

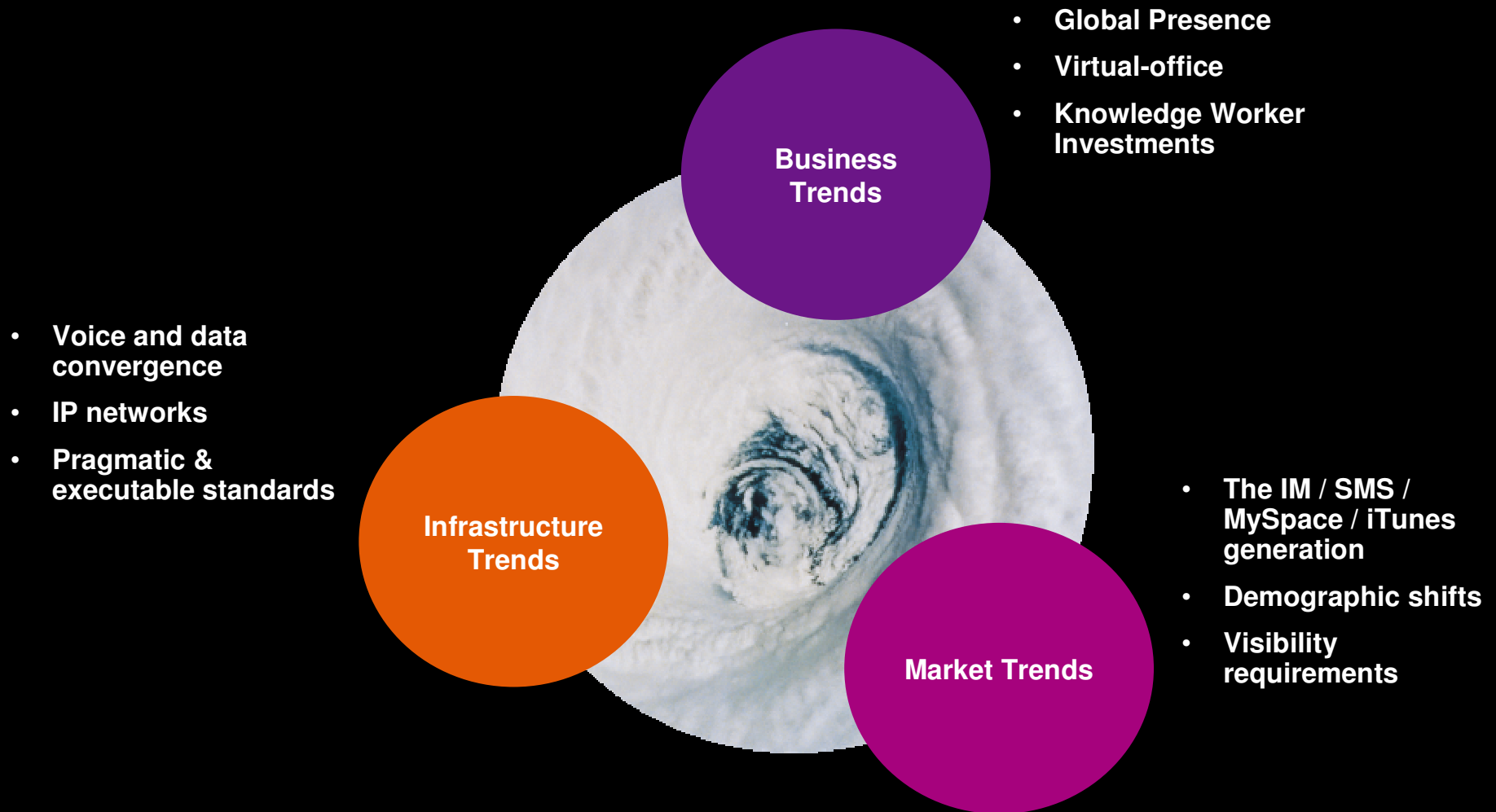
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# The Perfect Storm of Convergence

## *The Pressure to Be Agile – Risks and Rewards of Embracing the NEW*

**John C. Carrow**  
Senior Vice President  
Unisys Corporation

# The Perfect Storm for Convergence



# What Keeps CEOs Awake at Night?\*

• Top-line growth	37.5%
• Profit growth	36.1%
• Consistent execution of strategy	33.4%
• Speed, flexibility, adaptability to change	33.1%
• Customer loyalty/retention	29.4%
• Stimulating innovation	23.9%
• Corporate reputation	22.9%
• Speed to market	22.7%
• Product innovation	20.8%
• Improving productivity	20.3%

*\* Source: The Conference Board CEO Challenge 2006*

# What Keeps CIOs Awake at Night?\*

- Data visibility across business units, geographies
- Managerial dashboards/early warning indicators
- More rigorous documentation and risk management
- Proactive identification of tech-enabled opportunities to boost business value
- Greater systems flexibility



