

Dynamic Infrastructure – Role of Datacenter Networking

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What are the typical challenges for IT departments?

Challenges



Costs & Service Delivery

- Rising costs of systems and networking operations
- Explosion in volume of data and information
- Difficulty in deploying new applications and services



Business Resiliency & Security

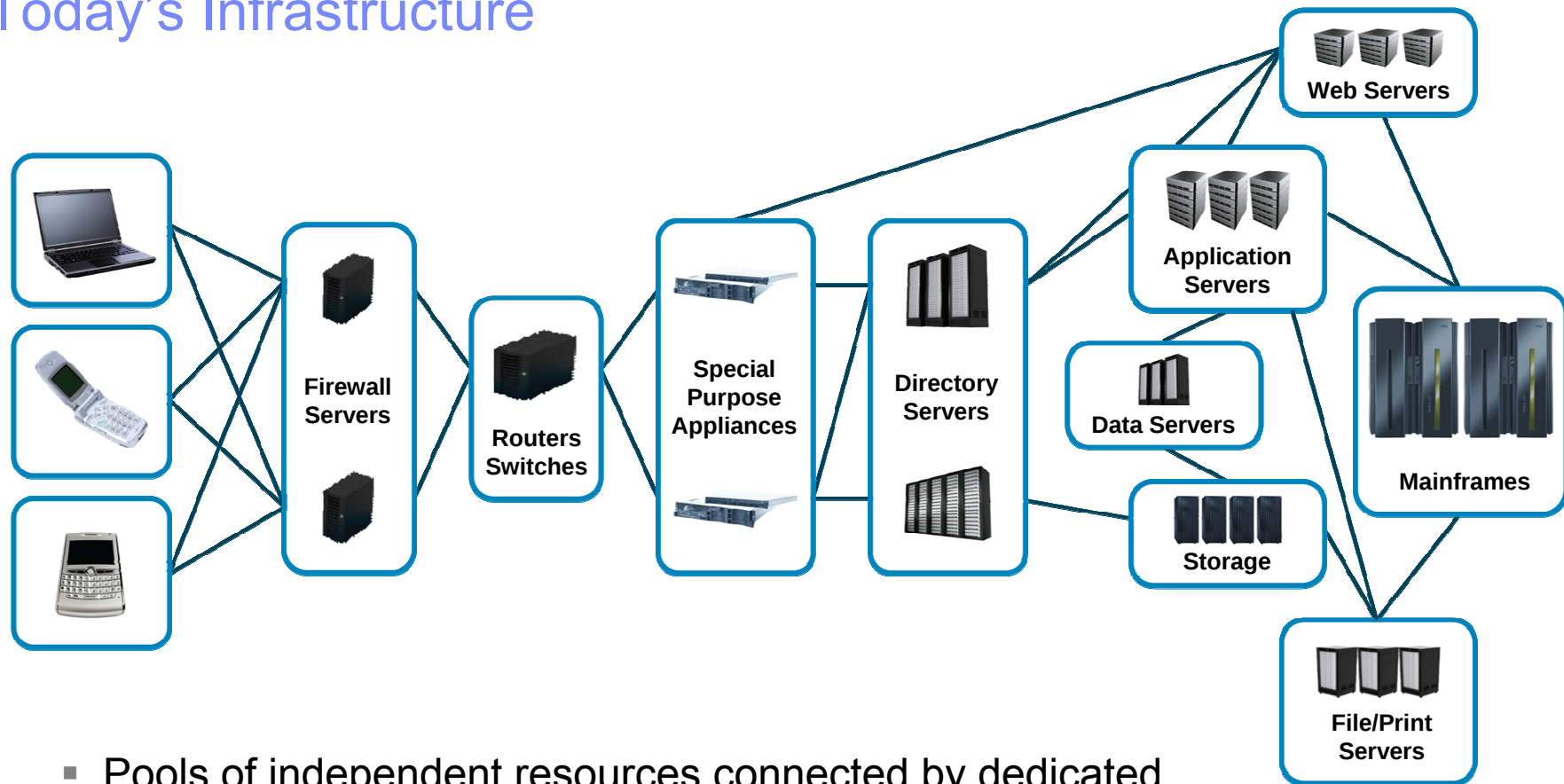
- Security of your assets & your clients' information
- Landslide of compliance requirements
- Systems and applications need to be available



