INSTEAD OF RISKING ANYTHING NEW, LET'S PLAY IT SAFE BY CONTINUING OUR SLOW DECLINE INTO OBSOLESCENCE.

TOM FISH BURNE

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It's not just you!

A US Government Accounting Office (GAO) report has highlighted the parlous state of Uncle Sam's IT infrastructure:

The computer used to coordinate America's nuclear forces is an IBM Series/1 that uses eight-inch floppy disks capable of storing about 80KB of data each.

Meanwhile, the Treasury Department is calculating tax returns on a 56-year-old IBM mainframe using programs written in assembly code; it says it has no plans to update its systems.

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Head for the Cloud(s)

Azure

aws

Google Cloud

Any Modernisation strategy should include ensuring your Applications are 'Cloud-Ready'.

WHY? - Instead of paying fixed internal costs for Hardware, Infrastructure, Storage, Dev/Test resources and Production use, you can literally pay for the human and compute resource that you use, as you use it - right through the Dev lifecycle and then in Production.

Your whole Enterprise will benefit from this, as there will be much better Hardware and Infrastructure utilisation as a result. This has to be factored into your business case, even if budgets are in separate 'pots'.

But don't get locked in! They will try to sell you add ons that only work in their Cloud.
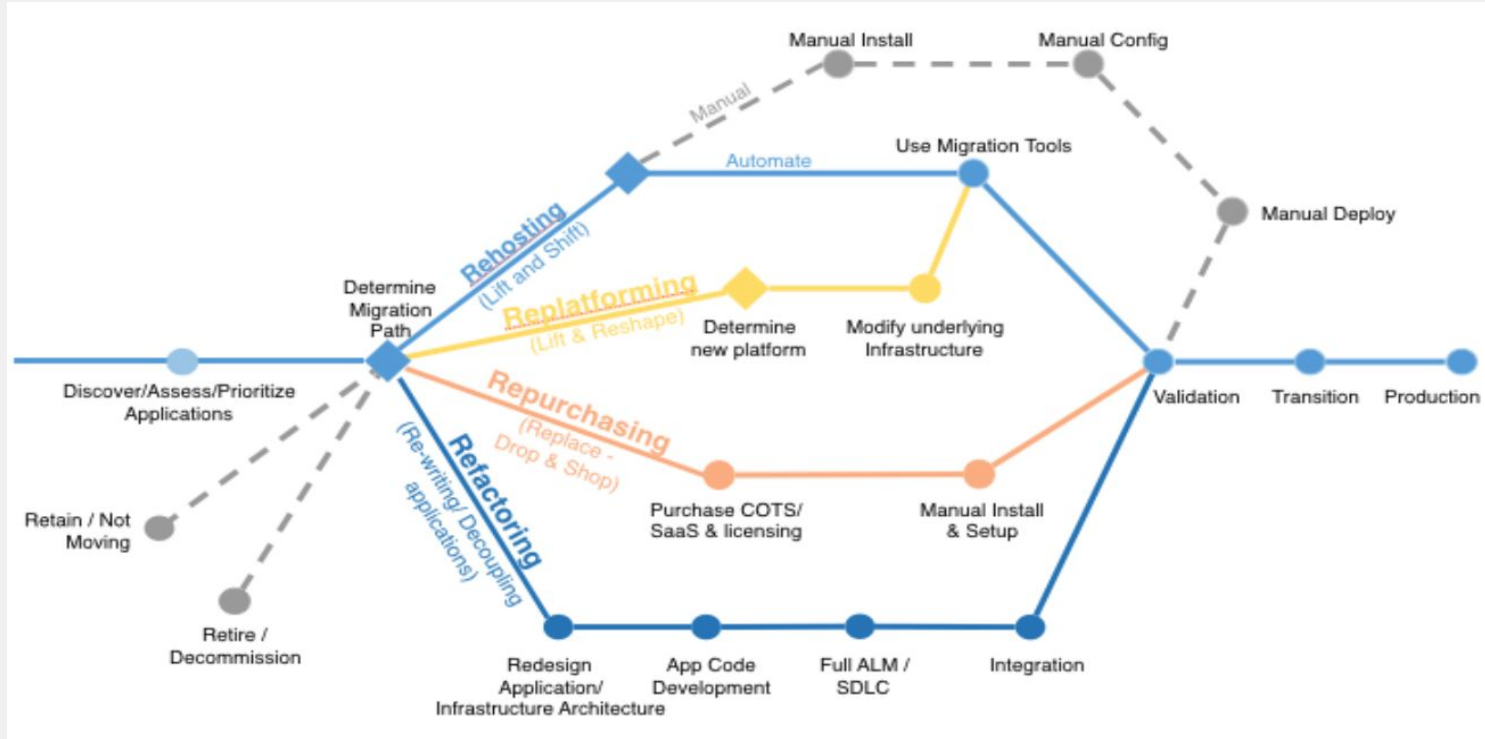
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The 6 'R's

