

# IBM Cloud

Evoluzionismo digitale: il Cloud come  
fattore abilitante per la competitività

Bologna, 16 marzo 2016

**Maurilio Manzoni**   [gmmanzoni@it.ibm.com](mailto:gmmanzoni@it.ibm.com)

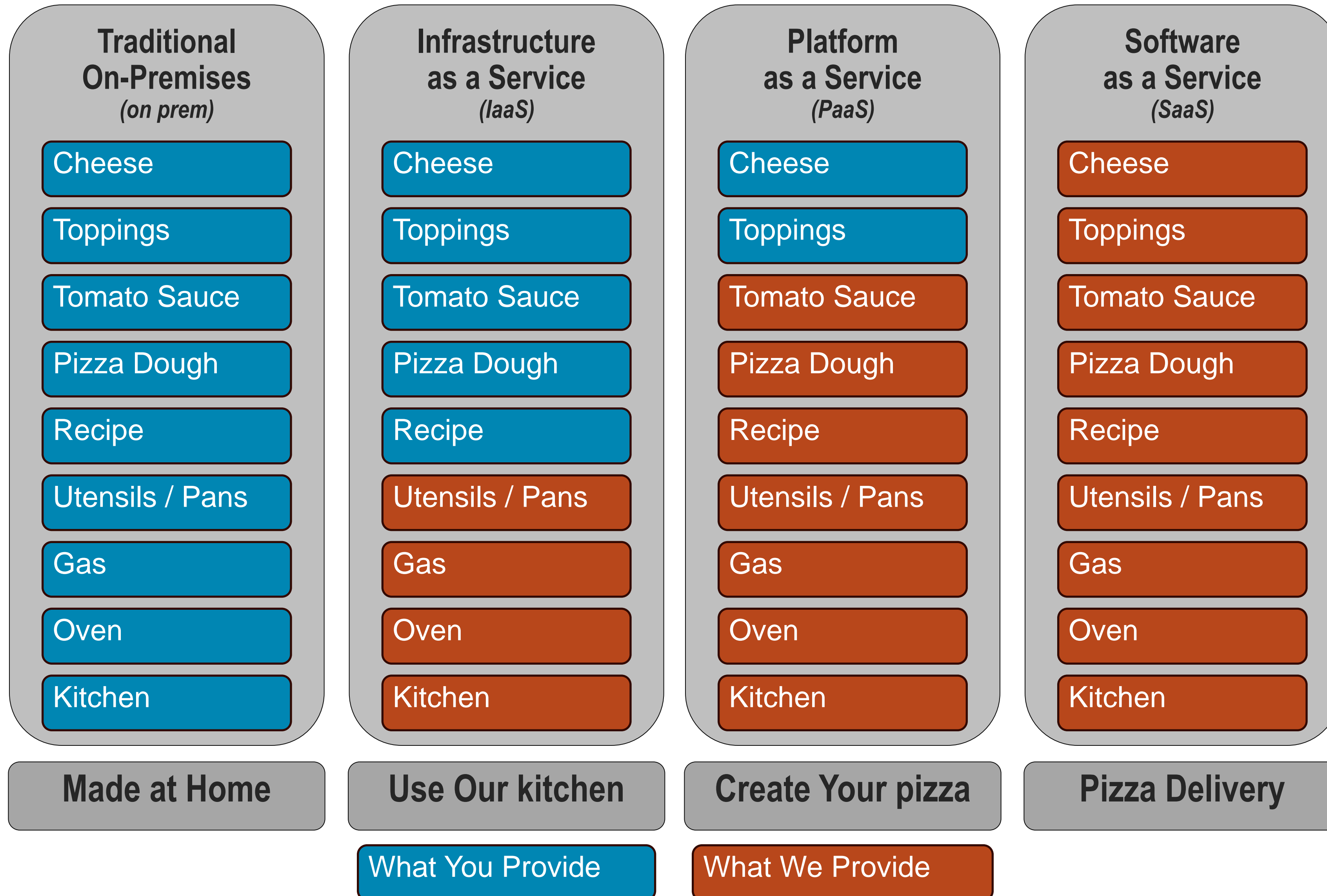
**Do you speak “cloud”?**



Perche' il cloud e'  
importante per te e  
**per il tuo  
business?**

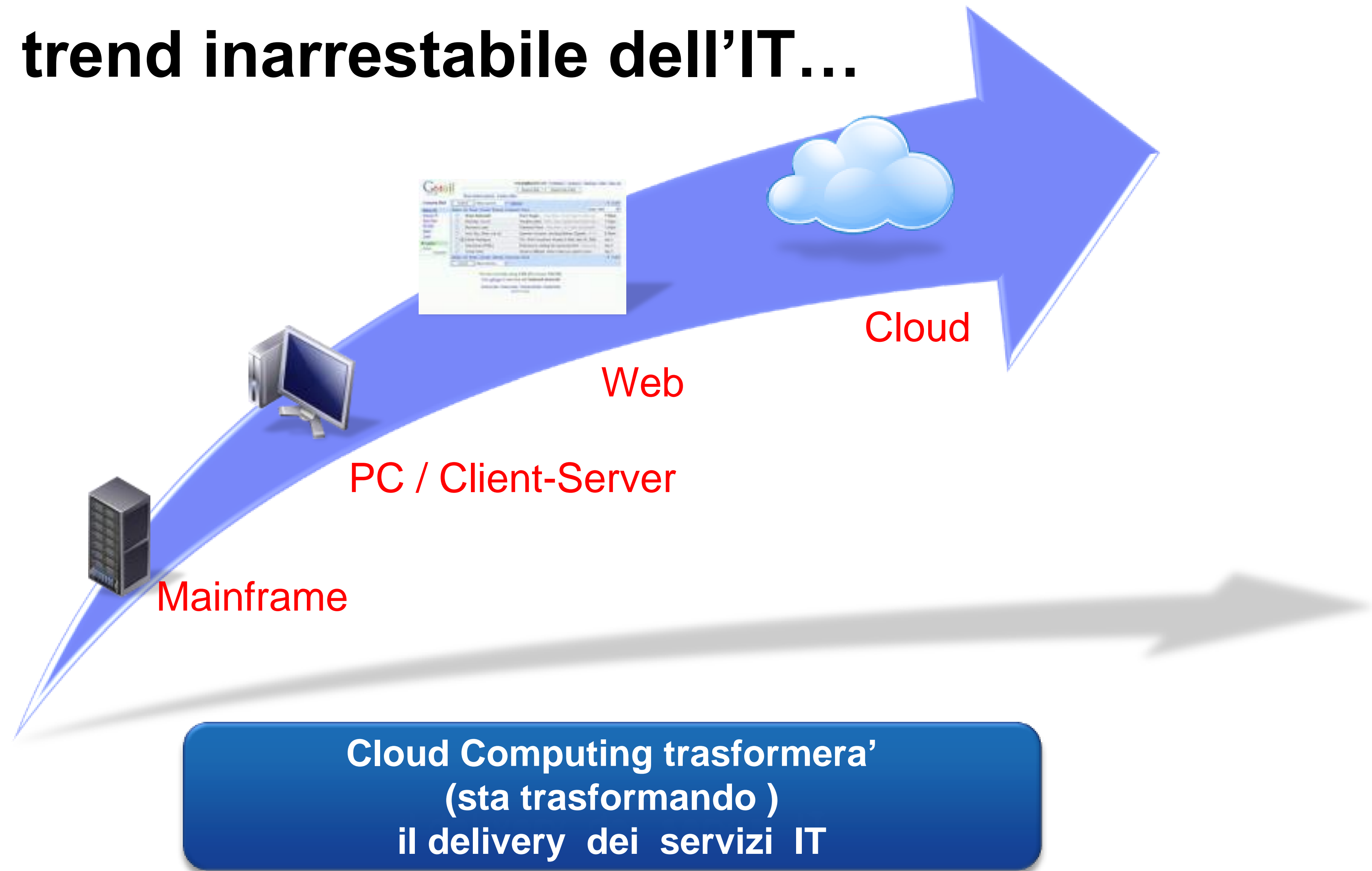


# Pizza as a Service



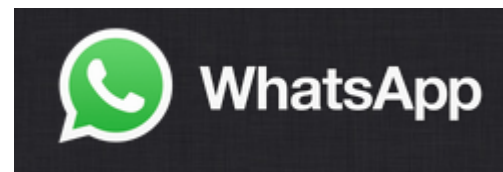


