



Migration To Cloud Computing

Build, Buy or Both?

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EMEA Communication Sector | Software plus Services

Microsoft Corporation

What's in a Cloud?



Agenda

- Industry transformation & trends
- Cloud computing & Windows Azure
- Combining Public & Private Cloud
- Service Provider Roles
- Next steps

The Industry Debate



- *Security & Privacy*
- *Customizability*
- *Visibility & Control*
- *Data Accessibility*

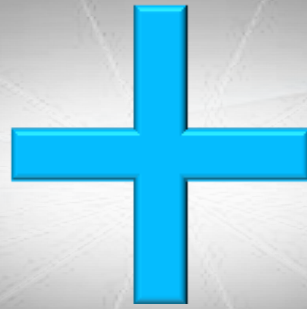
- *Global Reach*
 - *Ease of Provisioning*
 - *Business Agility*
 - *Deployability & Manageability*



Software + Services



- *Best of both worlds*
- *User in control*
- *Deployment choices for IT*



- *Extending tools and platform to cloud*
- *Experience across multiple devices*
- *Best-in-class SLAs and IT governance*



Cloud Computing opportunity



Graph created by Microsoft based on Gartner data.

Source: Gartner, Inc. "Forecast: Sizing the Cloud, Understanding the Opportunities in Cloud Services", by Ben Pring et al, March 18, 2009