Stephen Orban from Amazon Web Services has published "six Rs" for Application Modernisation that, although focused on getting your data into its cloud, remain useful:

1. Rehosting—Otherwise known as "lift-and-shift."
2. Replatforming—Sometimes called "lift-tinker-and-shift."
3. Repurchasing—Moving to a different product.
4. Refactoring / Re-architecting—Re-imagining how the application is architected and developed, typically using cloud-native features.
5. Retire—Get rid of.
6. Retain—Usually this means "revisit" or do nothing (for now).

   The business case could well be different for each example

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The 6 'R's

The GSI's have a view too...
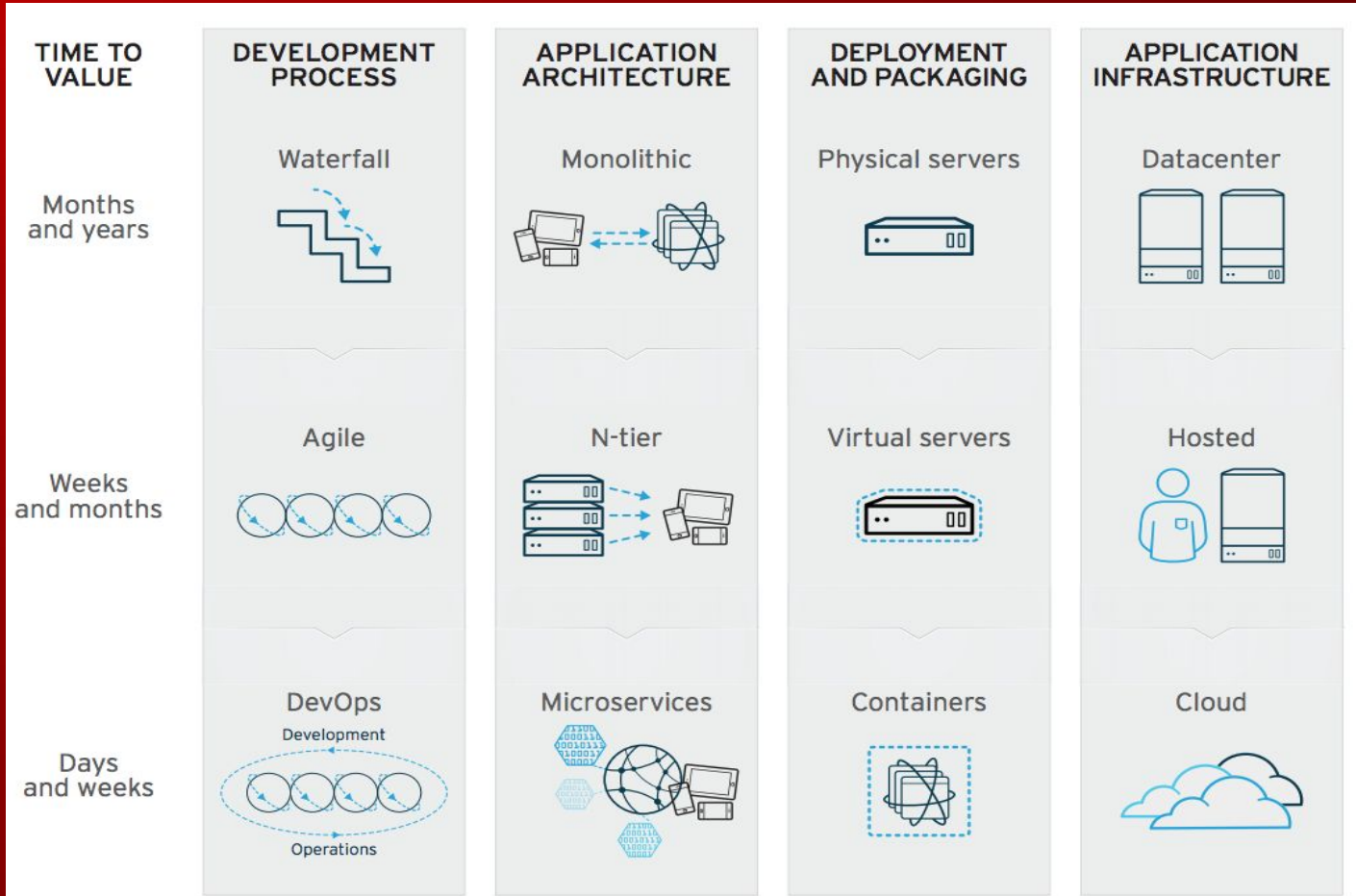
Deloitte.

