



WETICE 2009

18th IEEE International Workshops on
Enabling Technologies: Infrastructures
for Collaborative Enterprises

June 29 - July 1, 2009, Groningen (The Netherlands)



1st Workshop on Collaboration & Cloud Computing

*“The clouds come and go,
providing a rest for all the moon viewers”*

- Basho

Agenda

- 🕒 Introduction
- 🕒 Purpose of this Workshop
- 🕒 Agenda & logistics
- 🕒 Opening remarks



🕒 **Workshop Chair**

- ▶ Dr. Rao Mikkilineni, Kawa Objects Inc., USA
- ▶ Dr. Ramana Reddy, West Virginia University, USA

🕒 **Workshop Program Committee**

- ▶ Dr. Stefan Tai, Karlsruhe Institute of Technology (KIT), Germany
- ▶ Dr. Pankaj Goyal, IEEE Senior Fellow, MicroMega, USA
- ▶ Dr. Darrell D. E. Long, University of California, Santa Cruz, USA
- ▶ Vijay Sarathy, Kawa Objects Inc., USA
- ▶ Miyuki Sato, Fujitsu Ltd., Japan

Cloud Computing Workshop Schedule

When	What	Where
11:30 - 13:00	Opening Remarks Cloud Computing and the Lessons from the Past The Virtual Business Services Fabric, O&M and FCAPS Management	CCC (room 289)
13:00 - 14:00	Lunch	
14:00 - 15:30	Creating Next Generation Cloud Computing Social Cloud Operation Support System Smart Metering the Clouds	CCC (room 289)
15:30 - 16:00	Coffee break	
16:00 - 17:30	What is the impact of 'clouds' on the architectural process / culture? What Networking of Information Can Do for Cloud Computing Virtual Systems Workload Characterization - An Overview	CCC (room 289)
18:00 - onwards	Welcome reception	