Energy Requirements

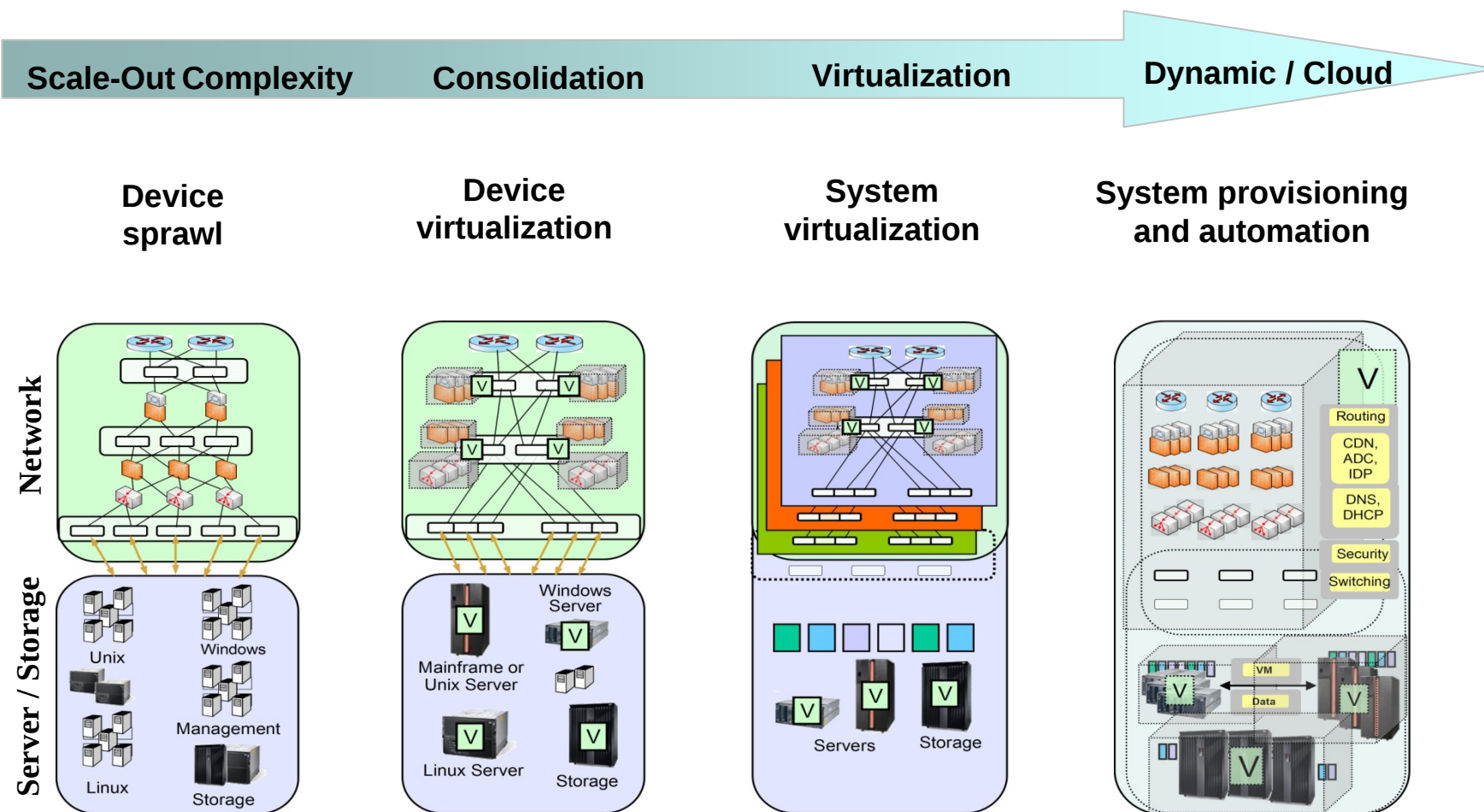
- Rising energy costs & rising energy demand
- Power & thermal issues inhibit operations
- Environmental compliance & governance mandates