\*Source: Working Council for Chief Information Officers

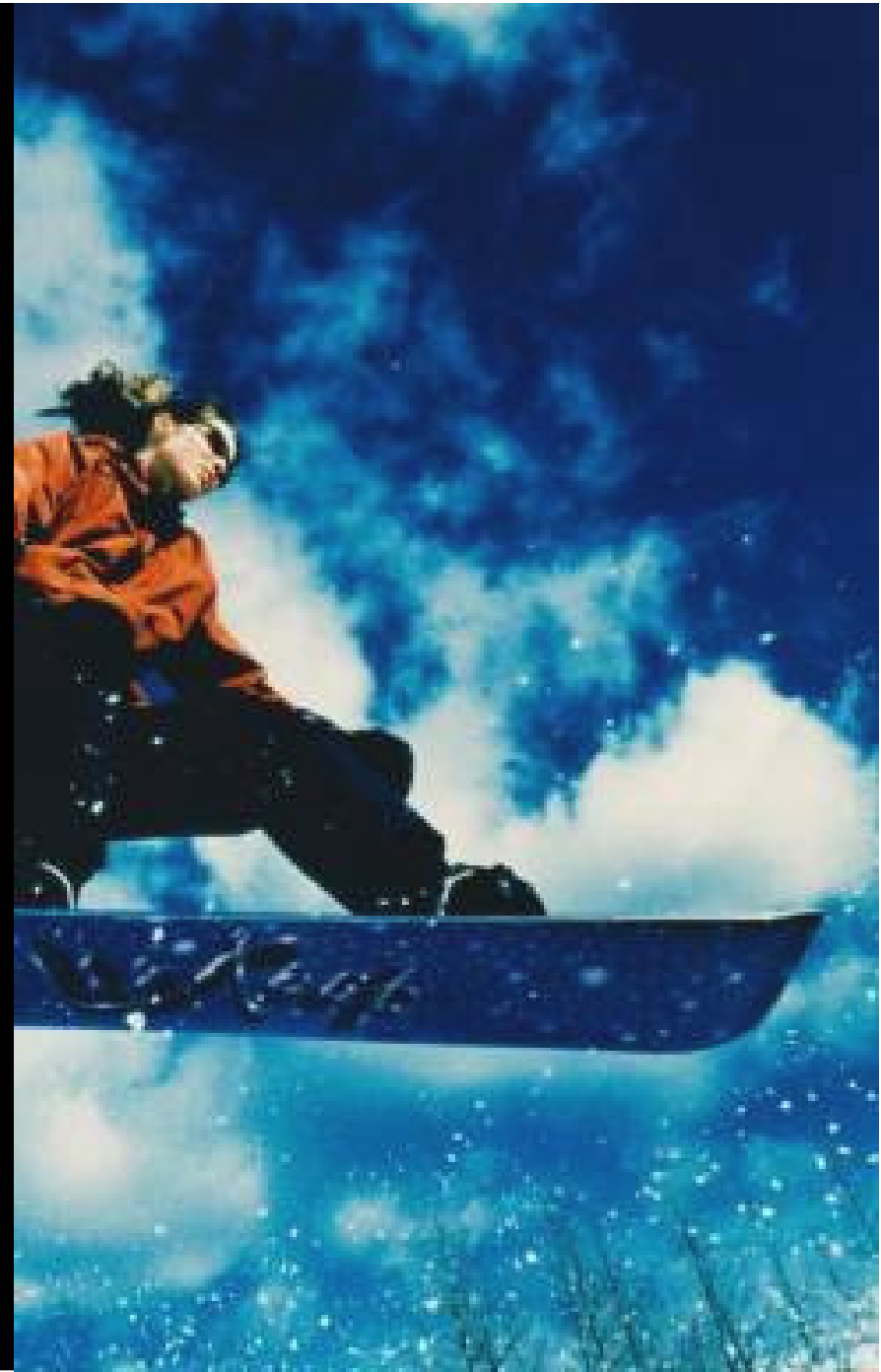
# What Is Business Agility?

Business Agility is the power to change quickly – based on a view of your special world in the context of your competition and customers.



# Long-Term Strategic Issues That Drive “Business Agility”

- Improved Technology Providing Better Information
- Regulatory Oversight Pushing Transparency
- The “Extended” Enterprise is today’s business
- Globalization is a Way of Life
- Competitive Focus on Cost & Value





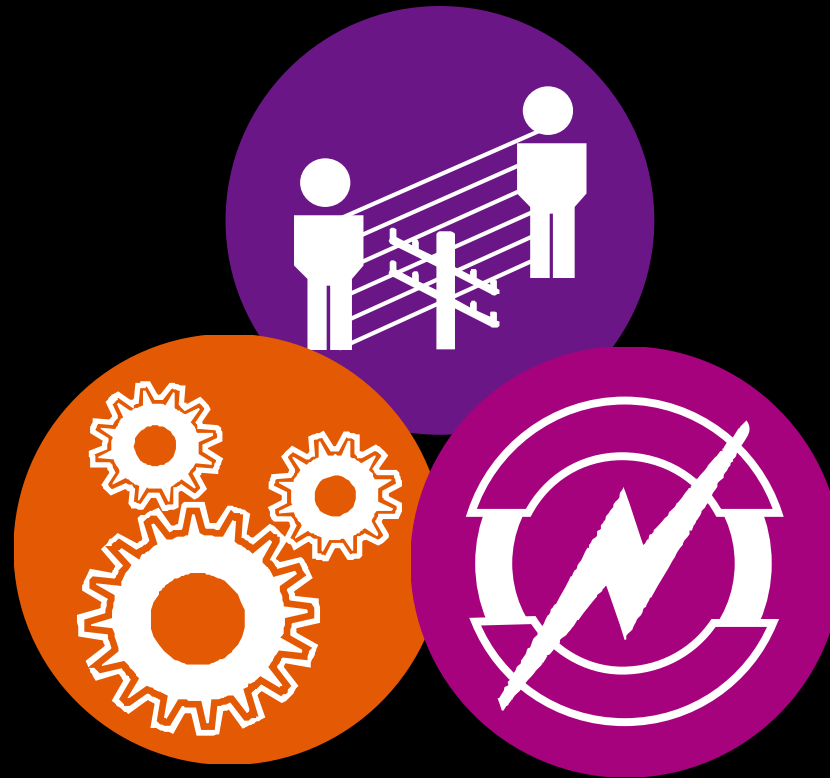
**“The species that survived were not the most intelligent.  
They were the most adaptable to change.”**