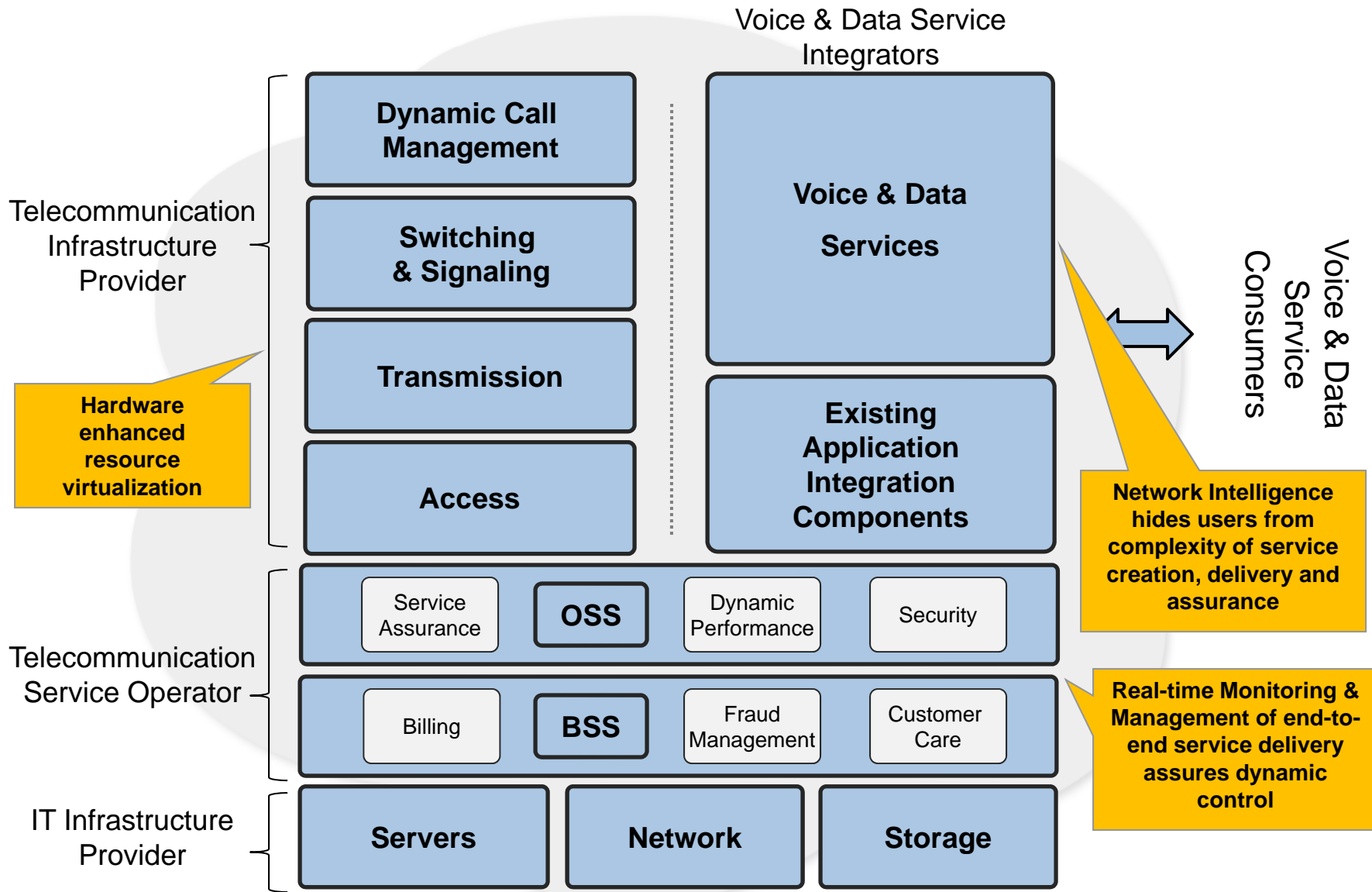
Purpose of this Workshop

- 🕒 **Explore Service-Oriented Computing and Architectures**
 - ▶ Collaboration in Cloud Service Creation
 - ▶ Metering and charging for resources
 - ▶ Collaboration in Cloud Service Assurance
 - ▶ Self-Organizing knowledge bases accessible
 - ▶ Collaboration architecture and Collaboration models