# Il trend inarrestabile dell'IT...





«...La «perturbazione tecnologica» di oggi è universale, la tendenza verso la trasportabilità dei dati, la rivoluzione del cloud, il passaggio generazionale dal possesso della tecnologia verso l'esperienza delle soluzioni creerà notevoli divergenze, nei prossimi anni, tra investimenti vincenti e fallimentari...»



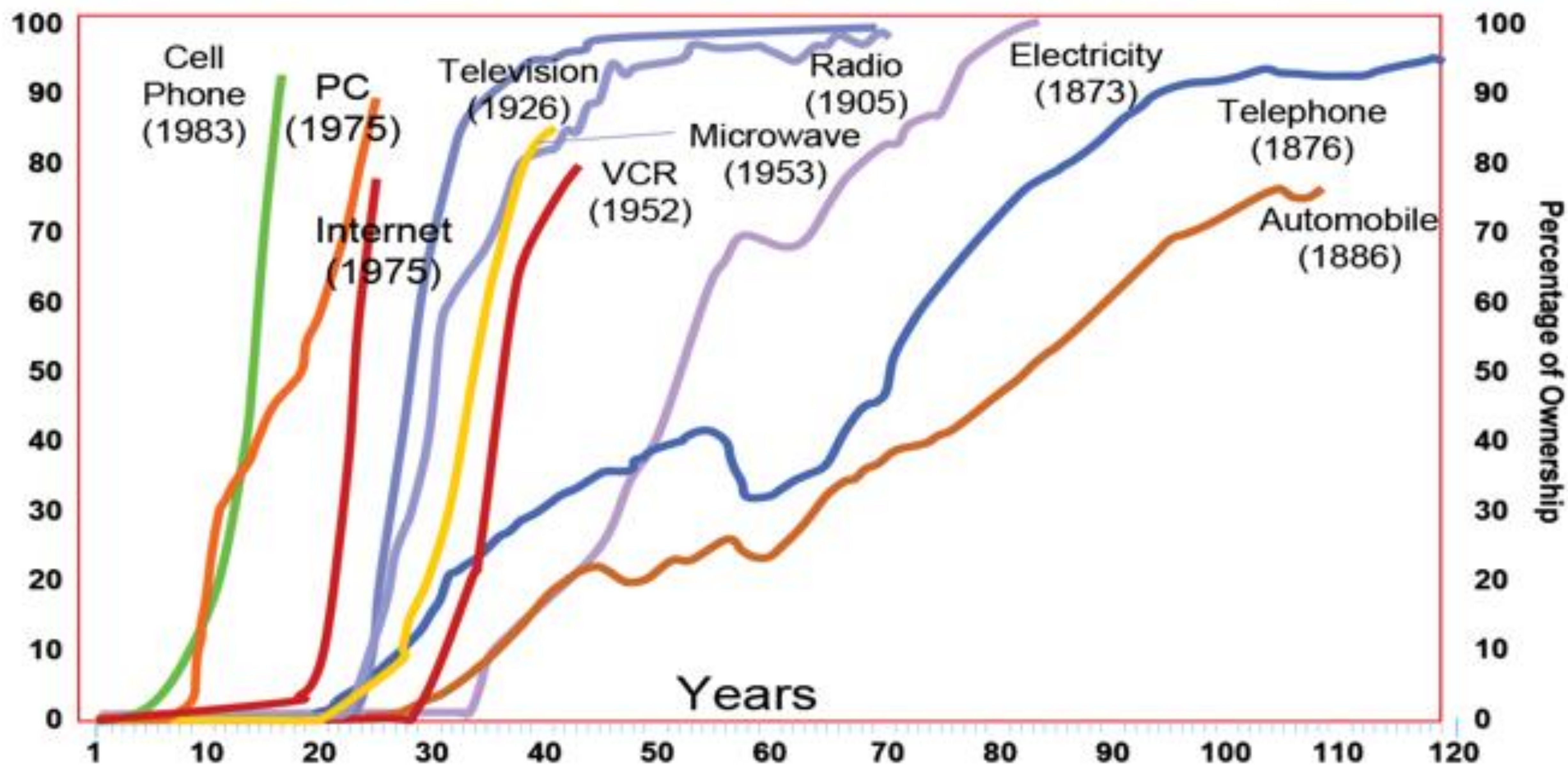
Da economia di possesso



A economia di «esperienza»