Charles Darwin



# The Emerging Technology Framework

## Collaboration and Communications



**Real-Time Infrastructure**

**Application Modernization  
(Open Source)**

# The Emerging Technology framework

Collaboration and Communications



Real-Time Infrastructure

Application Modernization  
(Open Source)

# Collaboration and Communications

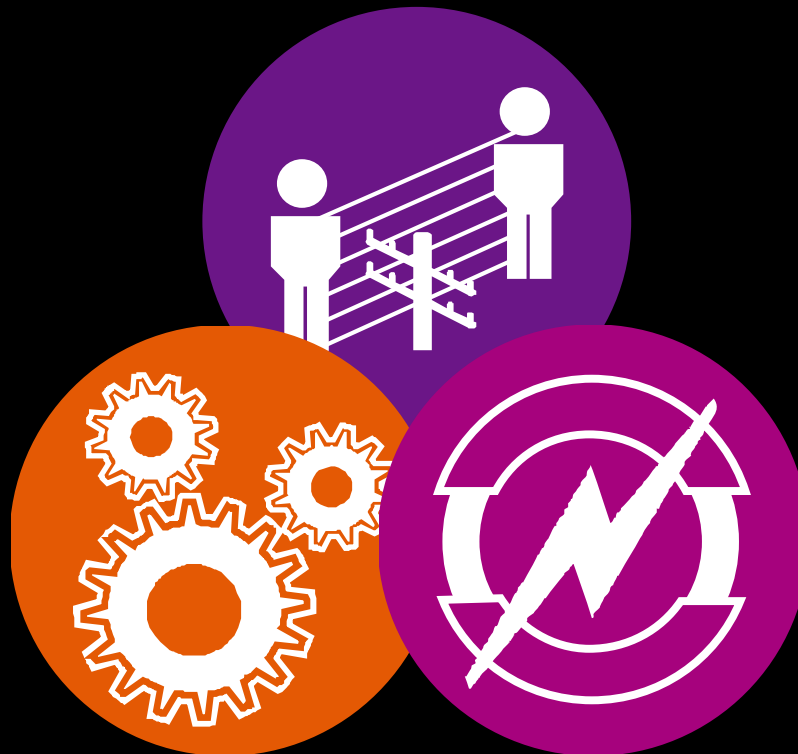


**Real-Time Infrastructure**

**Application Modernization  
(Open Source)**

**GLOBAL SOURCING**

## Collaboration and Communications



**Real-Time  
Infrastructure**

**Application Modernization  
(Open Source)**

# What is Real-Time Infrastructure?

A future-state infrastructure  
where IT assets are  
virtualized, self-managed,  
and business-driven,  
producing greater enterprise  
agility and lower IT costs

## Key Elements Defined

### **Future-state infrastructure**

- An idealized target architecture, achieved incrementally through a series of transformation steps

### **IT assets**

- Computing, data management and application resources

### **Virtualized**

- Physical assets treated as a shared pool of resources

### **Self-managed**

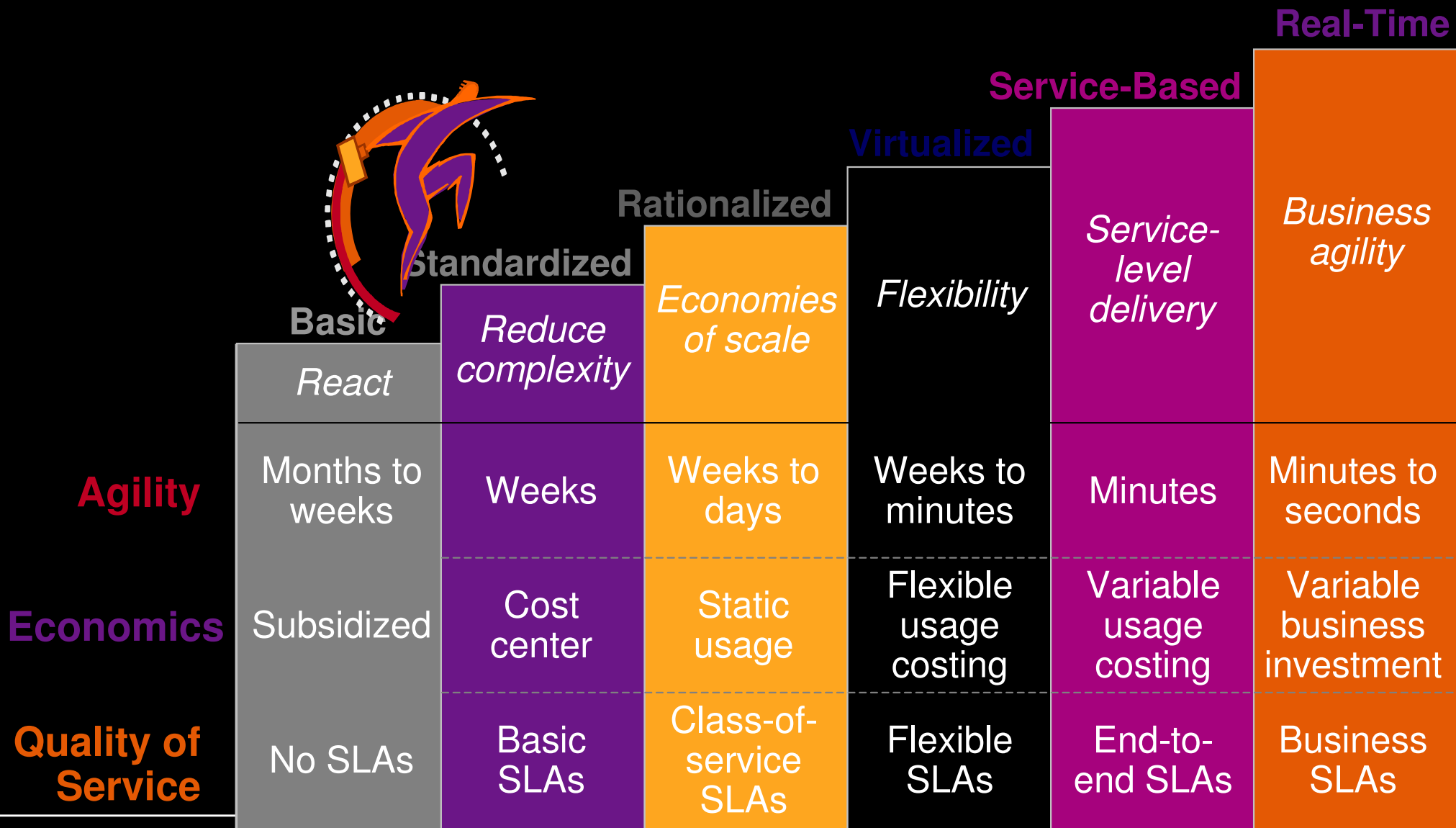
- Deployed, allocated and healed with little or no people intervention required

