## The Future of Enterprise IT 2010 – 2020

## From Systems of Record to Systems of Engagement



## Agenda

#### • IT Today

- Enterprise IT: Systems of Record
- Consumer IT: Systems of Engagement

#### The Big Disconnect

- Evolution or Revolution?
- The Forcing Function

#### Enterprise Systems of Engagement

- What Will Change
- Impact on IT Organizations
- Impact on the IT Industry



## **Enterprise IT: The Current State Systems of Record are Largely Complete**

- Transaction systems for global commerce ...
  - Financials, Order Processing, Inventory, HR, CRM, Supply Chain . . .
  - Mainframes, minis, client-server, PC, Internet-enabled, SaaS

#### • Drove three decades of investment

- Data centers everywhere
- OLTP and Business Intelligence were the key drivers
- Network seen as a transport mechanism only

#### • Y2K put the capstone on this trend

- Pulled forward a half decade of investment
- Enterprise IT has had to go through a long "digestive" period
- Focus in past decade has been on *efficiency investments*



## **IT Innovation: For the Past Decade**



Enterprise IT On Hold



Consumer IT On Fire



## **Redefining IT for Consumers The Digitization of Human Culture**

#### • <u>Access</u>

- Infinite content, no barriers to entry, no barriers to exit
- Communications are any-to-many-to-one
- Social networks, blogs, Skype, Twitter

#### Broadband

- Pictures and video are the killer apps
- Newspapers and magazines are toast
- TV and radio are being reengineered even as we speak

#### • Mobile

- PC for the emerging markets
- iPhone sets the bar in mature markets
- Texting, camera, location-based services

#### This *is* cloud computing What does it mean for the enterprise?

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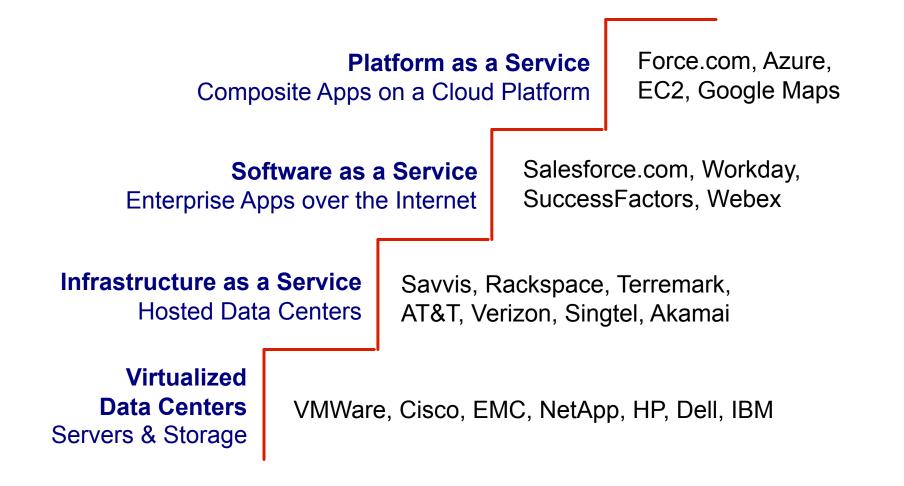
## **The Big Disconnect**

