



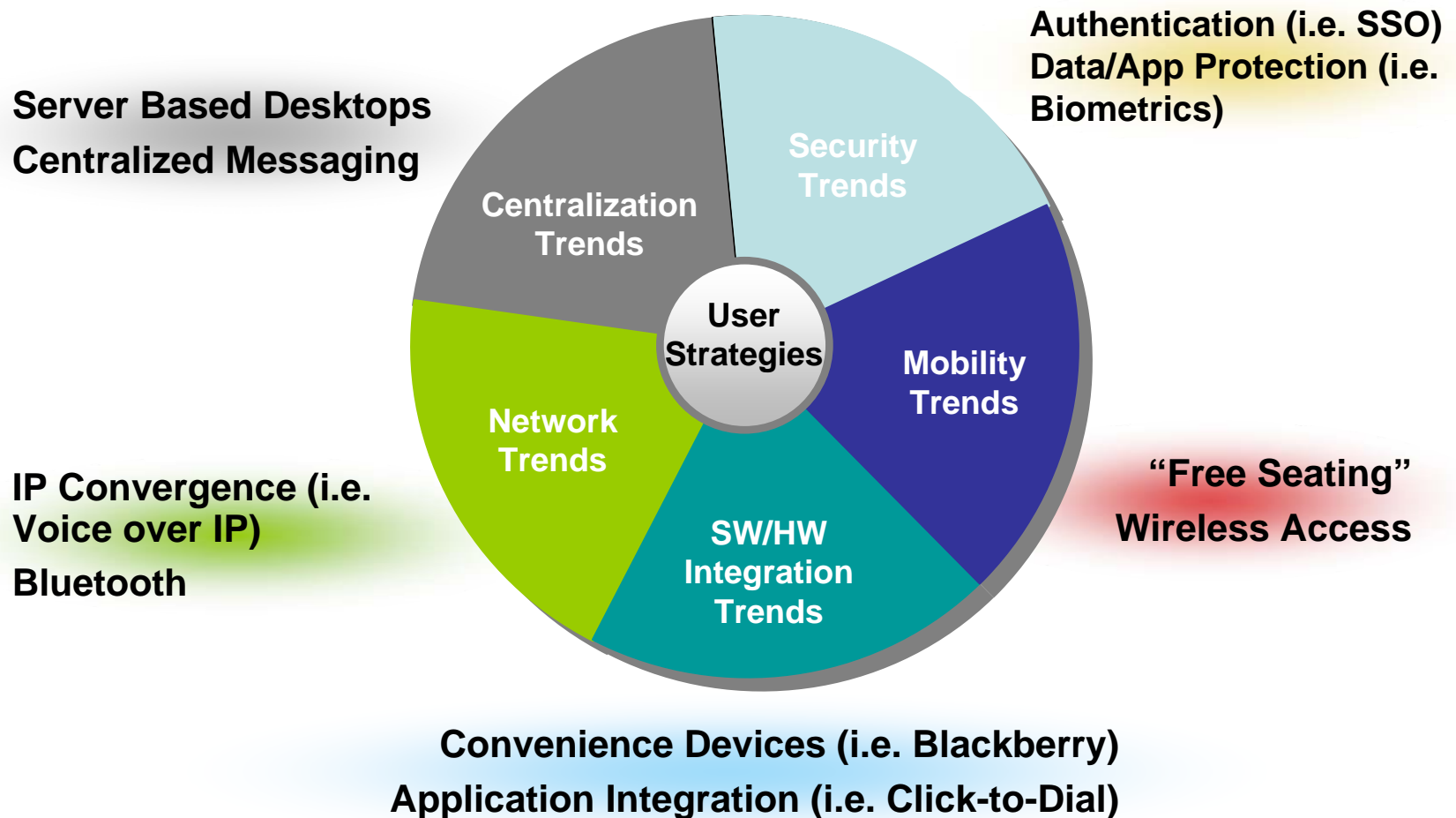
**uni.systems**

***TRANSFORM THE GOVERNMENT IT DATA CENTER  
INTO A DYNAMIC SERVICE - ORIENTED DELIVER  
CENTER***

**Antony Cassano**  
**Access & Security Solutions Division Manager**

# Technology Trends

Current technology trends promote the development of different user strategies base on diverse business requirements ...



# End user Evolution

## Mainframe Computers 1960's - 70's

Lots of zfold  
Paper - Very  
difficult for users  
to have DR  
access

**First**

## Minicomputer 1970's - 80's

Real time  
access via Wyse  
General  
Purpose  
Terminals –  
Connectivity  
meant that the  
users still had to  
be near the  
computers

**Second**

## PC's - 1980's Client Servers -1990's

Real time  
access, local  
analysis and  
graphical  
presentation of  
data.  
Networking is in  
its infancy, but  
not one cared  
since the data  
was at hand