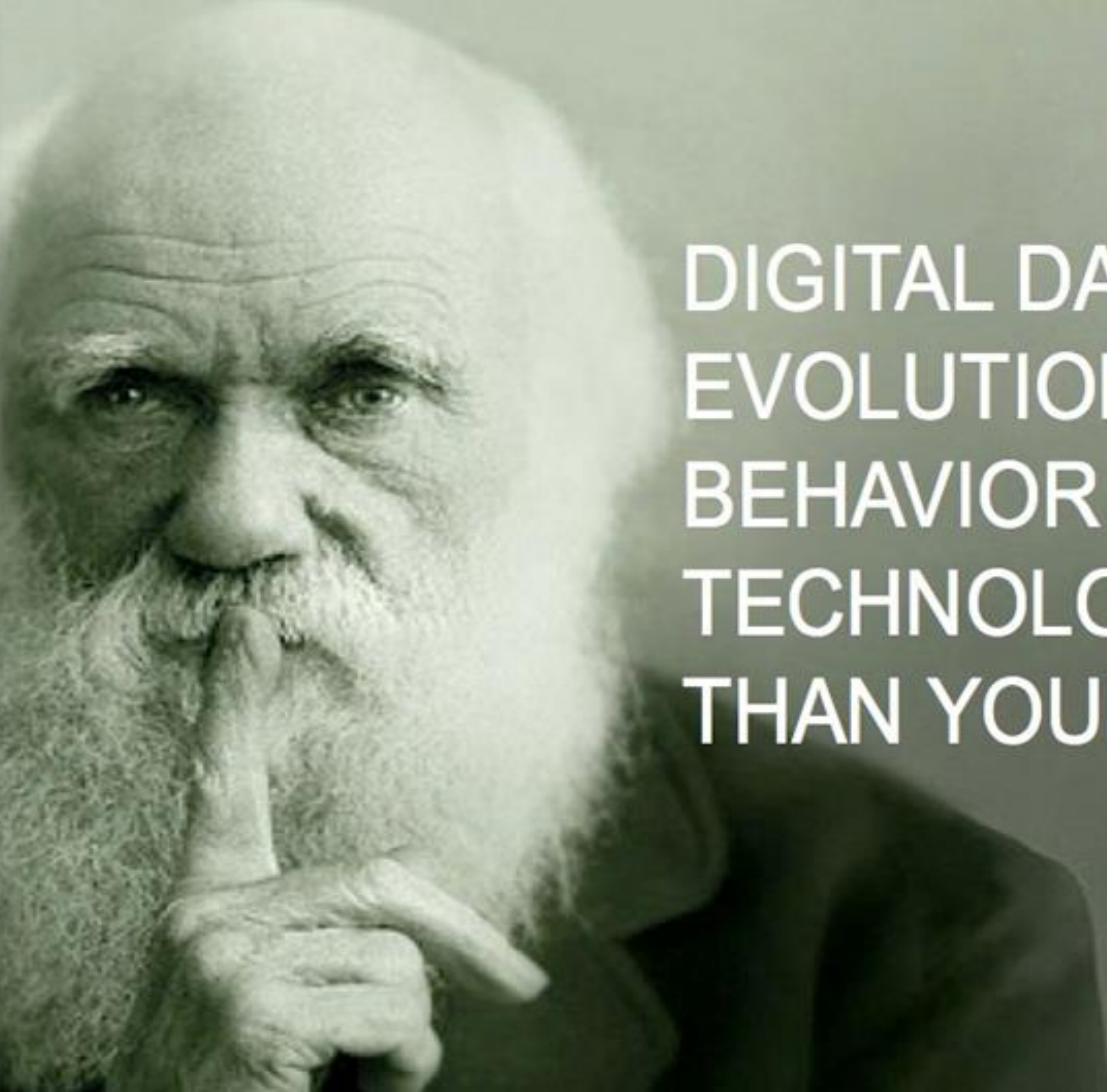
# Commoditization - Change comes faster than ever







E il profilo degli sviluppatori sta cambiando..

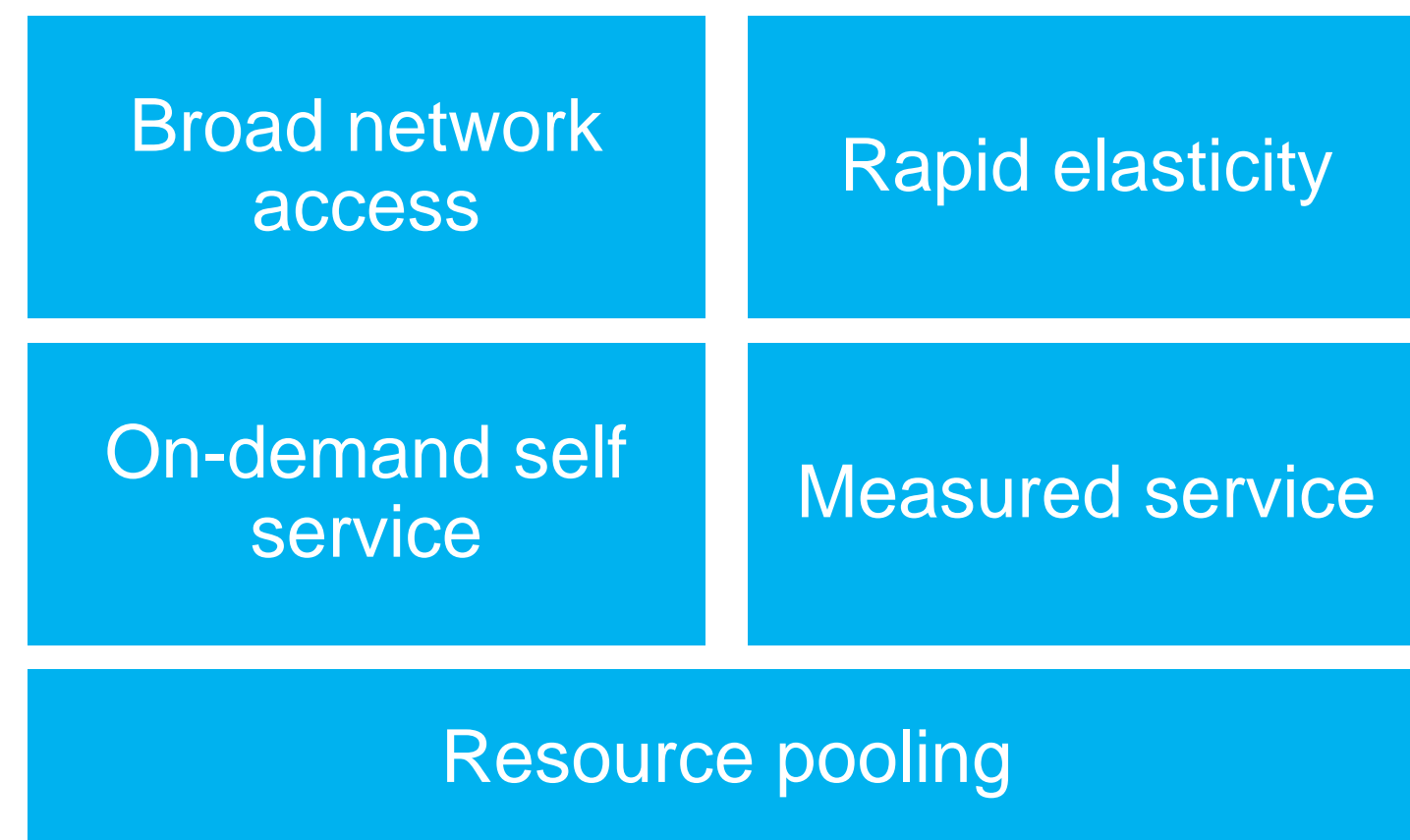


DIGITAL DARWINISM IS THE  
EVOLUTION OF CONSUMER  
BEHAVIOR WHEN SOCIETY &  
TECHNOLOGY EVOLVE FASTER  
THAN YOUR ABILITY TO ADAPT