▶ Opening Remarks

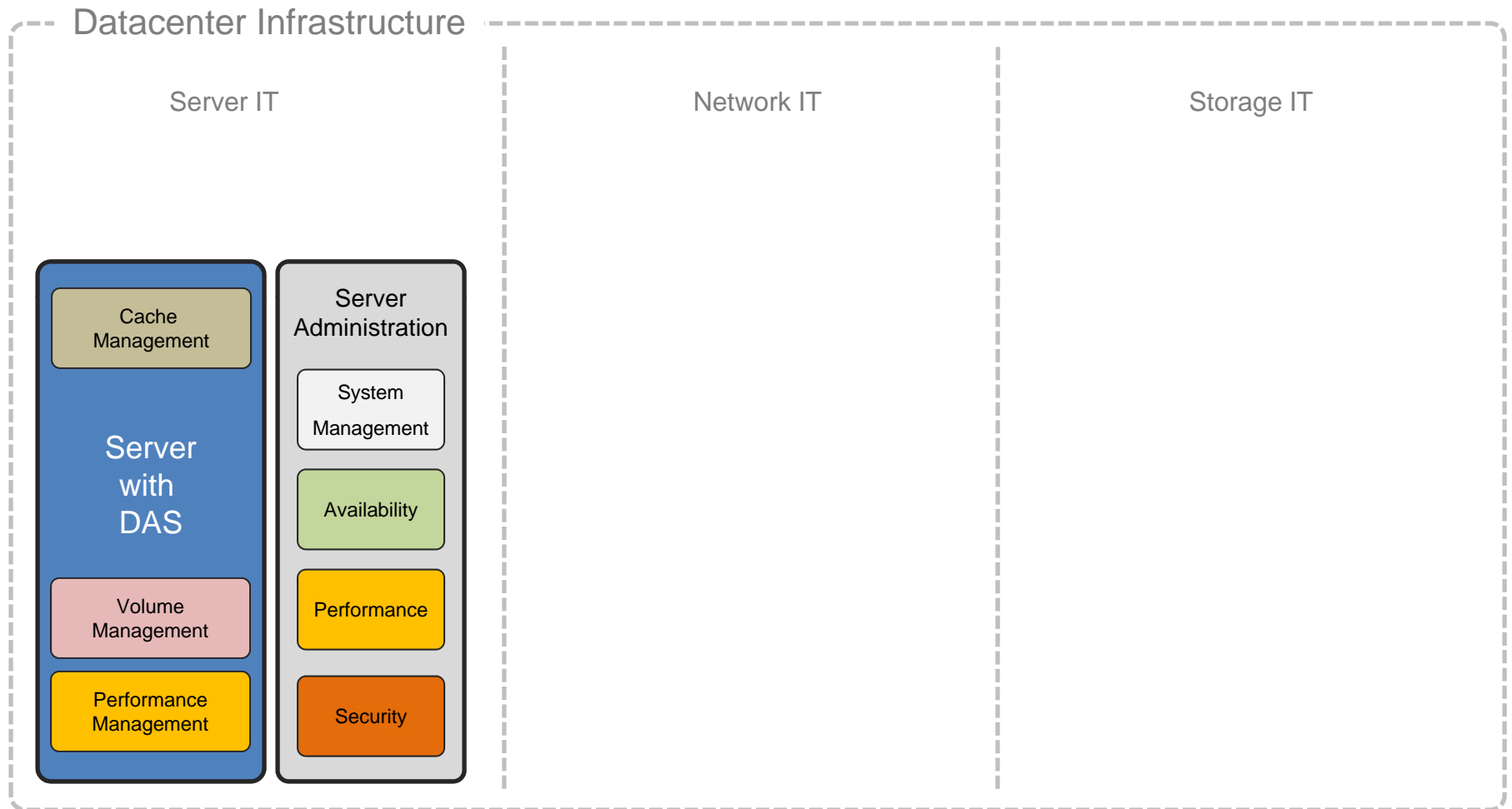
Looking To The Past To Design A Better Future



