### **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.

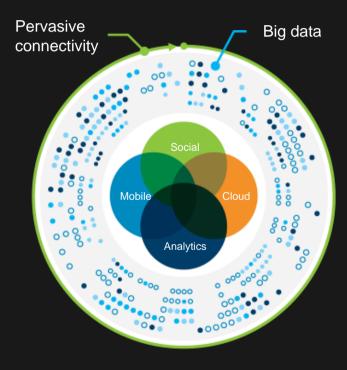




## Over the Next 12 Years the Digital Economy will become the Economy



#### **Digital transformation forces**





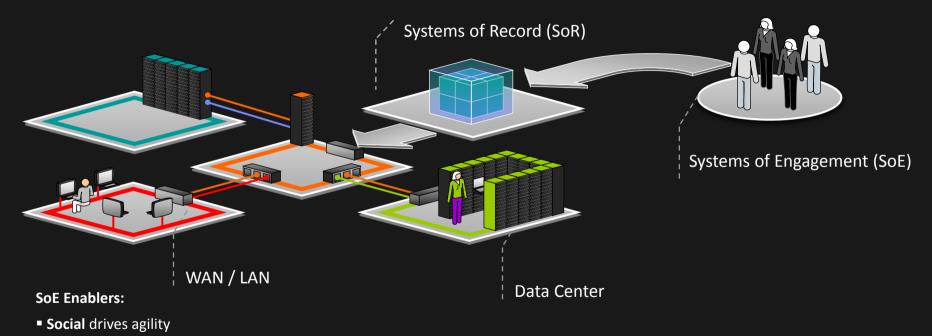
### These Trends are Reshaping Industries





## Moving to a New World

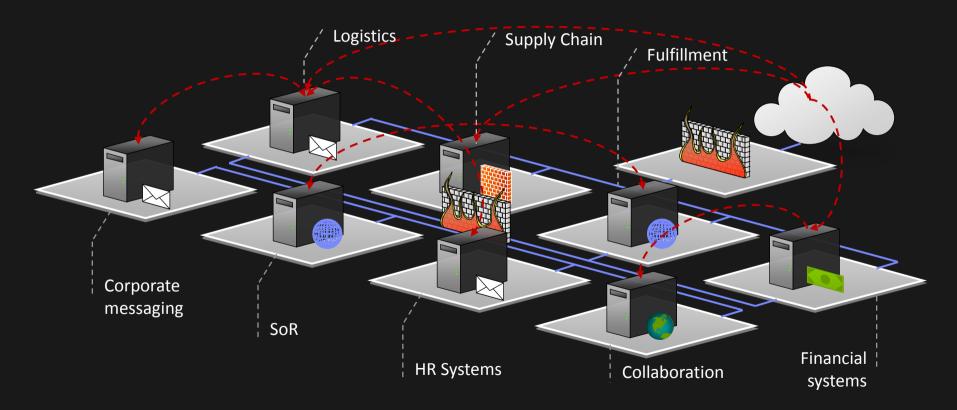
Systems of Engagement are delivering user-centric services into the enterprise



- 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



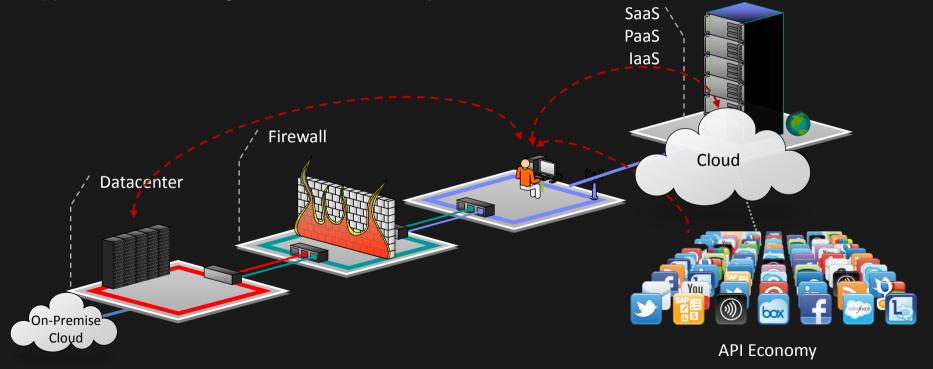
## But the Reality is we Have Legacy Apps to Deal With...