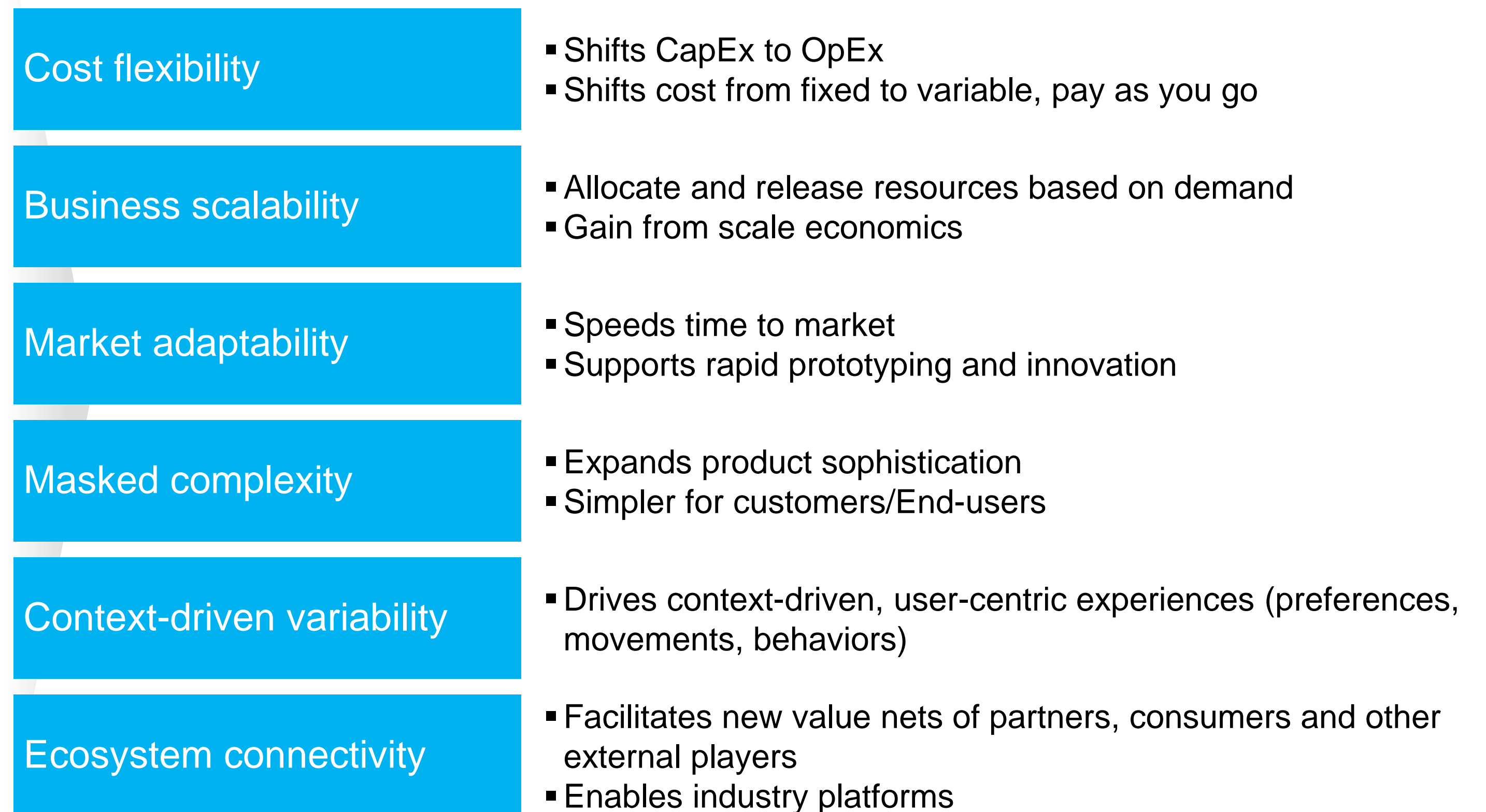
# Il Cloud cambia le regole del gioco . Un motore per l'innovazione

**Cloud computing is a pay-per-use consumption and delivery model** that enables real-time delivery of configurable computing resources (for example, networks, servers, storage, applications, services)

## Cloud's essential characteristics



Cloud empowers six potentially **“game changing”** business enablers



# Buy it or Cloud it?

SOFTLAYER<sup>®</sup>  
an IBM Company

## CLOUD IT



15 minutes  
-  
4 hours

Lead time

Typical usage  
**70-90%**

Pay per use  
monthly or hourly  
-  
Switch off  
-  
No pay post project  
anymore

Utilization



No network downtime  
-  
No cloud portal  
downtime  
-  
Redundant  
infrastructure  
-  
2 hour HW replacement  
-  
24x7

Maintenance



Any place  
-  
Any time  
-  
Any device

Access



Management  
tools  
included

Management



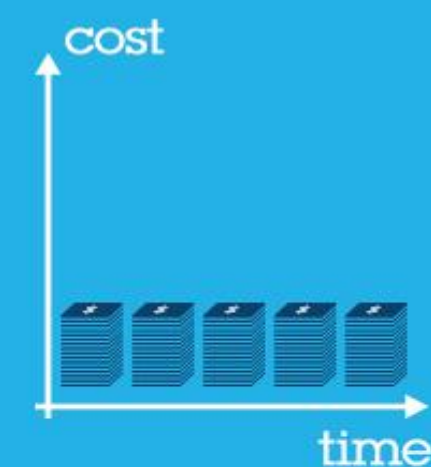
Physical Security  
and basic  
data  
security  
free

Security



OPEX

Finance



Costs

## BUY IT



4 - 6  
weeks+

Lead time

Typical usage  
**10-20%**

100% unused  
post-project  
-  
It stay in the  
inventory

Utilization



Manual  
-  
Additional expense  
-  
Requires downtime

Maintenance



Network  
investment  
required

Access



It might  
require  
additional  
software

Management



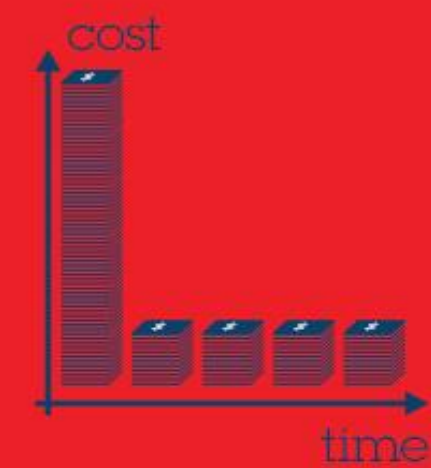
Physical  
and  
Data  
Security Investment