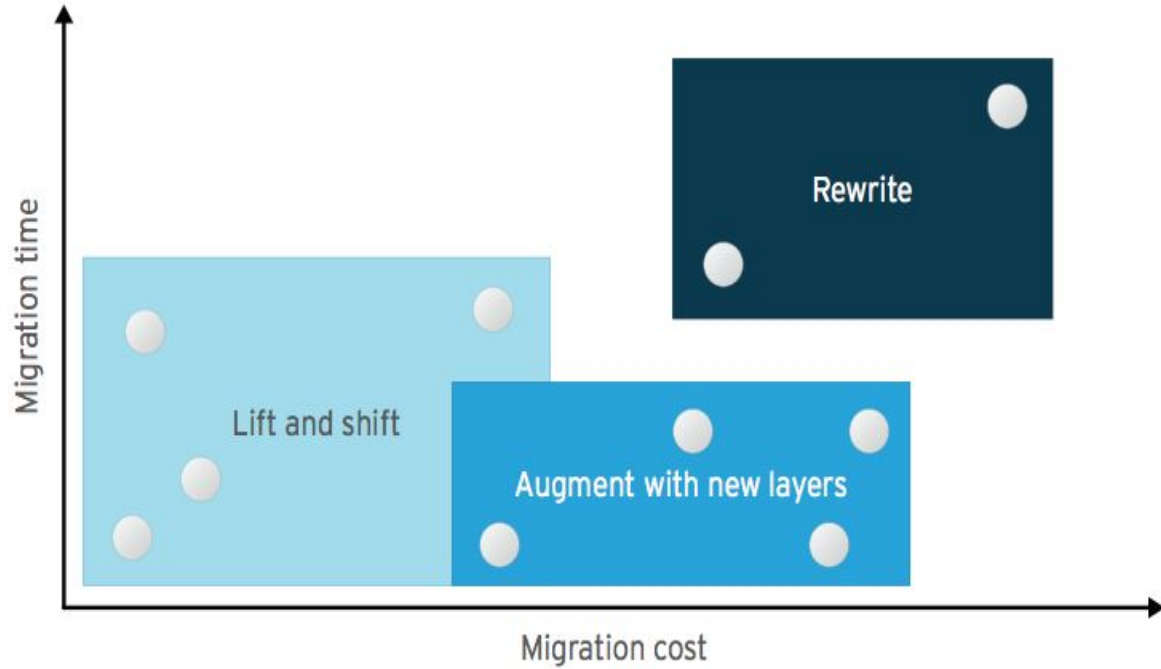Tech Beacon Article written by:

