

Migrate or Modernize?

How to realize maximum benefits from the cloud

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What To Expect

- Understand typical transformation journeys, common strategies and technical options
- Hear how you can prioritize your portfolio and build a cloud roadmap that maximizes value, understand common challenges and solutions
- Learn how you can get started today

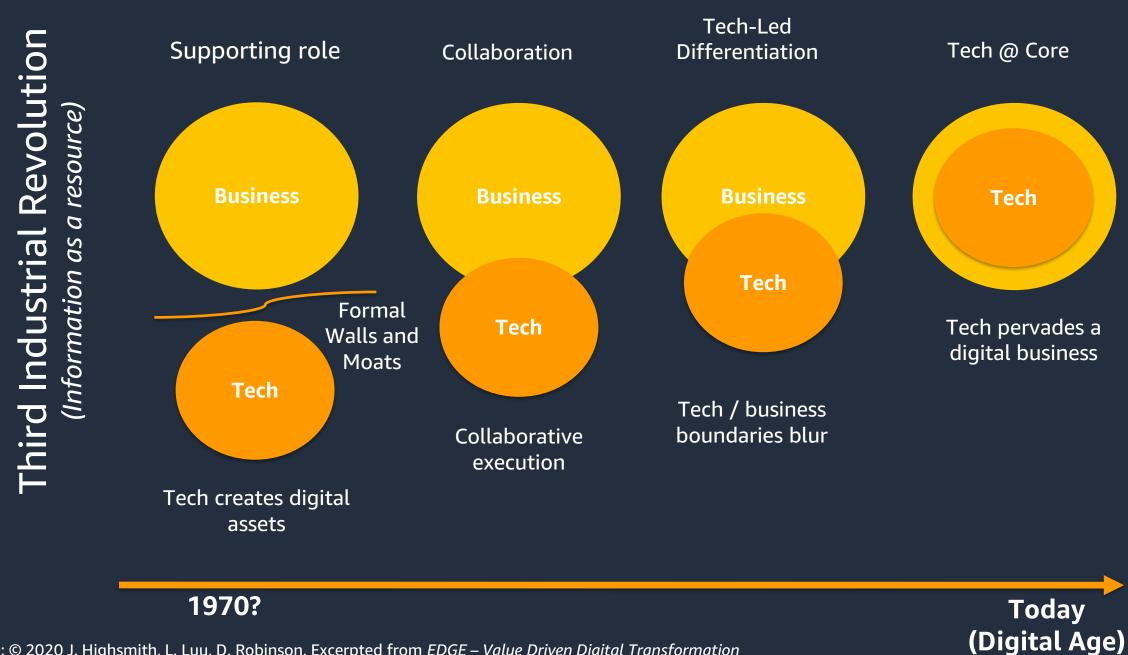
Digital Transformation is real

"What's dangerous is not to evolve."

- Jeff Bezos

Technology Systems are the foundation and backbone of the business today. Evolving the business means evolving the underlying technology systems.