Security



CAPEX  
+  
OPEX

Finance



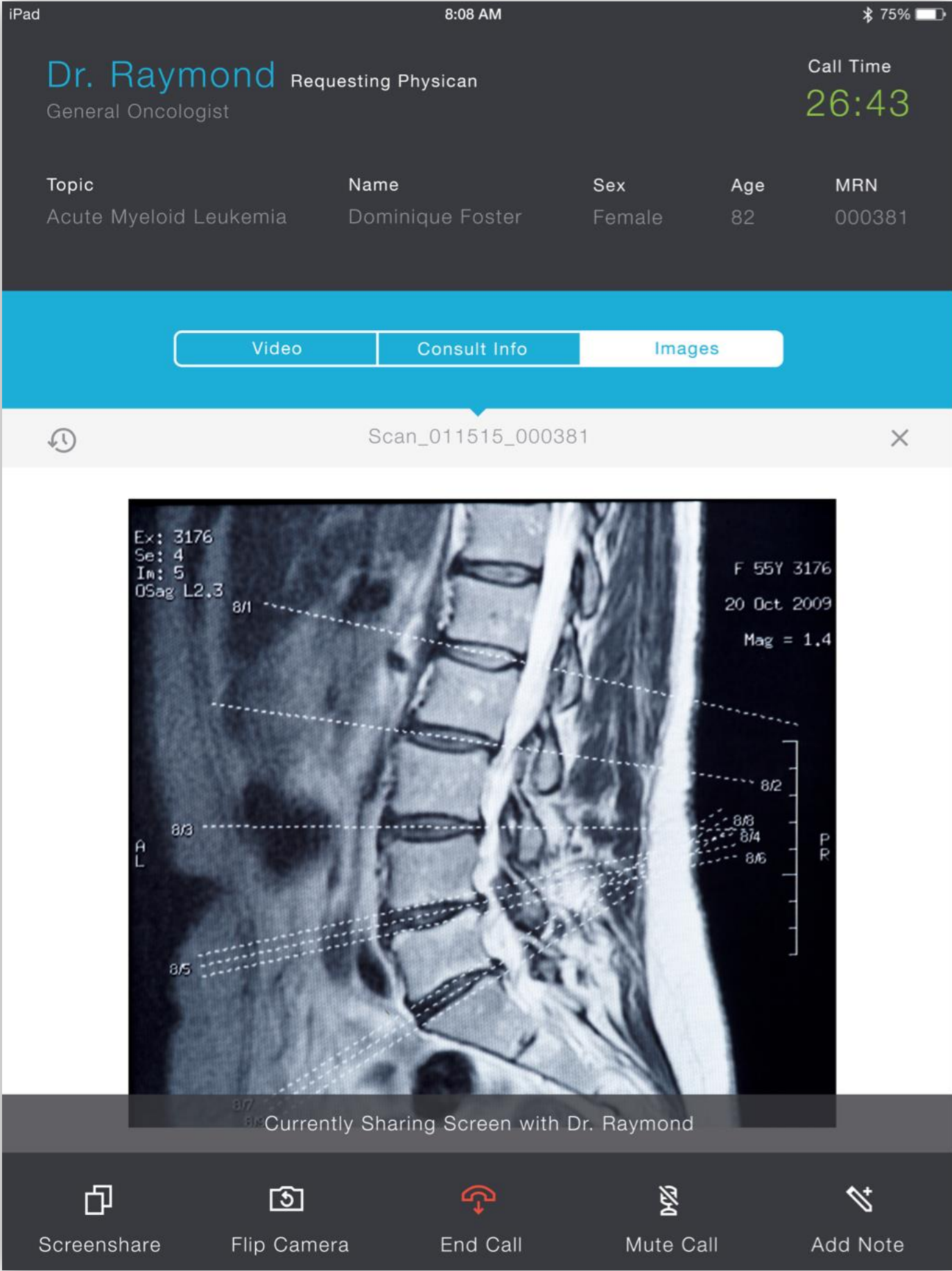
Costs

# Cosa cercano i clienti ? ....RISULTATI !

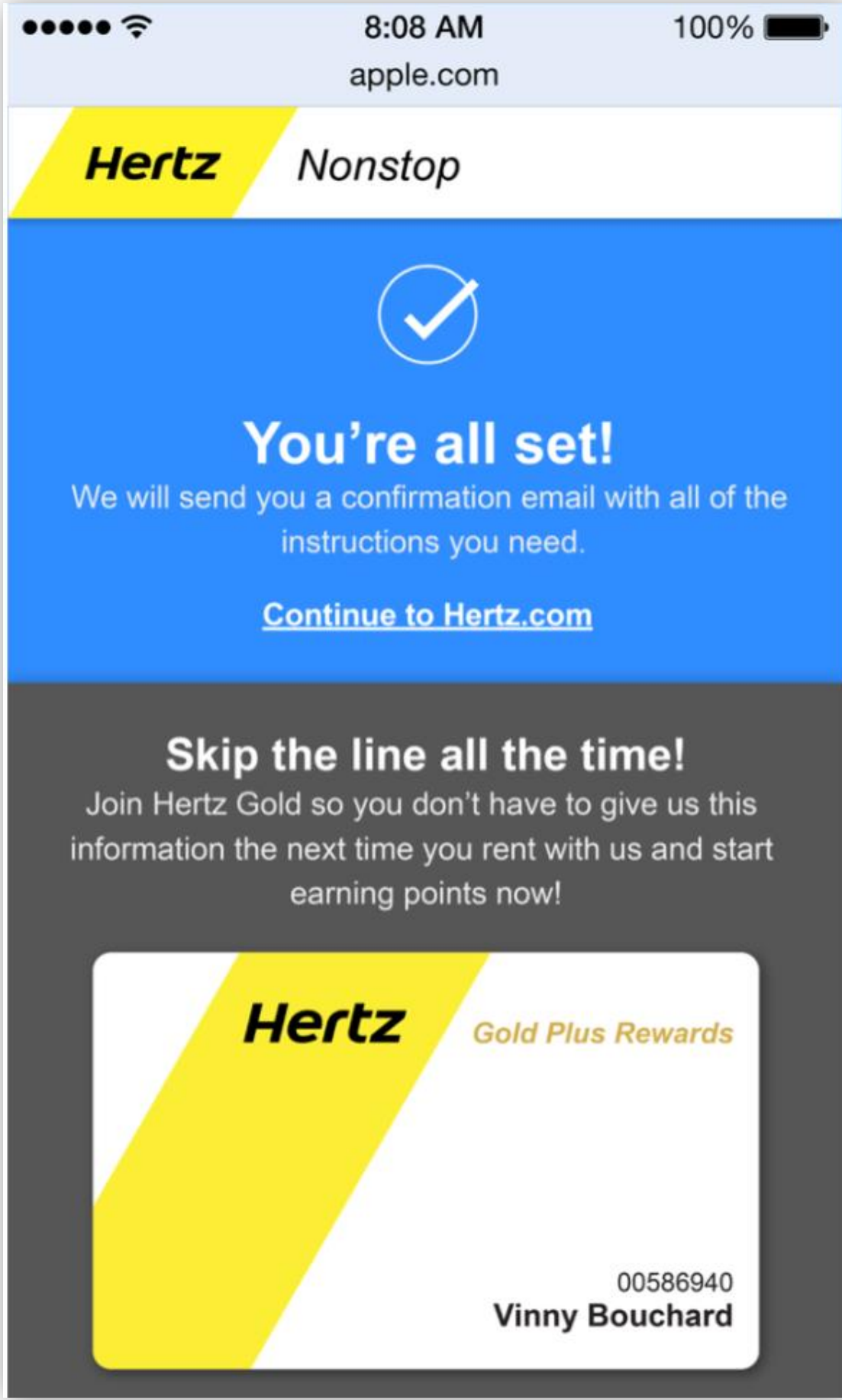
Ma questo richiede approcci diversi per diversi tipi di applicazioni



New App



Transitional



Legacy Extension

# Will you disrupt or be disrupted?

**1/3 of the top 20** companies in every industry will be disrupted over the **next 3 years**

- IDC FutureScape, Nov 2015

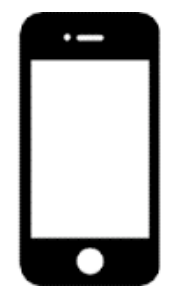
## *Cosa cercano i clienti come risultati ?*



La necessita' di velocita' in mercati in rapido cambiamento



Nuovi modelli di business dai concorrenti "born on the cloud"

