

# Achieving Real Business Value From IT Investments

---

Jan Duffy  
Senior Analyst, IDC

IBM CIO SOA Summit  
July 12, 2007

# Agenda



1. What Executives Want From IT
2. The Changing IT Landscape
3. The Implications for CEO/CIO Agendas
4. Achieving Flexibility: The Five Rights
5. Conclusions
6. Q&A

# What Does the Business Want From IT?



1. Deliver more high business value services
2. Make IT more dependable and secure
3. Understand our business better
4. Speed up (business) project delivery

**Source:** IDC Line-of-Business Executive Survey, January 2007; n = 100.

*Q. Which of the following reflect the messages you would like to impart to your CIO/senior IT management? Top 4 selections shown.*

# What Does Business Want From IT Suppliers?



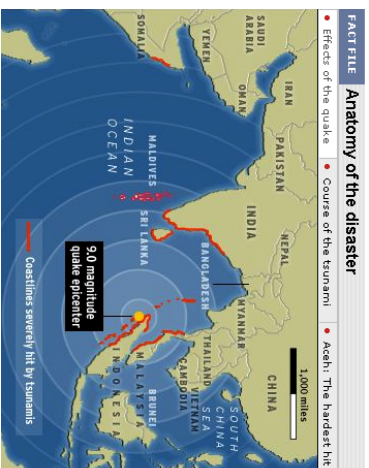
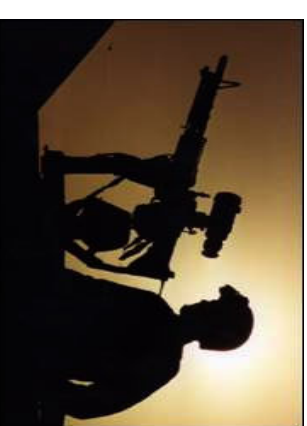
1. **Very competitive pricing**
2. **Salespeople who understand our industry and business**
3. **Products and service designed for our industry**
4. **Clear description of the business case for their offerings**

**Source:** IDC Line-of-Business Executive Survey, January 2007; n = 200.

*Q. When considering IT vendors, how important is it for them to offer the following?*  
IT and LOB executives' responses included. Top 4 selections shown.



# It is Also Difficult When So Much is Happening at the Macro Level ...



# Google's Oregon Complex



- 30-acre campus located near the Columbia River in Oregon provides access to cheap hydroelectricity and to a fibre-optic artery built to handle 640 gigabits per second that connects Asia to the US
- An estimated 450,000+ servers and 200 petabytes of hard disk storage and four petabytes of RAM (a petabyte = 1 million billion/10<sup>15</sup>/1 quadrillion bytes)

**Source:** George Gilder, *The Information Factories*, [www.wired.com](http://www.wired.com)



# Toyota Showroom in Second Life



**Toyota has entered the virtual world as the first automotive advertiser, dropping its Scion all around the grid of Second Life so users could drive it around, interact with it and of course customise it prior to purchase.**



Second Life stats  
July 8, 2007:  
Total residents: 7,899,261  
Logged in last 60 days: 1,763,640  
Online now: 43,254