Service Providers: Key to Cloud Growth

20k+ WW Hosters**

~15% YoY Growth**



All 'In-house' hosting falls below 50% in 2008 *

Enterprises, ISV's, Public Sector see the value of 3rd party hosting

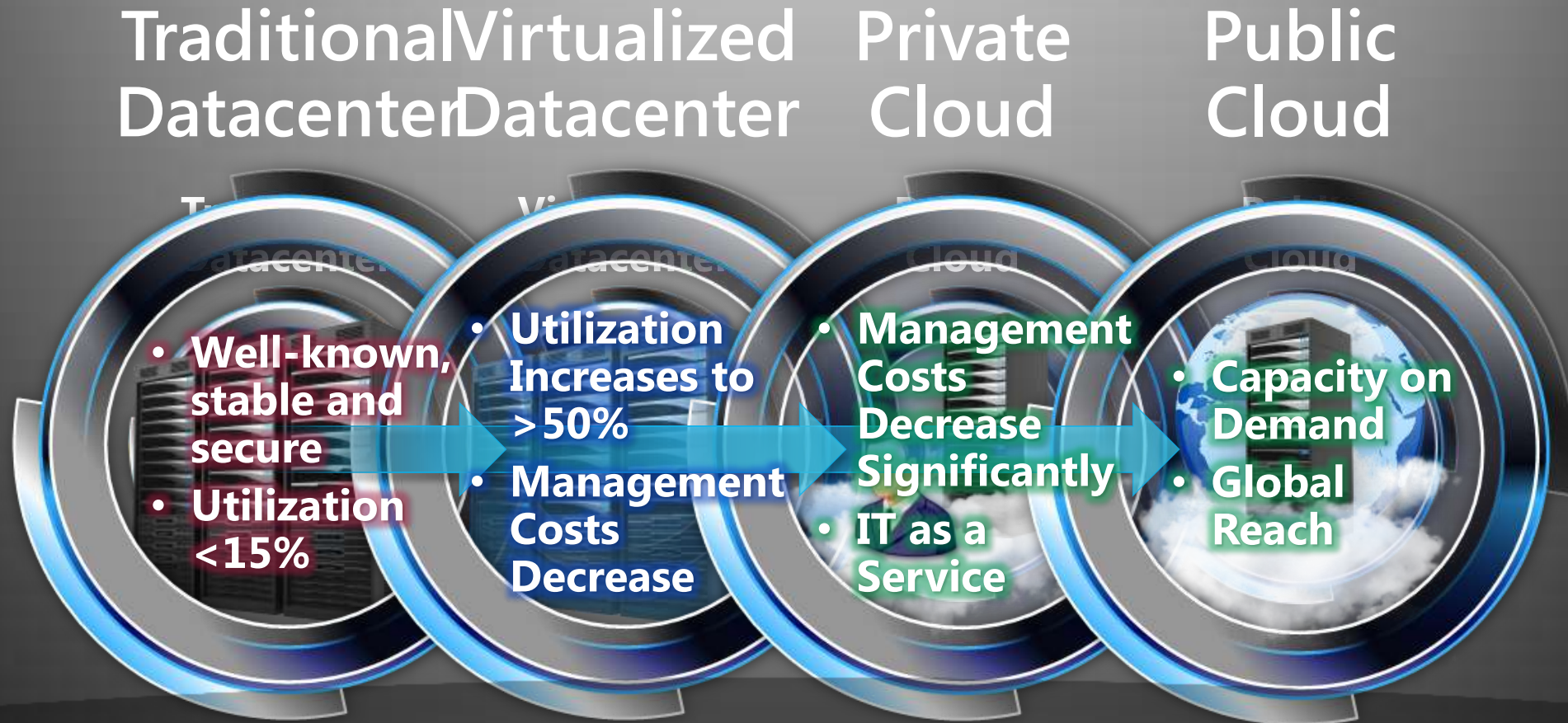
* IDC Survey 2008

** Tier1 Research on Managed Hosting