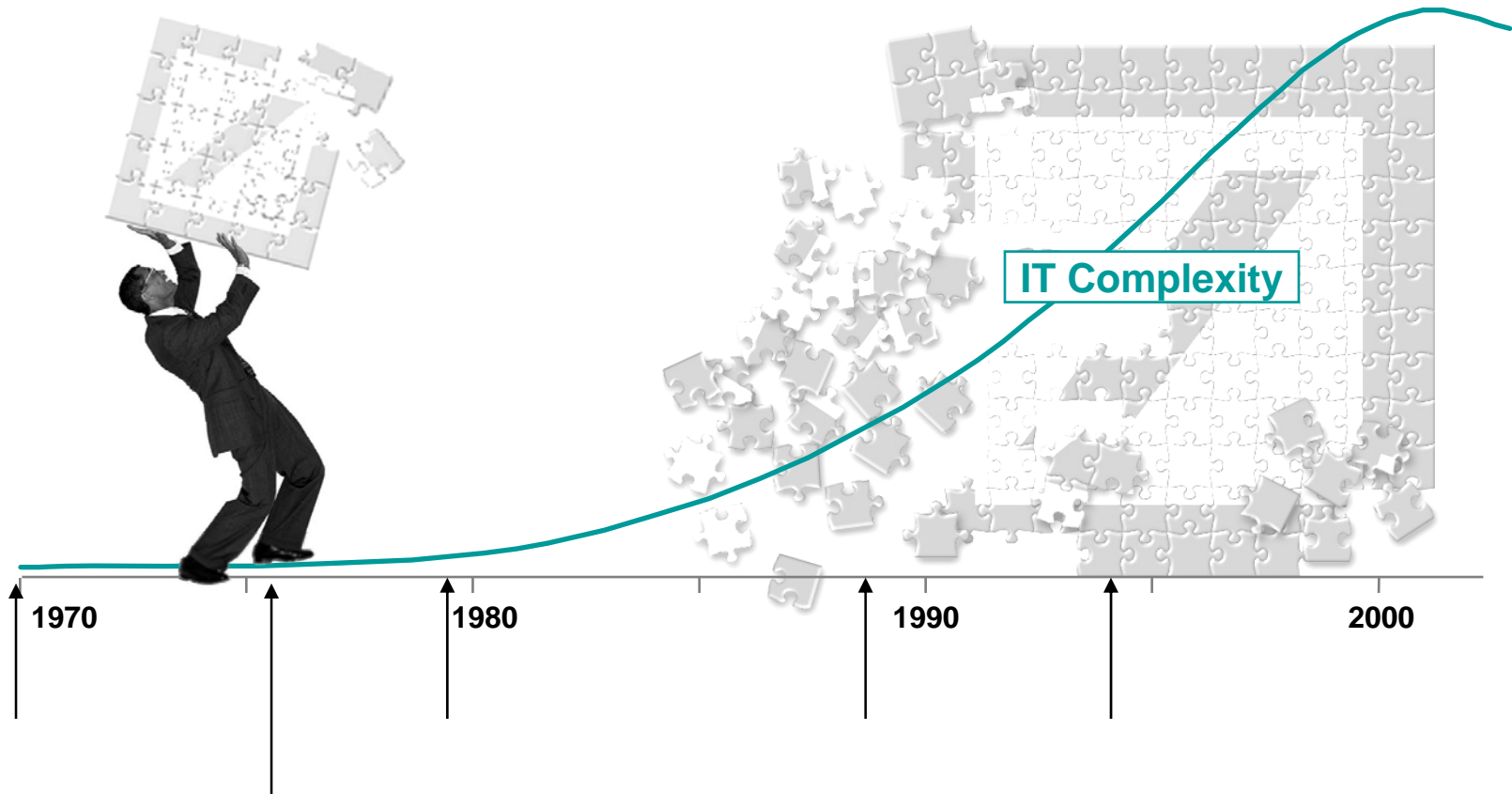
**Third**

## Thin Computing Now!

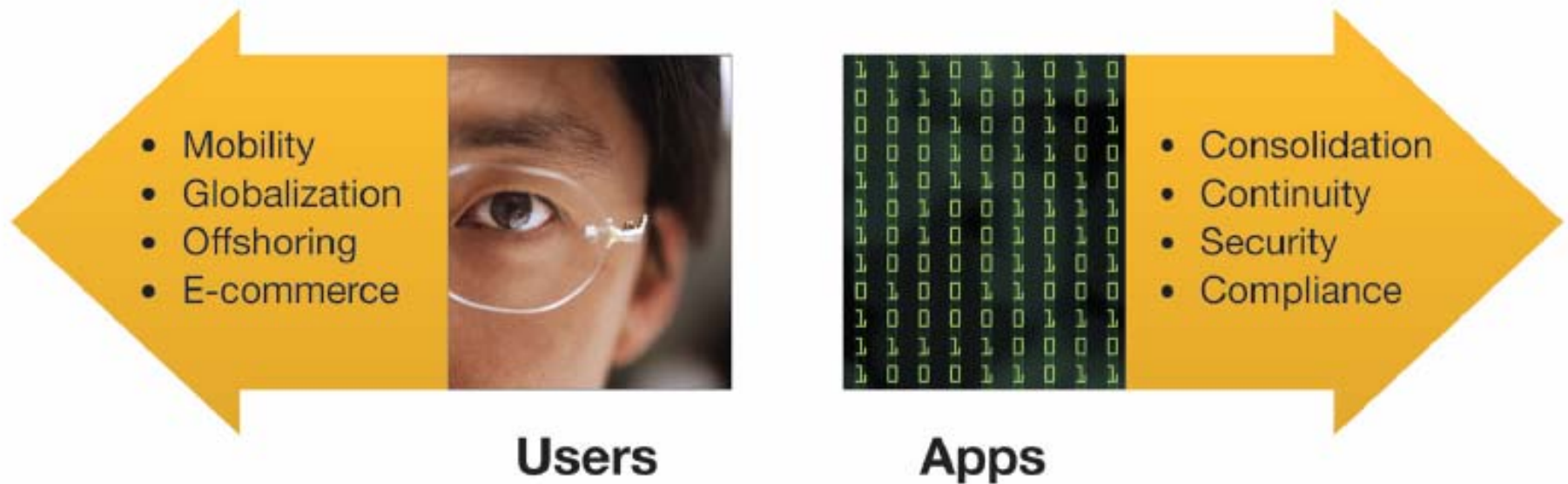
Online access  
with central  
control  
DR capabilities  
are dramatically  
simplified,  
however the  
users want even  
more!

**Fourth**

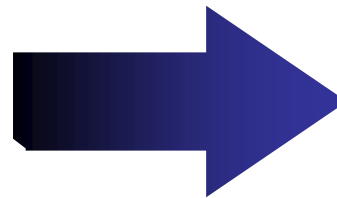
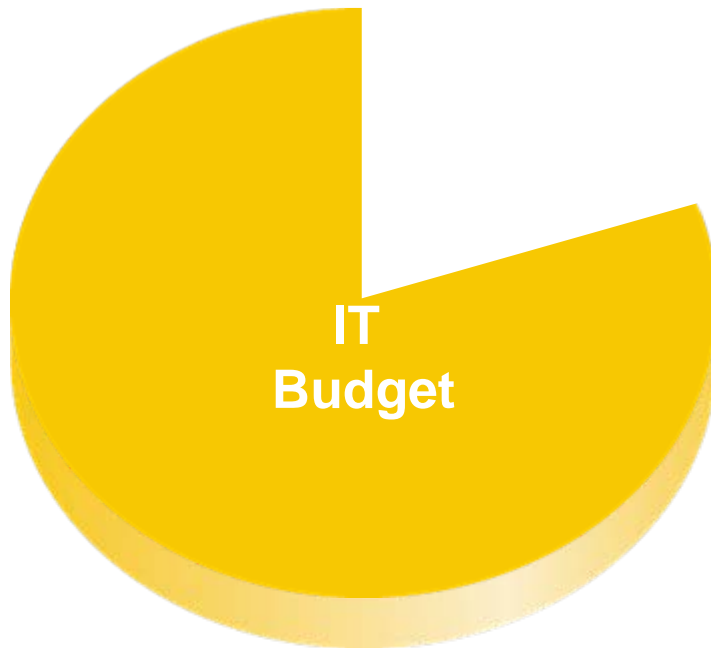
# The Price of Growth is Complexity



