

**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



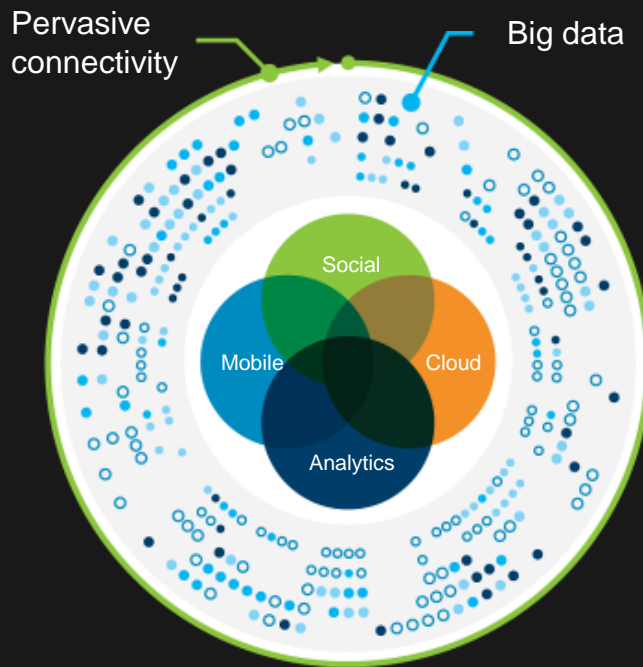
## Differences in market capitalisation for sample leaders and followers by 2025.



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

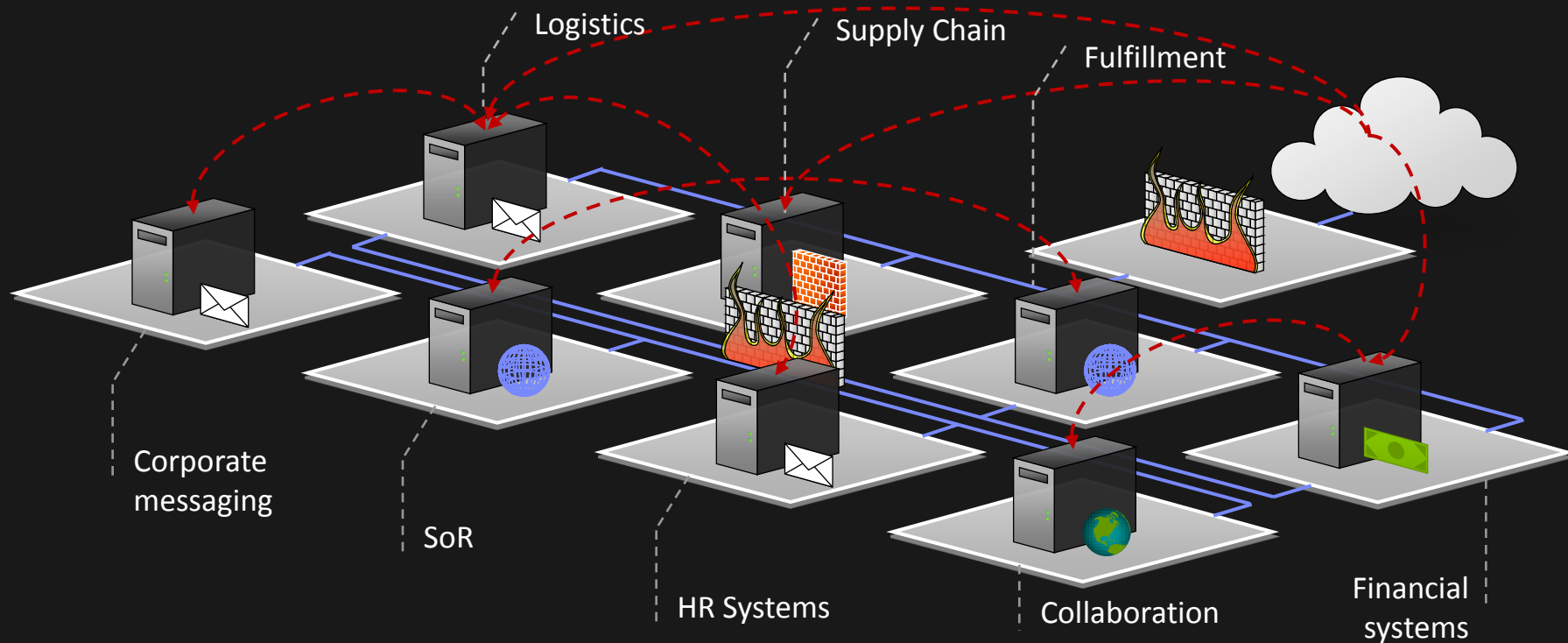
-  **Customers become more connected**
  -  **Consumers and employees will demand more**
  -  **Organisations will get flatter and more agile**
  -  **Enterprises will make faster, more-data-base decisions**
  -  **Enterprises will face more sources of competition**
- Underpinned by a heavy reliance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