Today's Infrastructure



- Pools of independent resources connected by dedicated networks
- Systems management by pool, not end-to-end
- System availability delivered through redundancy

Consolidation and virtualization



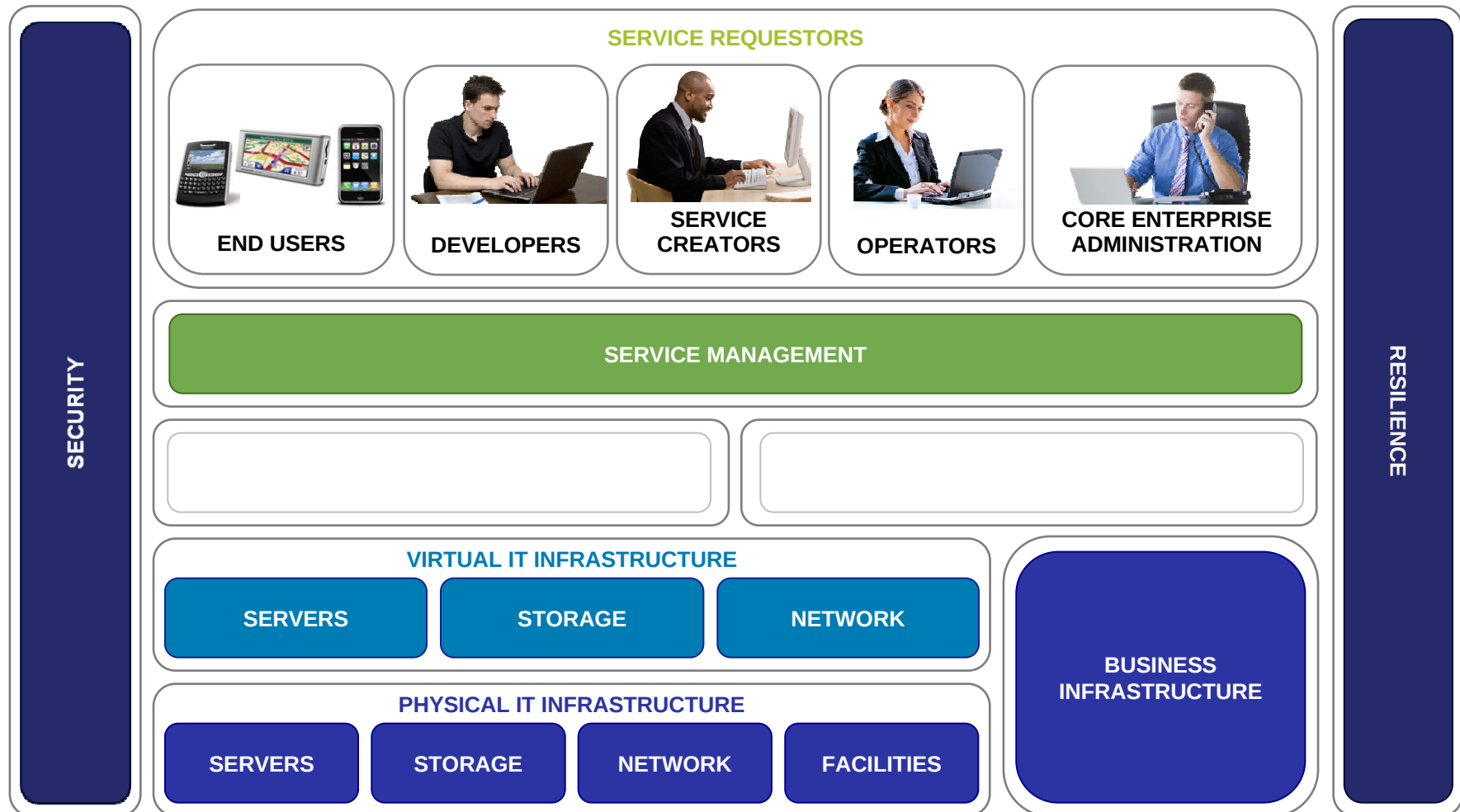
Networks are the cornerstone for IT consolidation and virtualization initiatives