## How can it be [ am so powerful as a consumer And so LAME as an employee!!??

## How disruptive do <u>you</u> think Consumer IT will be to Enterprise IT?

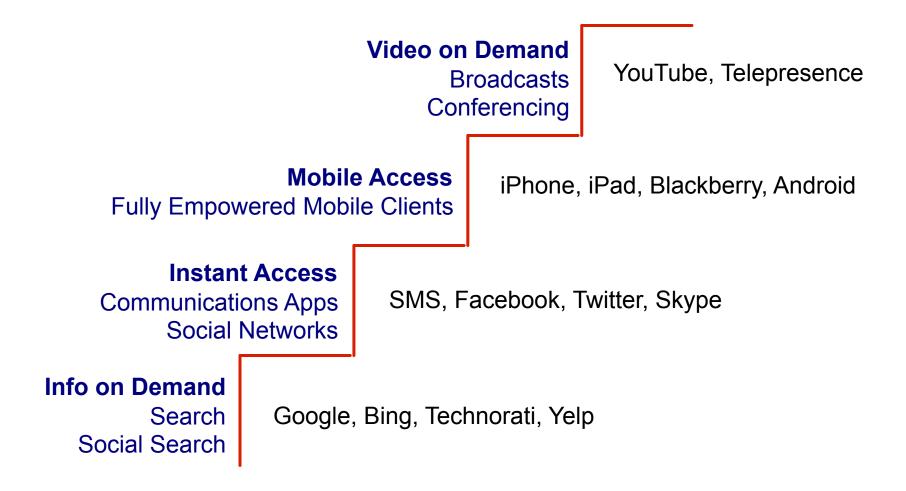


## Consumer IT: The IT Organization's View An Evolution in Infrastructure





# Consumer IT: The End User's View A <u>Revolution</u> in Applications





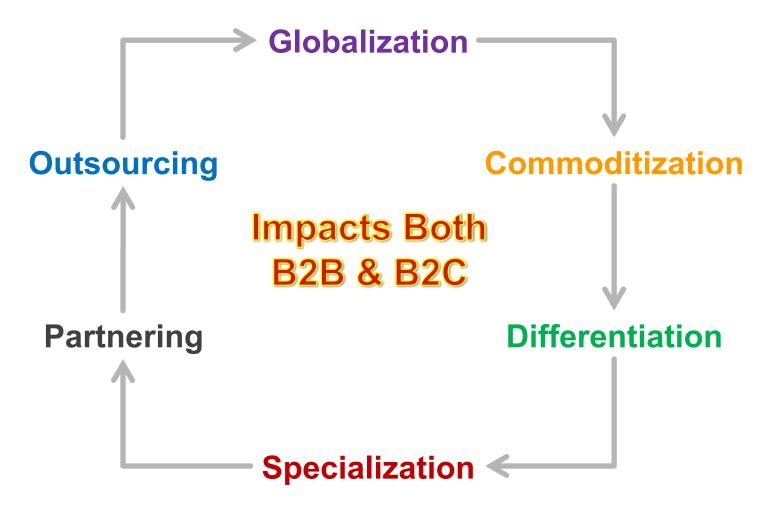
## **Evolution or Revolution?**

- Evolution: The View from the IT Organization
  - Continuation of last decade's trend lines
  - Focus is on **Systems of Record**
  - Significant issues around mission-critical risk
  - Not fundamentally disruptive
- **Revolution: The View from End User Community** 
  - New social contract for communication, collaboration, content
  - Focus is on **Systems of Engagement**
  - Ratified by consumer IT, violated by enterprise IT
  - Radically discontinuous with current infrastructure & policies

## What will <u>force</u> enterprise IT to commit to systems of engagement?



## **Global Business Dynamics** Will Drive the Enterprise IT Revolution





### **Impact of Global Business Dynamics on B2B B2B Collaborative Networks**

#### • Increased demand for

- Collaboration
- Relationship Management
- Challenge: To engage with peers globally to solve problems
  - Answers are not in Systems of Record
  - They are in other people's (and often other companies') heads
- Burden falls on the middle of the organization
  - Not front-line workers engaged in transactional workflows
  - Not top executives engaged in strategic issues
- Need to invest in "IT for the middle tier"
  - Communication and collaboration systems
  - Broad and easy access to Systems of Record on demand



## **Systems of Engagement for B2B**

#### • The Revolution

- Scale collaborative capabilities through systems of engagement
- Spotlight falls on the <u>middle of</u> the enterprise organization
  - Not about getting more efficiency from the bottom
  - Not about getting better strategic views at the top

#### Path Forward

 Invest in the productivity of knowledge workers and relationship managers

- Enterprise Facebook
- Enterprise YouTube
- Enterprise Twitter
- Global presence detection
- On-demand conferencing
- Telepresence everywhere
- Mobile access to everything
- Global search
- Community content management
- With more <u>revolutionary</u> applications to come . . . .