### **Business-driven**

- Resources allocated dynamically based on current business priorities

# Journey to Real-Time Infrastructure

Agility, Economics, Quality of Service

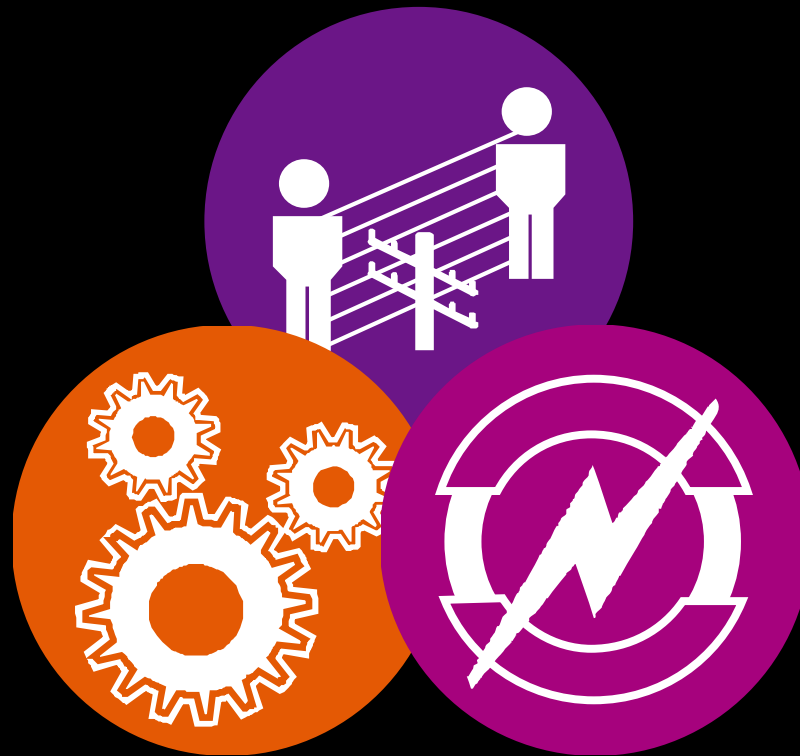


# Applying Virtualization

- **Server Consolidation and Containment**  
Eliminate server sprawl by deploying systems into virtual machines
- **Infrastructure Provisioning**  
Reduce the time for provisioning new infrastructure to minutes
- **Business Continuity**  
Reduce the cost and complexity of business/service continuity by **encapsulating entire system files**
- **Enterprise Desk Top**  
Secure unmanaged PCs – or provide standardized enterprise desktop environments on servers.
- **Legacy Application Re-hosting**  
Migrate legacy operating systems and software applications to virtual machines



## Collaboration and Communications



**Real-Time Infrastructure**

**Application  
Modernization  
(Open Source)**



# Open Source – what is it?

- **Internet-enabled distribution** of software
- **Services and support** business model rather than licenses
- **Visibility – Not a Black box**
  - Free enterprise quality products that ship with the source code
- Innovative **distributed** software development process – New Innovation
  - **Collaborative** Worldwide developer-led **grassroots movement**

## Bottom line

- No-cost license, high-quality, global Open Source is reshaping how software and IT companies do business
- Separates the application from being tied to the underlying infrastructure
- Change Agent

## Application Stacks

- CRM Stack (Sugar CRM)
- ERP+CRM Stack (Compiere)
- CMS Stack (Alfresco, Plone)
- ELearning Stack (Sakai, Moodle)

## Developer Stacks

- Eclipse, Spring, Struts, Ant, Maven, CVS
- Java, EJB 3.0
- Linux, Apache, JBoss, MySQL

## Production Stacks

- Linux, Apache, MySQL, Open SSL
- JPortal, OpenLDAP
- PHP/Perl/Python

# Open Source – Expectations & Challenges

“Within four years from now we could have more Linux in data centers than Unix, certainly in Europe.”

