Replace or extend applications to address changes in the business.	Build quality business applications or accelerate SaaS delivery.	Aggregate, integrate and broker IT services for our clients; while managing and maintaining the environment.

APPLICATION MODERNIZATION FRAMEWORK

A three-phased approach is taken to Shape, Transform and Manage the entire application portfolio's modernization and migration to Cloud.

Shape

This is the Application portfolio planning phase. It aligns IT to business strategy, delivers a broad, current-state assessment with focused deep dives, quantifies the business value of optimization, and defines the modernization architecture and roadmap to be used in the Transform phase.

➔ Identifies which applications and business processes would benefit from running in the cloud

➔ Determines the appropriate transformation treatment for each application

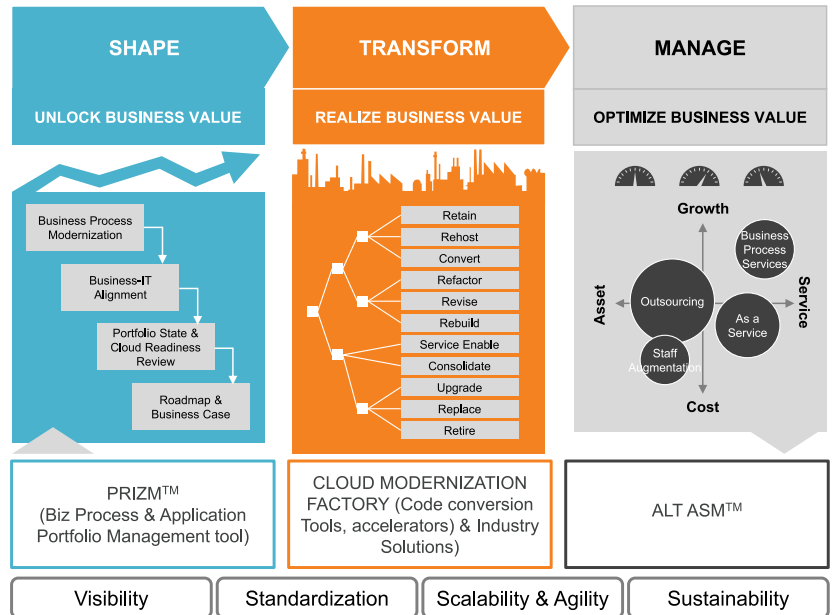➔ Creates the detailed application and data transformation plan

Figure: Our Approach

Transform

Offers the preparation necessary to transform the application, then executes the appropriate modernization treatment on the application, and finally tests and releases the newly optimized application into the Manage phase.

➔ Applies the appropriate treatments to transform and modernize the client's applications

➔ Utilizes unique automation and methodology IP for greater speed, reduced cost, and higher quality of transformation

Manage

It provides ongoing application portfolio planning and governance to maintain business-IT alignment and application optimization now and over time.

➔ Optionally provides the scalable IaaS or PaaS environment for the transformed application

➔ Optionally delivers application maintenance, support, and enhancements for the applications running in the cloud

Managed, modular, continuous-improvement life cycle to foster and maintain business and IT alignment now and in the future. Our services are available end-to-end or individually, as your business needs require.

CLOUD CONSULTING FRAMEWORK

HCL's cloud consulting services help customers evaluate cloud as part of their overall IT service delivery strategy, and recommend a systematic adoption roadmap for cloud computing. The recommended roadmap contains the right set of applications that should be moved into cloud environments in a phased manner, target operating model for to-be scenario, right set of IT governance processes that should be adopted or modified for sustainable operations, coupled with a detailed migration plan for target cloud environments. Key consulting services offered are Cloud Readiness Assessment and Cloud Migration Assessments.

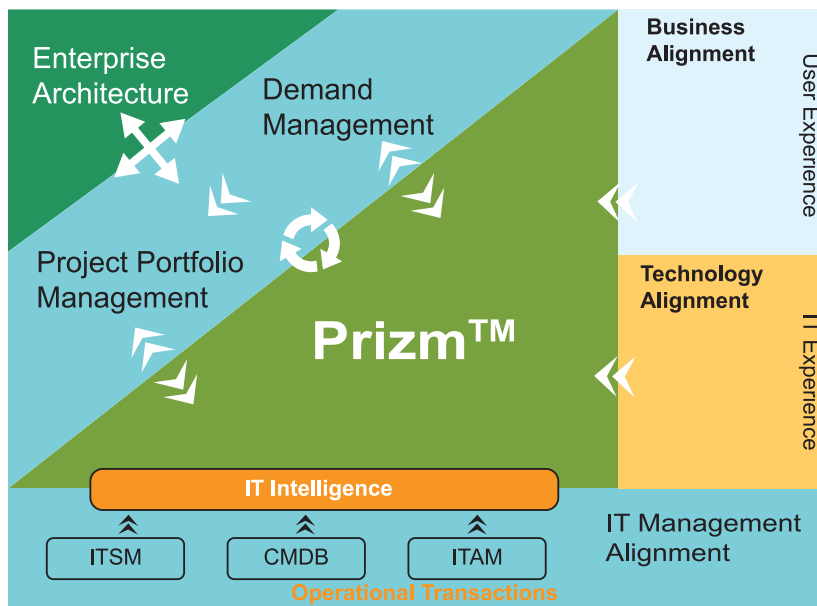| Cloud Readiness Assessment	Cloud Migration Assessments
HCL's Cloud Readiness Assessment service helps large enterprises and ISVs to adopt cloud as a strategic element in their organization, systematically and profitably. Key elements of the assessment include: ➜ Infrastructure Readiness ➜ Application Readiness ➜ Process Readiness ➜ Governance Readiness ➜ Organization Readiness	HCL's Cloud Migration Assessment service deep dives into chosen application or process scenarios and creates a roadmap for achieving chosen target state. Key elements of the migration assessment include: ➜ Technology Assessment ➜ Build vs. Buy Analysis ➜ SaaS Option Evaluation ➜ Cost Benefit Analysis ➜ Implementation Roadmap Planning

HCL PRIZM™

HCL understands that the presence of multiple legacy systems and heavy dependency on rare skills are some of the major hurdles in the journey to portfolio transformation. In order to overcome such hurdles and make IT as an efficient asset for growth.

Prizm™ is a highly rated and one of its kind tool for business aligned Application portfolio management and enabling Cloud adoption through metrics like APS, CRI.

Prizm™ helps in assessing various IT Assets like applications, infrastructure, databases etc. with respect to their utilization, support to business, technical complexity, Total cost of ownership (TCO), fitness/ suitability for business purpose etc. and finally identifies improvement opportunities on the IT assets.

Prizm™ works as an enabler for the following:

➔ Improve IT Visibility to areas of consolidation and optimization in application portfolio

➔ In-built financial modeling capabilities in to facilitate TCO and ROI analysis of each asset in the portfolio for making informed portfolio optimization decisions

➔ Align IT to manage growing and changing business needs on a sustainable basis

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APPLICATION SUPPORT & MAINTENANCE — BIG DATA & BUSINESS ANALYTICS — BUSINESS ASSURANCE & TESTING — CLOUD, DIGITAL EXPERIENCE & MOBILITY — COLLABORATION, CONTENT & SOCIAL — CUSTOMER RELATIONSHIP MANAGEMENT — DIGITAL SYSTEMS INTEGRATION — E-COMMERCE & OMNI-CHANNEL — ENTERPRISE RESOURCE PLANNING — HUMAN CAPITAL MANAGEMENT — MODERN APPLICATION DEVELOPMENT — PLATFORMS & INTEGRATION

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