<u>David Linthicum</u>
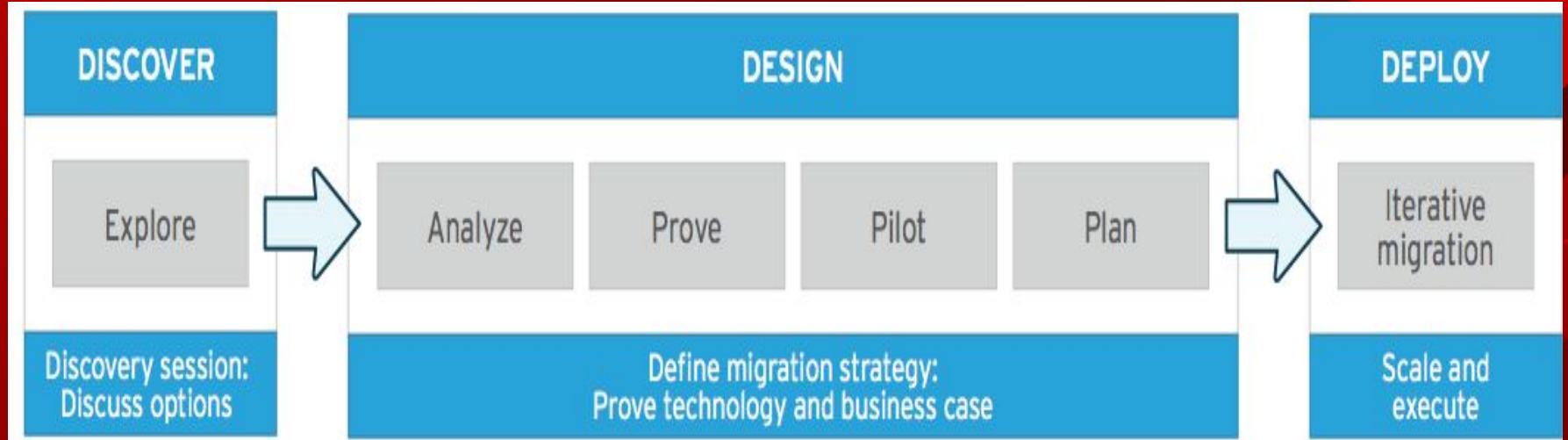Chief Cloud Strategy Officer
Deloitte Consulting

"Are you the poor bastard who gets to move legacy applications to the cloud or other modern platforms? The path to modernizing legacy applications is paved with containers and microservices, as well as new tooling and development processes. The trick to get through this process is to make the right choices about how to refactor your applications to take advantage of the best approaches and technologies."

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TIME TO VALUE	DEVELOPMENT PROCESS	APPLICATION ARCHITECTURE	DEPLOYMENT AND PACKAGING	APPLICATION INFRASTRUCTURE
Months and years	Waterfall	Monolithic	Physical servers	Datacenter
Weeks and months	Agile	N-tier	Virtual servers	Hosted
Days and weeks	DevOps — Development / Operations	Microservices	Containers	Cloud

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Red Hat Application Modernisation Methodology - Professional Services plus Tooling

Choose your Partners

Cloud Partners
Best Execution Venue

GSI's and boutique Partners

Key elements of a typical business case

Costs

What does it cost to run your application now?

      Development and Running costs / costs of changes

      Enterprise licence costs

      Hardware and Infrastructure costs

      Storage Costs

Costs of migration

Risk mitigation

Expensive developer resources - legacy technology

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Key elements of a typical business case

Savings / Benefits

Hardware and infrastructure cost savings

Storage Costs: [Cloudorado web site](#)

Application Maintenance savings

Enterprise software license savings

Increased Developer Productivity and widely available resource

Increased end user Productivity

Rapid time to market

Application Modernisation at XXXX Bank - Programme overview

2-3 Year Programme, with multiple Work Streams and Exec Sponsorship on both sides

Migrated applications are Container and OpenShift-Ready - aids Digital Transformation and Hybrid Cloud Strategy

Red Hat Subscriptions replacing expensive Oracle, IBM and Tibco Licence and Support

Red Hat OpenShift facilitating Hybrid Cloud and 'Best Execution Venue'

Red Hat PS working with GSI's like DXC, HCL for a 'Factory' approach, plus boutique firms with domain expertise, such as DevoTeam

Application Modernisation at XXXX Bank - Workstream overview

Current spend on xxx annual support is xx cores: **€2,000,000** per annum

Proposed JBoss EAP subscription for xx cores: **€500,000** per annum

Saving: **€1,500,000 per annum - €4,500,000 over 3 years, €7,500,000 over 5 years**

Estimated effort to migrate the c**1400** Applications that sit on this xxx estate, based on a 3 day analysis using RedHat 'RHAMT' tool: **1950 person-days**.

Resourced by a combination of RedHat PS, plus a selected SI.

The migrations get quicker over time as there are reusable elements. Cost = **c€1,700,000**

So even if year 1 is a break-even due to the migration costs, the savings over 3 and 5 years are significant.

Applications are not just migrated - they are modernised, containerised and ready for OpenShift / Hybrid Cloud etc.

This leads to even more savings, hardware utilisation etc. as discussed previously

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Red Hat Application Modernisation Methodology - starts with a Discovery Workshop