**Meta, November 2004**

Linux is the fastest-growing server OS. Gartner Dataquest expects Linux shipments to increase from 1.4 million units in 2005 to 2.4 million in 2010, representing a compound annual growth rate (CAGR) of 11.7 percent.’

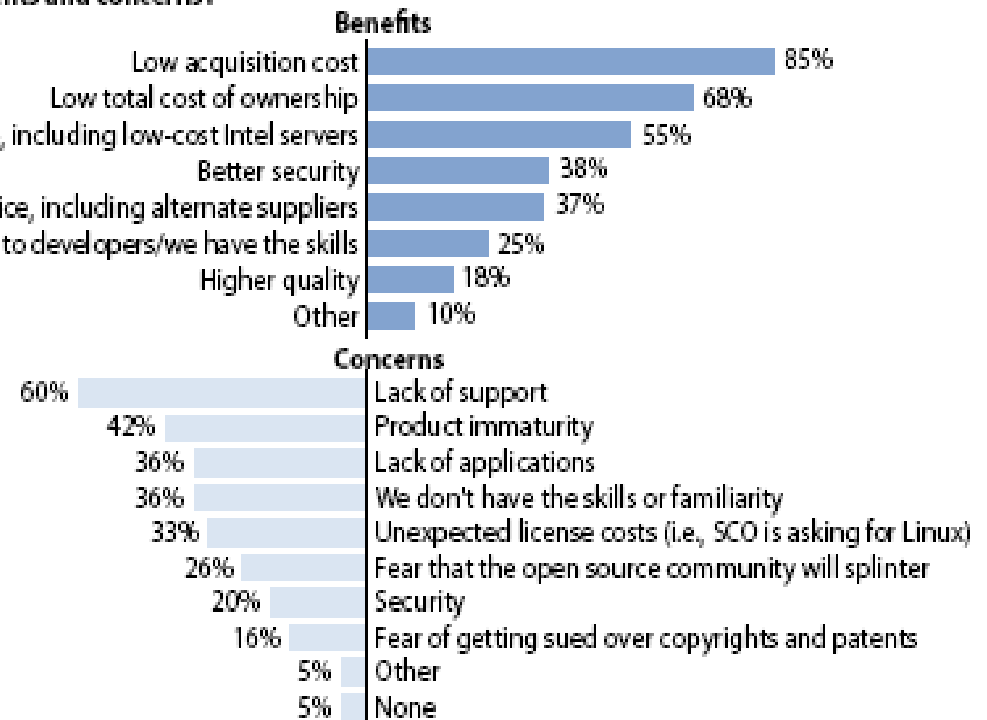
**Gartner, January 2006**

“Consider Linux safe to deploy not only for network edge and simple Web servers, but also for mid-tier and moderate database applications.”

**Gartner, November 2005**

Figure 6 Cost Is The Biggest Benefit, But Support Is A Big Concern

“What are your benefits and concerns?”



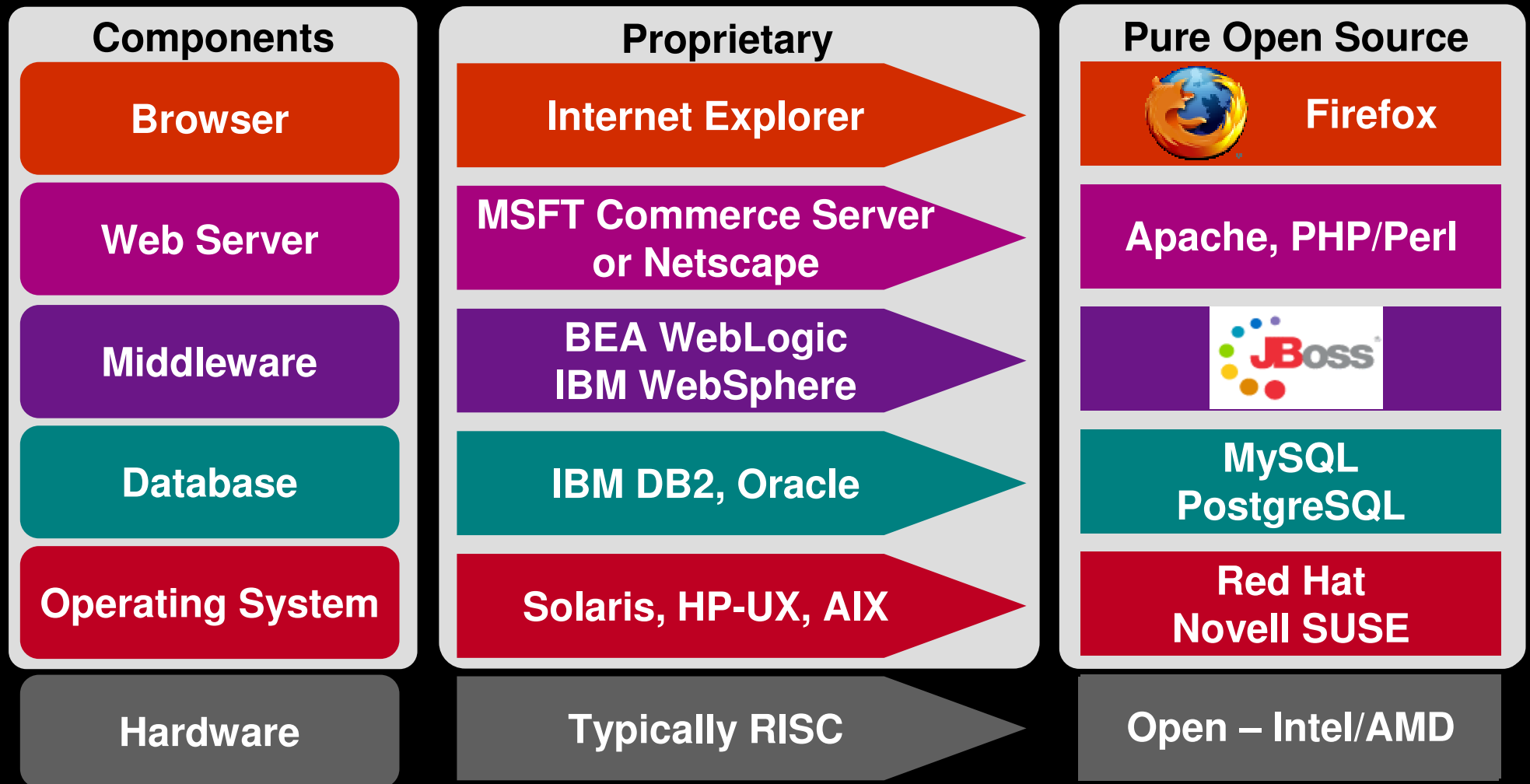
Base: 95 IT decision-makers using or planning to use Linux or open source in the next 12 months (multiple responses accepted)