Server, storage and data center consolidation & virtualization increase the demands on networks

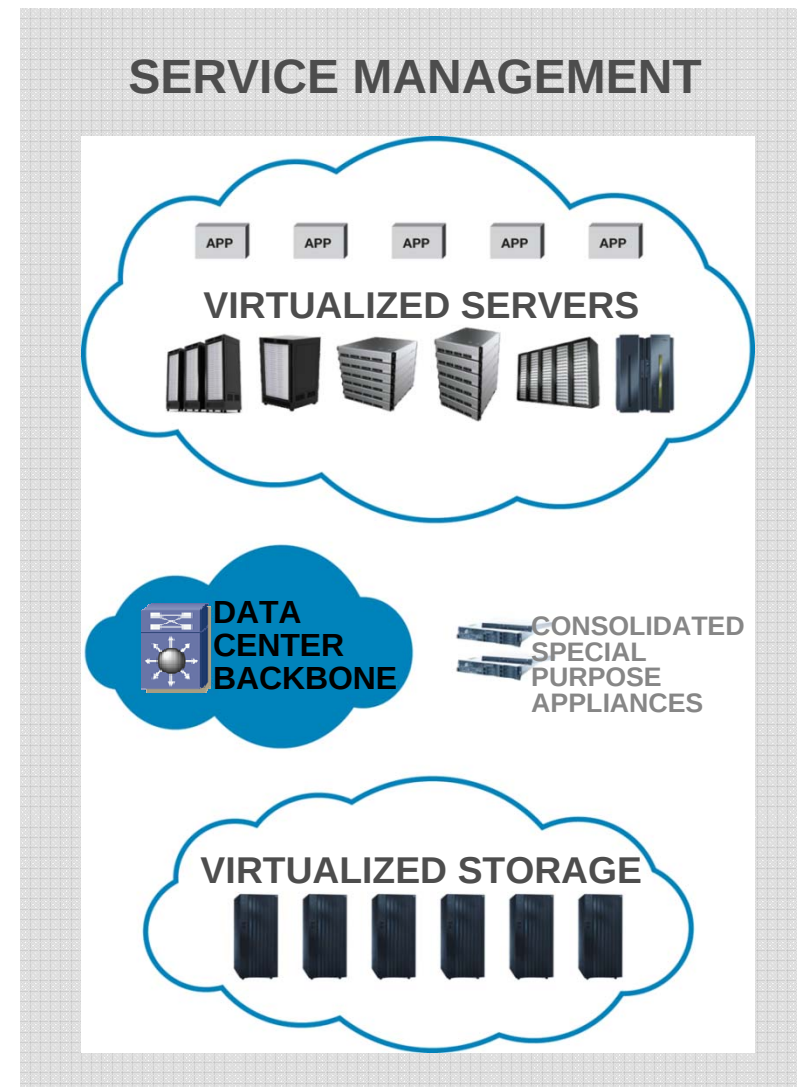
- ✓ Network performance and capacity requirements
- ✓ Security and resiliency
- ✓ Rapid provisioning
- ✓ Visibility, control, and automation across all IT resources