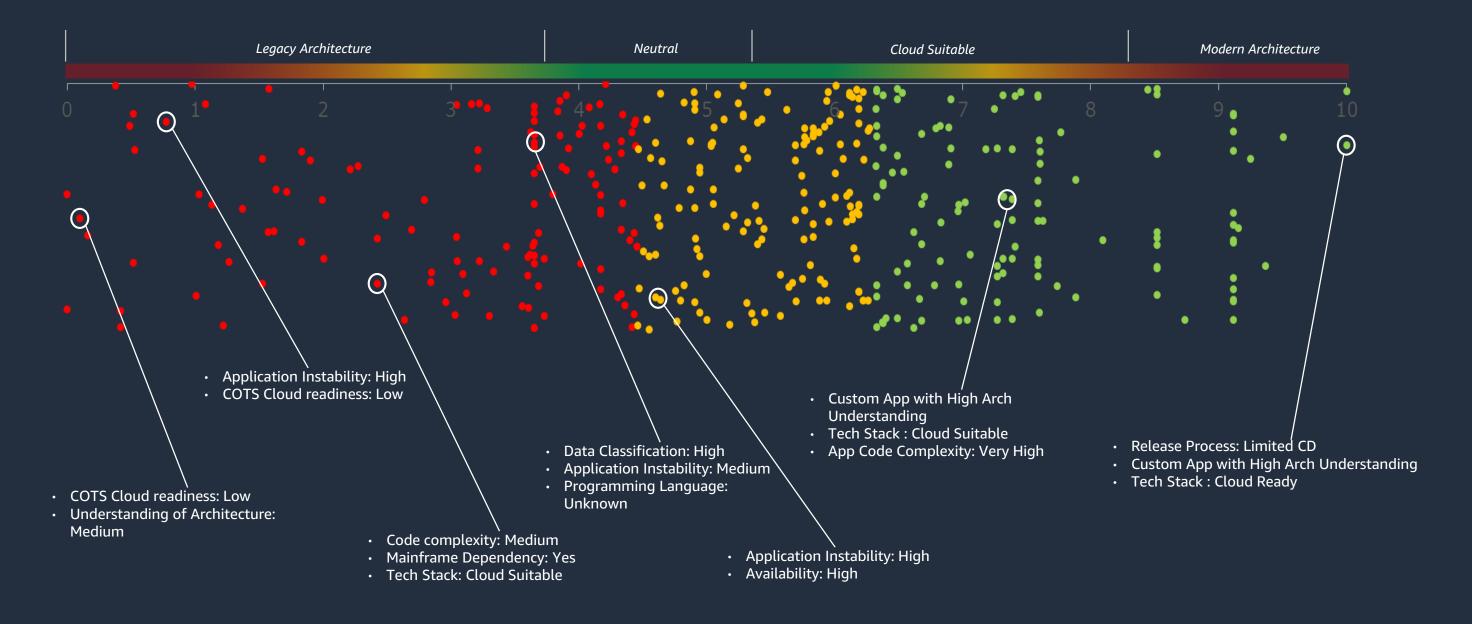
Tech is the Strategic Differentiator



Revolution

How do we transform the tech?

Typical IT Portfolio



Common Challenges



Migrate



Modernize

Migrate



Modernize

Some Definitions

latform Remediation

Application Modernization

Application Remediation

Infrastructure Migration

Business Capability Modernization

Transformation

Remediation



Some Definitions

Migration

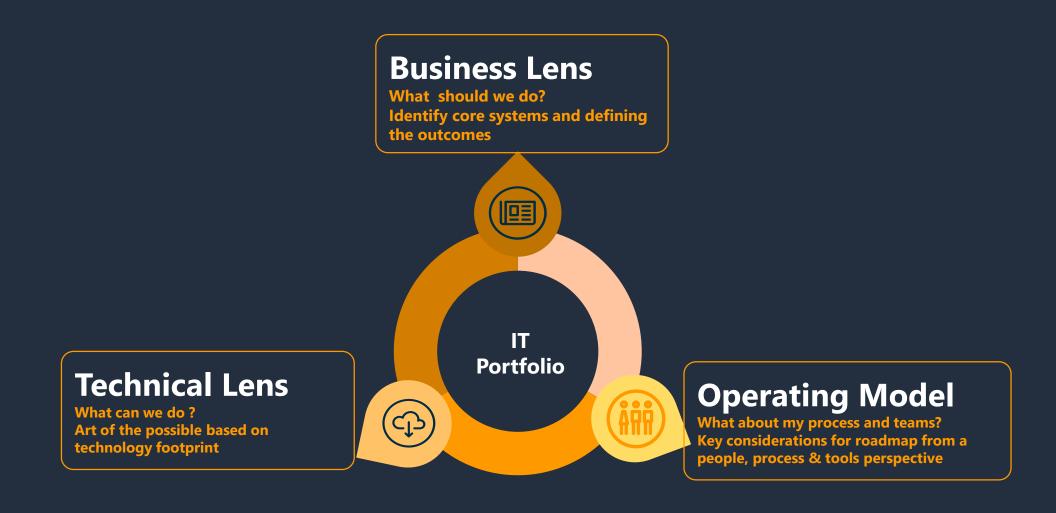
- ✓ Replicate current system
- ✓ No intentional changes to functionality
- ✓ Benefits driven by new platform capabilities
- ✓ Fastest way to start realizing benefits