Forrester Research, June 2005

# Where Would Organizations Use Open Source?

- Migration/re-platforming from UNIX infrastructure
  - Cost, licences, maintain SLA, retain closed applications (Oracle, SAP....)
  - Standardisation, virtualisation included in the target environment
- New application development
  - Web based, open standards, access to innovation pool, Java/J2EE...
- SOA (Service Oriented Architecture)
  - Open standards wrapped around legacy apps, connectors, portals...
- Open Source applications
  - Databases, business applications...
- Bottom Line – cost, flexibility, choice, innovation, competitive advantage

# Moving to a Hybrid Stack

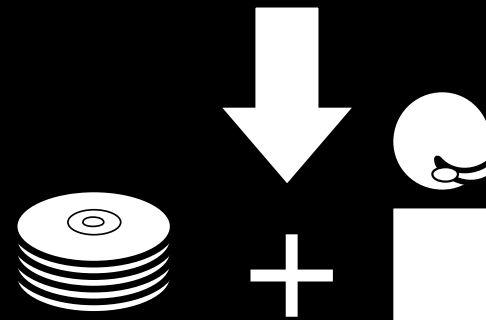
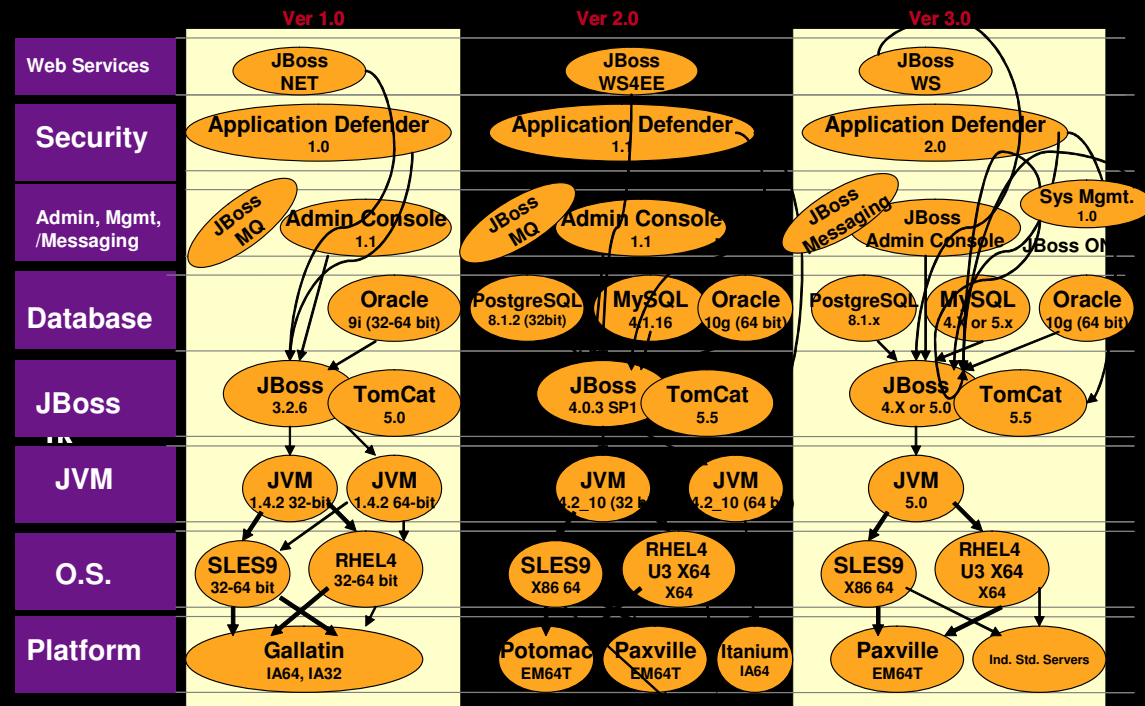


