

BusinessConnect and SolutionsConnect

It's time to make bold moves.

Steps to Cloud Nine The Cloud Transformation Journey

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The Cloud Transformation Journey



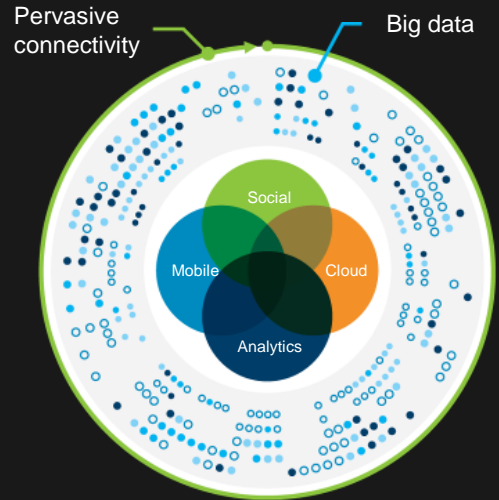
Differences in market capitalisation for sample leaders and followers by 2025.

FINANCIAL SERVICES			
Stillion			
Market capitalisation – leader in 2025	2025 \$69		
Market capitalisation – follower in 2025	2025 \$22	GAP 2025 \$47	
RETAIL			
Stillion			
Market capitalisation – leader in 2025	2025 \$78		
Market capitalisation – follower in 2025	2025 \$1.5	GAP 2025 \$76.5	
MINING			
Stillion			
Market capitalisation – leader in 2025	2025 \$130		
Market capitalisation – follower in 2025	2025 \$38	GAP 2025 \$92	
TELECOMMUNICATIONS			
Stillion			
Market capitalisation – leader in 2025	2025 \$102		
Market capitalisation – follower in 2025	2025 \$48	GAP 2025 \$54	
TOTAL GAP			\$269.5 billion

Over the Next 12 Years the Digital Economy will become the Economy

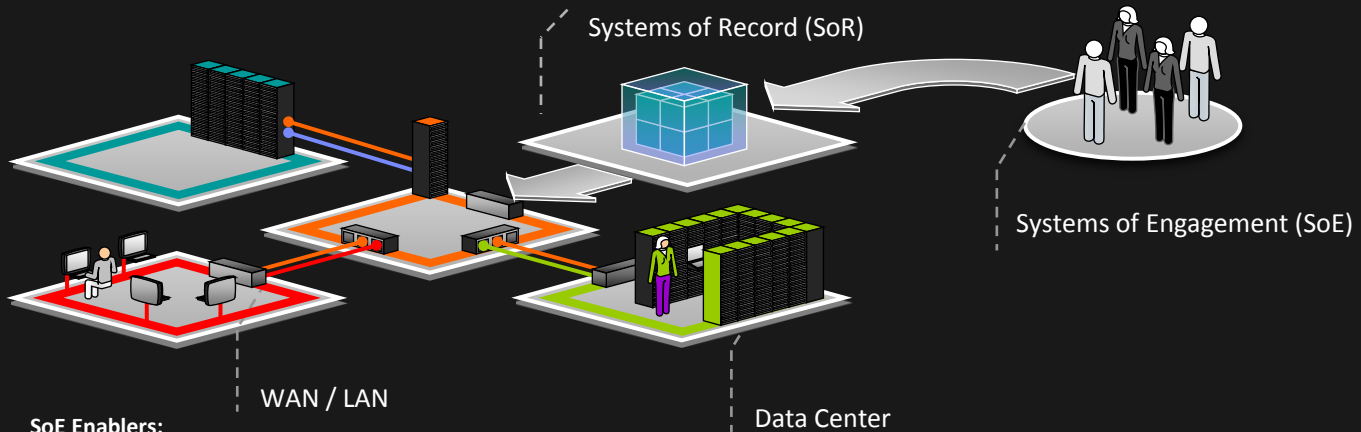
-  **Customers become more connected**
 -  **Consumers and employees will demand more**
 -  **Organisations will get flatter and more agile**
 -  **Enterprises will make faster, more-data-base decisions**
 -  **Enterprises will face more sources of competition**
- Underpinned by a heavy reliance on digital**