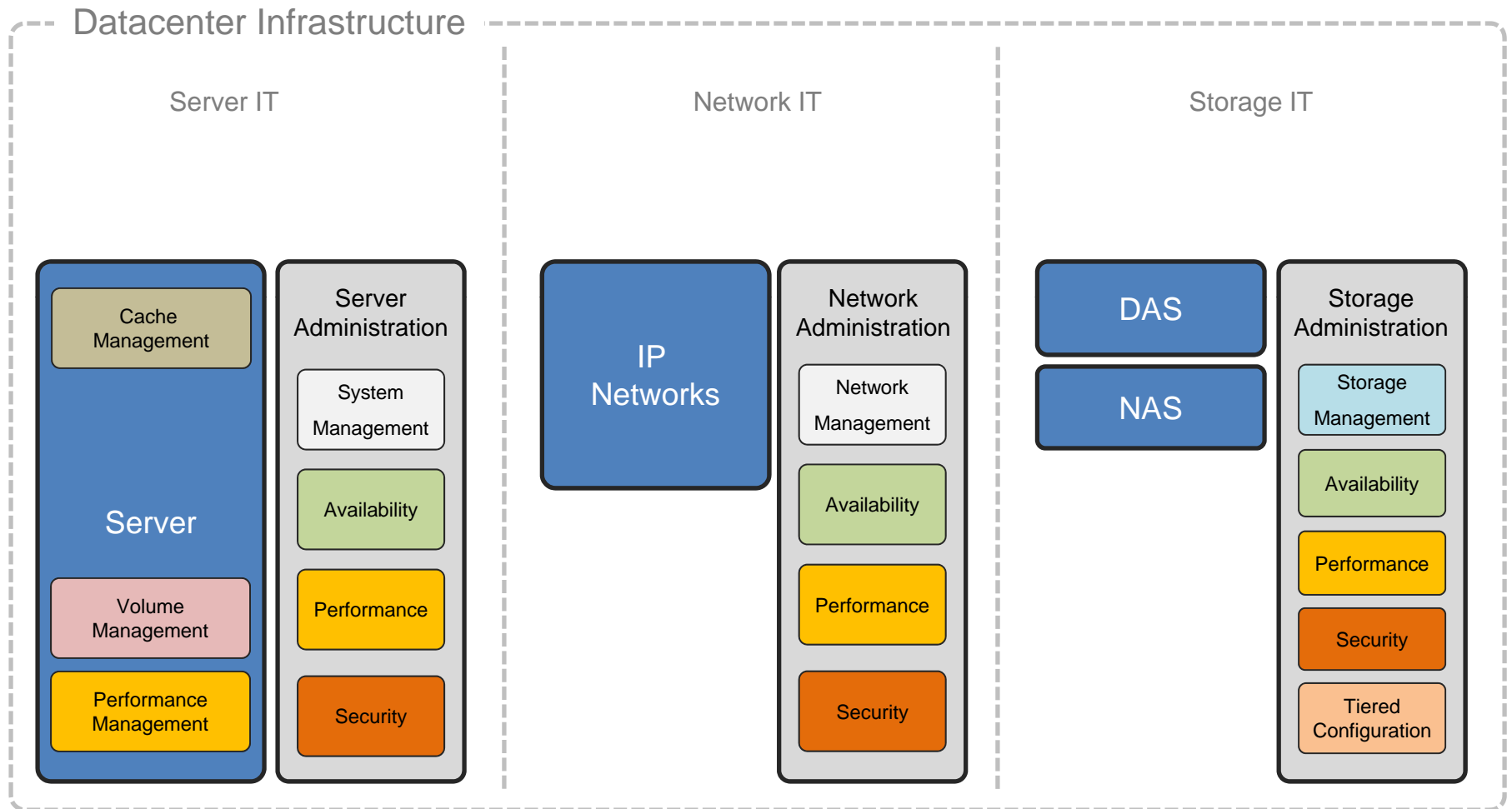


▶ Clouds and the
Evolution of the
Datacenter