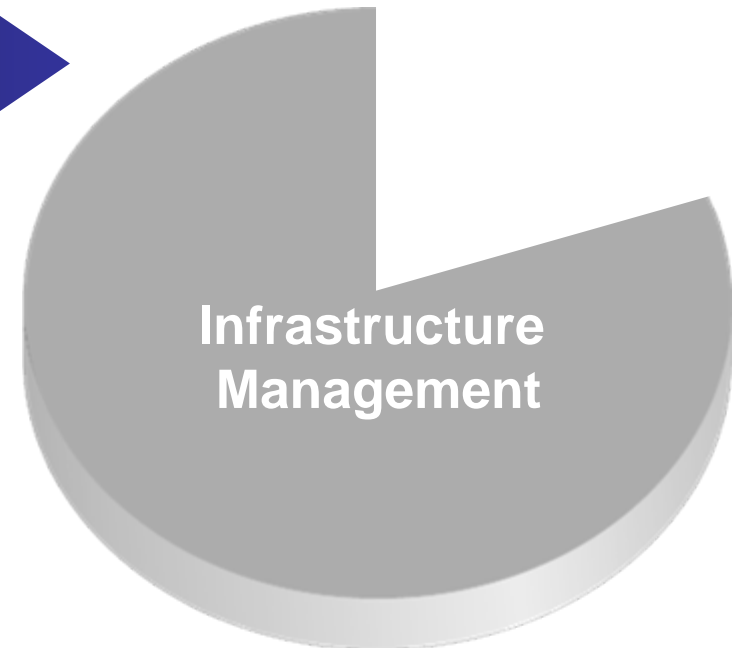
# Application Delivery Infrastructure



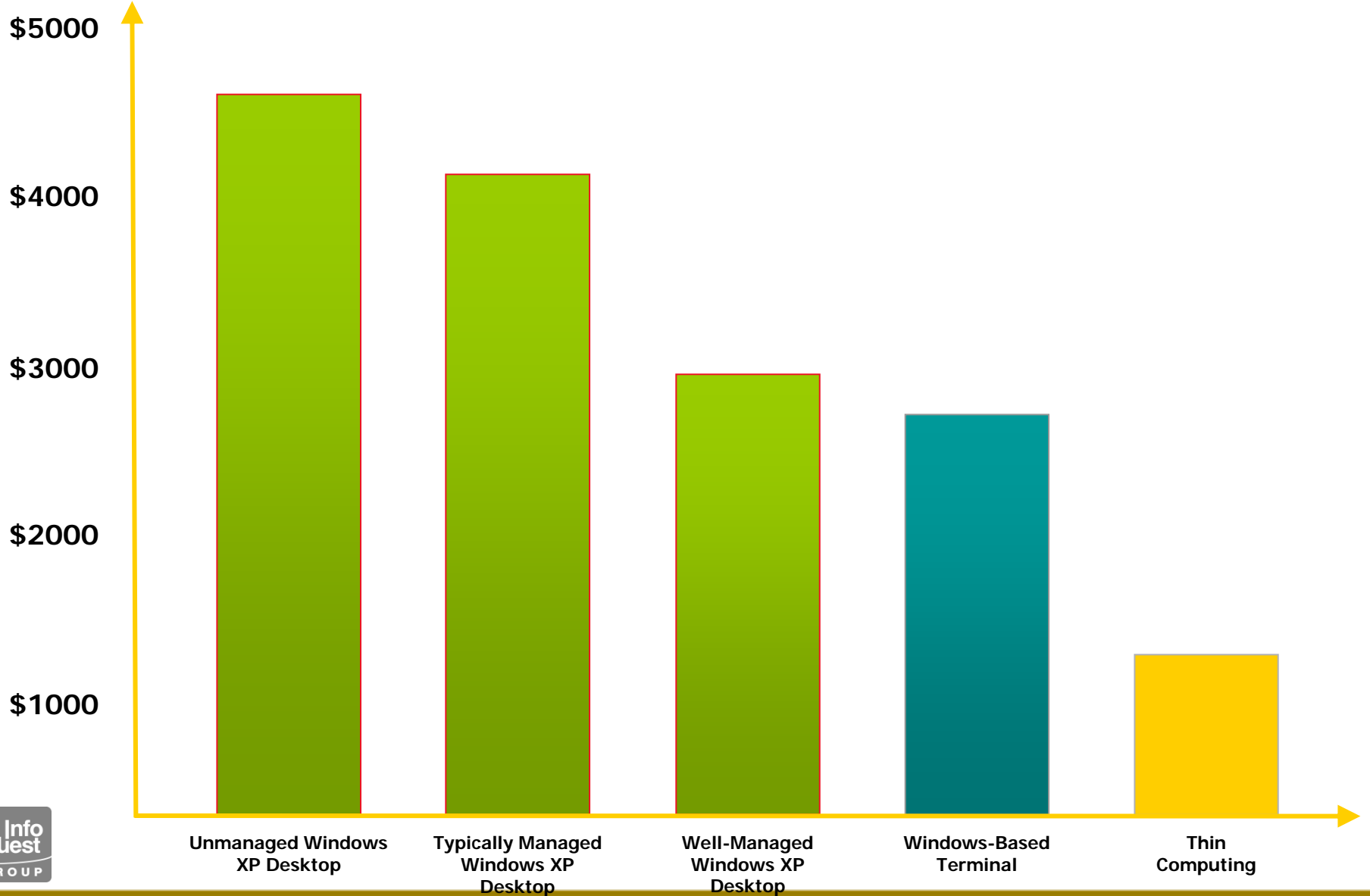
**80% Infrastructure  
Management**



**80% Desktop  
Management**

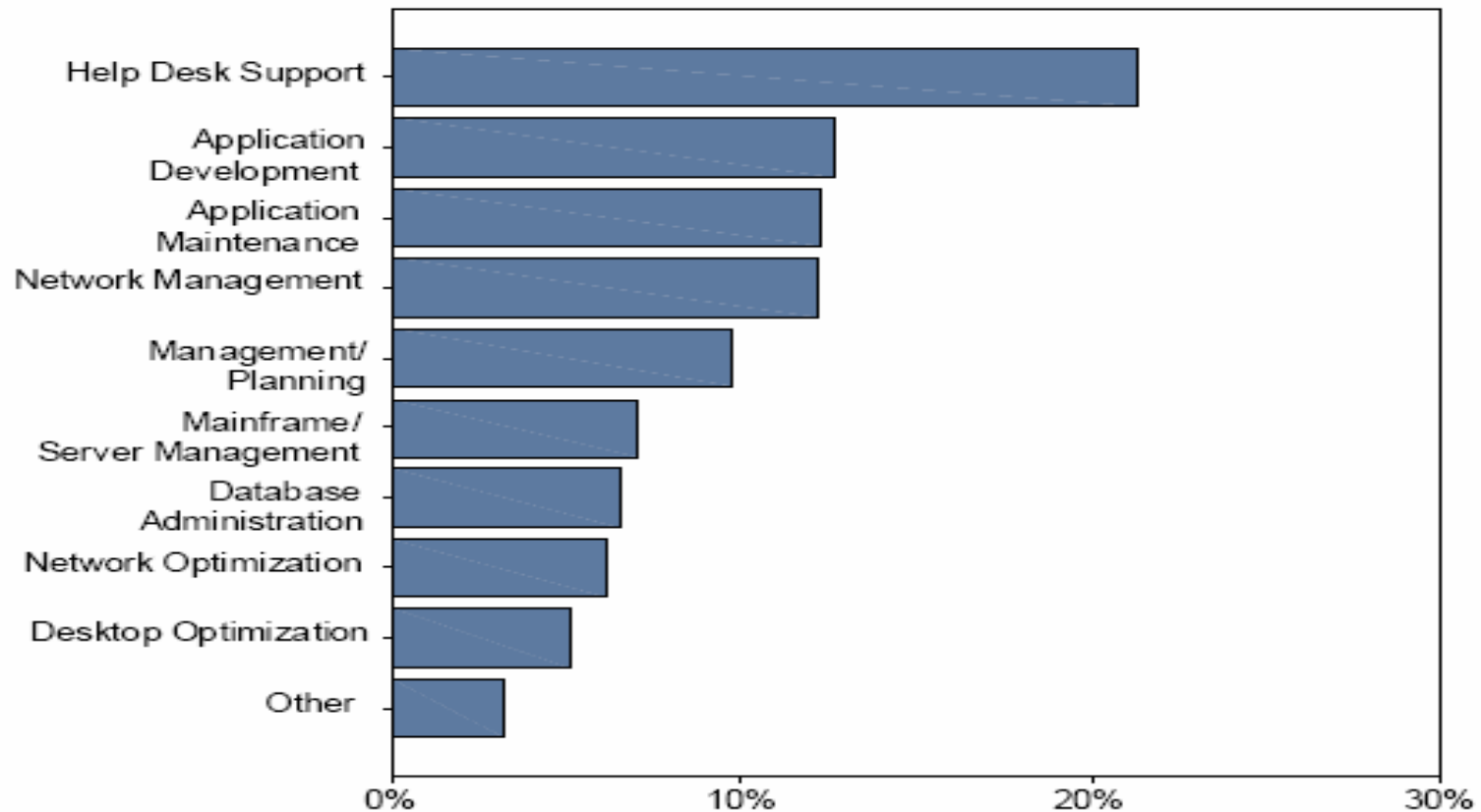


# Desktop Expenses



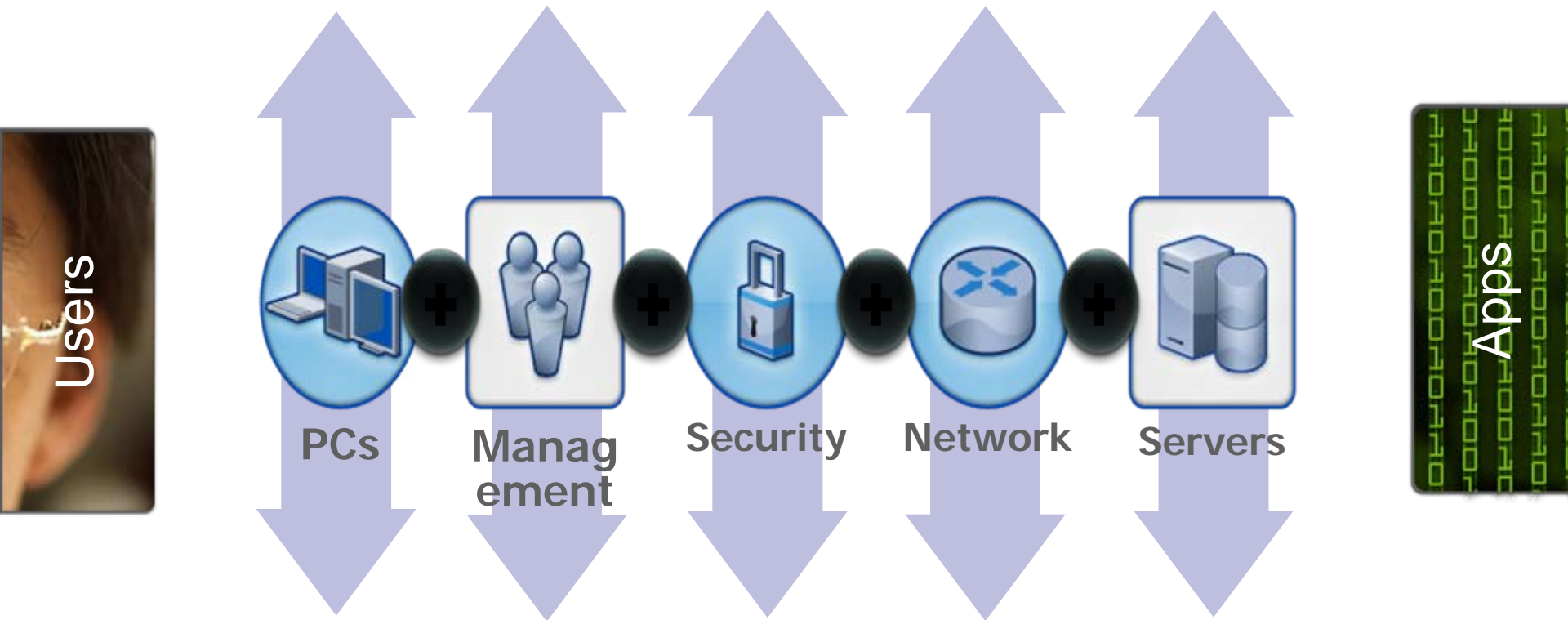
# Average Percent of IT time spent Per task area