Digital transformation forces



Moving to a New World

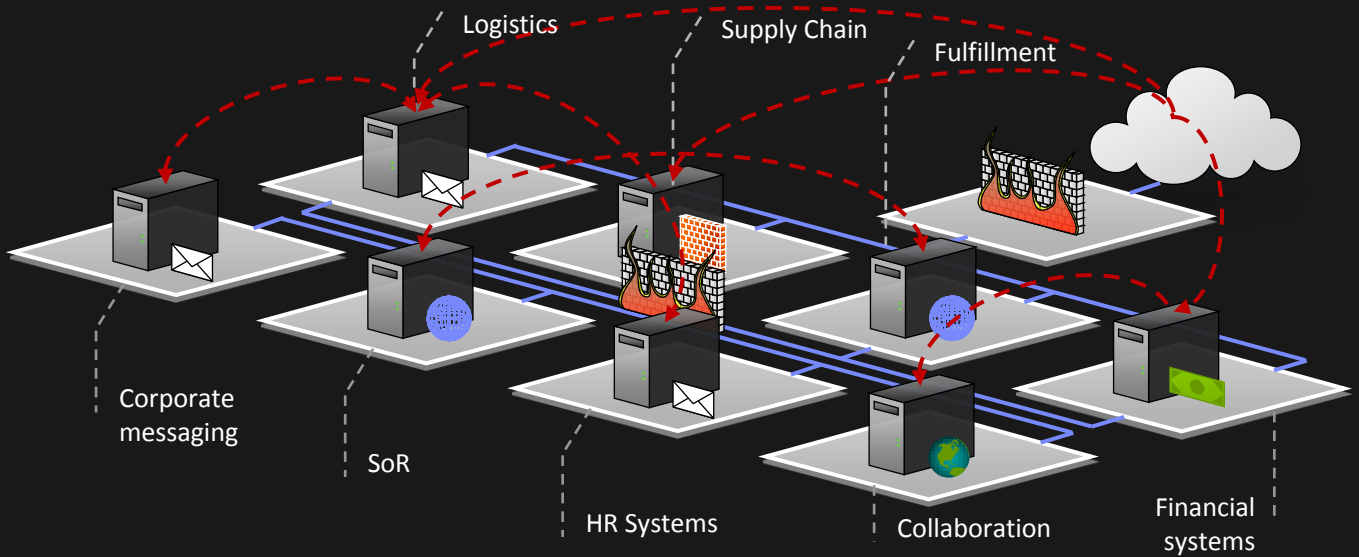
Systems of Engagement are delivering user-centric services into the enterprise