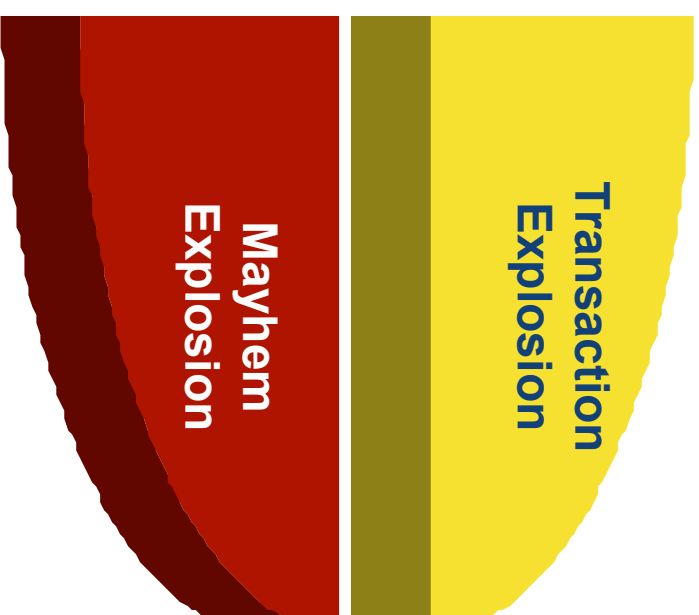
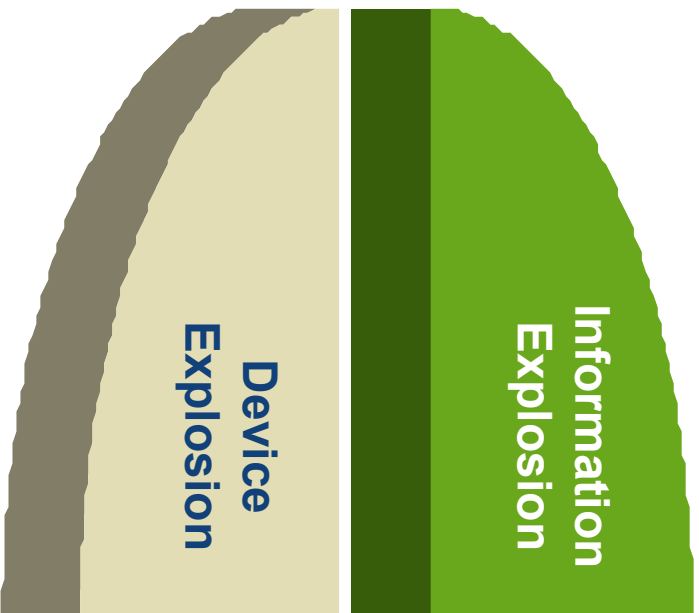
# BT's 21st Century Network



- All IP, Ethernet backhaul for better performance
- 100,000 network elements eliminated
- CO switch complexes now office buildings