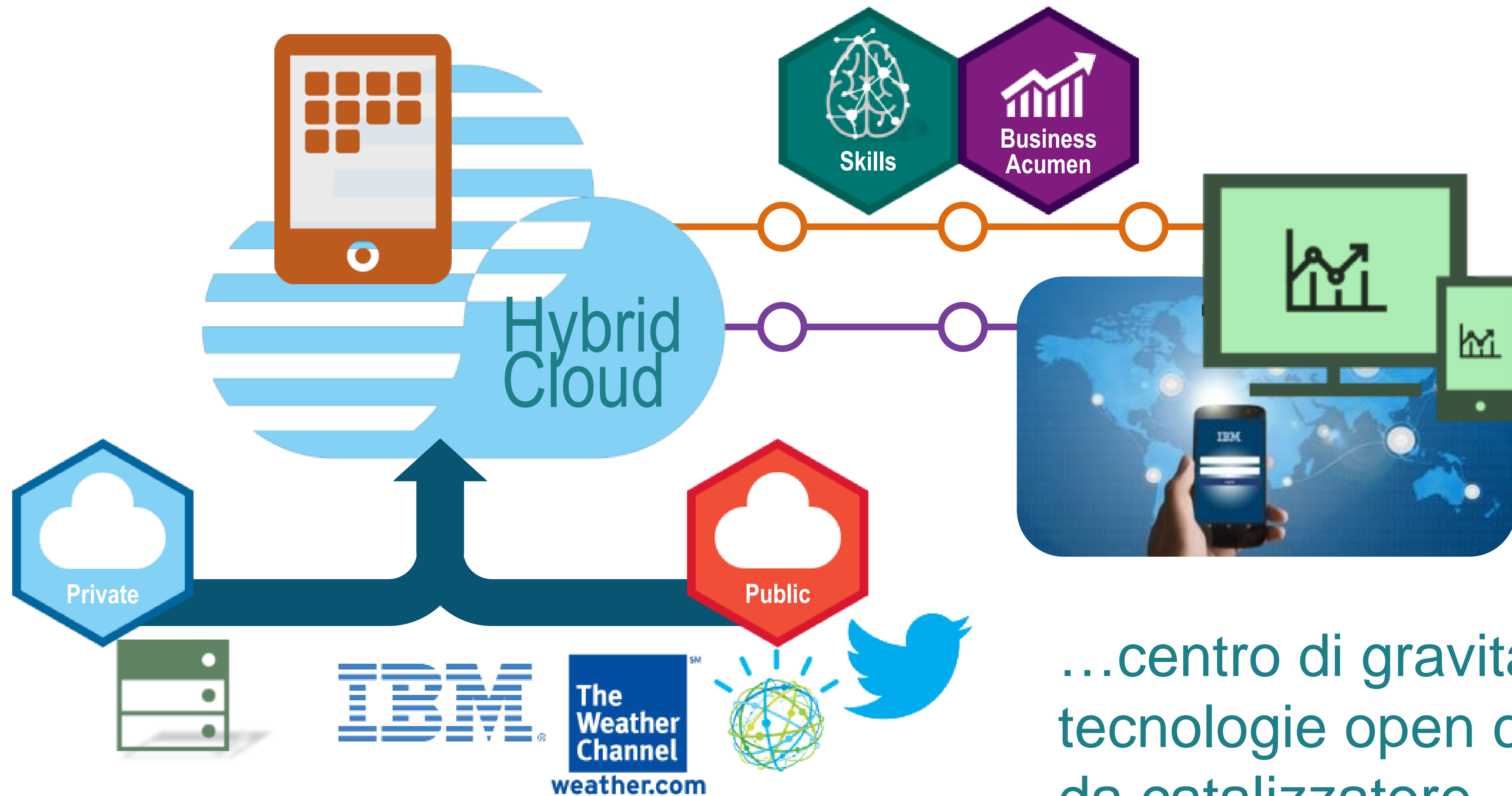


Aspettative dei consumatori circa il modello di "digital engagement"



Pressione del mercato per ridurre i costi dell'IT

# La tecnologia e' abilitante a una nuova era di innovazione ...



...centro di gravita' sono le tecnologie open che fanno da catalizzatore

Cosa rende  diverso ?



# SOFTLAYER®

an IBM Company



## Performance

Consistent  
**compute power**  
and a high performance  
global network  
for self-service IaaS.

## Flexibility

A range of options -  
**bare metal, virtual  
server instances and  
private clouds**  
support a dynamic hybrid  
cloud strategy.

## Control

Self service or  
fully managed with a full  
featured **Infrastructure  
Management System  
and robust APIs**  
to support a dynamic  
cloud strategy.

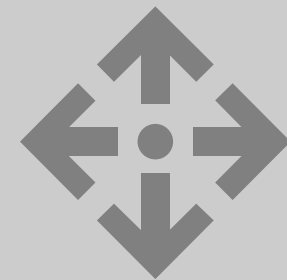
# SoftLayer una scelta a parte....fuori dalla mischia !

The initial cloud revolution was based on assumptions such as:

All resources are **virtualized**



All resources are **shared**



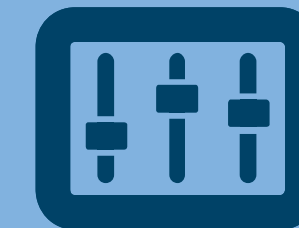
But cloud computing needs have evolved.

SoftLayer® embraces the idea that:

... **virtualization** is a choice with a flexible set of options



... resources can be **shared, dedicated or mixed**

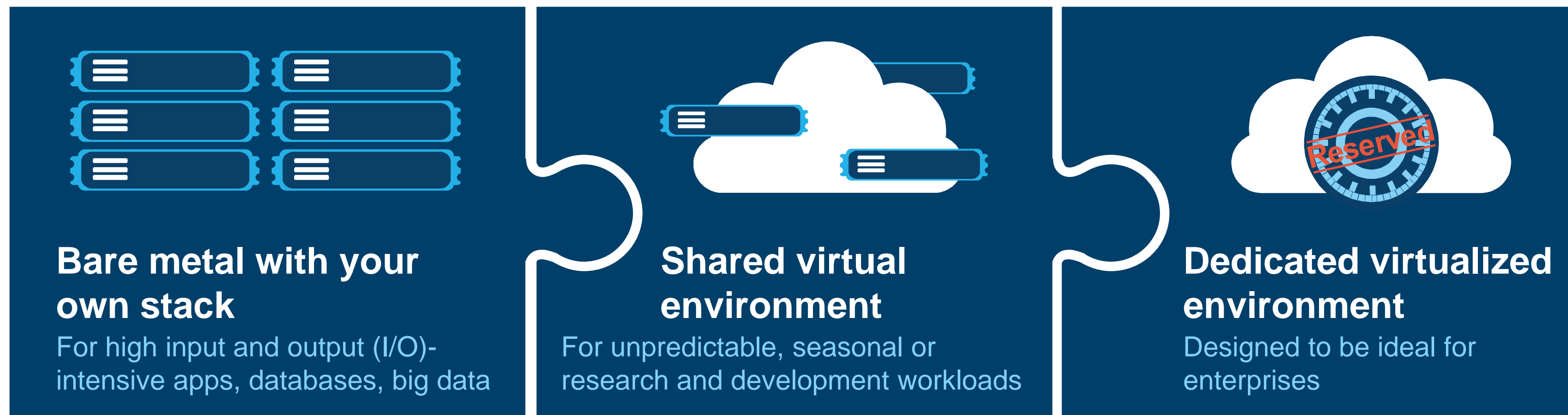


But you have the **ultimate CHOICE**

SoftLayer offers a broad portfolio of infrastructure choices to help you achieve greater business agility.