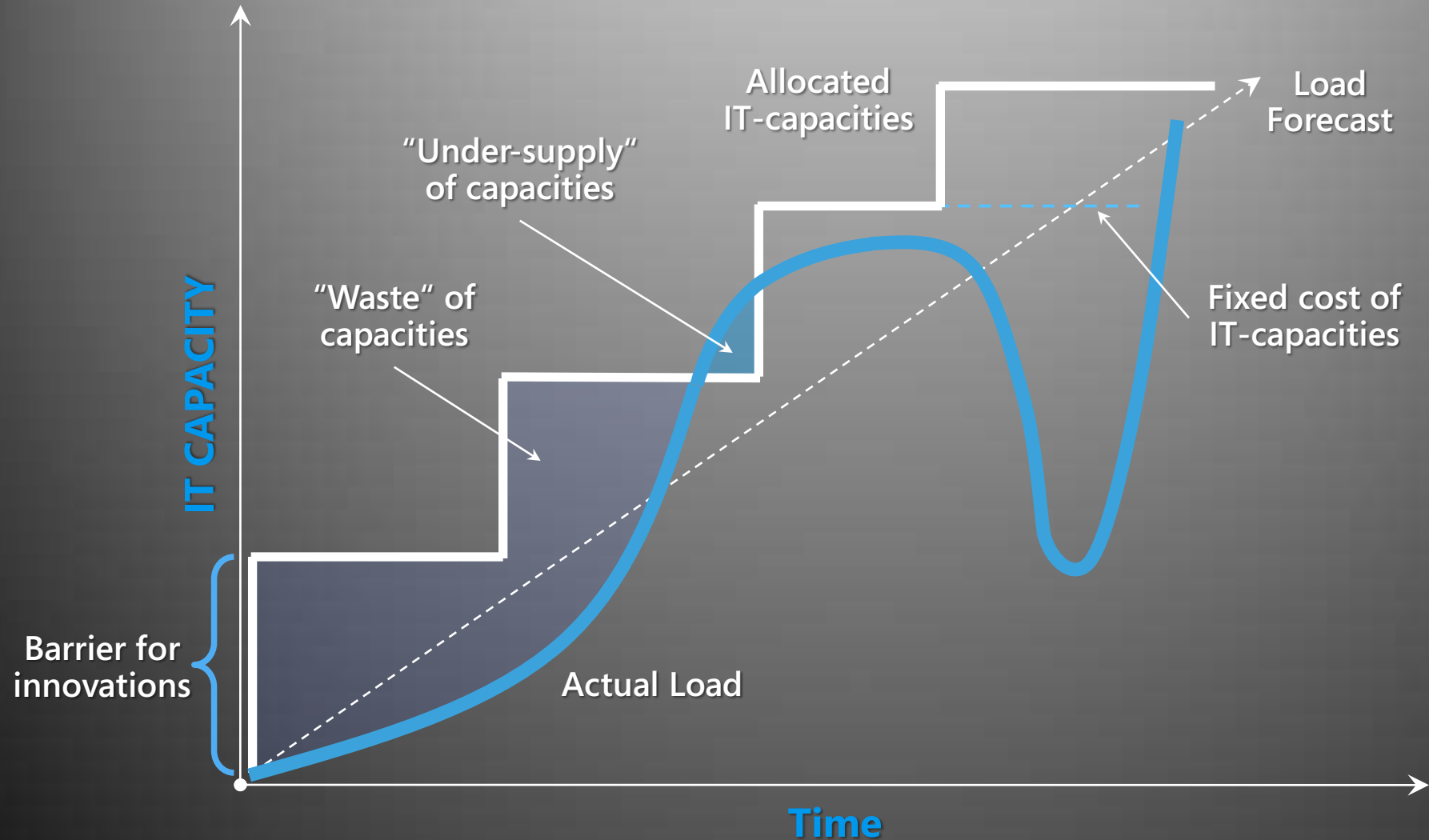


Still early ...

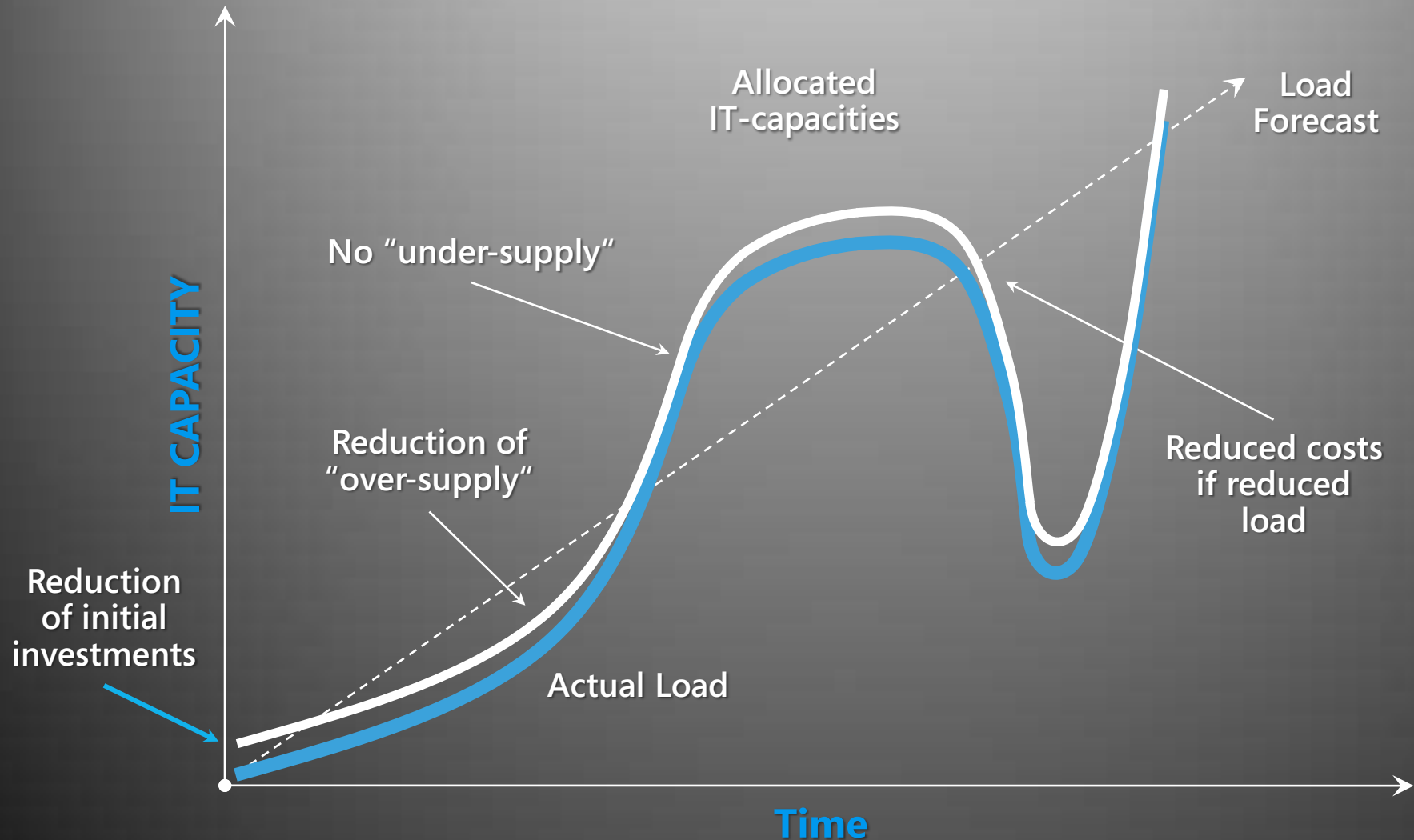
Adapting to Change: Datacenter Evolution