Architectural Model for Dynamic Infrastructure®

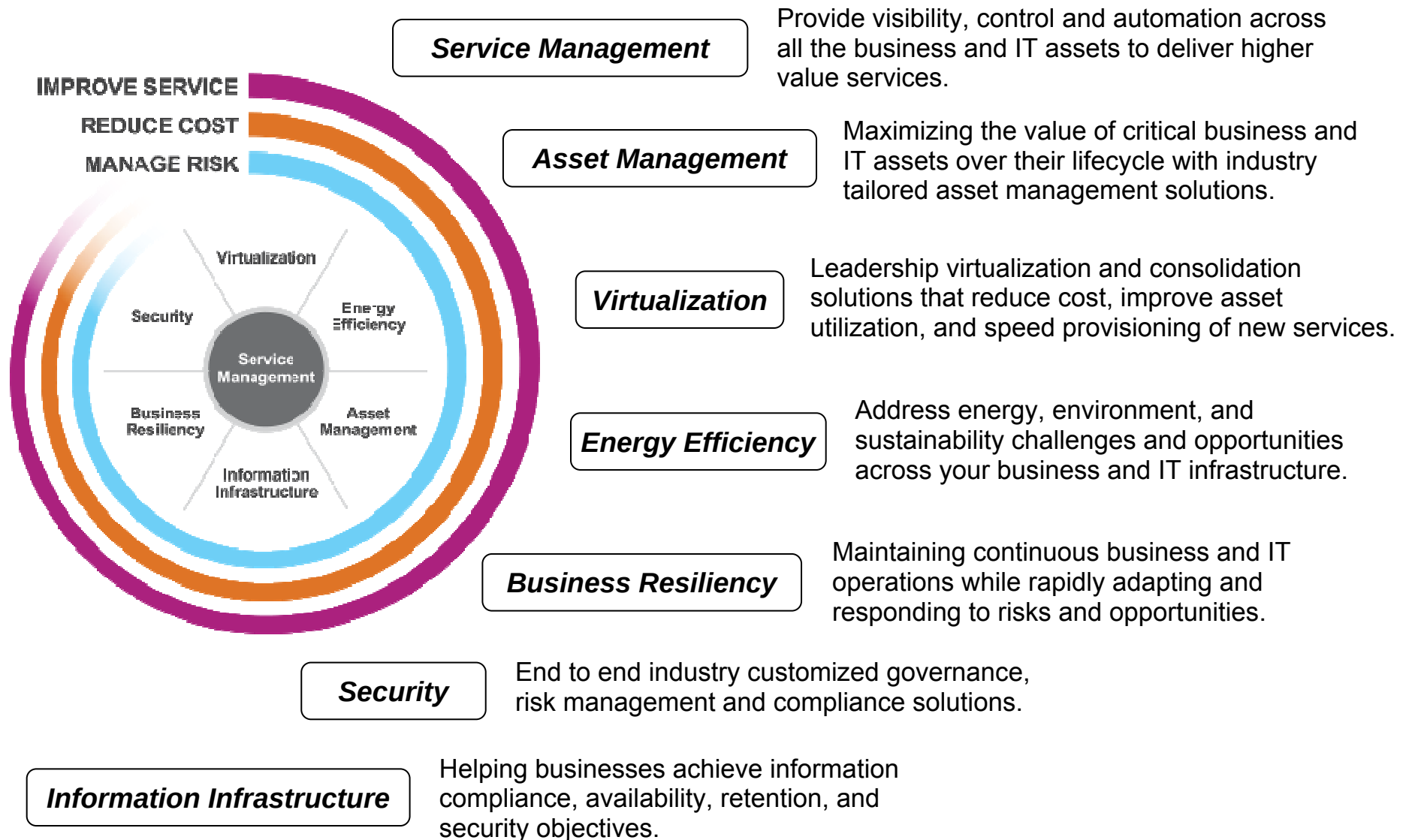


Creating a Future Systems View of Infrastructure

- Virtualized computing and storage services.
- Connected by a high performance converged network data fabric – allowing LAN and Storage traffic to share common network.
- Automated and managed by service management for complete visibility and control of heterogeneous pools of physical and virtual assets and services.
- Create value for clients through tighter integration between servers, storage, networking and software.



Building a dynamic infrastructure.



This transformation spans across people, process and technology.