Modernization

- ✓ Redesign/re-architect current system
- ✓ Intentional enhancement to the capability
- ✓ Benefits are driven by the new capabilities of system & platform
- ✓ Benefits are long term and multidimensional

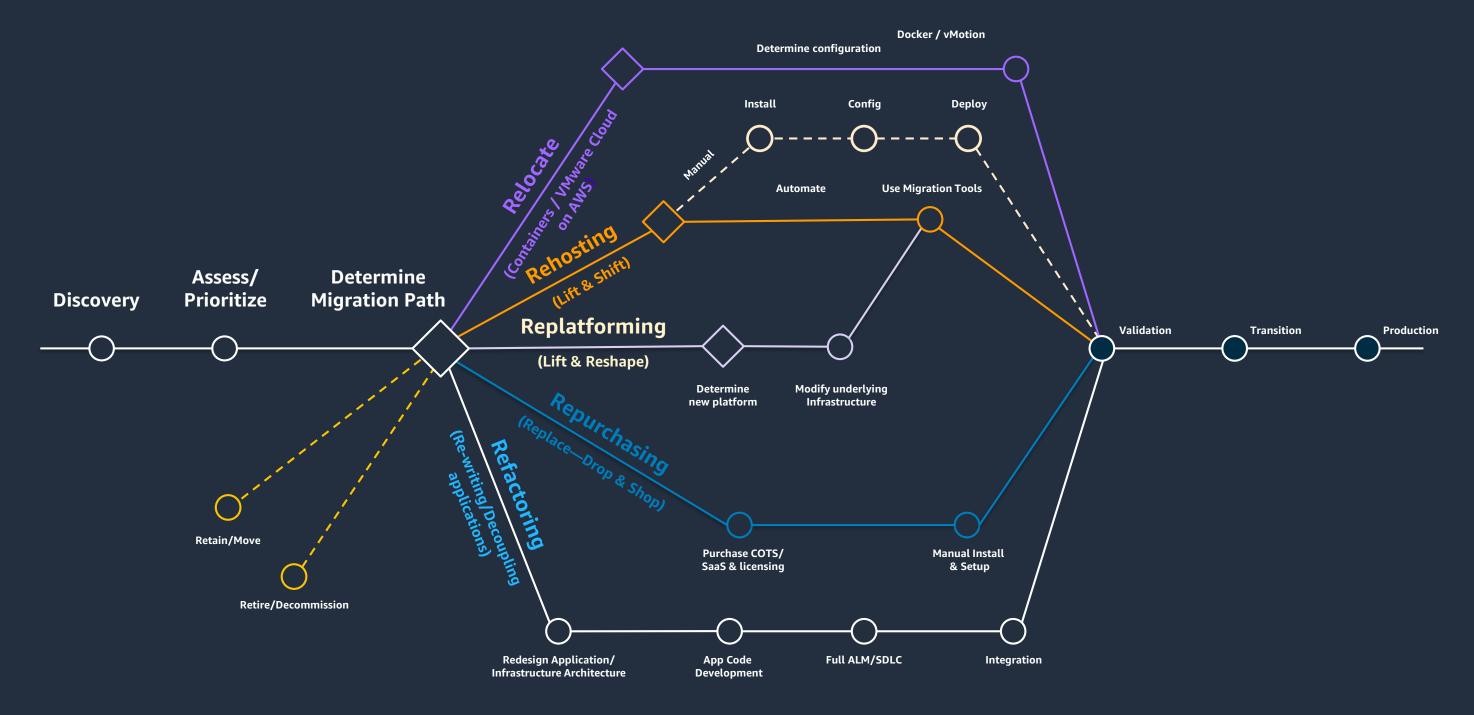
So, how do we get started?