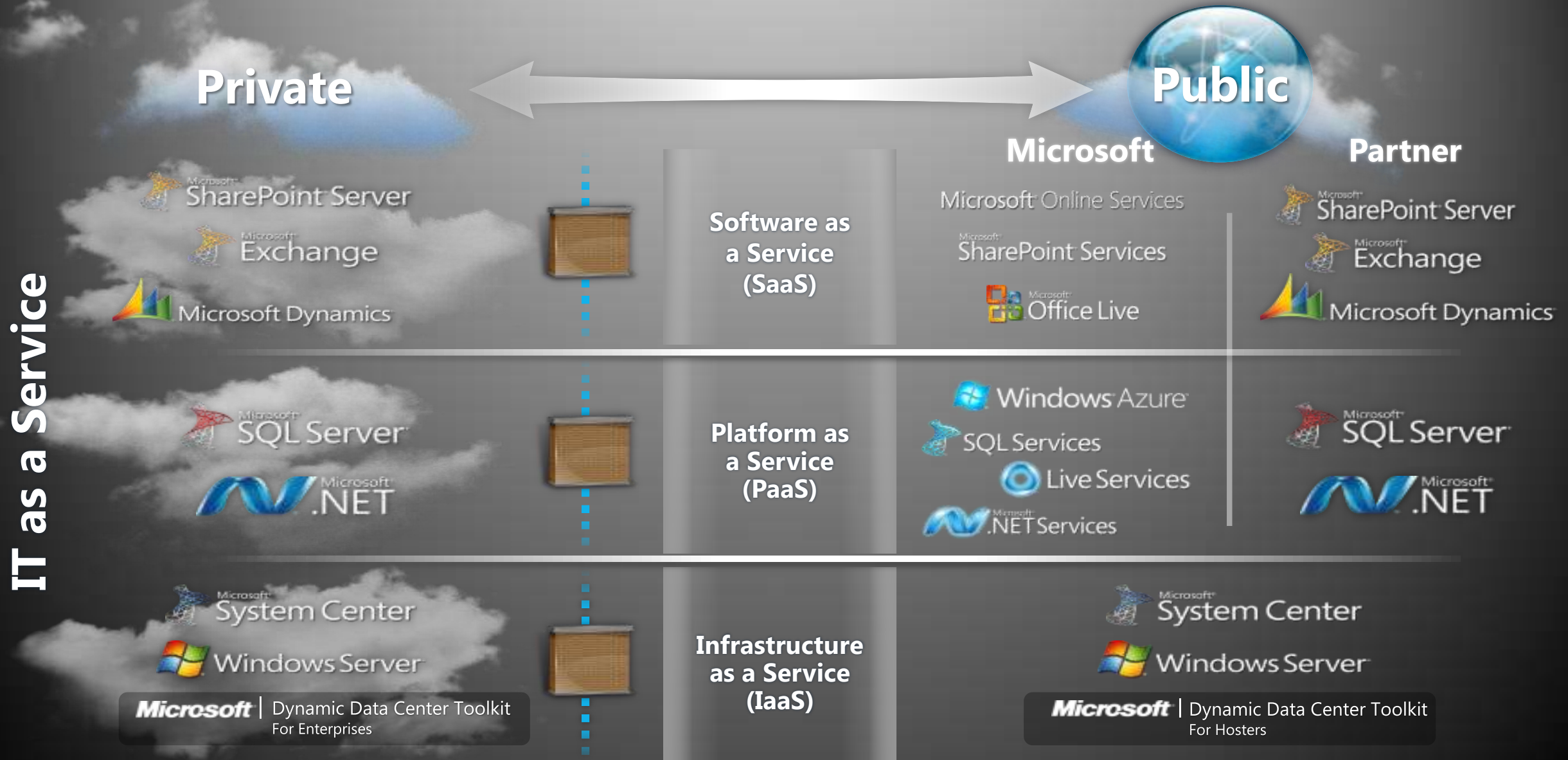
Non-Cloud inefficiencies



Optimized in a Cloud View



The Cloud Computing Continuum





A high-level view

Windows Azure

Web applications



WEB & CLOUDS



Third party cloud

Developer Experience
Use existing skills and tools



Microsoft
Visual Studio



python



Windows Azure



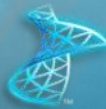
Compute



Storage



Management



Microsoft
SQL Azure



Relational data



Management



Microsoft
.NET Services



Connectivity



Access control

Composite applications



ON-PREMISES



LOB Applications

Azure Services – Purchasing Models

CONSUMPTION

"Pay as you go and grow"

Available at PDC* launch

- ▶ Low barrier to entry and flexibility
- ▶ Optimized for cloud elasticity



SUBSCRIPTION

"Value for a commitment"