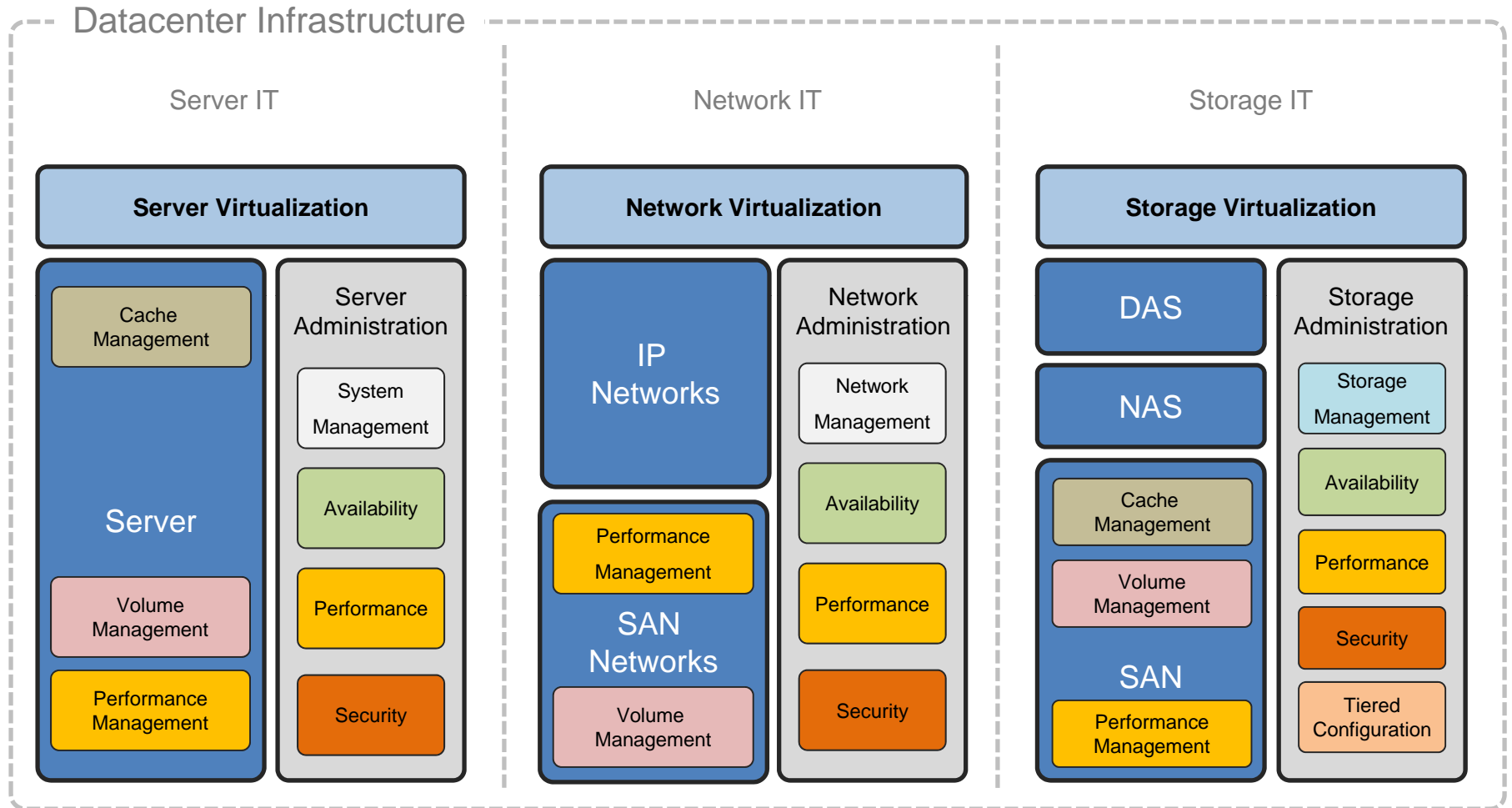
Simple Beginnings - Server with Integrated DAS