# Some of the Issues with Stacks

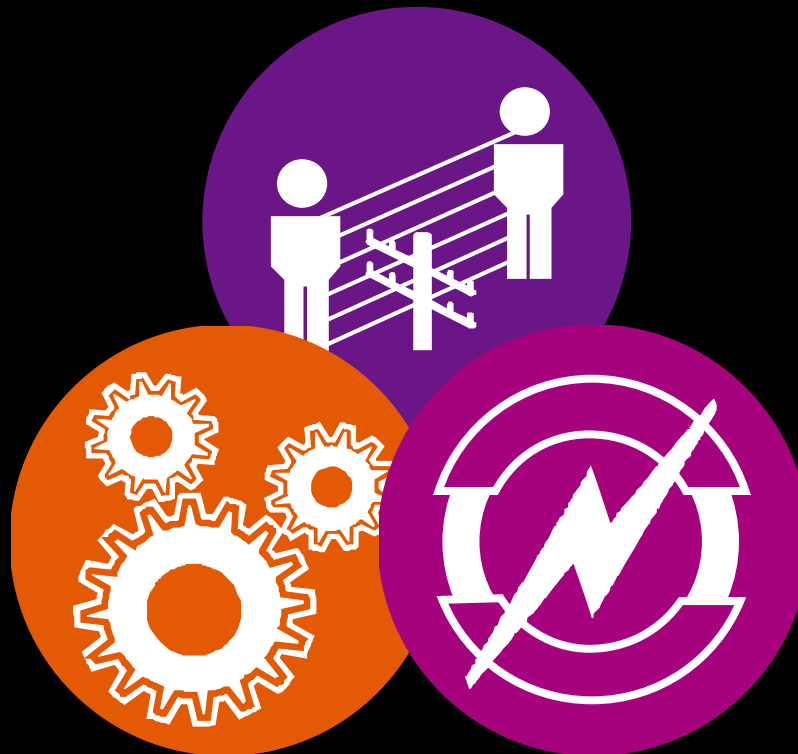
The complexity and cost of managing stack component releases, patches and revisions is significant

The ideal – one point of contact & someone to sort out what works with what

Provides subscription packages for plug-n-play convenience with enterprise software and support options



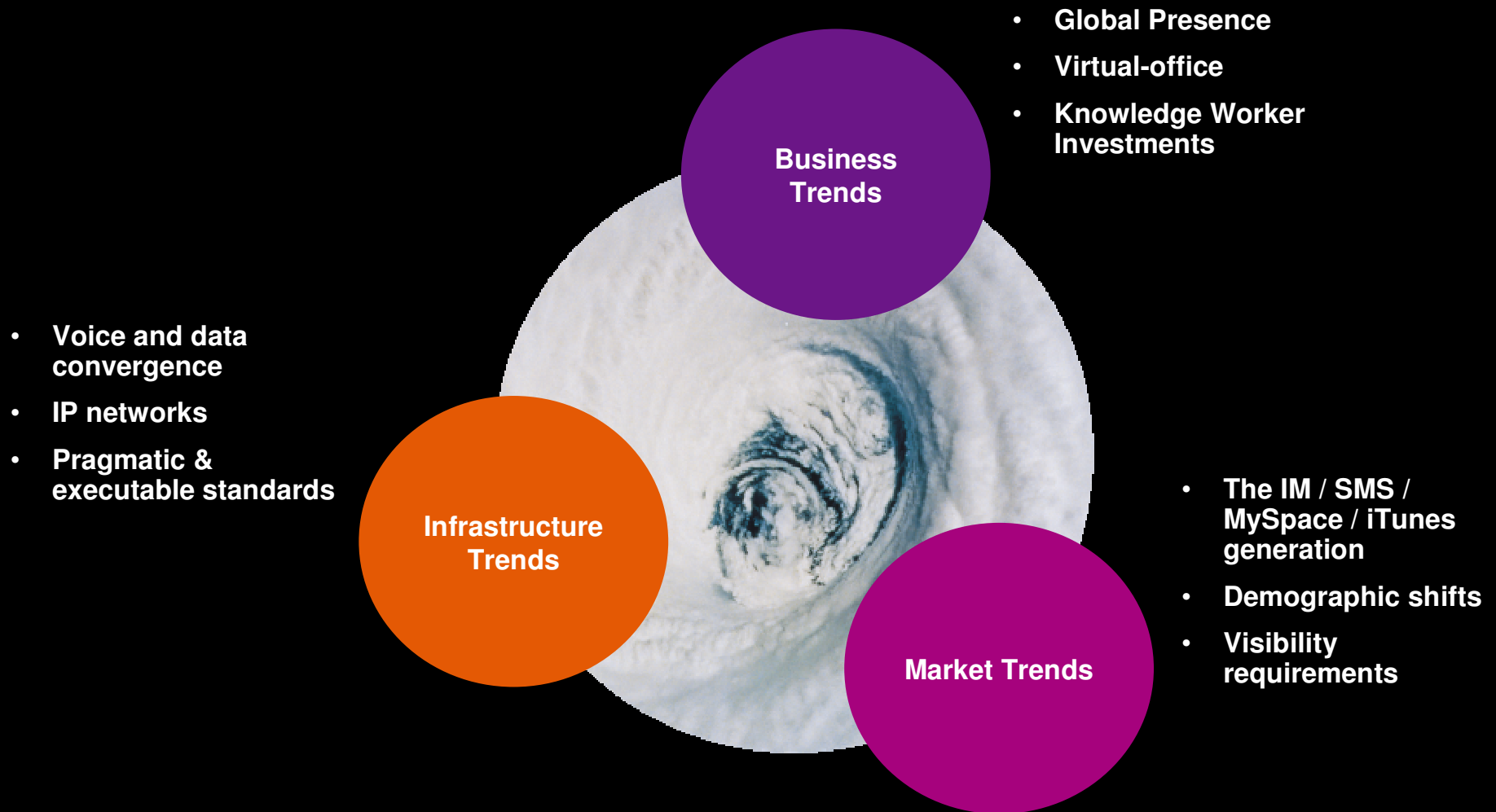
# Collaboration and Communications



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# The Perfect Storm for Convergence