People

- Skills shift from operations (break / fix) to IT Business Analysts
- Break down silos and organize around IT service delivery
- Paradigm shift toward shared environment

Process

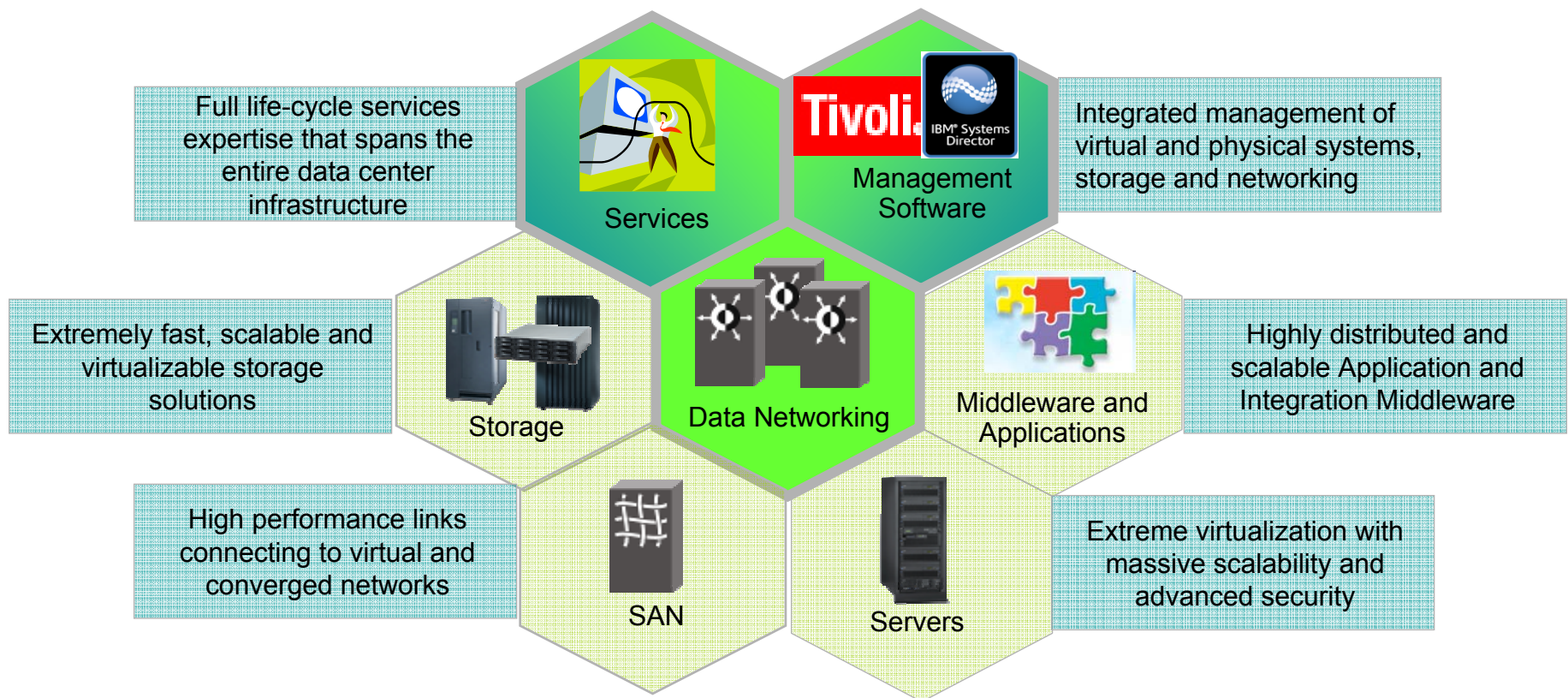
- Standardization
- Disciplined
- Repeatable and documented processes
 - Change and configuration management
 - Process automation