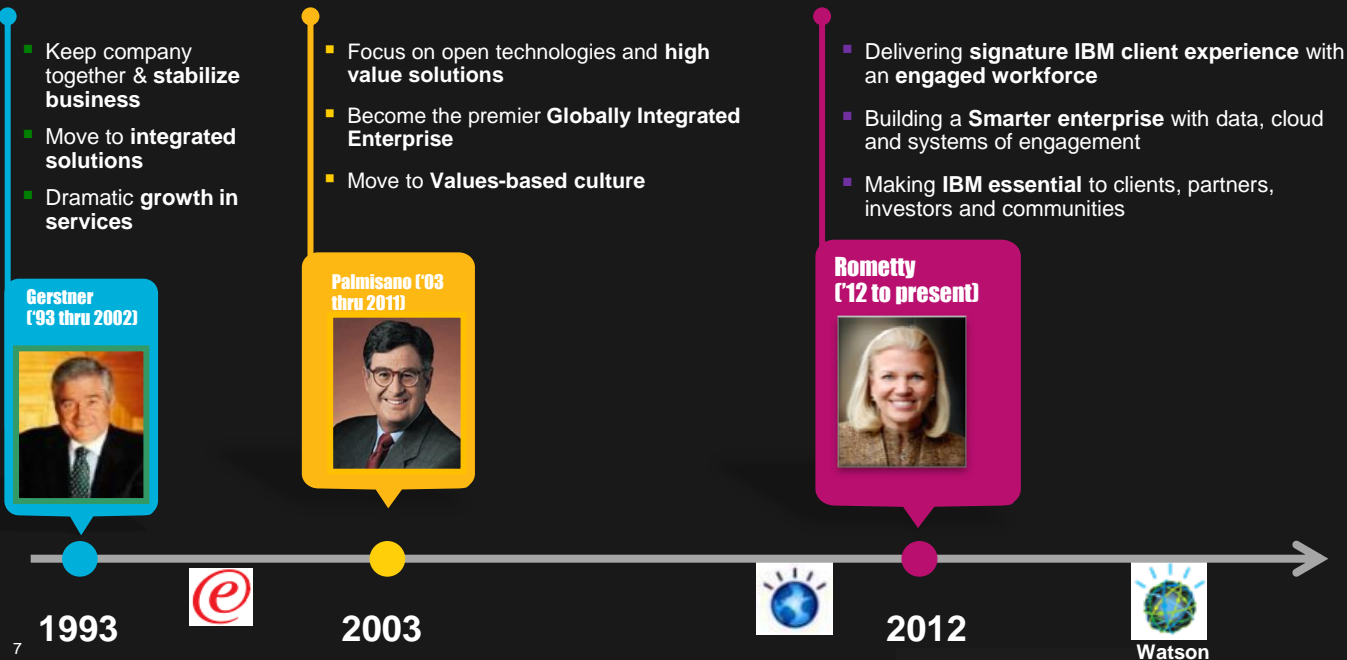
SoE Enablers:

- **Social** drives agility
- **Mobile** enables a 24x7 connected, engaged workforce
- **Analytics** enable data-driven insights for faster, smarter decision making
- **Cloud** enables ubiquitous access to resources and applications, and workload flexibility

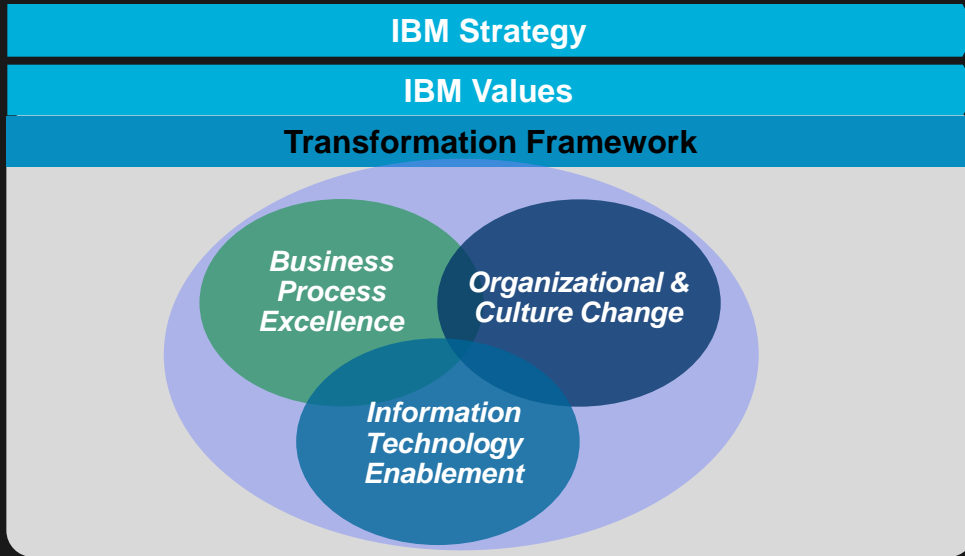
But the Reality is we Have Legacy Apps to Deal With...