# Architecture: **Functional User View**

## End User:

- Unified familiar experience
- Find & connect with people
- From any device, any application

## IT & Developer:

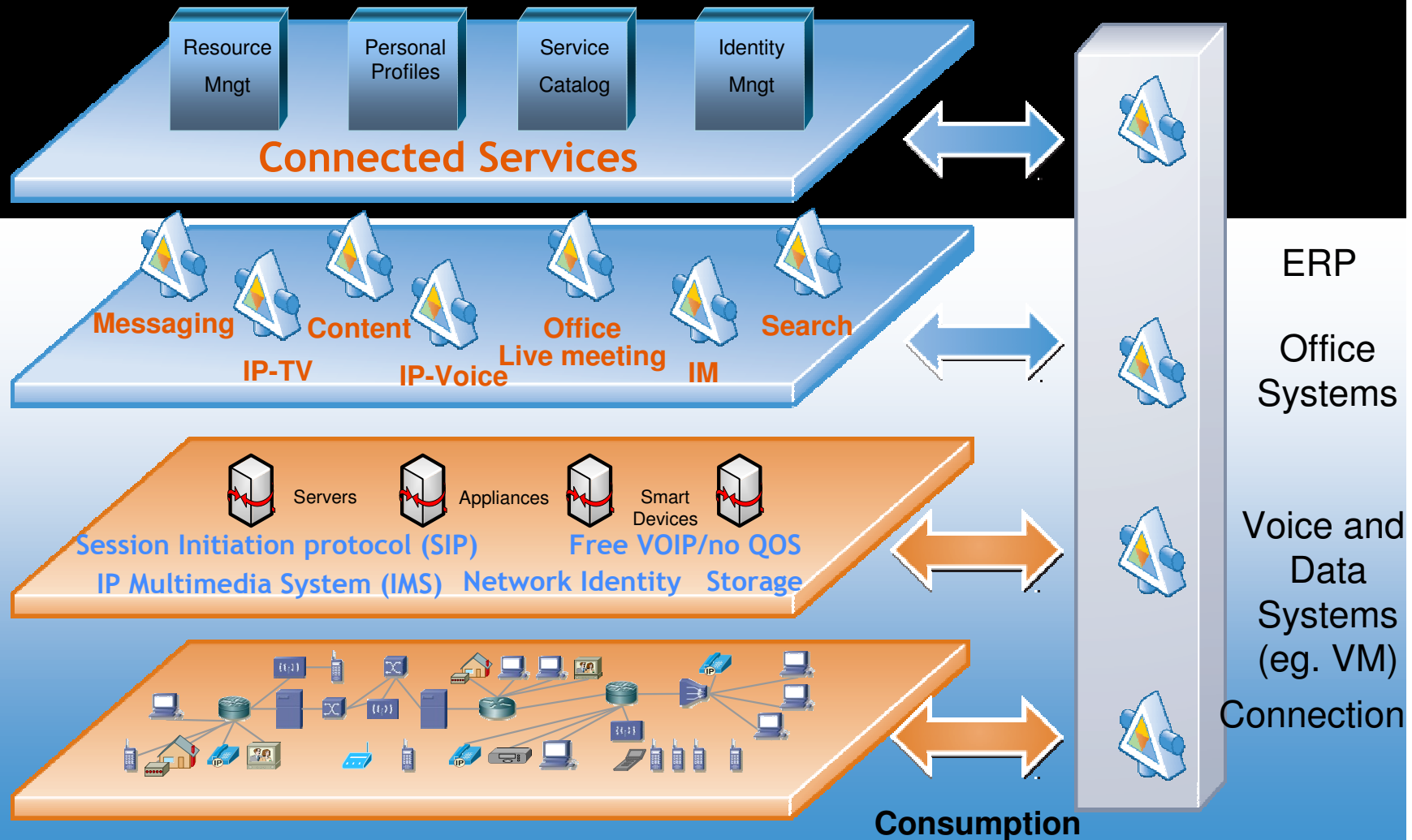
- Manageable
- Fast time to solution
- Low TCO

**Person centric: call someone vs. phone number**





# Service View



# Architecture: IT Stewardship



Security



Core  
Applications



Network



Platform



Data Center



Operations

In most large organizations, application, voice, video and data infrastructures are supported by different teams.

Who has the authority, the capital, the support structures?

In pulling these items together, there is always a battle with inertia... who wants to give up their budget and potentially their domain?

This is perhaps one the largest challenges in taking advantage of CnC



**“The certainties of one age  
are the problems of the next.”**

R H Tawney

# What Do You Think?

We have tremendous innovation and great technology moving at us faster and more integrated than ever. The biggest barrier to absorption of this technology is the massive amount of installed base.

The issues are:

- Organizations are stove-piped
- Depreciation impacts the business case
- Technology requires up-skilling IT end users in tough times
- New technologies must be driven from the top
- We have so much already, it is hard to absorb more.... a key issue with the industry as a whole

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