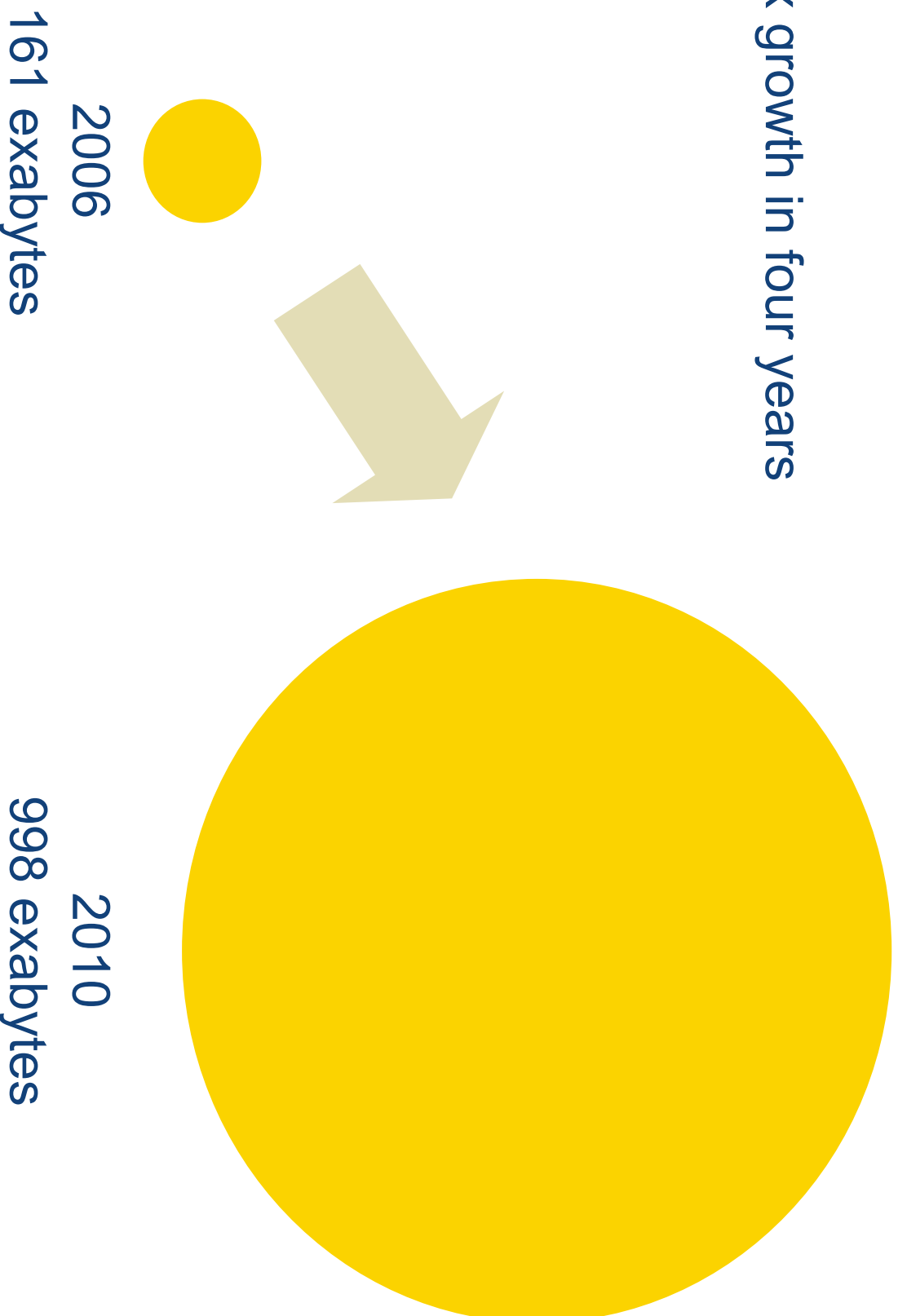


# And it's Difficult When the Sand Continues to Shift ...



# Information Created, Captured and Replicated

6x growth in four years



# The Information Explosion: 988 Exabytes of Digital Data Will be Generated in 2010



Of the 988  
exabytes

692 will be user-  
generated\* content

\*Consumers and workers  
creating, capturing or replicating  
personal information

Of the 988  
exabytes

859 will be touched by  
an organisation\*\*

\*\*Transported,  
hosted, managed or  
secured  
(Exabyte = 1 quintillion/10<sup>18</sup>)

Source: *The Expanding Digital Universe*, IDC, March 2007, sponsored by EMC

# 2x Growth in Worldwide Installed Device Base



- IDC estimates that by 2010:
  - The number of camera phones, cameras and PCs in use will reach almost 2 billion
  - There will be 500 million new Internet users
  - There will be 600 million new mobile phone users
  - IP networks will be expanded — voice, video, building automation
  - New devices — RFID, sensors, machinery, surveillance will become ubiquitous

Consequence: Between 2007 and 2010  
IT infrastructure and architecture  
increasingly become business issues