Help Desk is the leading user of time

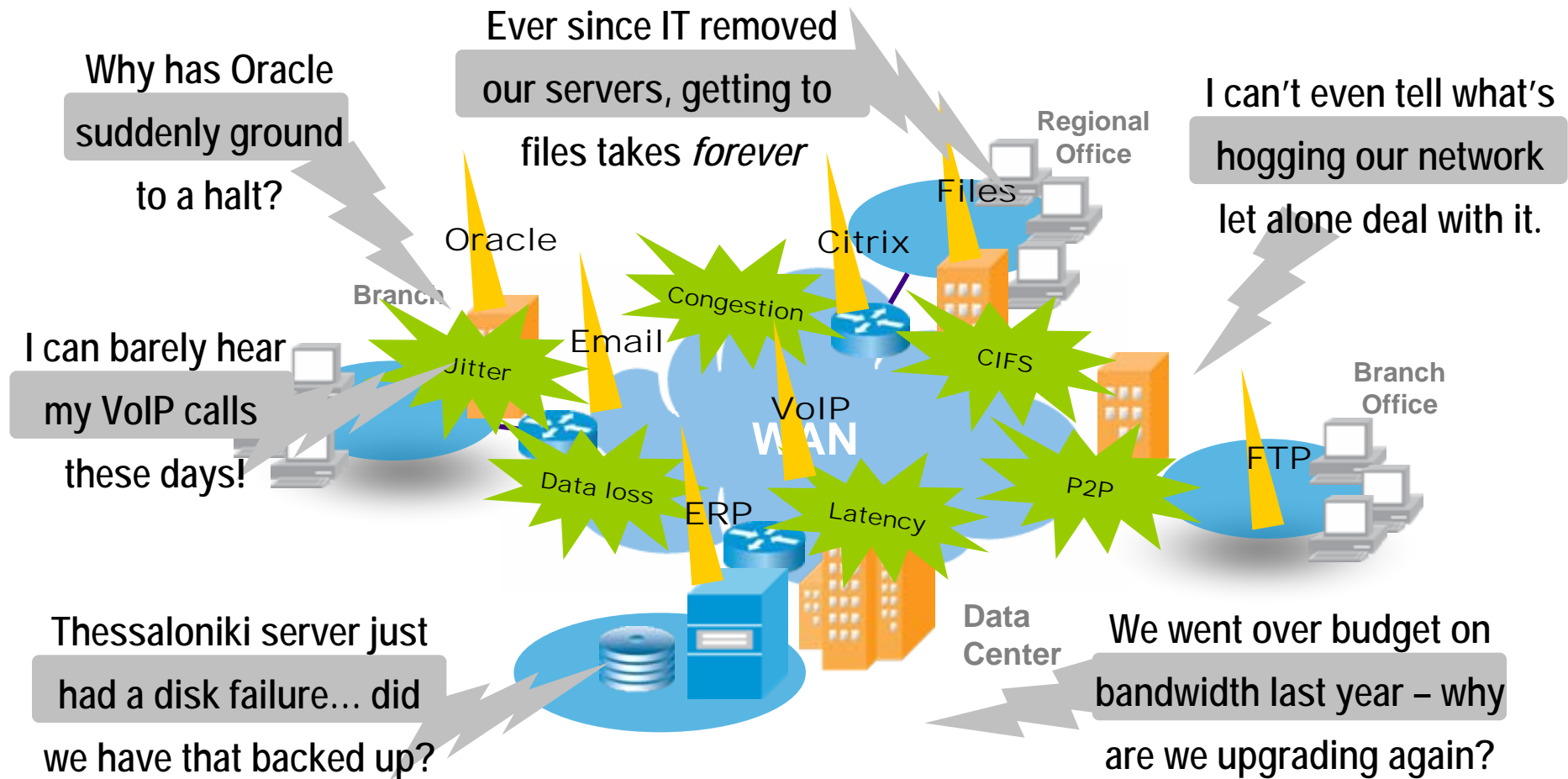


Source : Info-Tech

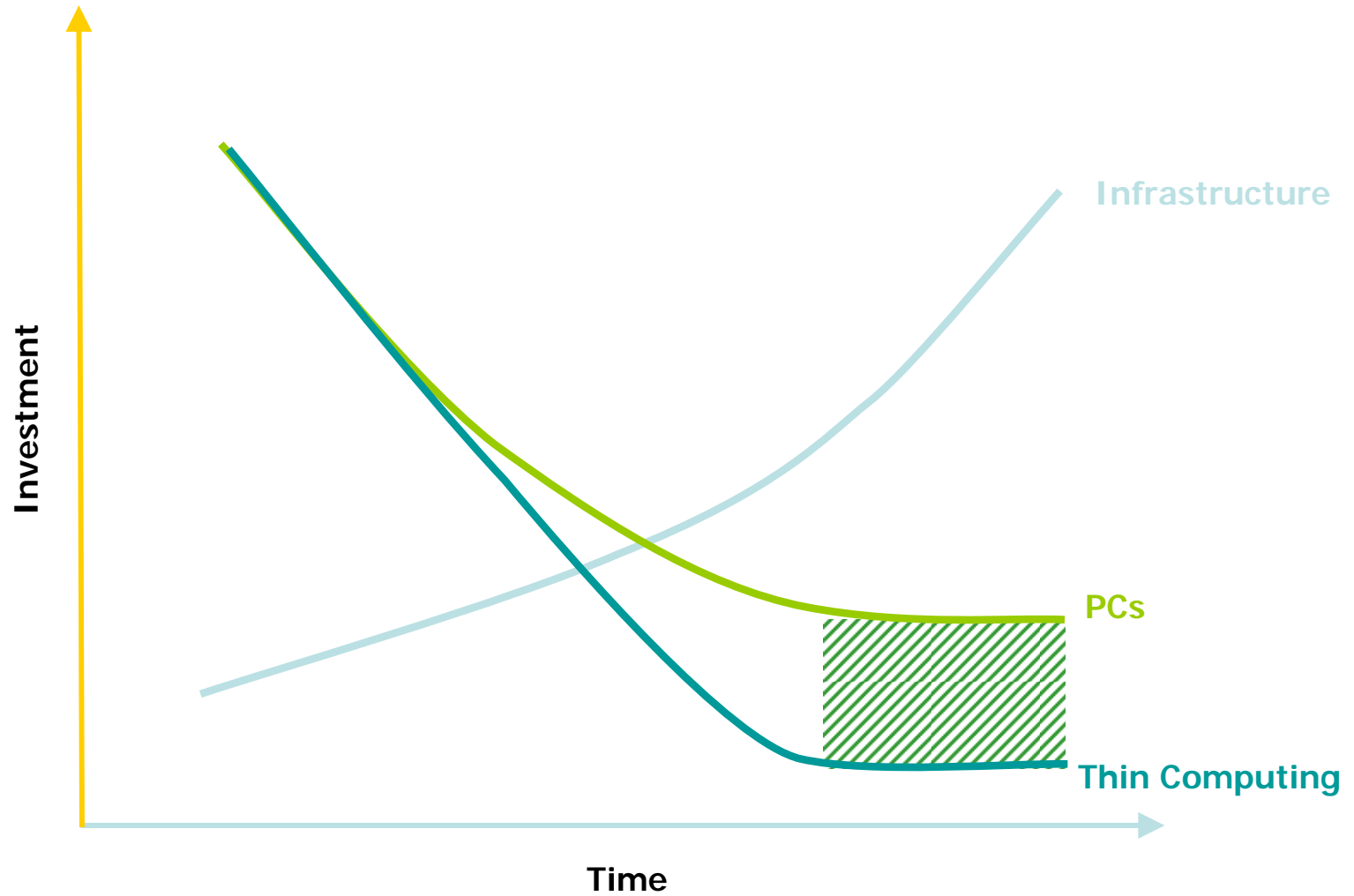
# Conventional Approach



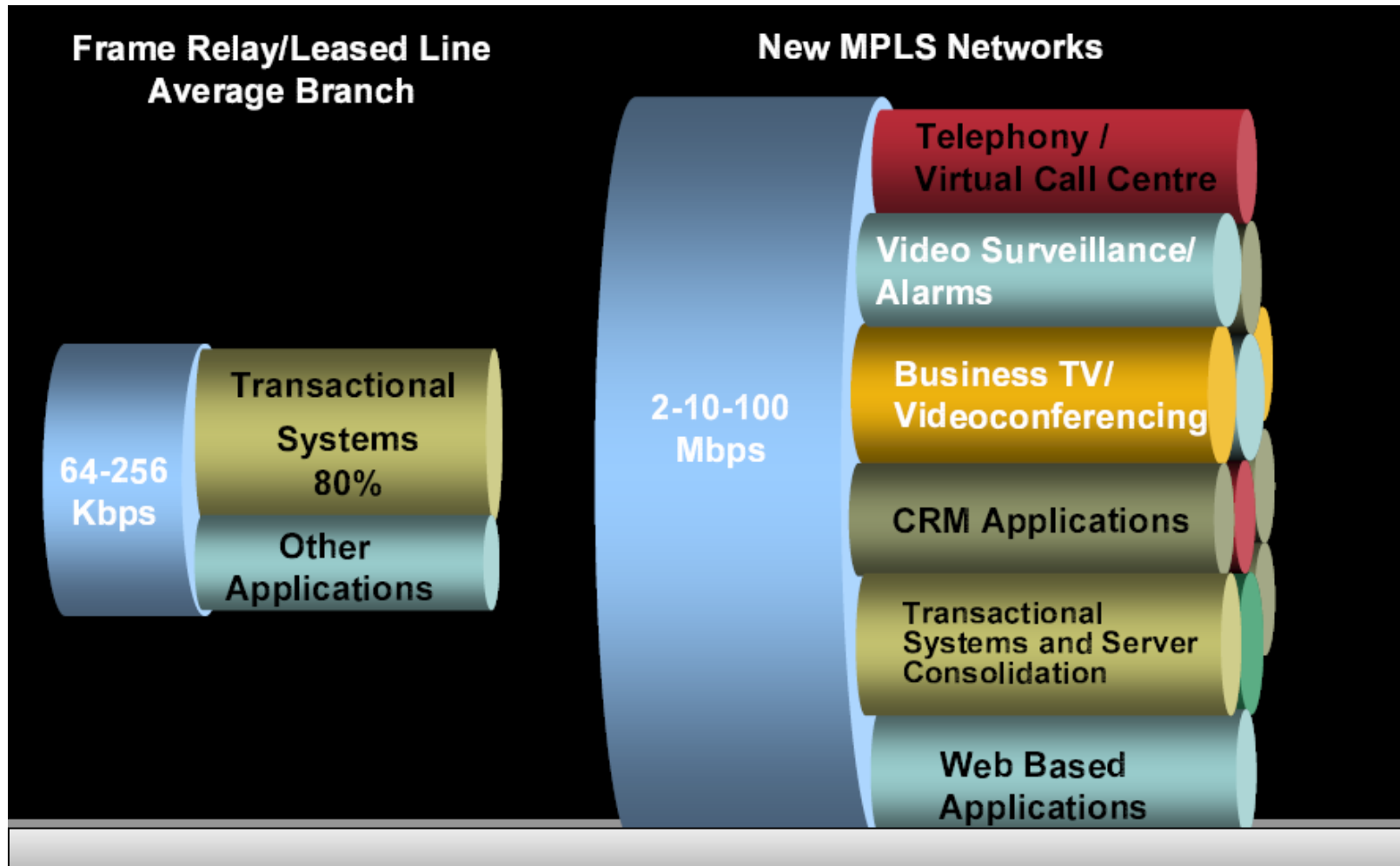
# Challenges at the Branches



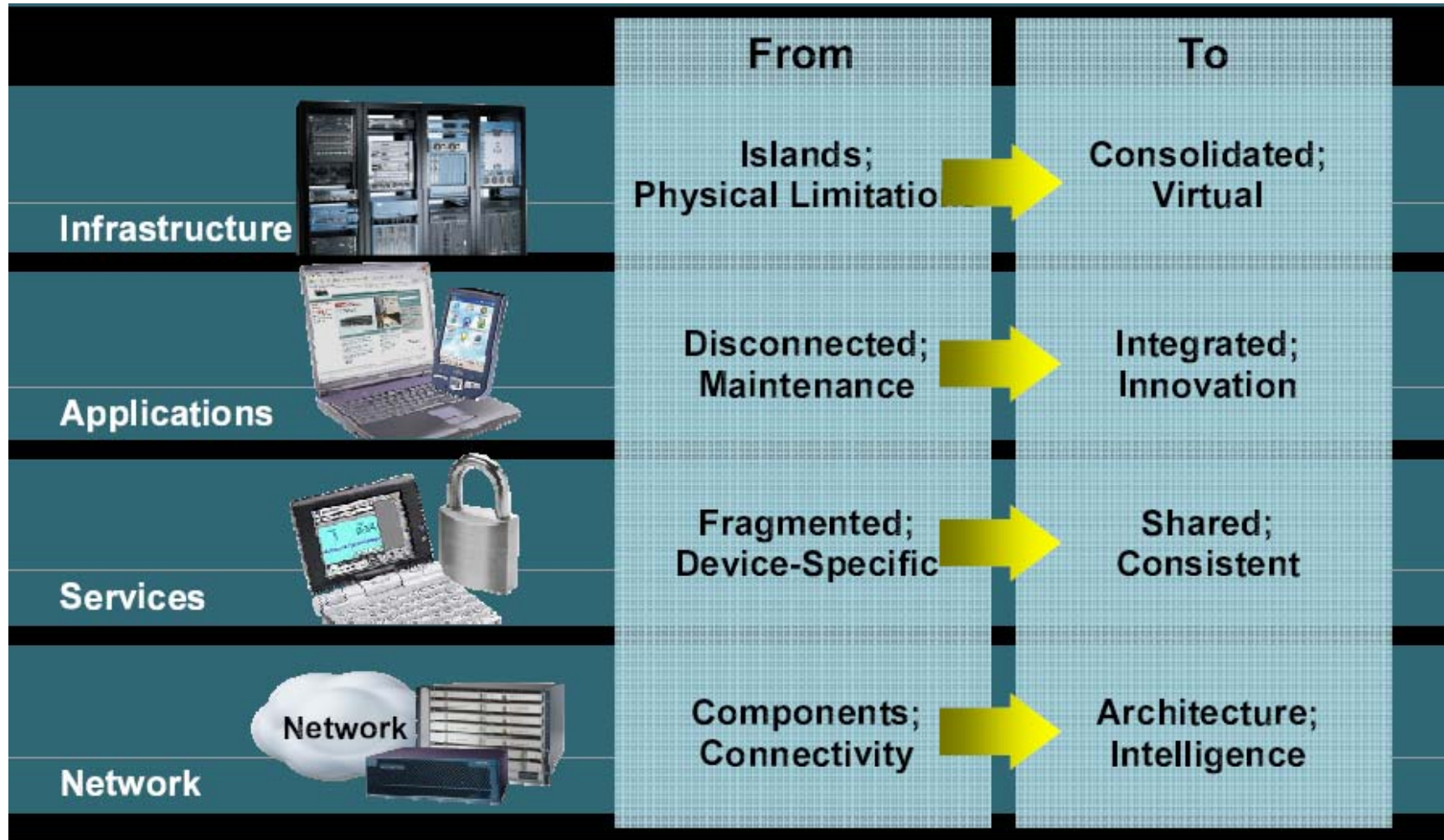
# The Migration Journey



# Network Challenges: Convergence Through Bandwidth Explosion



# The Migration Journey



# What is Application Delivery?





any location



any number of people

# The On-Demand Organization



any device



any connection

# Visionary concept

- On-demand Government IT:
  - Virtualization of the Datacenter resources and Secure access to private information over any kind of networks using any type of devices.