Select offers at PDC*

- ▶ Discounts for commitment
- ▶ Plans for payment predictability

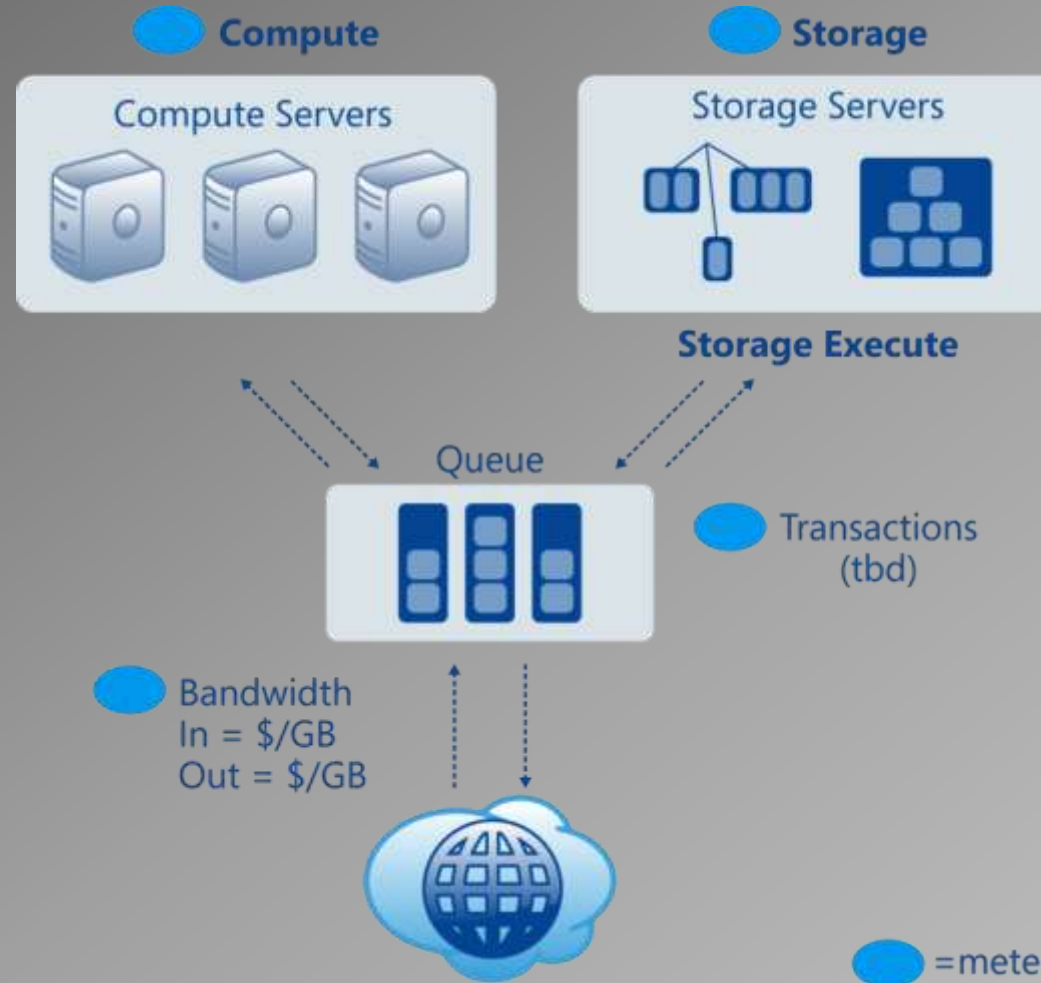


VOLUME LICENSING

"Coordinated purchasing"

Planned for post PDC*

- ▶ Unified purchasing through EA
- ▶ Introduction to volume discounts





KILOWATT HOURS

Metered usage

Combining Private & Public Cloud



Provide managed services on top of your own private cloud

Managed Hosting



Offer integrated management of solutions across your private cloud and Azure

Offer access to shared and dedicated services through your control panel

Mass Market Hosting

Integrate your control panel with Windows Azure and resell access to Azure-hosted applications

Offer web and email delivered over your network

Network Providers

Offer innovative Azure services that connect data and devices over your network

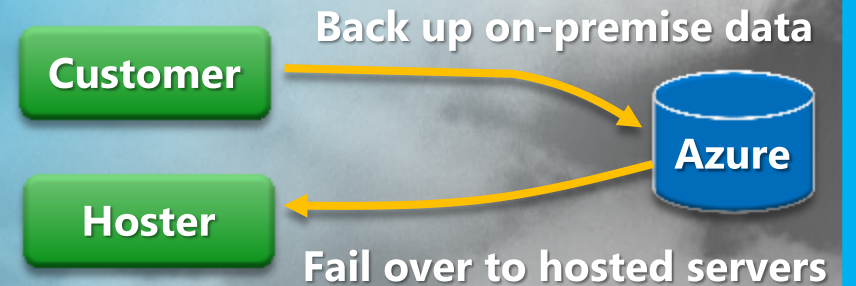


Be the first

Managed Hosting examples

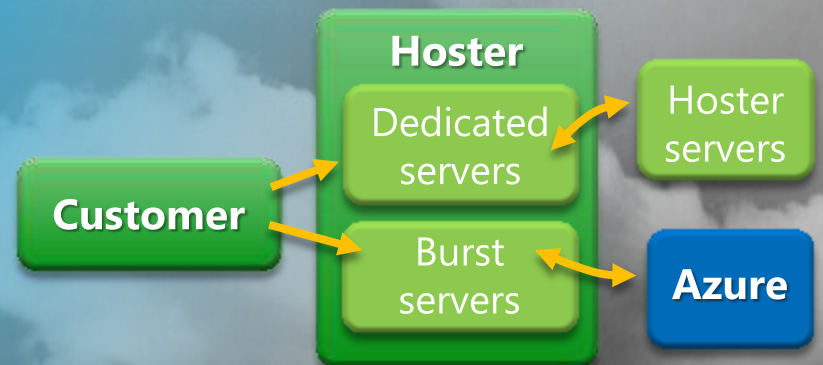
Disaster Recover

An ITIL compliance service where the customer backs up critical system data to SQL Azure. In emergencies systems are restored from Azure, backup to virtual servers at the Service Provider