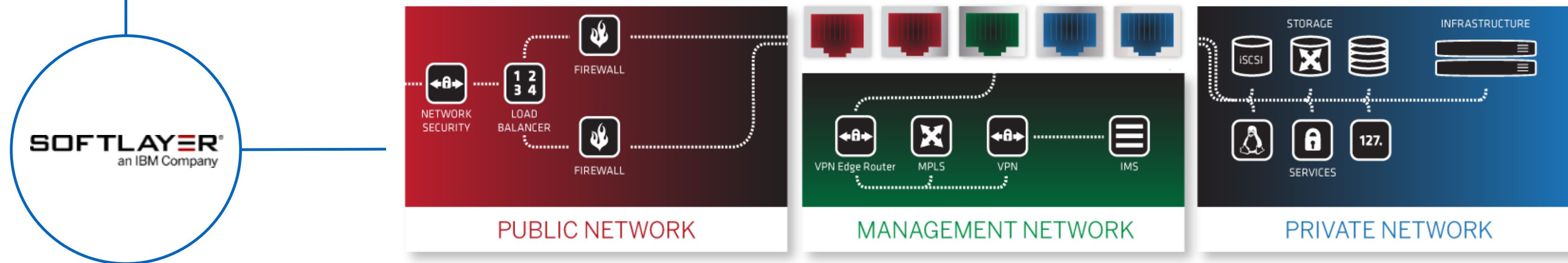
Any compute and storage combination at any time is available in three models.



- Build and customize the environment based on what you want to achieve
- Fine-tune to meet changing business needs or respond to competitive pressures
- Additional services for compute, storage, network, security, platform management and big data are available

# At its core, SoftLayer is comprised of a unique, triple-network architecture

- High-performance public network with transit from multiple tier-1 carriers
- Secure out-of-band (OOB) management via VPN
- Private network for intra-application and inter-facility communications, access to shared services
- Native IPv6 support
- Virtual racks for integrated management
- Complete suite of network services



# IBM SoftLayer: Total Access, Control and Transparency

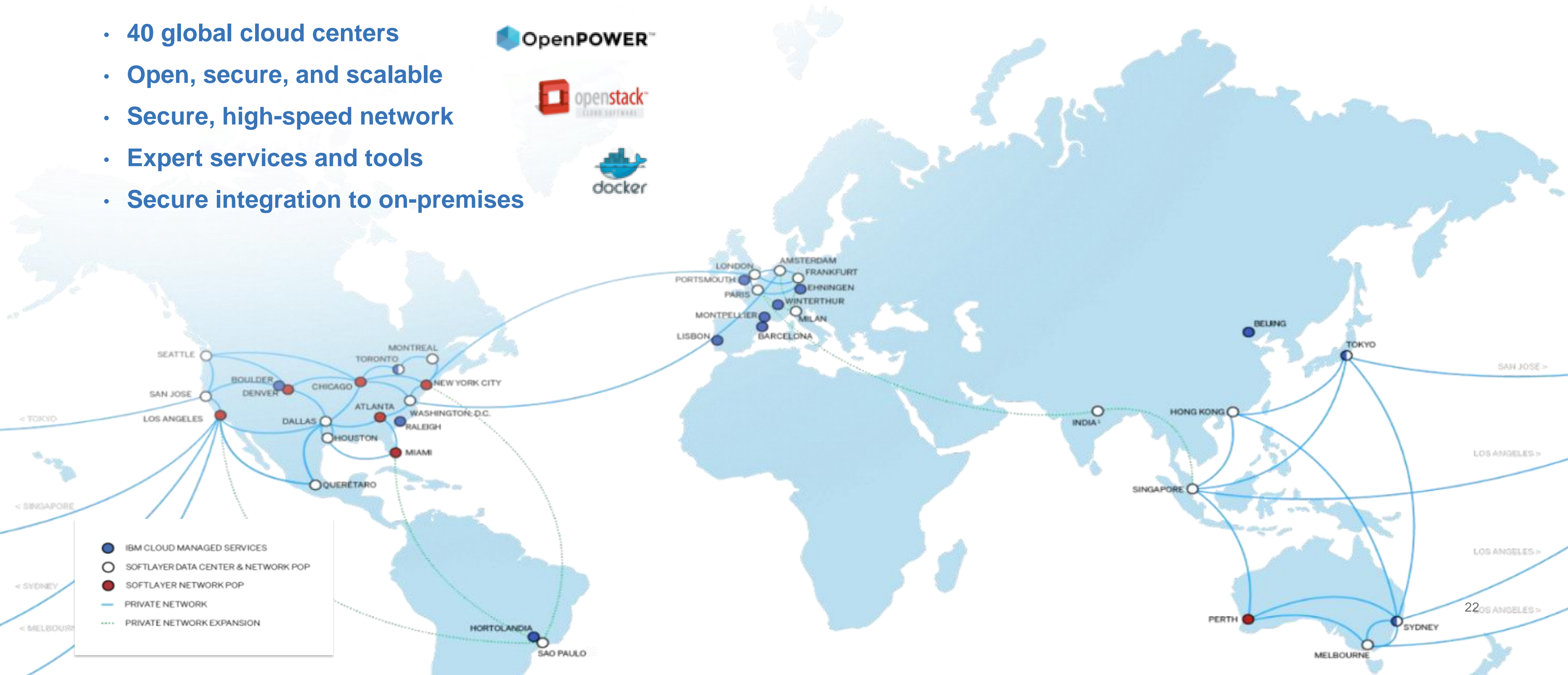
**SOFTLAYER**<sup>®</sup>  
an IBM Company

- 40 global cloud centers
- Open, secure, and scalable
- Secure, high-speed network
- Expert services and tools
- Secure integration to on-premises

OpenPOWER™

openstack  
CLOUD SOFTWARE

docker



# SoftLayer supports deployment of regulated workloads through extensive compliance and clear delineation of roles and responsibilities

- SoftLayer cannot access customer data
  - Only customers control movement of their data
- SoftLayer offers comprehensive security services, across the IT infrastructure
- Dedicated and private clouds are well suited for regulated workloads
- Strict physical and operational security controls are in place in data centers
- SoftLayer is compliant with major industry and regulatory standards



US Government standard SP800-53



PCI SAQ

PCI ROC

PCI AOC



# SoftLayer is designed to offer complete transparency from network topology down to the hardware



Control

With other cloud providers, you may only know:

Zone

Maybe the data center

With SoftLayer,  
you know:

- Data center
- Pod
- Rack
- Rack unit
- Power port
- Network port
- Server
- NIC controllers
- Firmware
- Serial numbers