- Access infrastructure:
  - A core business system because it solves a major business problem:
    - right information, securely, easily, instantly to every one, whenever, wherever.
- Key Business benefits:
  - Improved operational efficiency
  - Cost reduction
  - Security

## Justify it

Saves  
\$\$\$

Leverages  
existing  
infrastructure

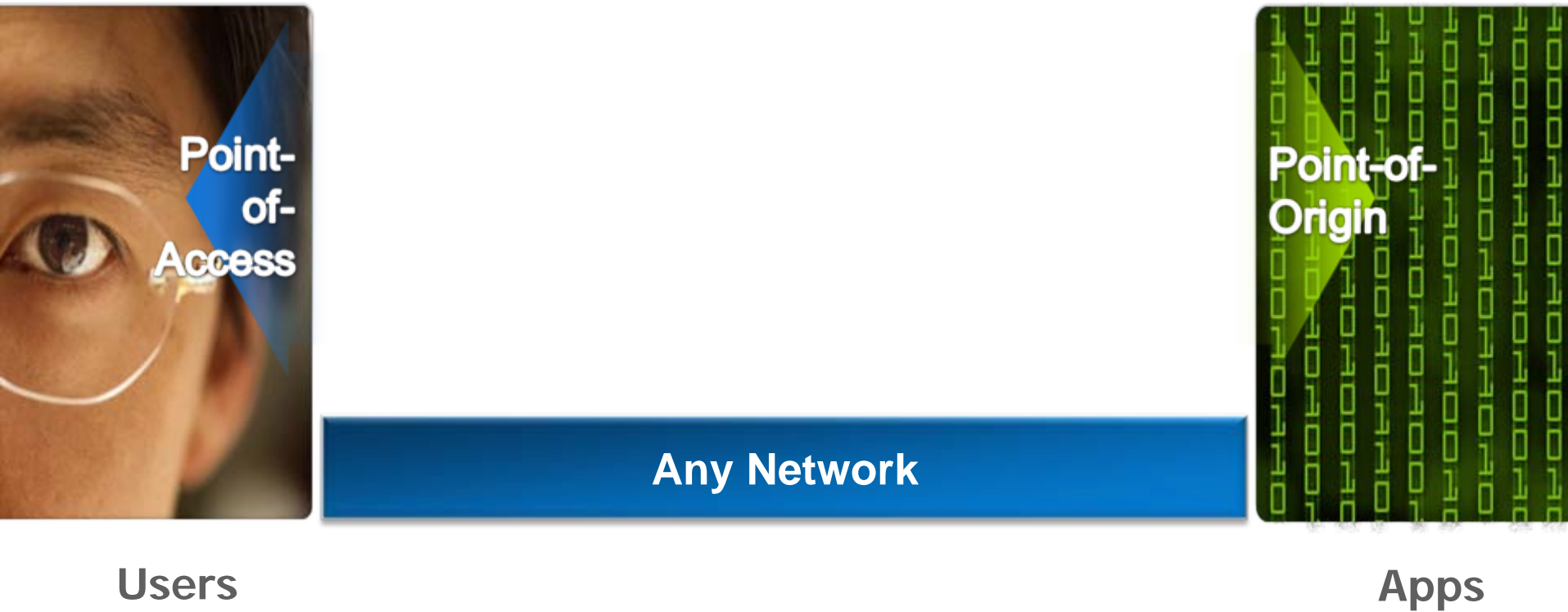
Aligns  
multiple  
projects

Increases  
Application  
Control

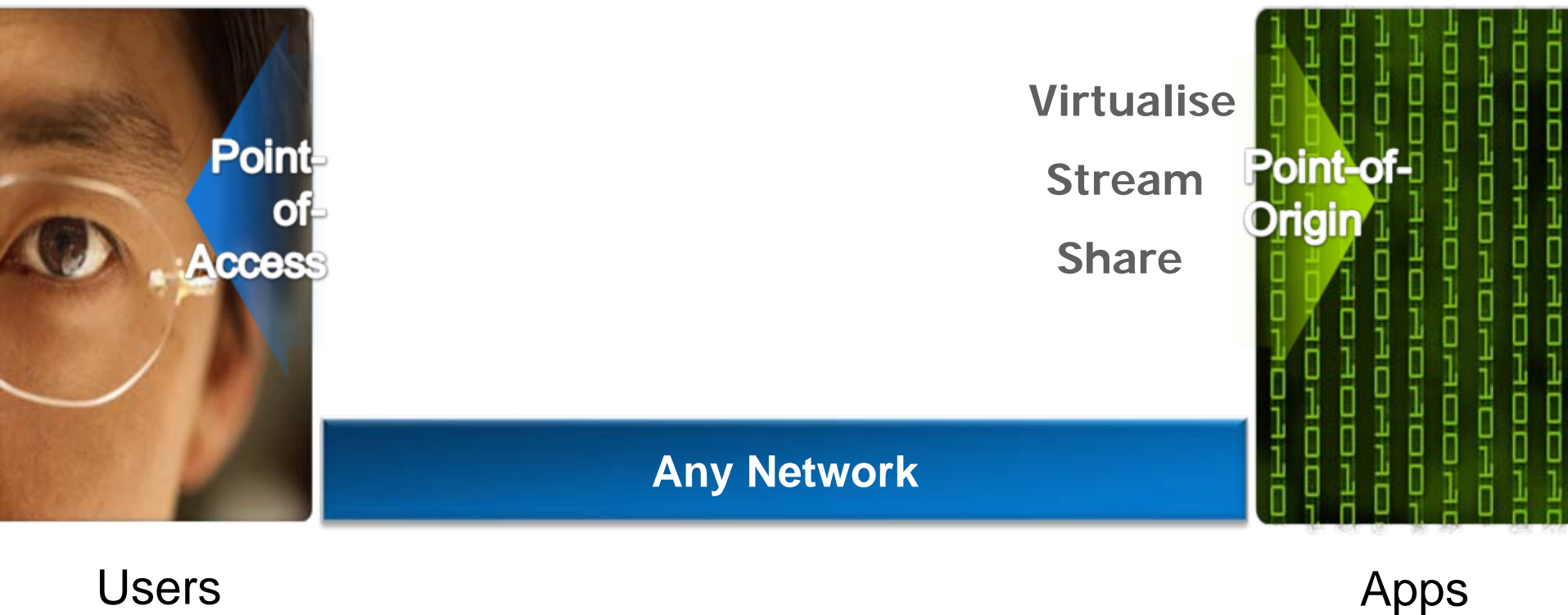
Improves  
App and  
Data  
Security

**Proven with over 200.000 customers and 70 M desktops worldwide  
More than 750 customers in Greece and 45.000 desktops**