Technical Lens Strategies & Patterns

7 R's



7 R's

Re-architecting the applications is the most rewarding option, resulting in cost savings, higher productivity, and higher business agility



Value to business

^{*}According to Gartner and NTT Data

Definitions

Applications & Business
Systems

Data

Application & Data
Platforms

Database

Operating System,
Networks & Configurations

Virtualization

Data Center

Migrate

Applications & Business Applications & Business Applications & Business **Applications & Business Systems** Systems **Systems Systems** Data Data Data Data **Application & Data Application & Data Application & Data Application & Data Platforms Platforms Platforms** Platforms Database Database Database Database Operating System, Operating System, Operating System, Operating System, **Networks & Configurations Networks & Configurations** Networks & Configurations **Networks & Configurations** Virtualization Virtualization Virtualization Virtualization **AWS AWS AWS AWS**

Relocate

Rehost

Re-platform

Modernize

Refactor

For some, migrating from aging hardware or datacenter is itself considered infrastructure modernization

Fastest way to the cloud with minimal effort and changes in operations

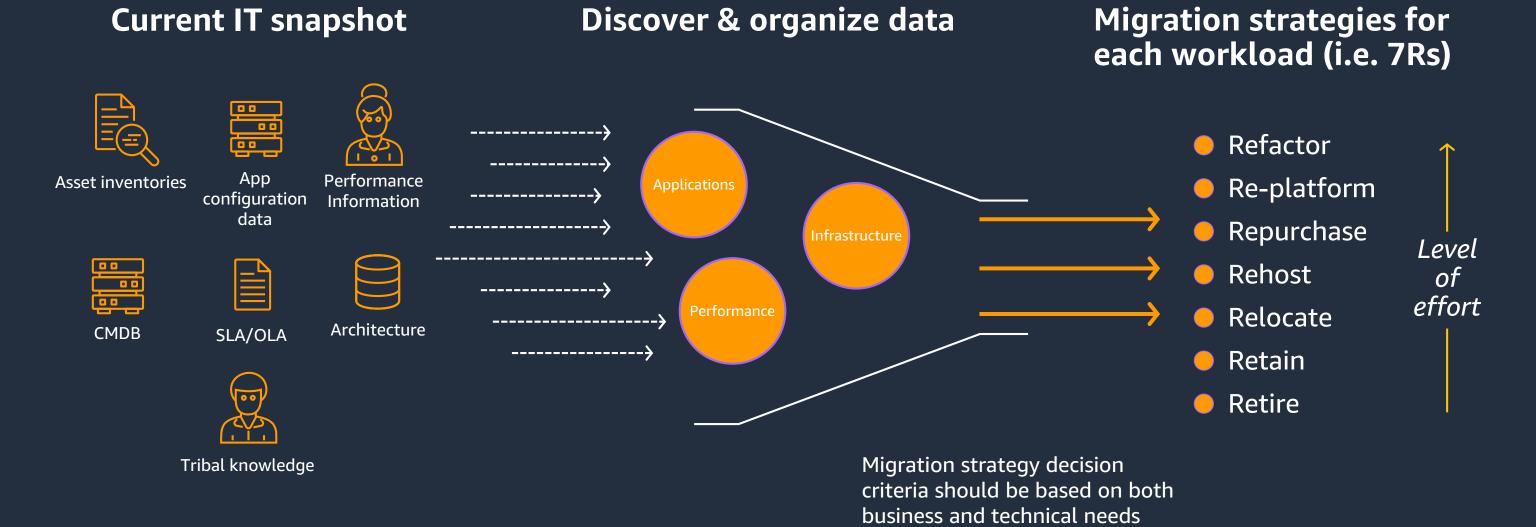
Migrate

Modernize

For some, moving to a modern OS or modern Database/Application Platform is considered platform modernization

For some, full stack micro services and serverless is modernization

Technical Readiness



NEW - Modernize with containers



- Provide a standard way to package your application's code, configurations, and dependencies into a single object
- Share an operating system installed on the server and run as resource-isolated processes, ensuring quick, reliable, and consistent deployments, regardless of environment

Business Lens Building a roadmap to maximize value

Making the call



Top Down View (What should you do?)

- Core Applications
- Mission Critical Business Systems
- Business growth & directions

Bottom Up View (What can you do?)