Plus

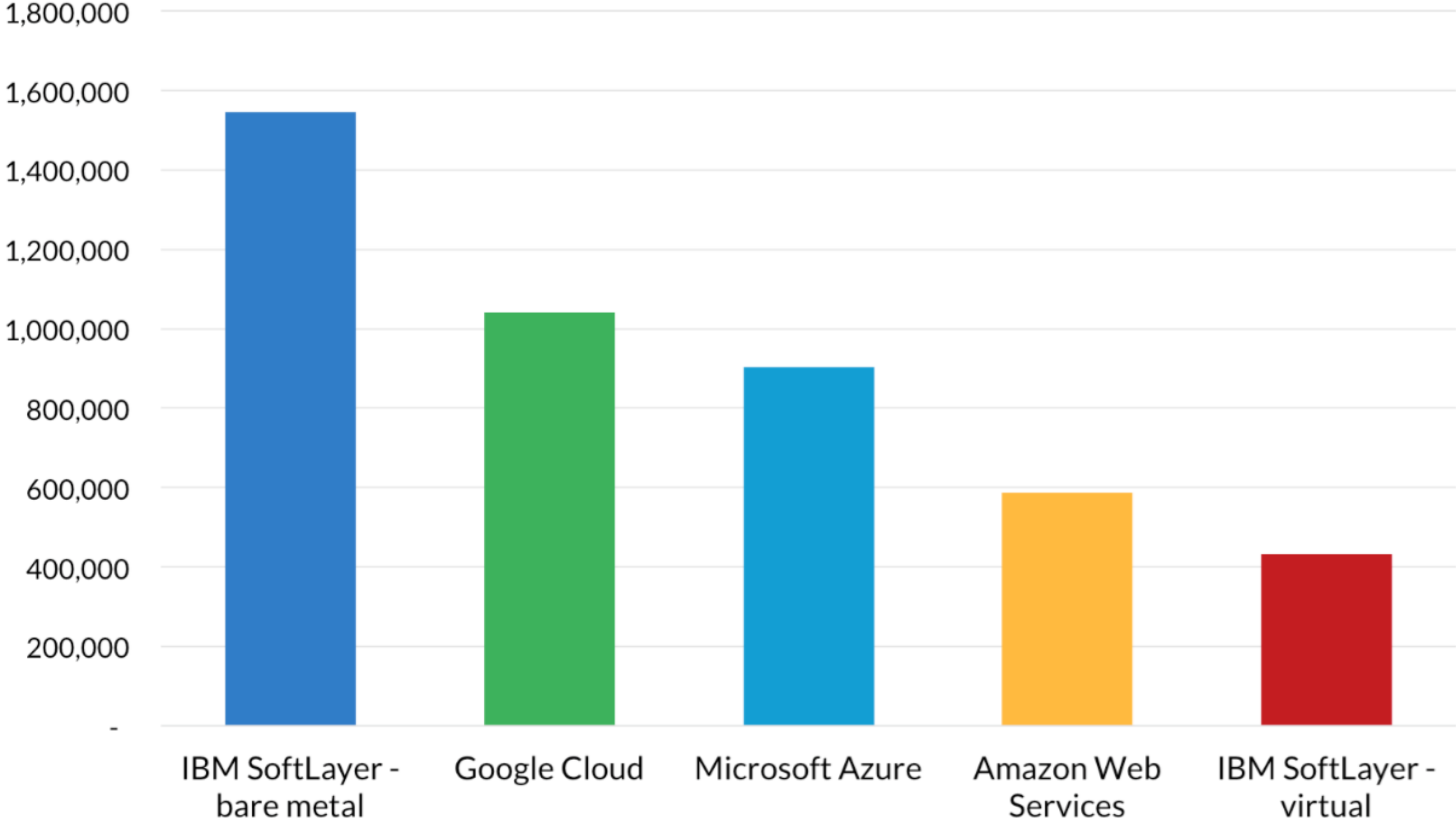
- Audit trail of all actions and access to resources

The resulting **visibility** means you can have more **control** over your application and its performance—as well as security and compliance management

# Infrastructure Services

Focus on Price-to-Performance, Private Network, Data Locale and Control

YCSB Performance - Ops/Second



## 3x Faster Than AWS

*“For Second Year in a Row, Cloud Benchmark Reveals IBM SoftLayer Nearly Three Times Faster than Amazon Web Services”*

*-VoltDB Jan 2016*

## 30% Cheaper at Scale Than AWS

Provider	Instance	Cost/Hour
Amazon AWS	c4.8xlarge	* \$1.31
Microsoft Azure	G5	** \$7.82
Google Cloud	n1-standard-32	\$1.12
IBM SoftLayer “Bare Metal”		*** \$1.20
IBM SoftLayer “Virtual”		**** \$0.91

Source : [VoltDB.com](https://voltdb.com/news/second-year-row-cloud-benchmark-reveals-ibm-softlayer-nearly-three-times-faster-amazon-web) <https://voltdb.com/news/second-year-row-cloud-benchmark-reveals-ibm-softlayer-nearly-three-times-faster-amazon-web>



# Uno sguardo al 2015 del «cloud IBM»

IBM Bluemix™

SOFTLAYER®  
an IBM Company

bluebox®  
AN IBM COMPANY

## Partnerships:



15k

20m

300+

## Acquisitions:

New Users  
Per Week

Active  
Domains

BlueBox  
Customers



125k+

130m

New App  
Starts / Month

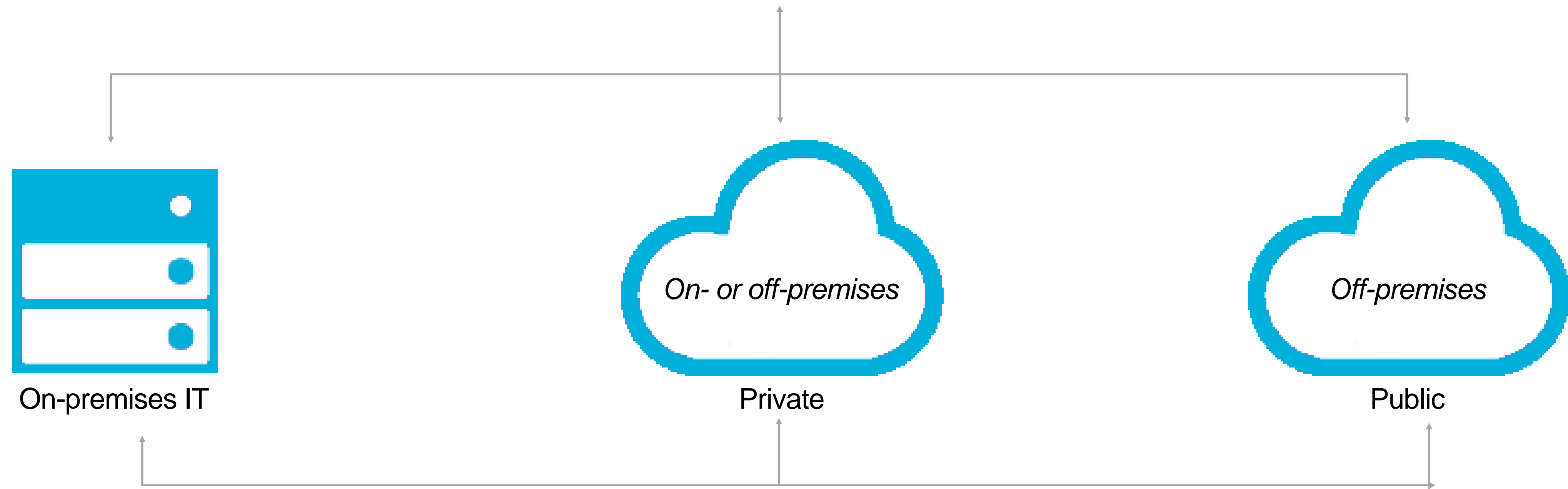
Active Gamers on  
SL Infrastructure



# Accelerate the business and improve agility with security, visibility and control



*Selezionate il mix ottimale per il vs business...l'ultima scelta quella che conta e' la vostra!*





**Keep in touch!**

**Vuoi rimanere aggiornato su novità ed eventi?**



**@IBMItalia**

**@maurilio99**



**Softlayer Italy User Group (quelli del cloud)**





***GRAZIE !!!.....***

***.....per il tempo che ci avete dedicato.***