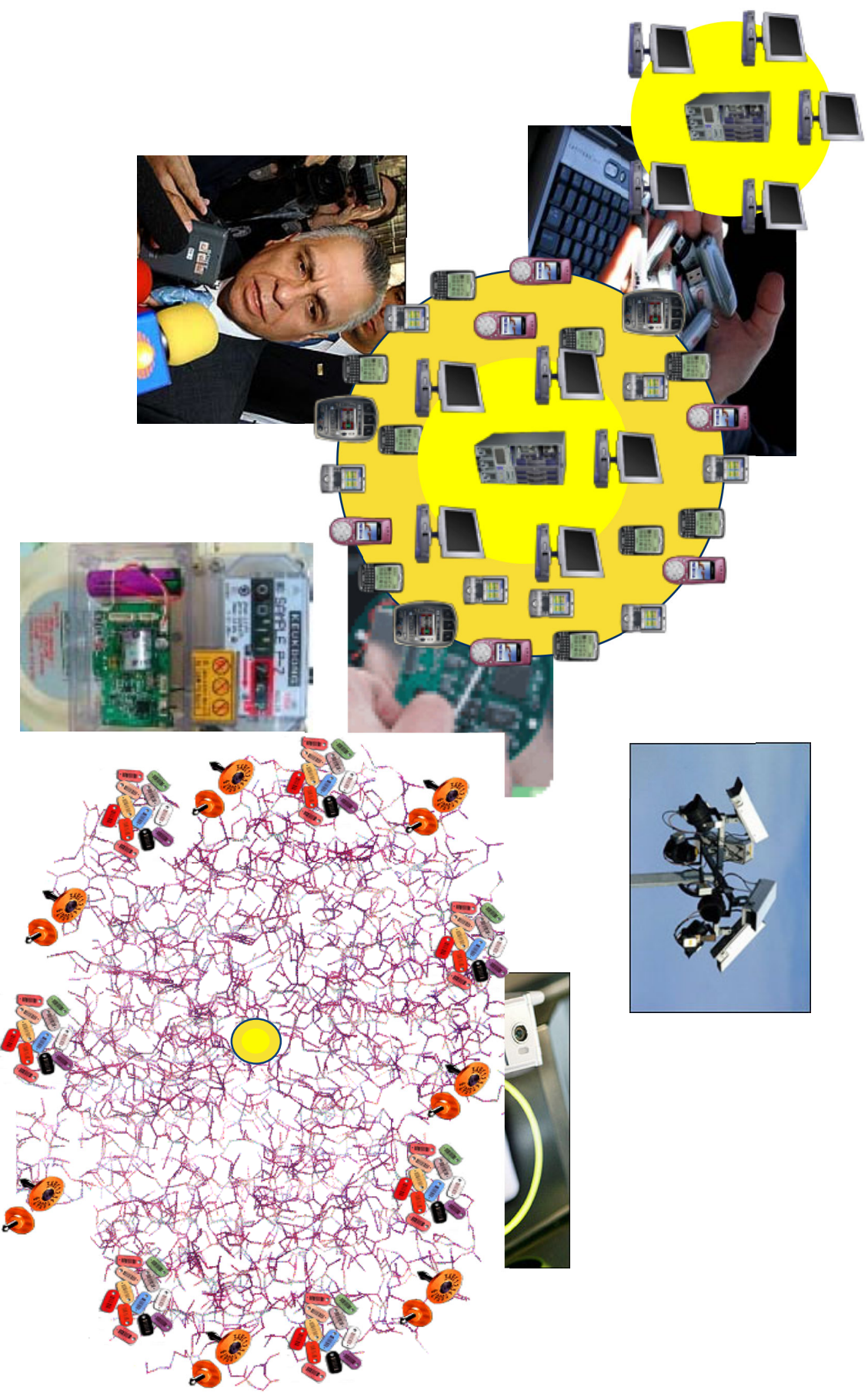


# The Mayhem Explosion

- The number of reported IT security vulnerabilities continues to climb
- Attacks are more frequent and increasingly sophisticated
- Hacker motivations have changed
- Development of new organisational information infrastructures will be required
- Mandatory reporting is coming

Consequence: IT will be required to spend more time in the boardroom

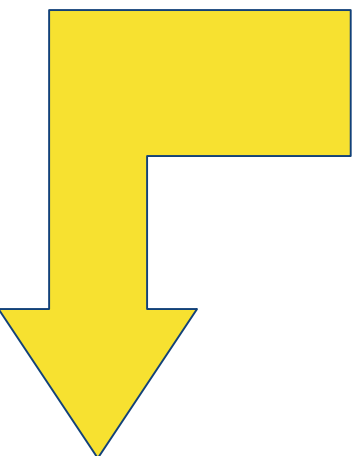
# Pervasive Computing and the Exploding Network Edge