IBM's Transformation: An Ongoing Journey



IBM's approach to transformation



5 Principles of Smarter Transformation



Create a movement



Build a platform for continuous improvement



Pursue growth as well as productivity



Apply technology for smarter transformation



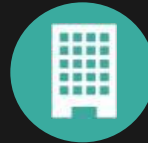
Establish an enterprise change capability

Technology: a catalyst for innovation and growth

The transformation of IBM's IT Organization Pervasive Consolidation



CIOs
128 to 1

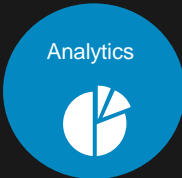


Data Centers
155 to 5



Applications
16000 to 3800

More than **\$1.5B in IT savings** since 2005. Now we're reinvesting these savings in our future.
Using IT not just as a productivity tool, but as a catalyst for innovation and growth



Analytics

Projecting savings of
\$100M+



Social

Supports
428,000 bloggers
86,000 public comm



Mobile

Over 185,000
mobile devices



Cloud







Reduced server
provisioning from 5
days to one hour



Watson
Engagement
Advisor

Helps contact center
agents answer client
questions

Six initial workloads chosen by the IBM CIO for Cloud

Analytics	Develop/Test	Collaboration	Storage	Prod Support	Self-Service
 <p>Blue Insight</p> <ul style="list-style-type: none"> Standardized BI/analytics capabilities 300K users, 500 ported/ boarded apps Predictive modeling (SPSS) and data mgmt 50K peak reports/day 	 <p>Develop/ Test Cloud</p> <ul style="list-style-type: none"> Server setup from 5 days to 1 hour 95% of new server reqs via this cloud 13,000 VMs provisioned for 2,100 users 	 <p>SmartCloud Meetings</p> <ul style="list-style-type: none"> 85% of web conference minutes > 50M meeting minutes per month 	 <p>Storage Cloud</p> <ul style="list-style-type: none"> File storage cloud used by > 130K users & applications Block storage cloud w/ automated tiering (50% reduction \$/GB) 	 <p>Production Cloud</p> <ul style="list-style-type: none"> Private cloud for lower tier/ departmental applications First apps migrated and operating Refining platform, expanding use on best fit basis 	 <p>Self-Service App Env</p> <ul style="list-style-type: none"> Platform for composite app development and execution Programmer-less app development Example: >200 forms-based internal process apps
SaaS	IaaS	SaaS	IaaS	IaaS	PaaS