### 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

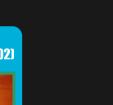
thru 2011)

2003

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

#### Gerstner ('93 thru 2002)

1993



- 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

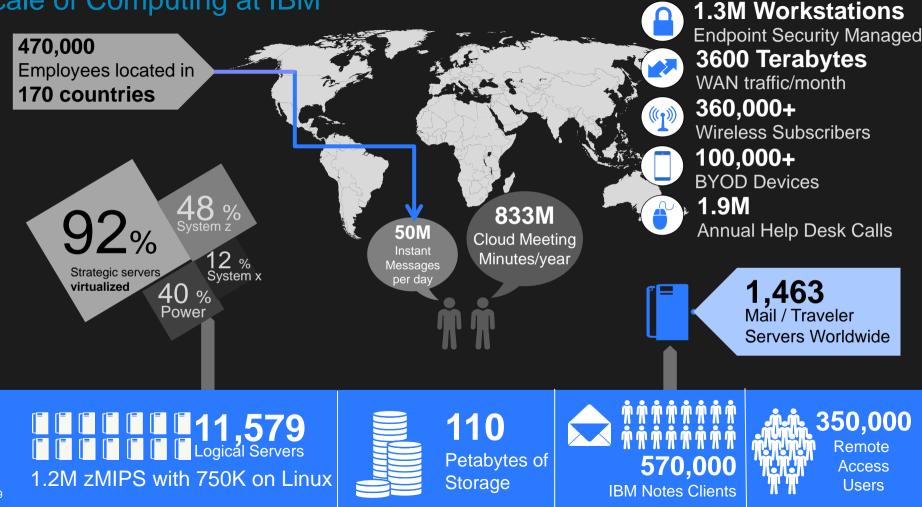
Rometty ('12 to present)



2012



## Scale of Computing at IBM





## 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



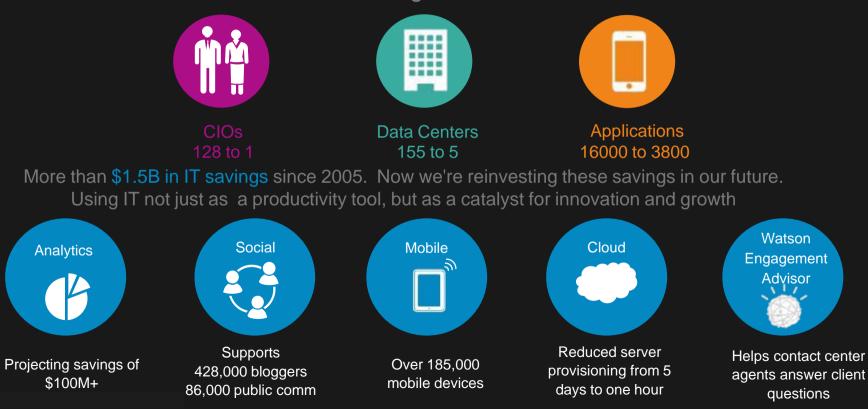
Apply technology for smarter transformation

Establish an enterprise change capability



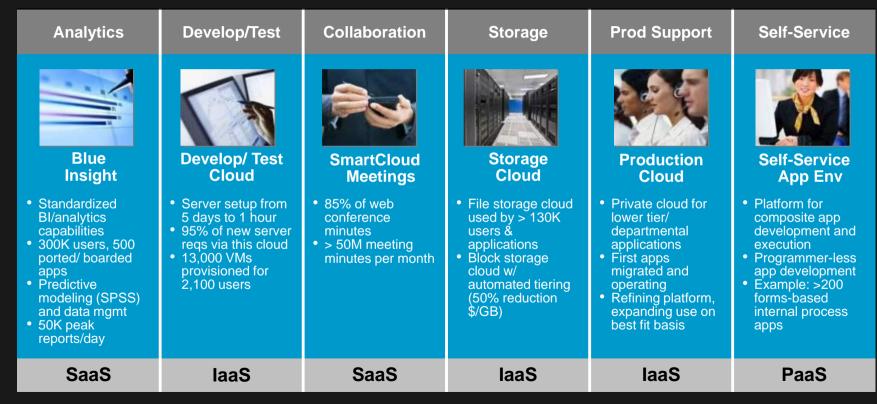
## Technology: a catalyst for innovation and growth

The transformation of IBM's IT Organization Pervasive Consolidation





# IBM CIO has established a base of cloud computing which continues to expand and mature ...





Ready for cloud	Collabo	rative Care		New growth workloads made
Analytics		Healthca Paymen		possible by cloud
Information intensive	Markets S	Financial		inagement
Isolate worklo Data Highly customized		Collaborati	on Workplace, N Desktop & De	
	yet virtualized arty 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



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

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 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 peruse basis.
- Dynamic scaling
- Shared or dedicated physical infrastructure



## Overview & considerations Cloud offers a new path forward

- Brings a new model of utility computing that delivers agility, flexibility, & potential cost savings to the enterprise
- Pairing each workload with the right cloud architecture is a critical step; public, private or hybrid? IaaS, PaaS, SaaS?
- Legacy applications may not always be a good fit for Cloud
- "Born on the cloud" -- enables us to realize the true benefit of cloud





## 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



# Where to from here: Cloud computing enables transformation in three ways. IBM's own use will increasingly reflect that.

Transform how IT is delivered to support the business	Transform how a business is managed	Transform how business is conducted
Use cloud computing to evolve the delivery IT resources with greater speed, quality and flexibility with higher value.	Manage the organization more efficiently through cloud computing with IBM's analytics, business process and BPM solutions	Drive business transformation, leveraging IBM's deep industry expertise, assets and cloud capabilities





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