# Implications for CEO/CIO Agendas

- Customer-driven markets
- Security and information protection concerns
- Regulatory/legislative pressures
- Internal organisational conflict
- Need for silo-busting change agents
- Global drive for competitive advantage
- New efficiency and productivity pressures
- Contingency pressures
- Dependence on IT



- Complex cross-functional systems and processes
- Significant increase in transactions
- Pressure to respond quickly
- Increasing compliance mandates
- Architectural quandaries
- Increased user involvement
- Process ownership issues
- Enormous security challenges
- Skills and staffing issues



# IT Applications Struggle to Keep Up .....



- Application-oriented architecture
  - Suites replace standalone apps — ERP, CRM, SCM
  - Client/server architecture
  - Web-enabled then Web-applications
  - Modularity
  - Reusable applications
  - Automation of mechanistic processes
  - Intelligent processes
- Transactional
- Mainframe-based
- Organisations that innovate by how they operate
- Move from horizontal to vertical
- Batch processing
- Basic collaboration
- Enterprise application integration tools



Reengineered processes

Hard-coded process change

Massive organisational change

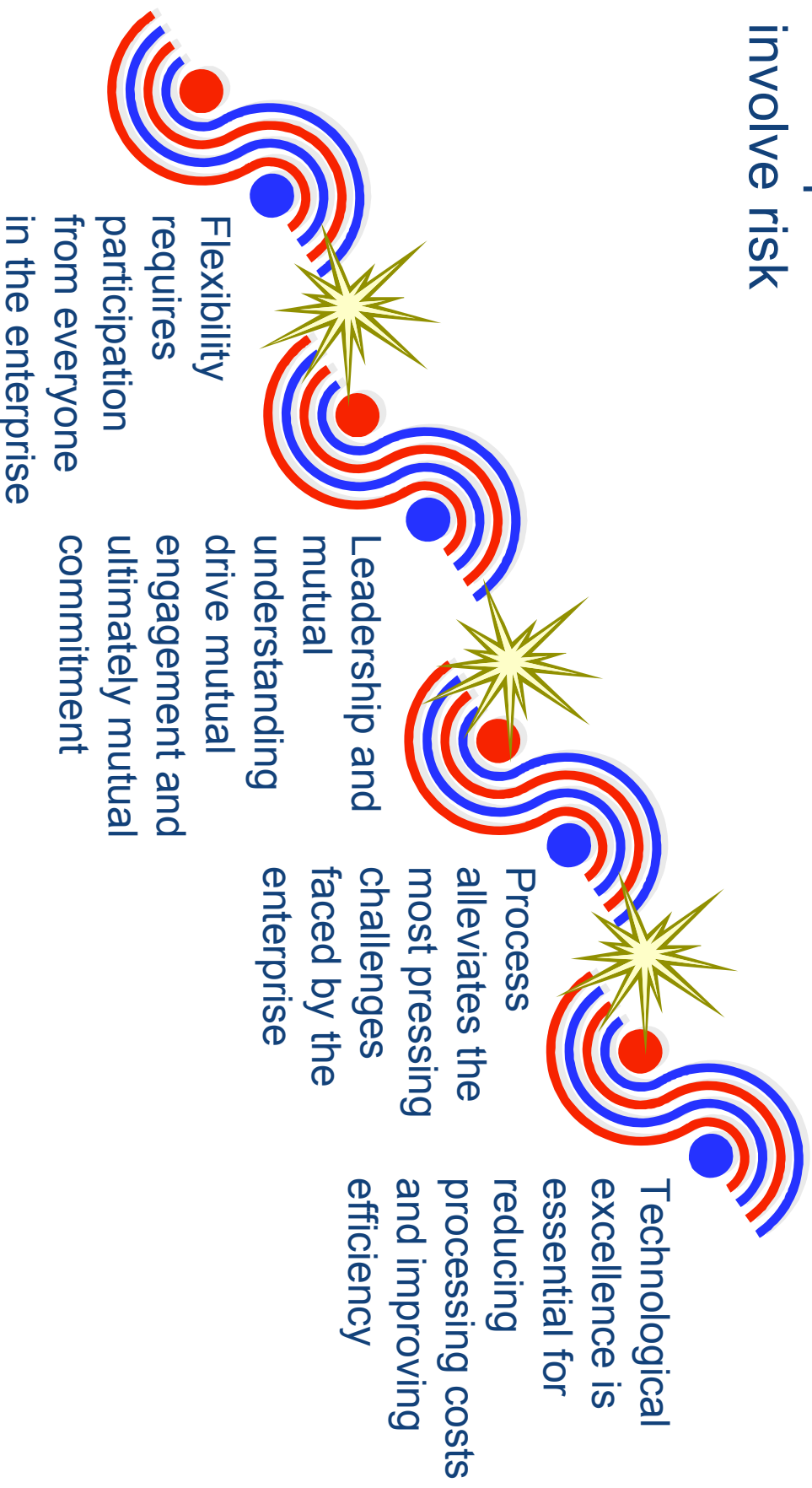
Continuous process optimisation

Ability to dynamically adjust business rules

Event-driven processes

# Achieving Flexibility is a Challenge ...

... the potential discontinuities  
involve risk



# Achieving Flexibility: The Five Rights



- ✓ The right reasons
- ✓ The right approach
- ✓ The right resources
- ✓ The right tools and techniques
- ✓ The right partners

# The Right Reasons



- ✓ There is a desire for profitable, incremental change
- ✓ Line-of-business and IT executives mutually agree on the need to be flexible



# The Right Approach

- ✓ Think big, start small
- ✓ Every organisation has a different starting point, most important first step is to understand where you are
- ✓ Develop a clear understanding of your current situation using a pre-assessment tool similar to the one IDC asked you to complete prior to this event