The IBM CIO cloud experience

Key lessons learned

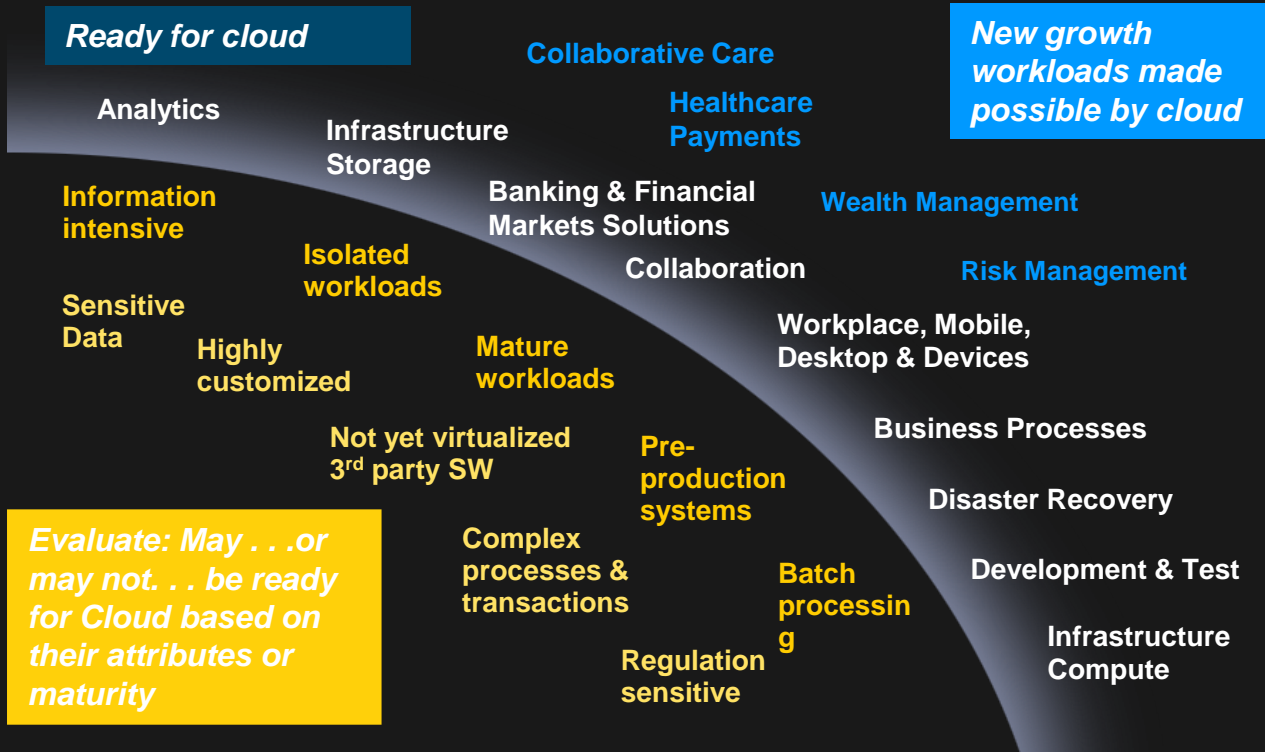
- **Cloud adoption comes with benefits and risks**
 - Benefits of Cloud are real, but require careful planning & execution
 - Cloud providers are at various states of readiness and maturity – technologically and otherwise.
 - Security & service levels need to be well understood by IT and the business.

- **Private cloud is a viable first step**
 - Agility is biggest benefit and driver
 - Presents an opportunity to transform internal processes and organization for increased efficiency

- **Think small & targeted**
 - Small steps with tactical/point solutions, not sweeping infrastructure change
 - Application portfolio-led perspective works best

- **Enabling Self Service for IBM'ers creates new work for existing roles and requires new roles to be created**
 - System Integration skills and roles are critical

Cloud readiness assessment – By Workload



Identifying the Most Appropriate Cloud Service Model

The Right Cloud for the Right Workload

Will your operating environment need to rapidly change or require ongoing customization?

IaaS

- Foundation of Cloud computing
- sometimes referred to as Hardware as a Service (HaaS)
- service provider owns & runs the equipment. Client typically pays on a per-use basis.
- Dynamic scaling
- Shared or dedicated physical infrastructure

Can your workload function with a given PaaS stack's standard offering?

PaaS

- Platform as a Service (PaaS) is a way to rent hardware, operating systems, storage and network capacity over the Internet.
- Shared platform
- Shared phys infrastructure
- Access limited to platform software

Will out of the box functionality work for your business/process?

SaaS

- Software as a Service (SaaS) provides On-Demand software
- All users will have the same version of software
- Application level multi-tenancy
- Shared physical infrastructure

Where to from here in your cloud journey: Here are some steps to consider:

Business

- Undertake a Cloud Assessment - infrastructure, platform software or combination
- Cloud computing transformation advisory
- Access new capabilities via IBM Marketplace eg. analytics tools, marketing tools, financial tools
- Leverage IBM Marketplace to monetize company value

Developers

- Access PaaS catalogue - Bluemix on SoftLayer
- Access SaaS catalogue - customise Software offerings

IT Operations

- Dev and test
- Storage
- Disaster recovery
- Infrastructure refresh to cloud (eg. to SoftLayer using Racemi)
- Collaboration eg. SmartCloud meetings
- Packaged apps to Cloud (CAPEX to OPEX)
- On-Premise / Off-premise / Hybrid



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