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.

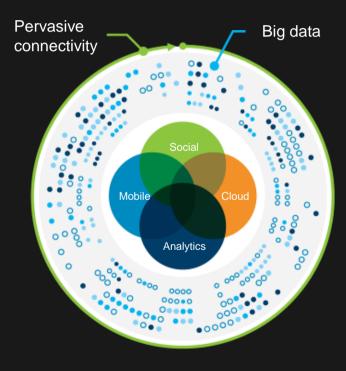




Over the Next 12 Years the Digital Economy will become the Economy



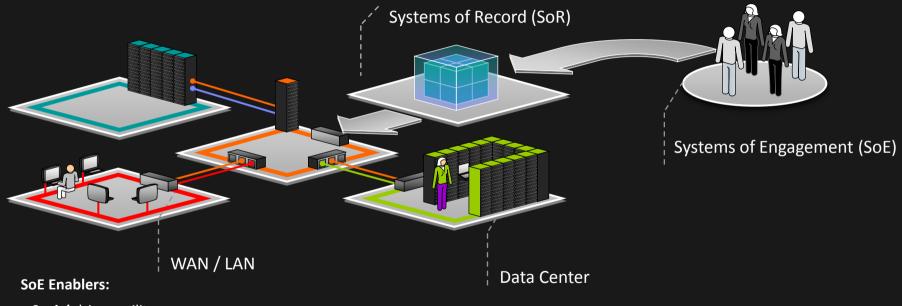
Digital transformation forces





Moving to a New World

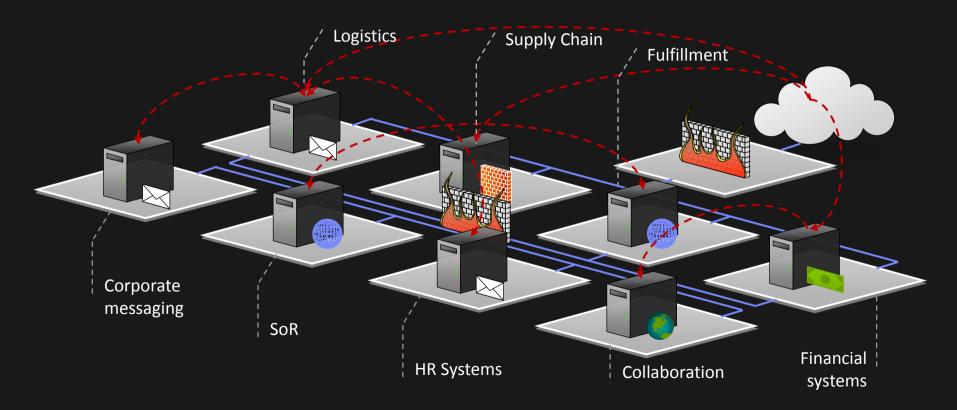
Systems of Engagement are delivering user-centric services into the enterprise



- 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



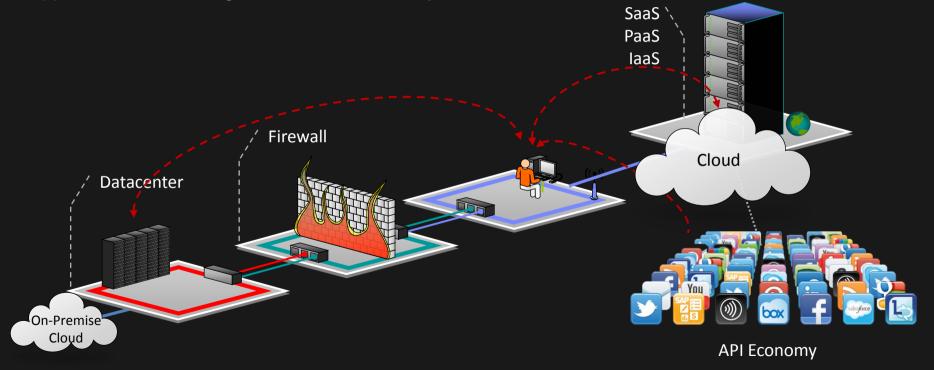
But the Reality is we Have Legacy Apps to Deal With...