- ✓ Continuous improvement is at the heart of achieving incremental profitable growth — plan to fine tune your applications and processes on a regular basis
- ✓ Process improvement and related application development are iterative — there is no such thing as a "finished" process

# The Right Resources



- ✓ Executive sponsorship is needed for any major change initiative; achieving real value from IT is no different
- ✓ Subject matter experts for each area of the business
- ✓ Project managers who are schooled in business and in IT

# The Right Tools and Techniques

- ✓ The product/tool landscape is changing rapidly
- ✓ Service-oriented architecture is a significant contributor to business flexibility
- ✓ Ensure there is a robust development and implementation methodology as well as a tool
- ✓ Investigate the use of predeveloped foundational models for vertical and/or horizontal processes
- ✓ Validate your choices using proof of concept

# The Right Partners



- ✓ It's important that your relationship with your vendor has the right chemistry
- ✓ Vendor commitment to SOA and intelligent business process management must be strong
- ✓ Supplement existing skills with an integrator if necessary



# In Conclusion ...

 Profitable growth cannot be achieved just by "doing more of the same". Staying ahead of the pack requires an organisation to continue to change at a steadily increasing pace.

 Business flexibility is a key element of any growth strategy, but it is constrained by IT solutions that are specifically aligned with a single (often linear) process.

 Business and IT must be considered as interdependent entities: one cannot succeed without the other.

 Without complete commitment to the principles espoused in an enterprise architecture, it is unlikely that IT and business alignment can ever be achieved.

 Without the will to change, no tool, technique or technology can make it happen, and without change it is unlikely that you can achieve maximum business value from IT investments.

Thank You



Questions?

[jduffy@idc.com](mailto:jduffy@idc.com)