# Turning datacenters into delivery centers



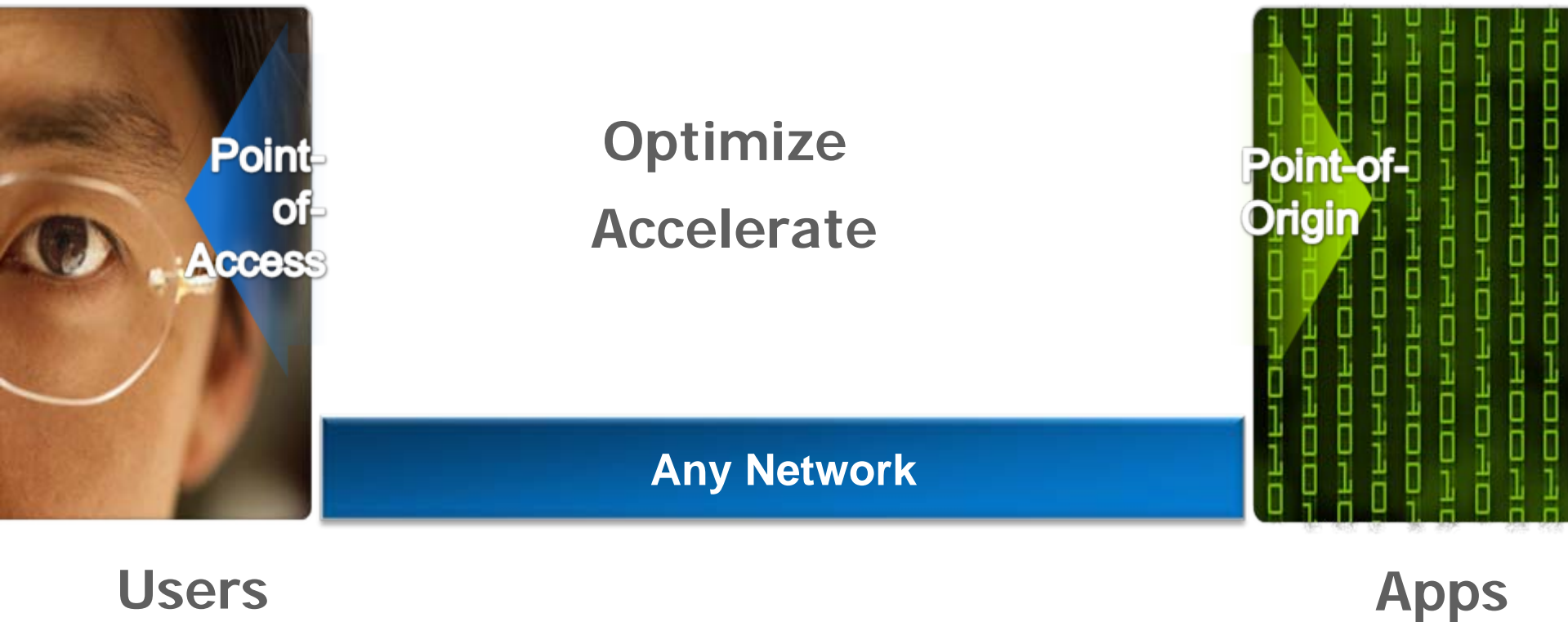
# Turning datacenters into delivery centers



# Turning datacenters into delivery centers



# Turning datacenters into delivery centers



# Turning datacenters into delivery centers

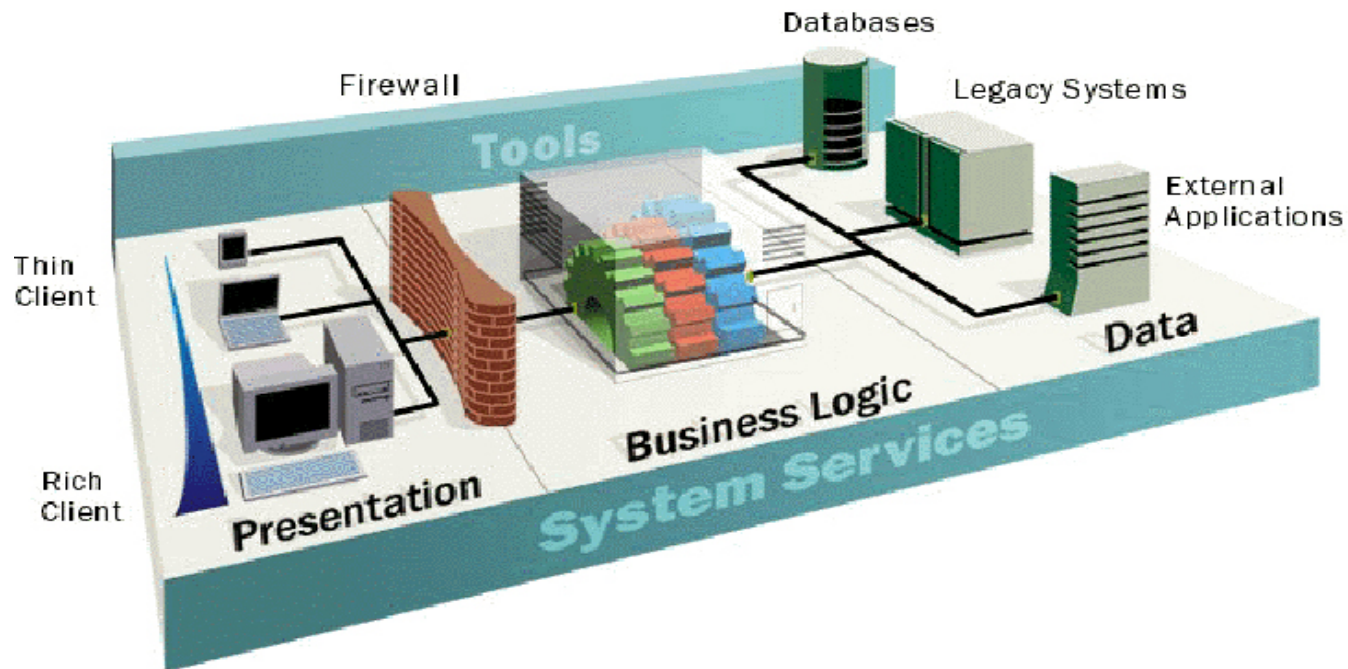


# Turning datacenters into delivery centers



# Server-centric Computing

- Centralized IT
- All user Applications running “secure” on central servers
- Universal Access - any type of device access



# Citrix Delivery Center

Transform the datacenter into the delivery center



# Virtualization Application Deployment—The Promise

## A new desktop paradigm

- Low cost branch delivery
- Extend PC life (cost avoidance)
- Break Win/tel obsolescence cycle
- Improved branch productivity
  - Time to Toggle between applications
  - Application loads
  - Print file delivery
  - Reduced PC hangs
- Operational improvements
- Transparent deployment, no user training

# The Challenge With Desktops Computing Today



**Cost of acquisition**



**Information security**



**Cost of software deployment and maintenance**



**Cost of hardware deployment and maintenance**



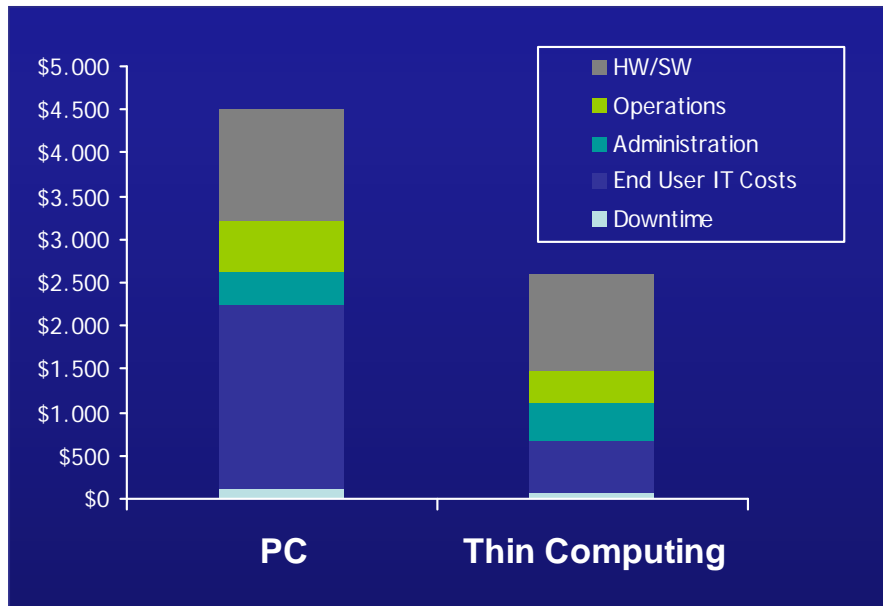
**Manageability of multiple applications**