## Digital transformation forces



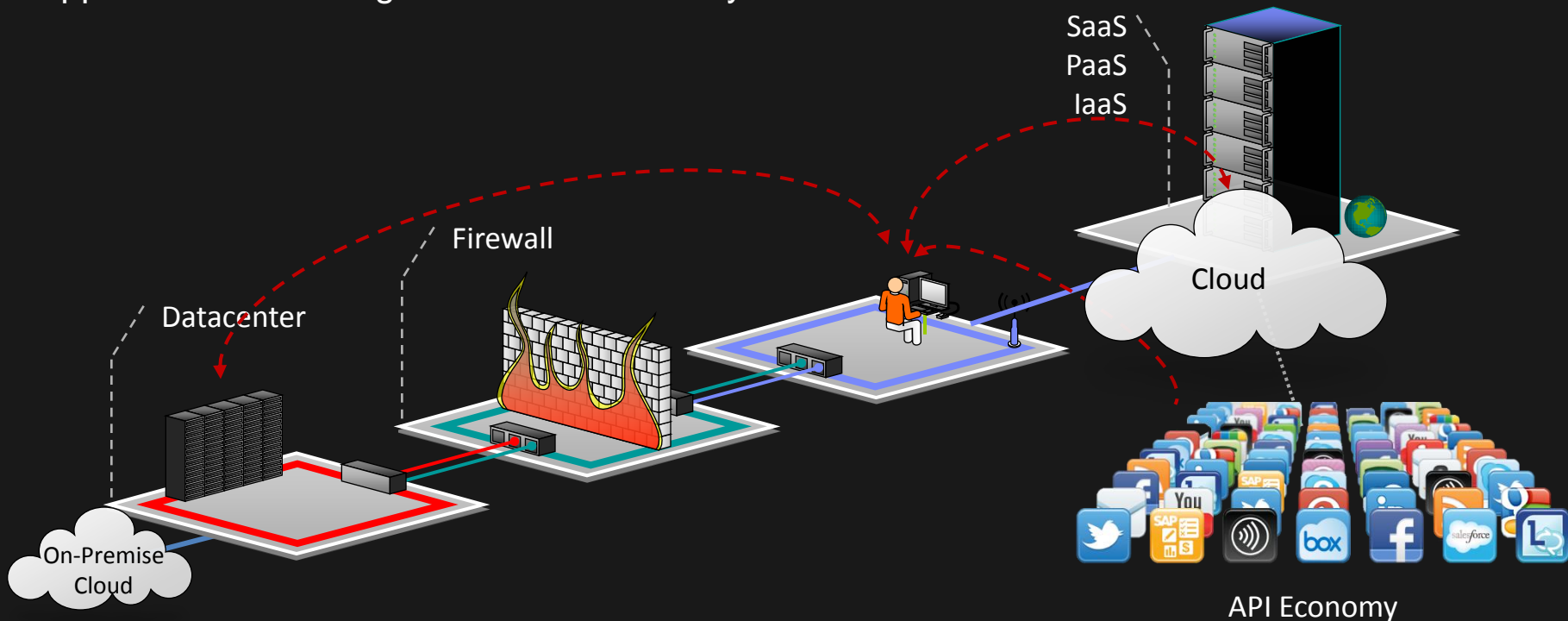


# But the Reality is we Have Legacy Apps to Deal With...



# 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

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

**Gerstner**  
( '93 thru 2002)



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

**Palmisano** ('03 thru 2011)



- 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)