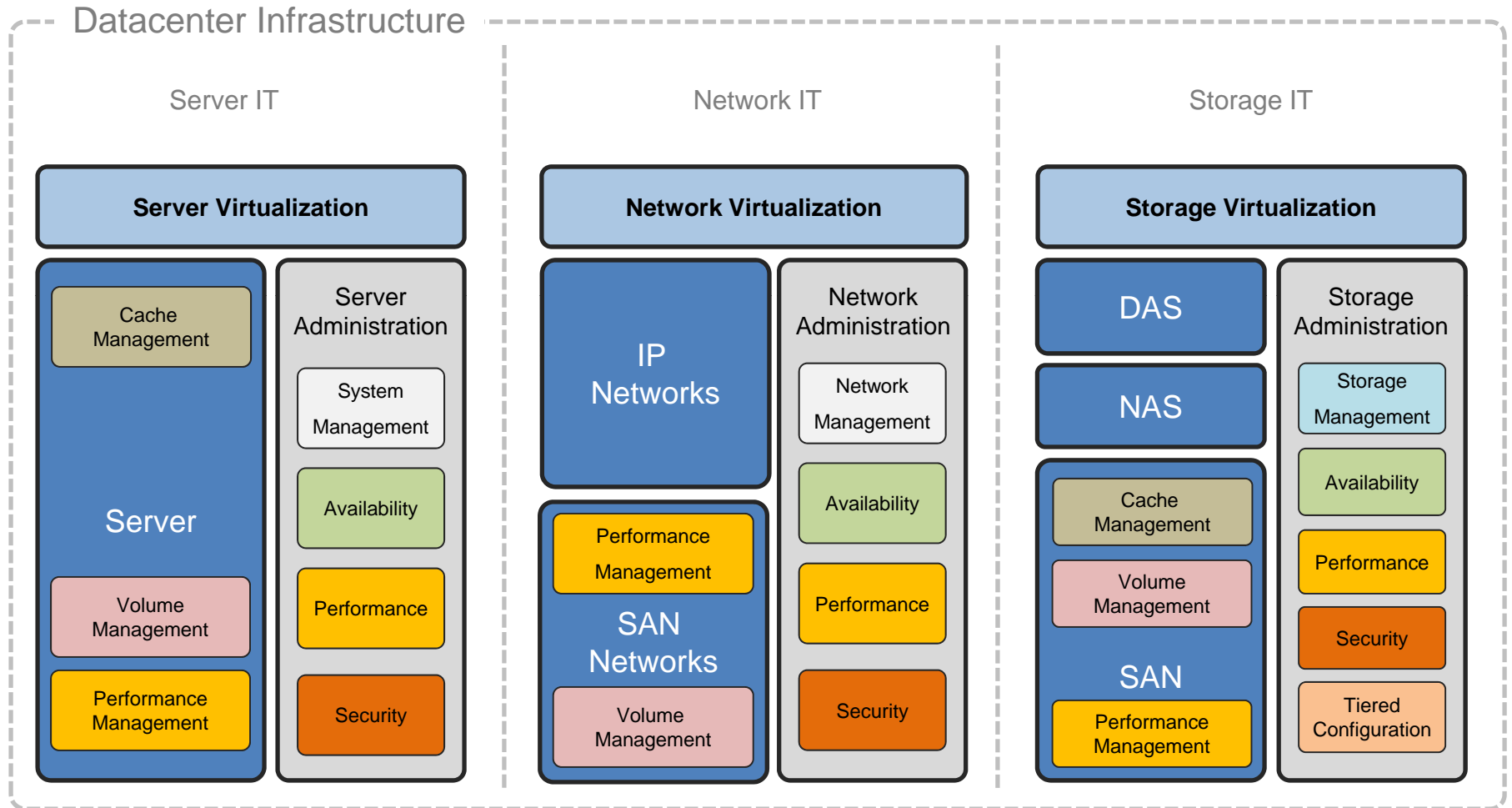
The Introduction of Network attached Storage