## **Some Early Use Cases**

#### • New product introductions

- Trouble-shooting global supply chains
- Coordinating global product launches

#### • Virtual experts

- Beta programs for next-generation technology products
- Telemedicine for consulting physicians

#### Collaborative management

- Seeing "eye to eye" on the critical issues
- Making decisions in real time



### **Impact of Global Business Dynamics on B2C B2C Transactional Networks**

#### Commoditization

- Massive volumes but at very low margins
- Margin relief is key for developed economies
- <u>Consumer preference</u> is the critical lever

#### From Transactions to Interactions

- Battle for preference at the moment of choice
- Offline demographic promotions being disintermediated
- Pressure to make relevant offers in real time
- Answers are in computers or databases
- But they are <u>tiny</u> needles in <u>massive</u> haystacks
- Must find them and activate them before prospect moves on

#### **Real-Time Analytics supplant Business Intelligence**



## **Next-Gen IT for Coordinated Networks**

#### • Next-Gen Point of View

- Innovate through *correlations*
- Scale through *interactions*
- Spotlight falls on <u>metadata</u>, <u>analytics, and real-time</u>
  - Pre-programmed transaction systems are too inflexible
  - Real-time adaptive systems are required

#### Path Forward

 Invest in realtime analytics, closed loop systems, and machine learning

- Collaborative filtering
- Behavioral targeting
- Personalized transactions
- Location-based services
- Predictive analytics
- Machine learning
- Fraud detection
- Multi-channel engagement
- With more revolutionary applications to come . . . .



## What Are Some Use Cases?

#### • Up-selling self-service

- Offers appear in the context of a current transaction
- No competition, ready to close

#### • Next-generation promotional marketing

- Pay-for-results business model
- Yield is a function of data and algorithm quality and quantity

#### Next-generation brand marketing

- Digital experiences to amplify brand images
- Digital traces to garner consumer insights



## Systems of Record <u>&</u> Systems of Engagement

- Systems of Record create efficiency
  - Impossible to do global commerce without them
  - Focus on cost, quality, and contractual commitments
- Systems of Engagement create effectiveness
  - Address the complexities of global business relationships
  - Focus on time, innovation, and personal commitments
- Systems of Record <u>need</u> Systems of Engagement
  - Troubleshoot the exception conditions
- Systems of Engagement <u>need</u> Systems of Record
  - Access the relevant fact base
- Correct architecture
  - SOEs operating on top of and in touch with SORs
  - This is where the evolution in infrastructure comes in



## **Implications for IT Organizations**

#### Systems of Record

**Command & Control** 

**Transaction-oriented** 

Data-centric

User learns system

Security is a key issue

#### Systems of Engagement

Collaborative

Interaction-oriented

**User-centric** 

System learns user

Privacy is a key issue

## These are big, big changes Where does one start?



# For *Systems* of Engagement, Focus on *Moments* of Engagement

- Focus on the critical few moments of engagement that determine whether you win or lose with your strategy
  - Product Leadership: Moments of adoption
  - Customer Intimacy: Moments of trust
  - Operational Excellence: Moments of risk
- Focus on the people in your organization that are present in these moments
  - Product Leadership: Field Engineering, R&D
  - Customer Intimacy: Relationship managers, Customer Support
  - Operational Excellence: Supervisors, Trouble Shooters
- Focus Systems of Engagement on meeting the needs of these people in these moments—*and hurry*!