1993



2003

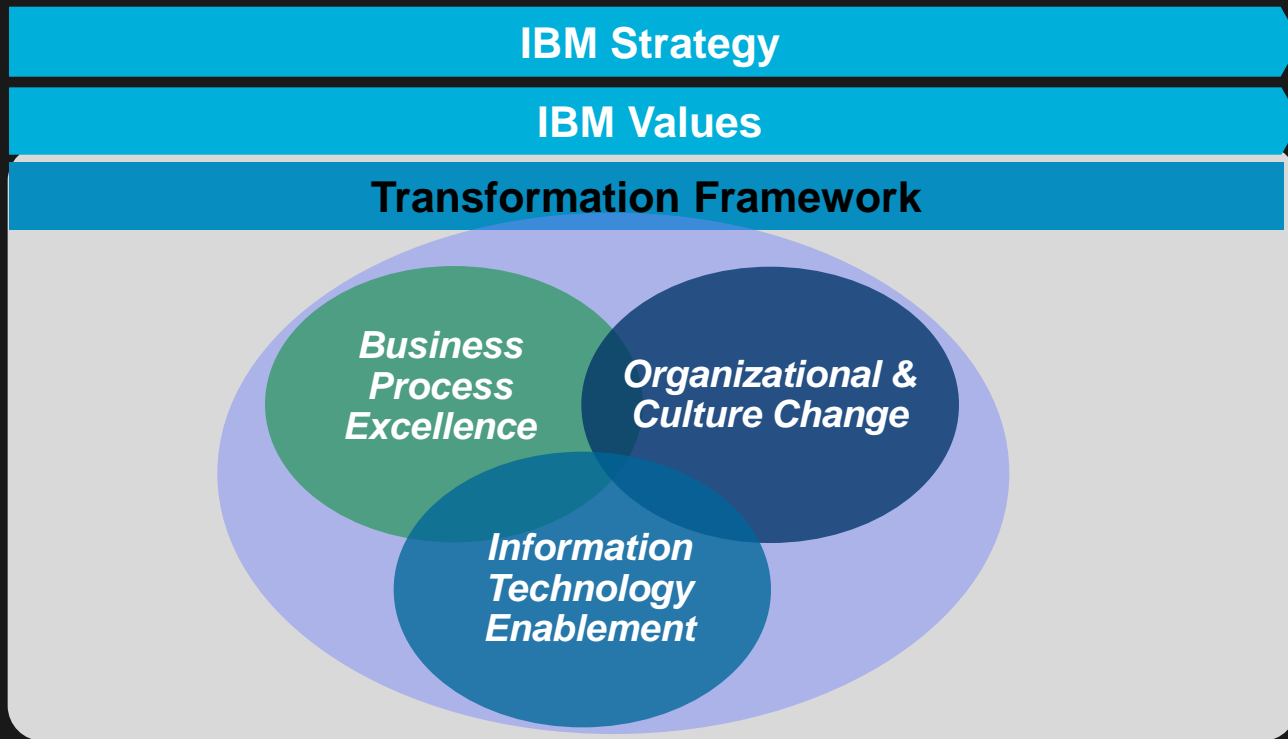


2012



Watson

# 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

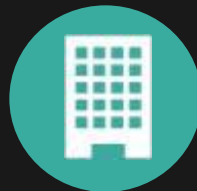


# Technology: a catalyst for innovation and growth

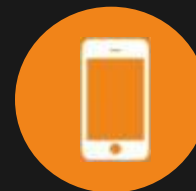
The transformation of IBM's IT Organization Pervasive Consolidation



CIOs  
128 to 1

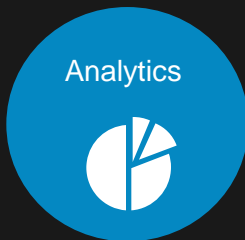


Data Centers  
155 to 5



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



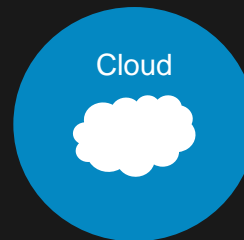
Projecting savings of  
\$100M+



Supports  
428,000 bloggers  
86,000 public comm



Over 185,000  
mobile devices









Reduced server  
provisioning from 5  
days to one hour



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

# 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

**Ready for cloud**

**New growth workloads made possible by cloud**

Analytics

Collaborative Care

Healthcare Payments

Infrastructure Storage

Information intensive

Banking & Financial Markets Solutions

Wealth Management

Isolated workloads

Collaboration

Risk Management

Sensitive Data

Highly customized

Mature workloads

Workplace, Mobile, Desktop & Devices

Not yet virtualized 3<sup>rd</sup> party SW

Pre-production systems

Business Processes

Disaster Recovery

*Evaluate: May . . . or may not. . . be ready for Cloud based on their attributes or maturity*

Complex processes & transactions

Batch processing

Development & Test

Regulation sensitive

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?

### 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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