**Complexity and vulnerability to attack**

# Thin Computing Address the Challenges Head On

## Cost Benefits

**40%**

Reduction  
HW and SW  
costs

**29%**

Reduction  
IT operations  
costs

**88%**

Reduction  
worker  
downtime

**78%**

Increase  
IT staff  
productivity

## Business Benefits

Security / Privacy

Compliance

Manageability

Reliability

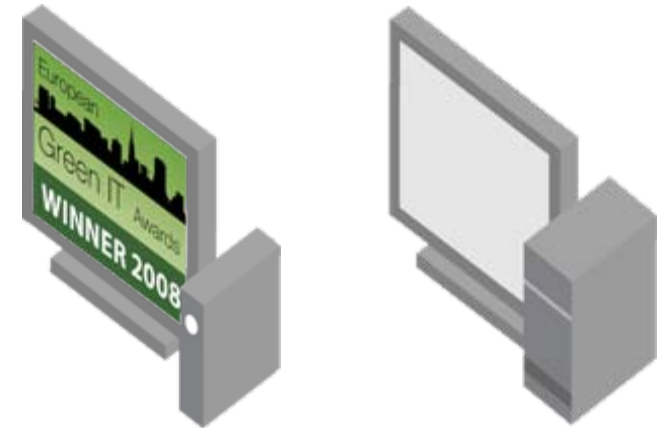
Rapid Deployment

Power/Noise/Cooling

Source: Gartner Inc (8/05), IDC (11/05), and Wyse Estimates

## Energy Efficiency

- Reduce energy usage by up to 90%
- Less materials used in manufacture
- Lower transportation costs
- Longer service life
- Fewer parts to recycle
- 90% reduction in e-waste



# Thin clients



# Network

## How is it supporting key applications?

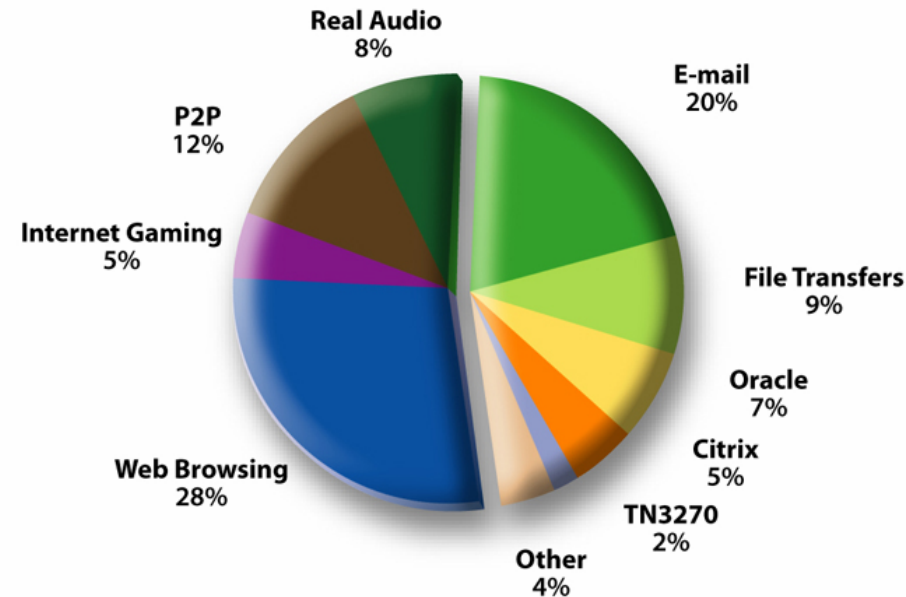
- **Typical Network**

- 50-150 applications on the network
- Three to ten are customer-critical
- 40-70% of traffic is recreational

- **Symptoms of 'rigid network'**

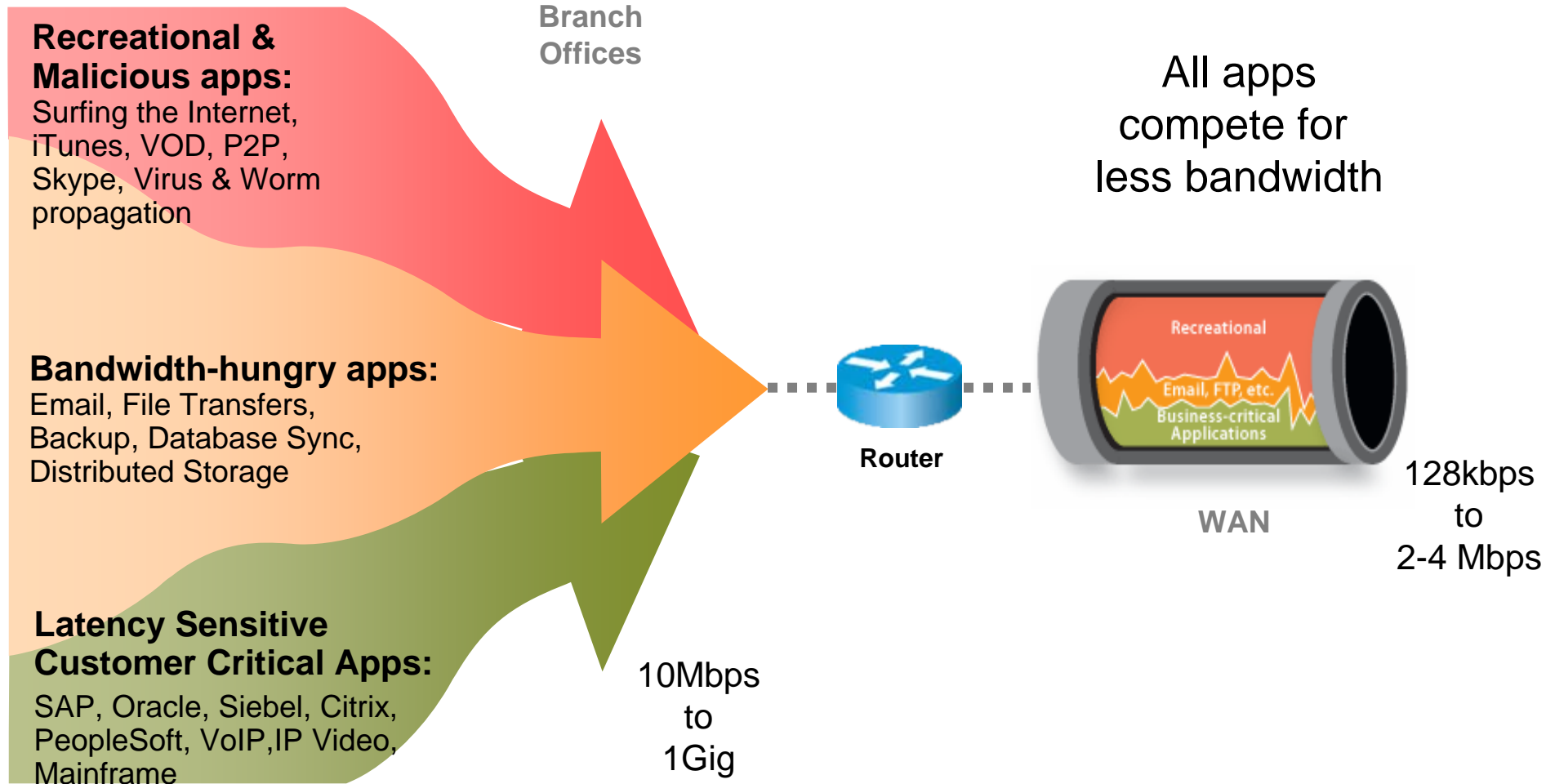
- Key applications are unavailable or slow to perform
- Complaints from end users, poor productivity
- Business processes suffer
- IT investments —networks and applications—at risk

### Typical Mix of Application Traffic



*54% of bandwidth to recreational applications  
14-20% of traffic to customer-critical applications*

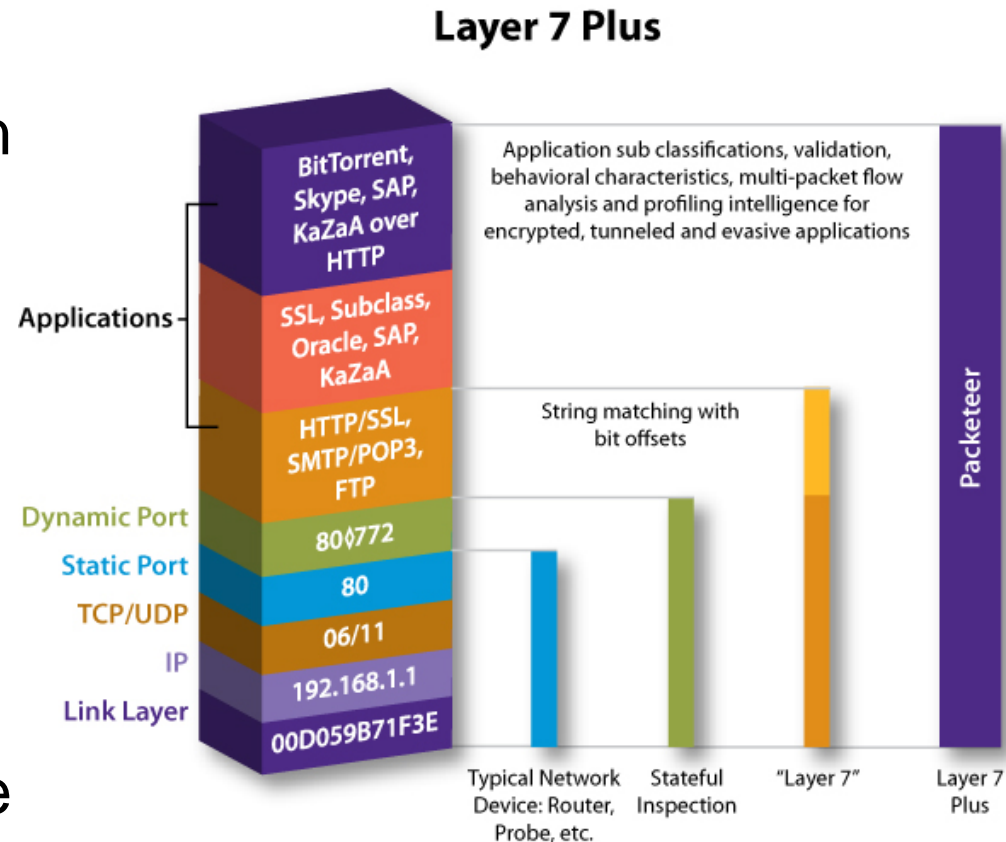
# Distributed Network: Congestion is a disruptive issue