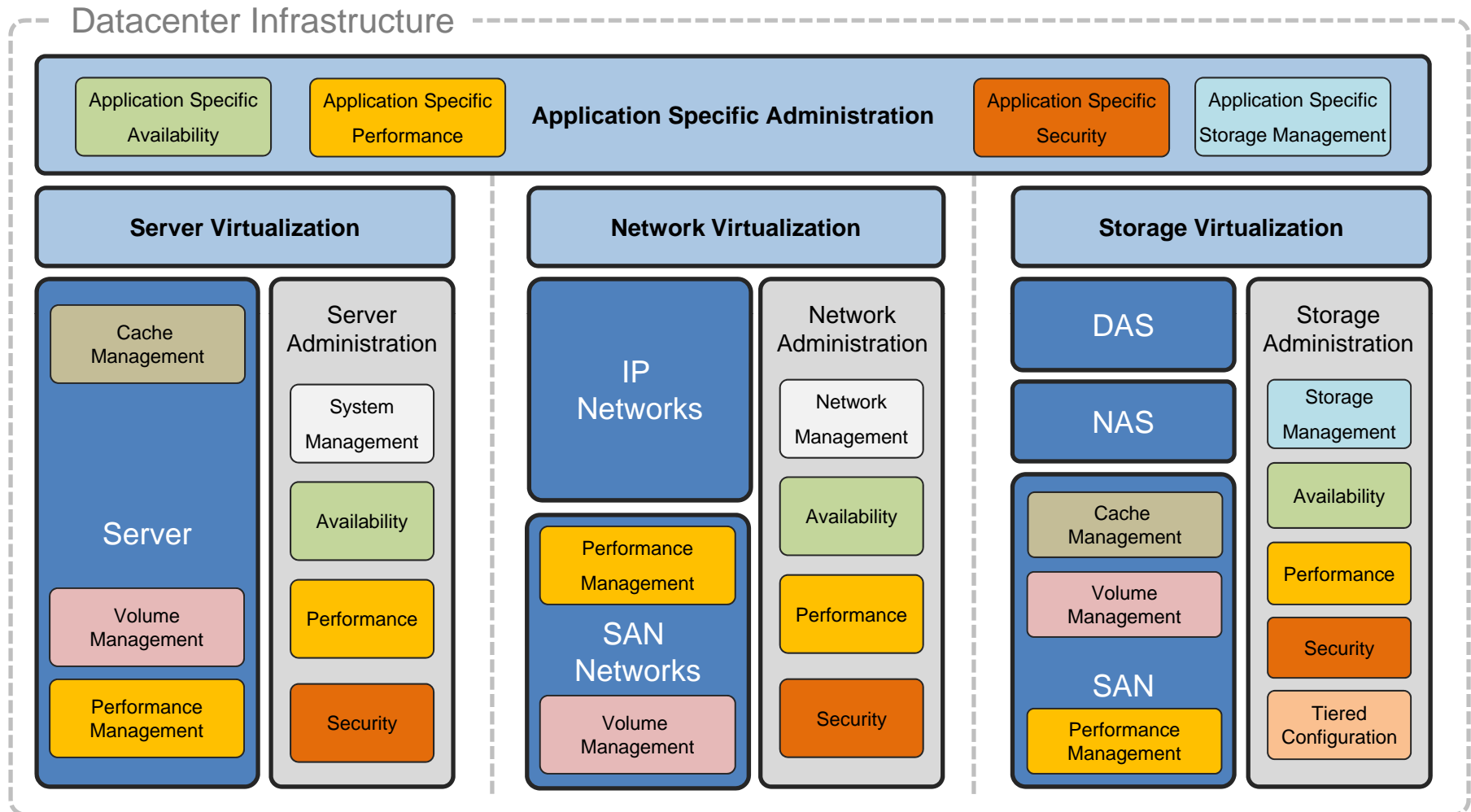
The Introduction of SANs and Virtualization