"Burstable" server capacity

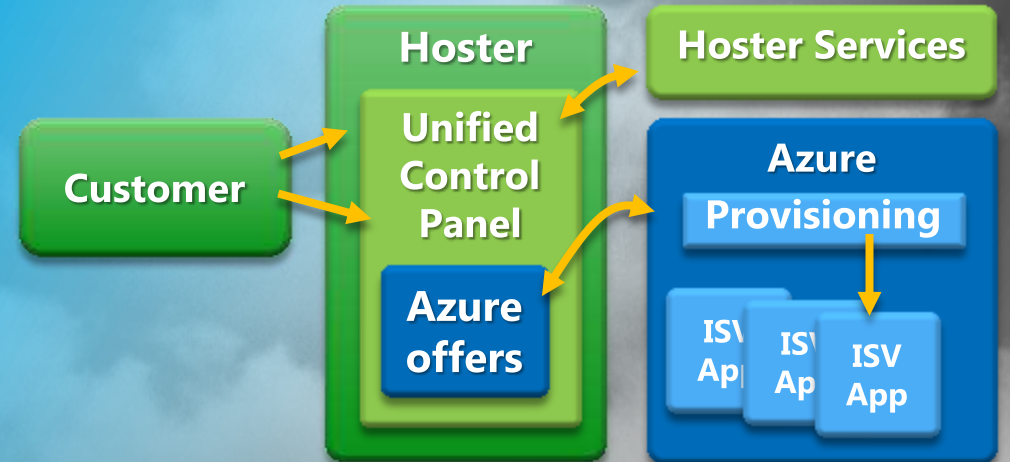
A hoster offers "burst hosting" – temporary development, test and data processing environments for high usage over short periods. By using Azure the customer pays only for the time and capacity used.



Mass Market Hosting examples

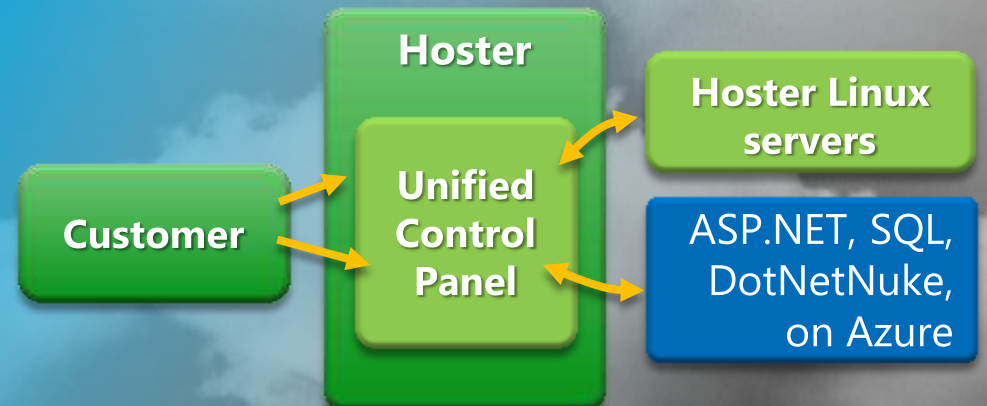
For Windows hosters:

Integrate your control panel with Azure and resell access to SaaS applications running on Windows Azure



For Linux hosters:

Integrate your control panel with Azure and offer Windows hosting without having to run Windows





Bright future ahead

In Summary

- We are still far from the time when everything goes in the Public cloud
- Private and Public Cloud federation will unleash a huge opportunity to win Enterprise IT
- Service Providers should invest in a dynamic infrastructure to optimize cost and create new offerings, use the Dynamic Data Center toolkit to get started

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