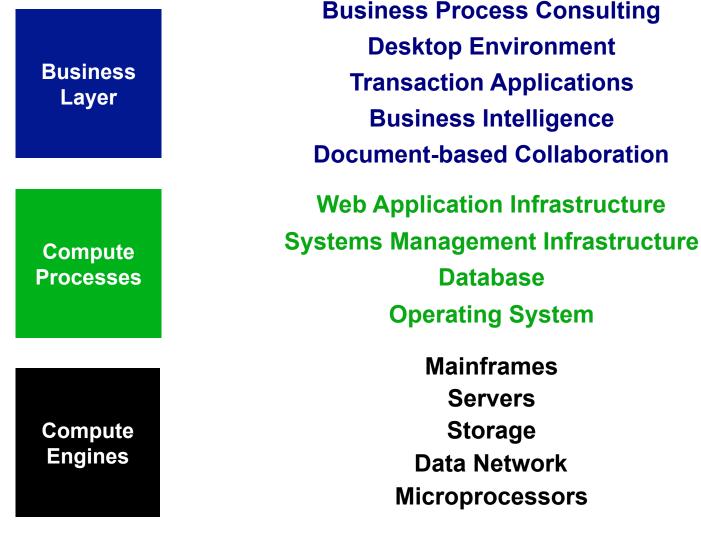


## **Implications for the Industry**

## The Morphing of the Stack!

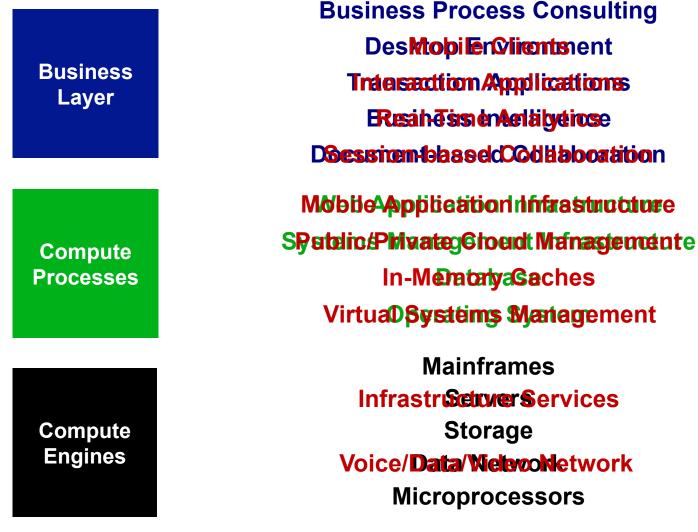


## **The Traditional Systems of Record Stack**





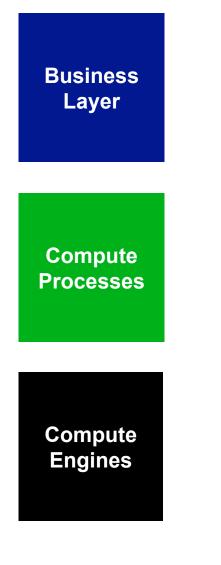
## The Morphing of the Stack



**Microprocessors** 



## **The New Systems of Engagement Stack**



Business Process Consulting Mobile Clients Interaction Applications Real-Time Analytics Session-based Collaboration

Mobile Application Infrastructure Public/Private Cloud Management In-Memory Caches Virtual Systems Management

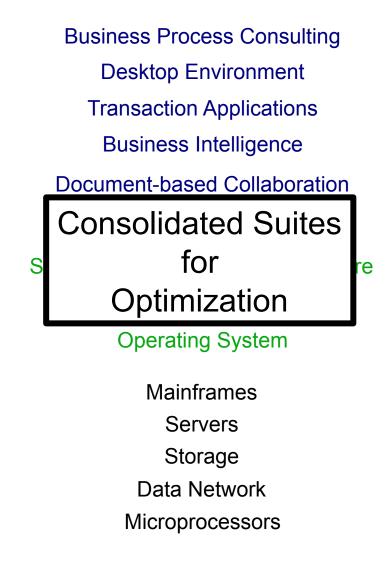
**Infrastructure Services** 

Voice/Data/Video Network Microprocessors



## **Two Different Trajectories**

#### **Data-Center-Centric Stack**



#### **Network-Centric Stack**

Business Process Consulting Mobile Clients Interaction Applications Real-Time Algorithms Session-based Collaboration Mob Best of Breed ture for ment Differentiation Virual Systems Management

#### Infrastructure Services

Voice/Data/Video Network Microprocessors

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## Recap

- IT Today
  - Enterprise IT: Systems of Record Consolidate & Optimize
  - Consumer IT: Systems of Engagement Invent & Invest

#### • The Big Disconnect

- Evolution or Revolution? Both
- The Forcing Function? *The Dynamics of Global Business*

#### • Enterprise Systems of Engagement

- What Will Change? Invest in IT for the Middle. Analytics for the Edge
- Impact on IT Organizations? Revolution & Evolution
- Impact on the IT Industry? Another Generation of Leaders