Cloud Offers A New Way To Bring In User-Centric, SoE Services

A Cloud Operating Environment allows us to construct apps from APIs ... regardless of where they reside





IBM's Transformation: An Ongoing Journey

Palmisano ('03

thru 2011)

2003

- Keep company together
 & stabilize business
- Move to integrated solutions
- Dramatic growth in services

Gerstner ('93 thru 2002)

1993

8 thru 2002)

- Focus on open technologies and high value solutions
- Become the premier Globally Integrated Enterprise
- Move to Values-based culture

- Delivering signature IBM client experience with an engaged workforce
- Building a Smarter enterprise with data, cloud and systems of engagement
- Making IBM essential to clients, partners, investors and communities

Rometty ('12 to present)



New era of Computing

New buyers, new markets

New ways of working







IBM's approach to transformation

IBM Strategy

IBM Values

Transformation Framework

Business Process Excellence

Organizational & Culture Change

Information Technology Enablement





Create a movement



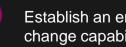
Build a platform for continuous improvement



Pursue growth as well as productivity



Apply technology for smarter transformation



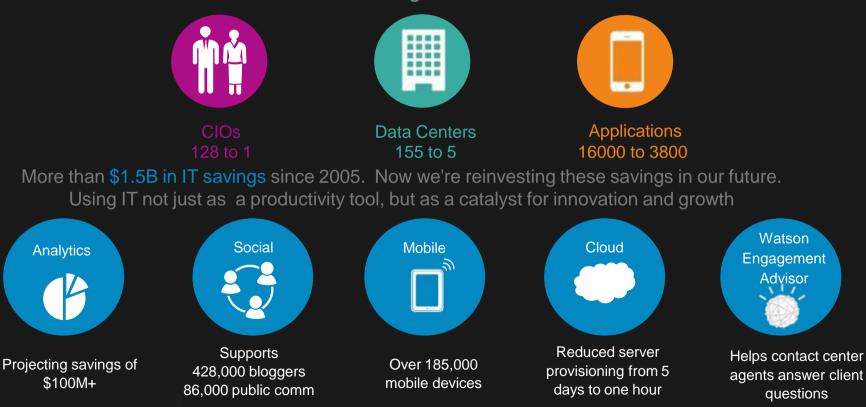
Establish an enterprise change capability

9



Technology: a catalyst for innovation and growth

The transformation of IBM's IT Organization Pervasive Consolidation





Six initial workloads chosen by the IBM CIO for Cloud

Blue Insight • Standardized	Develop/Test Cloud	SmartCloud Meetings • 85% of web	Storage Cloud	Production Cloud	Self-Service App Env • Platform for
 BI/analytics capabilities 300K users, 500 ported/ boarded apps Predictive modeling (SPSS) and data mgmt 50K peak reports/day 	5 days to 1 hour 95% of new server reqs via this cloud 13,000 VMs provisioned for 2,100 users	conference minutes • > 50M meeting minutes per month	used by > 130K users & applications • Block storage cloud w/ automated tiering (50% reduction \$/GB)	lower tier/ departmental applications • First apps migrated and operating • Refining platform, expanding use on best fit basis	composite app development and execution • Programmer-less app development • Example: >200 forms-based internal process apps
SaaS	laaS	SaaS	laaS	laaS	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
- Private cloud is a viable first step
 - Presents an opportunity to transform internal processes and organization for increased efficiency
- Think small and agile with targeted workloads
 - Small steps with tactical/point solutions, not sweeping infrastructure change
- Cloud is the foundation for transformation to a Smarter Enterprise, by enabling -
 - Systems of Engagement (Social & Mobile)
 - Systems of Insight (Data & Analytics)
- Meaningful & sustainable transformation requires a combination of
 - Process excellence
 - Cultural change management
 - Technology enablement.

Steps to Cloud Nine Cloud readiness assessment - By Workload



Ready for cloud	Collabo	Collaborative Care		New growth workloads made
Analytics		Healthca Paymen		possible by cloud
Information intensive	Markets S	Banking & Financial Wealth M Markets Solutions		nagement
	ated kloads Mature workloads	Collaboratio	on Workplace, N Desktop & De	
	ot yet virtualized ^d party SW	Pre- productior systems		ess Processes isaster Recovery
Evaluate: Mayor may not be ready for Cloud based on their attributes or maturity			Batch processing	Development & Test Infrastructure Compute



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?

laaS

- 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

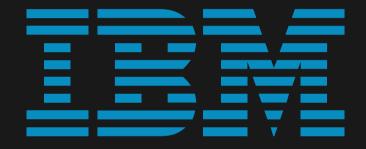
- Software as a Service (SaaS) provides On-Demand software
- All users will have the same version of software
- Application level multitenancy
- Shared physical infrastructure



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

Business	Developers	IT Operations	
Undertake a Cloud Assessment - infrastructure, platform software or combination	• Access PaaS catalogue - Bluemix on SoftLayer	 Dev and test Storage Disaster recovery Infrastructure refresh to 	
 Cloud computing transformation advisory 	Access SaaS catalogue - customise Software offerings	cloud (eg. to SoftLayer using Racemi)	
 Access new capabilities via IBM Marketplace eg. analytics tools, 		 Collaboration eg. SmartCloud meetings 	
marketing tools, financial tools		 Packaged apps to Cloud (CAPEX to OPEX) 	
 Leverage IBM Marketplace to monetize company value 		• On-Premise / Off-premise / Hybrid	





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