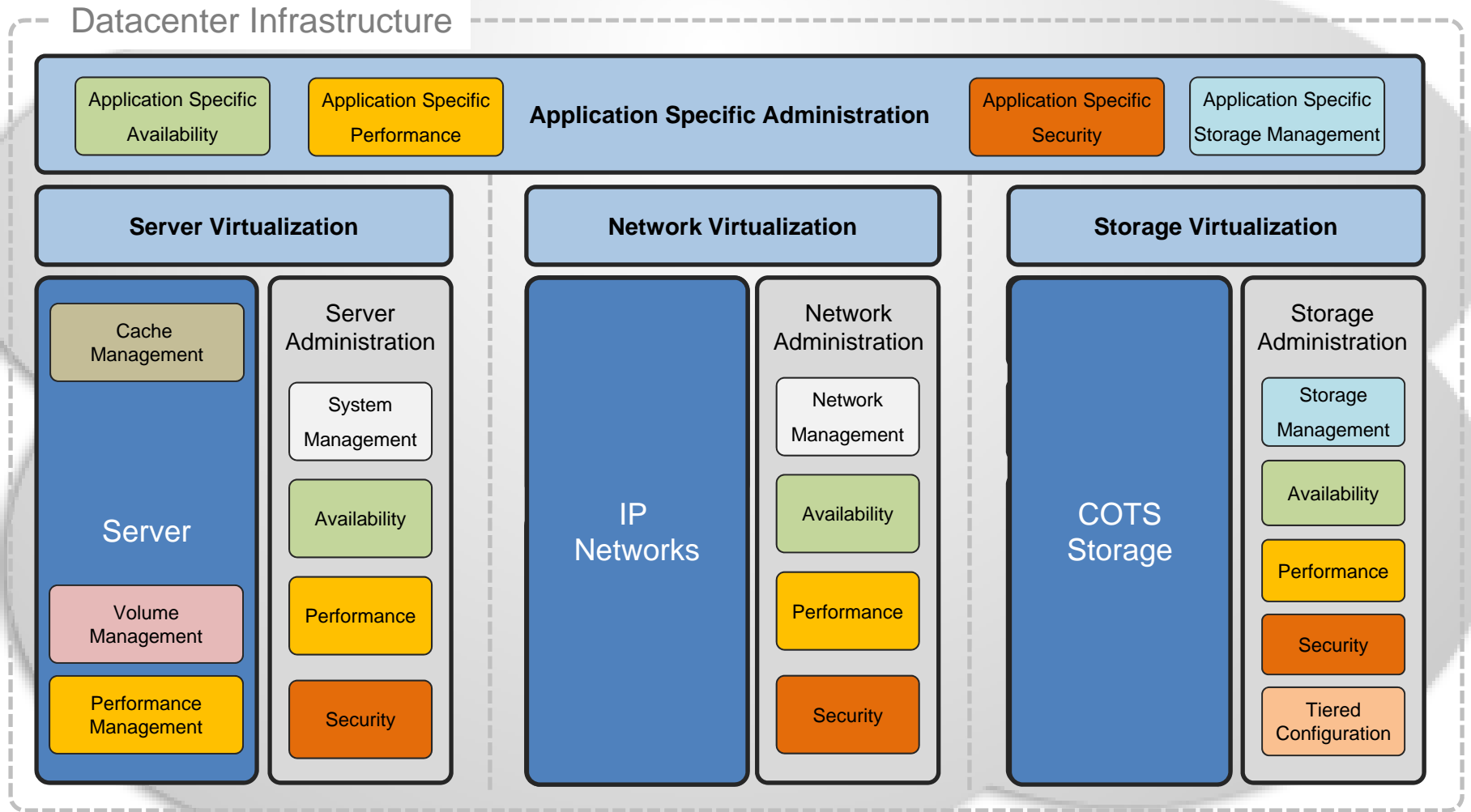
The Introduction of SANs and Virtualization



The introduction of Application-specific management



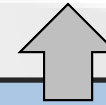
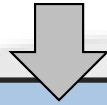
The Emergence of Clouds – No more SAN



Cloud IT Today

Service Developers

Service Consumers



Business Services Components

Application Specific
Availability

Application Specific
Performance

Application Specific Administration

Application Specific
Security

Application Specific
Storage Management

Server Virtualization

Network Virtualization

Storage Virtualization

Cache
Management

Server
Administration

Network
Administration

Storage
Administration

System
Management

Network
Management

Storage
Management

Server

IP
Networks

COTS
Storage

Availability

Availability

Availability

Volume
Management

Performance

Performance

Performance

Performance
Management

Security

Security

Security

Tiered
Configuration

Purpose Of The Workshop Today

- 🕒 Identify long term research tracks that will radically transform the future cloud computing
- 🕒 Collaborate
- 🕒 Present your contributions in the 2nd IEEE International Workshop next year (2010) in Greece

In Conclusion

**"Clouds gather over North Mountain;
Rain falls on South Mountain"**