Technology

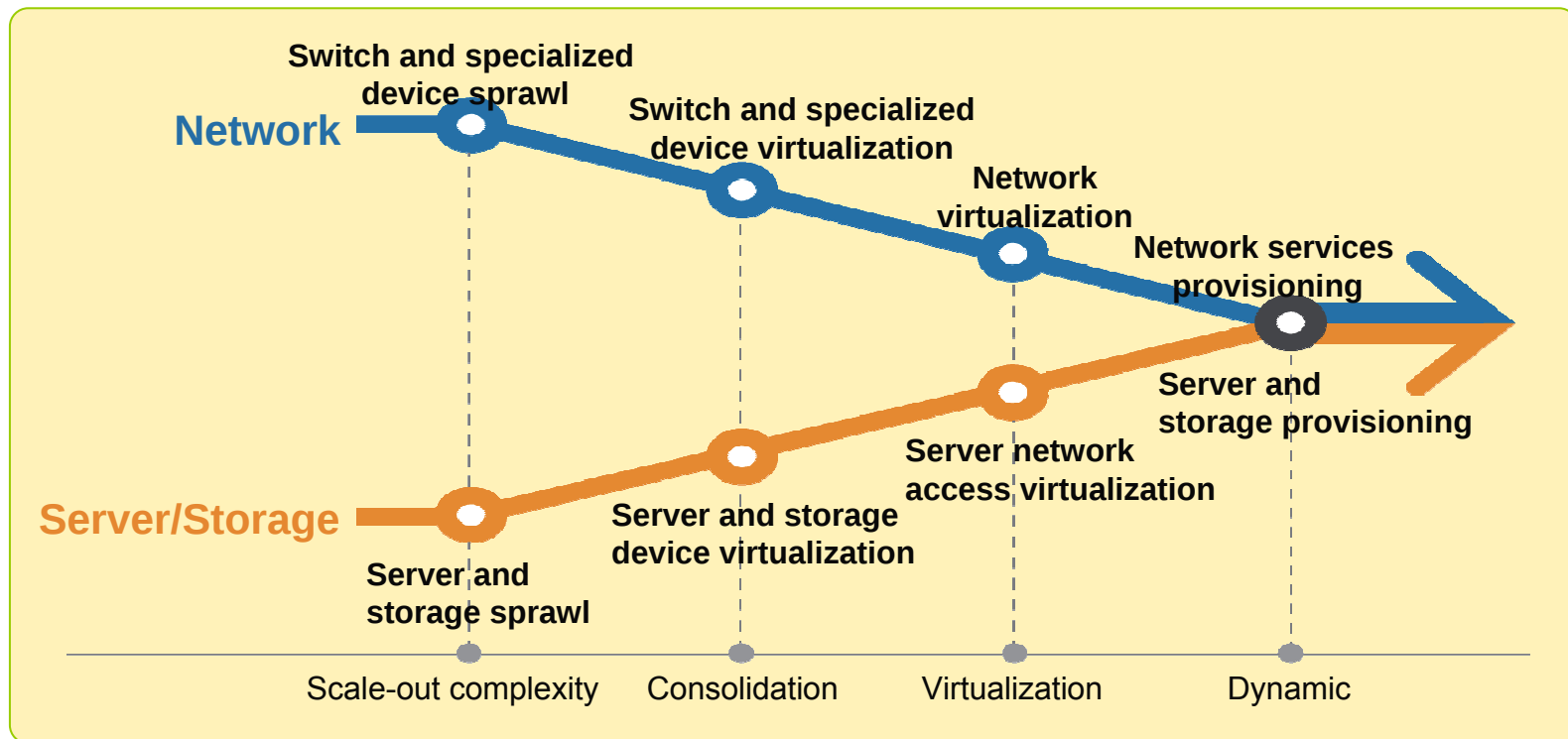
- Open standards
 - Open management across server, storage, networking
 - Open networking standards
- Role of systems and networking in recentralization
- Automation

What is the relationship between Datacenter Networking

- DCN solution is part of a broader Dynamic Infrastructure offering
- DCN is focused on enabling a dynamic and converged network infrastructure



Networks for dynamic infrastructures must become flexible, responsive and managed together with the rest of the IT infrastructure



Vision without action is a daydream
Action without vision is a nightmare

Thank You

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