- Current State Details
- Architecture & Technical Details
- Technical Debt

Making the call for first movers

Business Importance

- Differentiators
- Business Risk

❖ Table Stakes

Alignment

Commodity

Compliance

Value Assessment

Agility

Cost Savings/Avoidance

Resilience

Performance

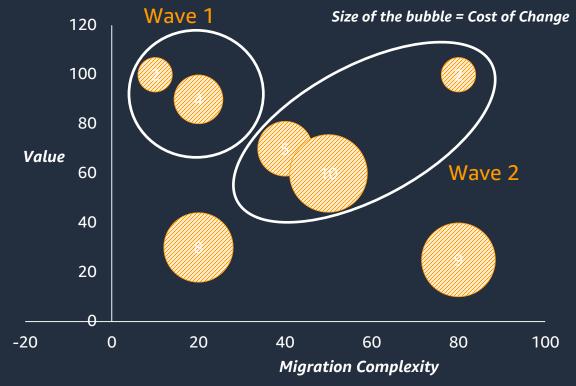
Productivity

Risk Mitigation

Build/Migration Complexity

- Migration Treatment
- Estimated Migration Effort
- Migration Complexity Business Tech
- Estimated Cost of Run (Platform)

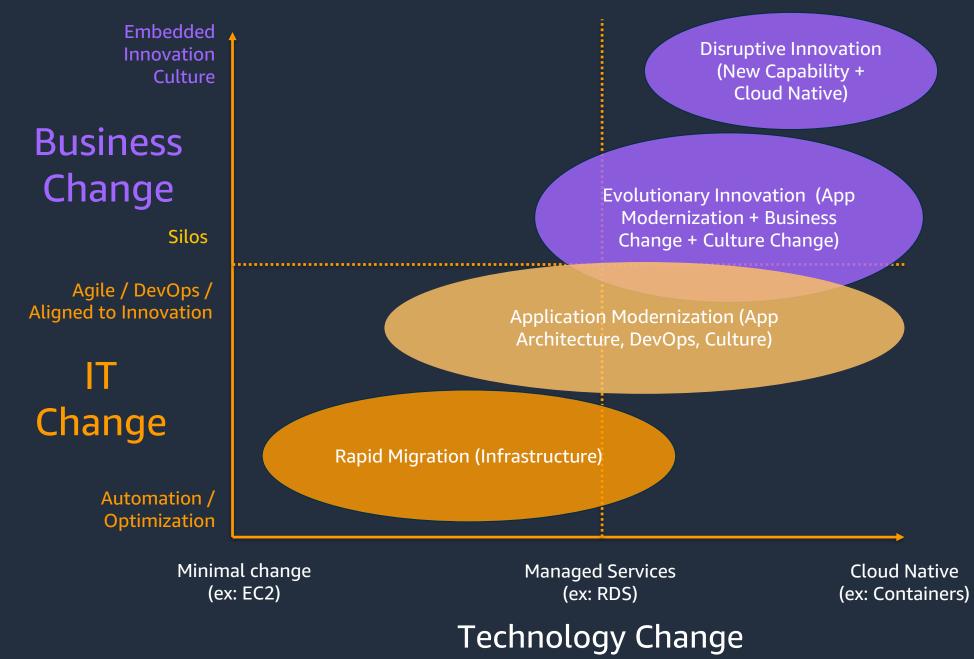
Value Vs Complexity Vs Cost of Change





Prioritized Plans

Build your cloud roadmap



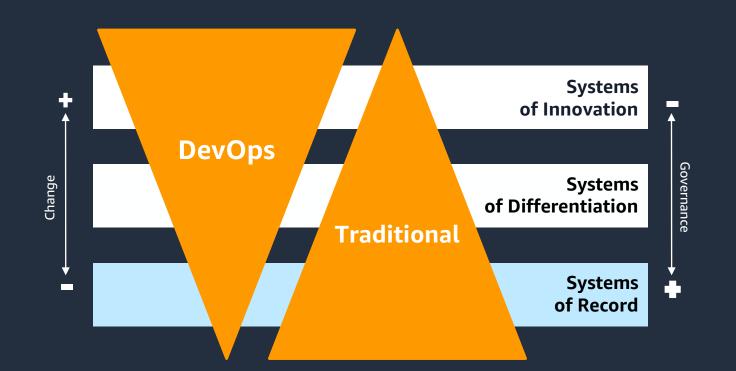
Value Proposition

- Net new Innovation
- New Revenue Streams
- New Markets
- New capabilities
- Innovate
- Unleash Data
- Break down silos
- New Capabilities
- Cost Reduction
- Resiliency
- Scalability
- Agility
- Platform for Innovation
- Reduce Tech Debt
- Cost Reduction
- Global Reach
- Scalability
- Resiliency
- Security

Operating Model Lens People & Process



Operating model



Multiple operating models
(Old + Cloud)
Vs
Unified cloud ops?

Multiple models can be an obstacle for your cloud journey Choose your operating model to align & help with transformation journey and not against it

Operational Consistency



IT Operating model – people, process and tools can be a driving factor in determining the transformation velocity and where does the organization spends the energy

Best practices

Inclusive Strategy

Uni-direction approach does not always yield multi-dimensional impact

- ✓ Multi dimensional tech inputs
- ✓ Deploy parallel pathways

Vertical Slicing

Don't cut the cake horizontally

- ✓ Frequent delivery of usable chunks
- ✓ Lower risks

Not just Tech, Process & People

Migrating an App could be modernizing your Ops

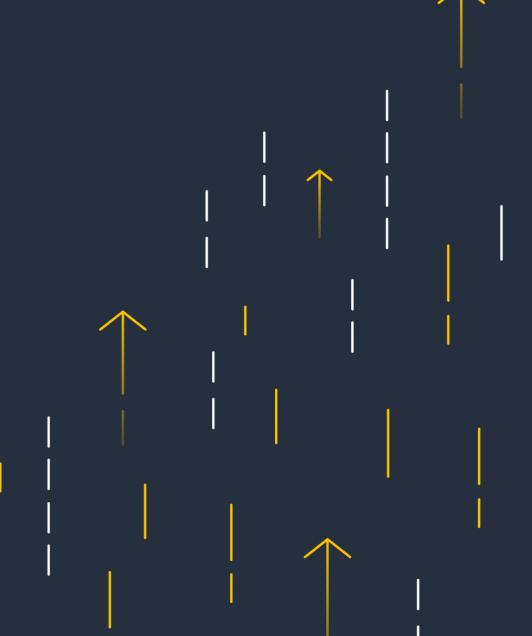
- ✓ Accelerate modernization