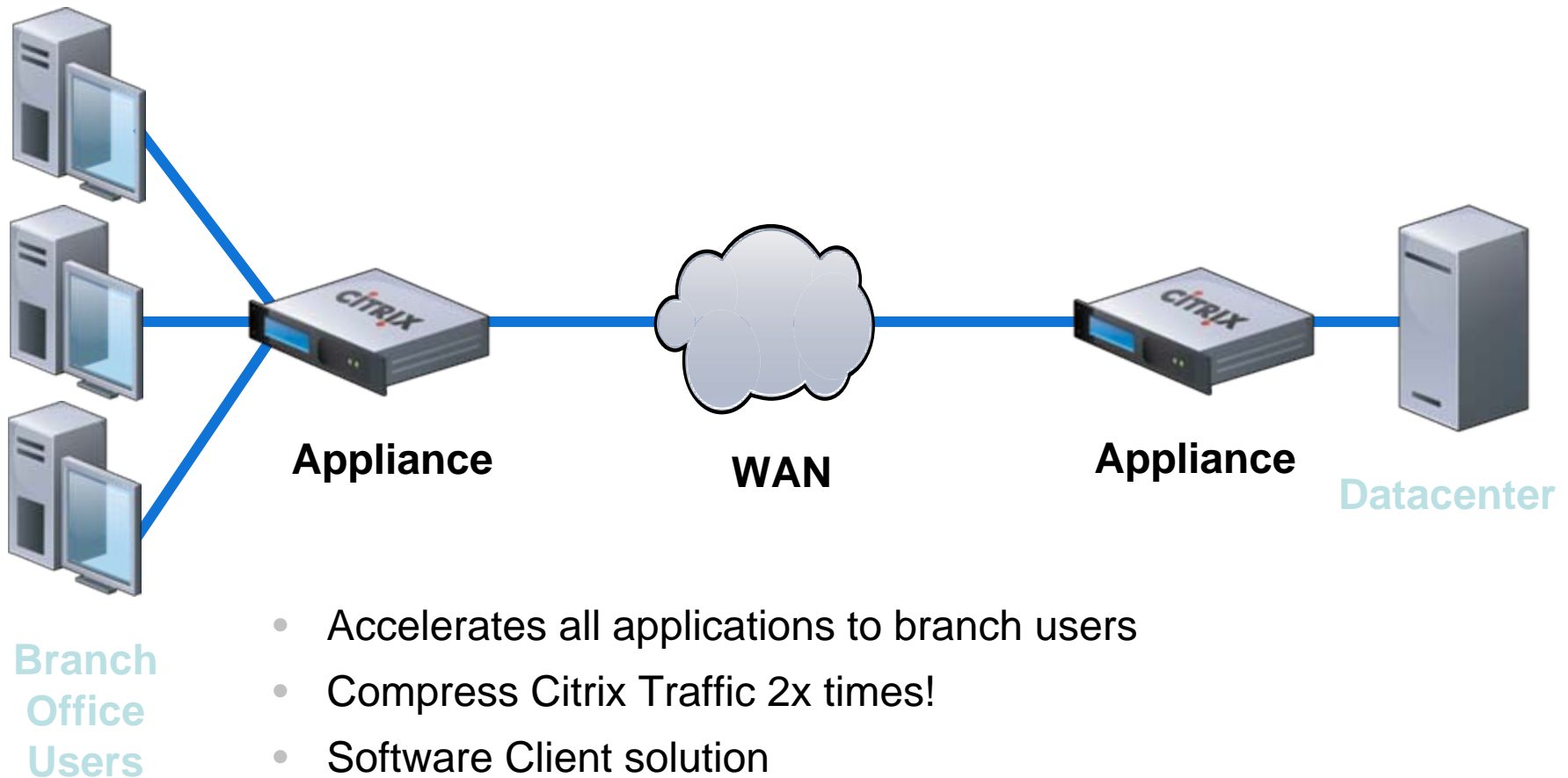
# Visibility

## Assess Problems & Choose Right Tools

- *Identify* applications on the network
- *Measure* utilization by application
- *Benchmark* response times & SLA's for key applications
- *Diagnose & isolate* causes of performance problems

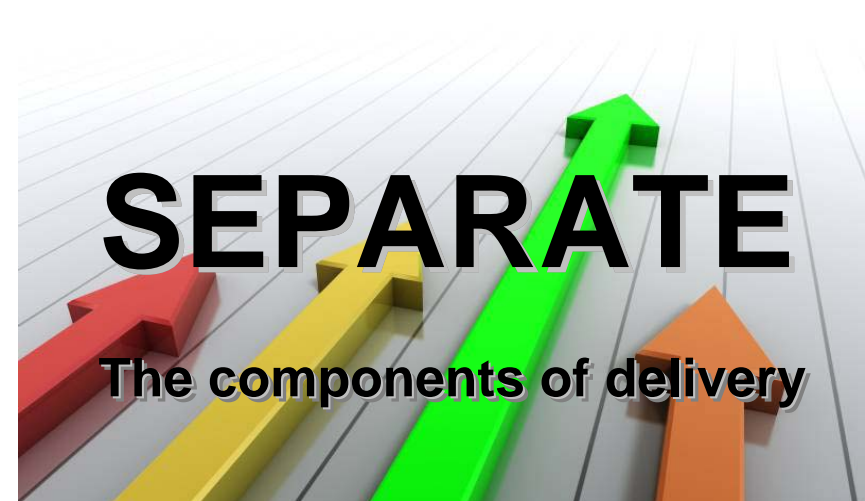


# Optimization of WAN Branch office Links



- Accelerates all applications to branch users
- Compress Citrix Traffic 2x times!
- Software Client solution
- Improves bandwidth efficiency by up to 75%

**Make the WAN  
feel like the LAN**



# SIMPLIFY

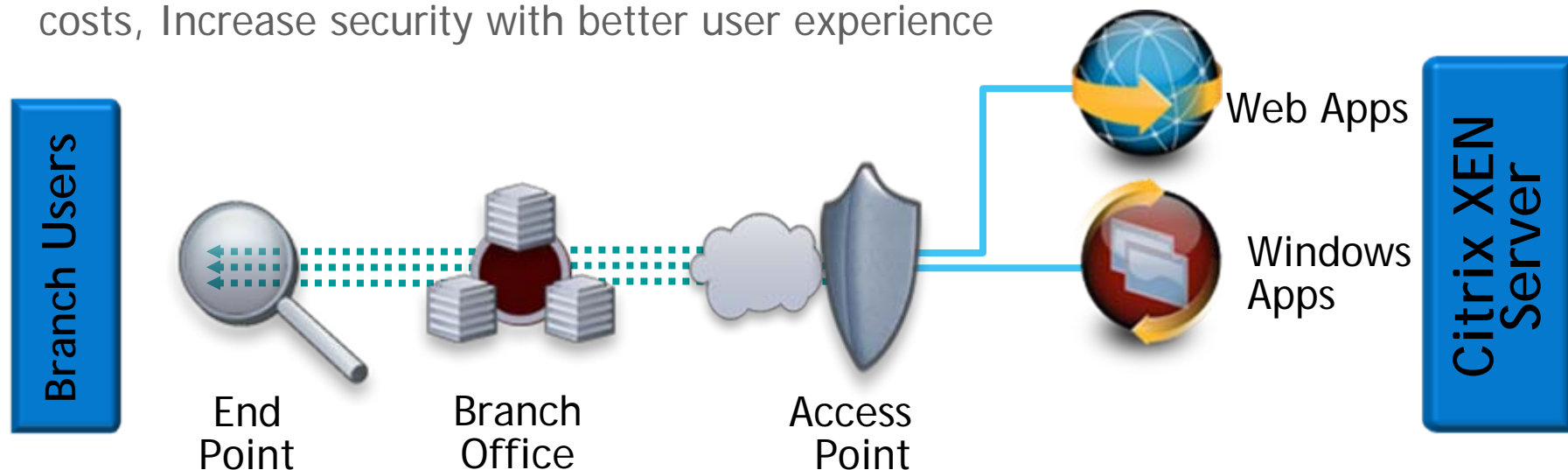
What the end user sees



# Application Delivery case study

End to end Citrix Application delivery implementation

- Full virtualization of production servers using Citrix XENserver Para-virtualization Technology
- Centralization of all bank's applications using XEN app (ex Presentation Server)
- Thin clients
- Main Target: Minimized Administration, Bandwidth and Help desk costs, Increase security with better user experience



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