- ✓ Easy to scale

Takeaways

- Be selective on which apps to transform; focus on differentiators
- Migrating is beneficial not just for the application technology, but also in moving the overall organizational operating model to the target state
- Embrace multiple pathways to the cloud in parallel
- Migrate & then modernize is almost always faster; Modernize using containers is an option that is potentially best of both worlds



Thank You!



Appendix

Re-host

Best way to the cloud is taking the first step

- Rehost technology & tools today cover a broad spectrum of OS's and versions making it very easy to take that first step
- Re-platform can be done at varying degrees
 - OS change: Simple version upgrade or moving to open source
 - Database change: Version upgrade or schema change or moving to open source
 - Platform change: Moving to opensource application and data platforms
 - Leverage automated tools to execute on all the above options

Applications & Business Systems

Data

Application & Data Platforms

Database

Operating System, Networks & Configurations

Virtualization

AWS

Re-platform



Customer benefits

- ✓ Lower direct costs
- ✓ Reduce operational overhead
- ✓ Increase resource utilization rates
- ✓ Increase security
- ✓ Increase flexibility

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Re-factor



Customer benefits

- ✓ Lower risk that the whole application breaks
- ✓ Best-in-class AWS security, without the need for configuration
- Reduce total costs with serverless
- ✓ Decouple the organization to innovate faster

Re-build



Customer benefits

- ✓ Reduce time to market with rapid iteration and experimentation
- ✓ Increase productivity and agility
- ✓ Focus on logic and not infrastructure Increase security

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Application & Data Platforms

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AWS