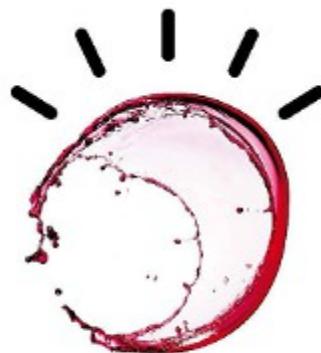




Degustare la crescita

Un percorso in 4 tappe alla scoperta delle soluzioni IBM

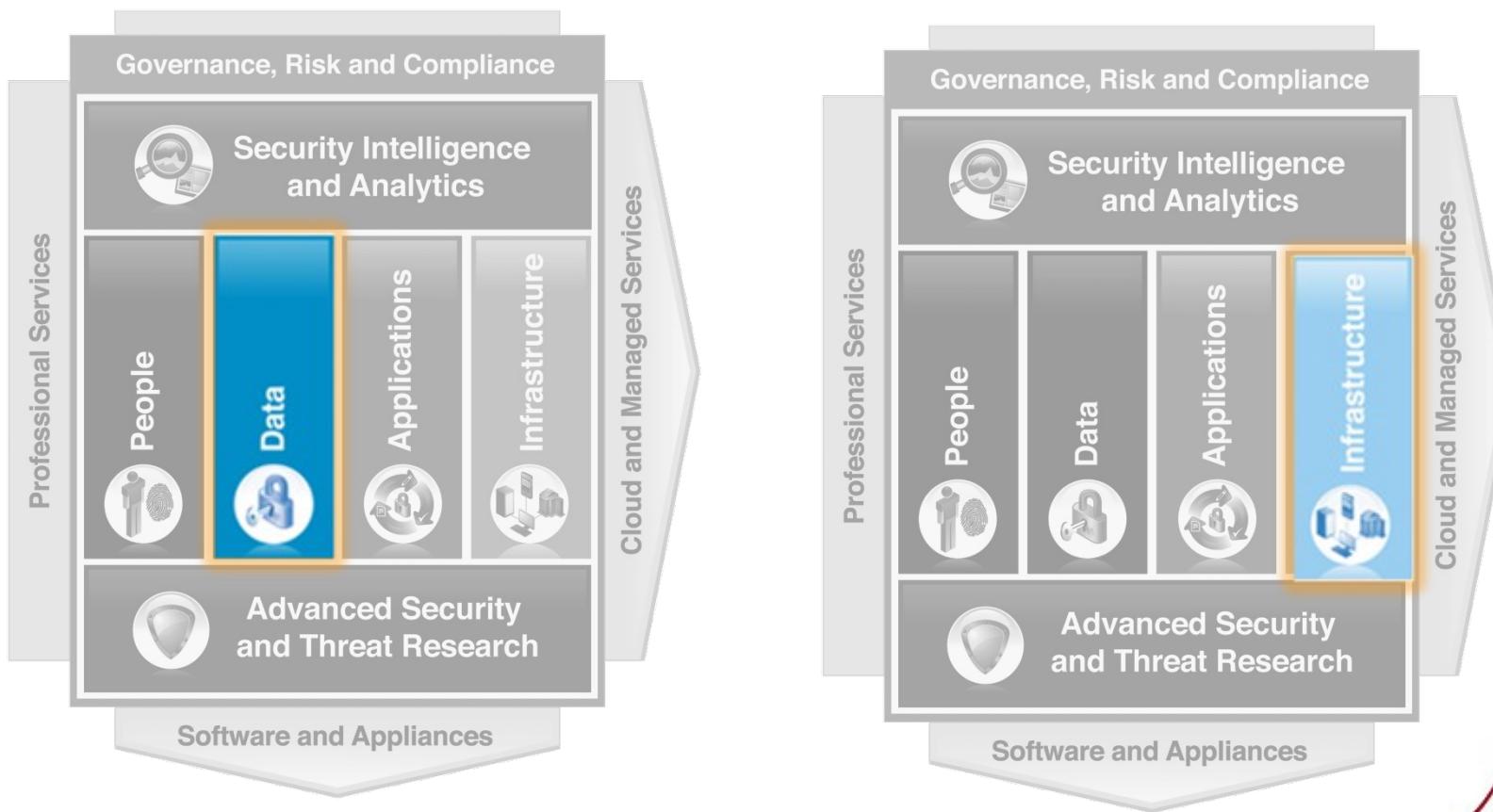
**Protezione dati e continuità operativa,
generazione di fatturato e margini:
analisi e soluzioni**



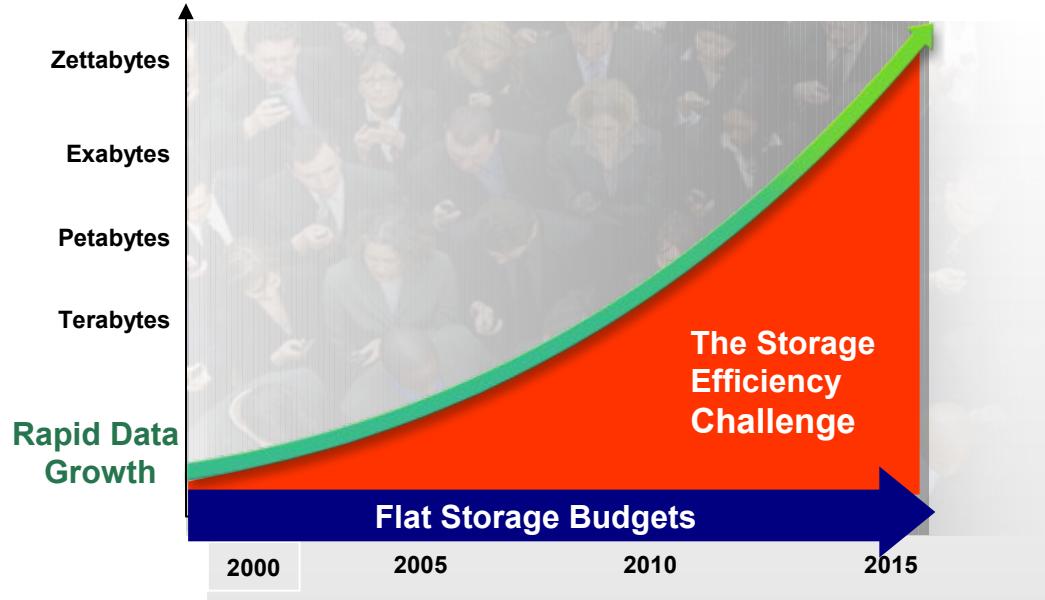


Data & Infrastructure

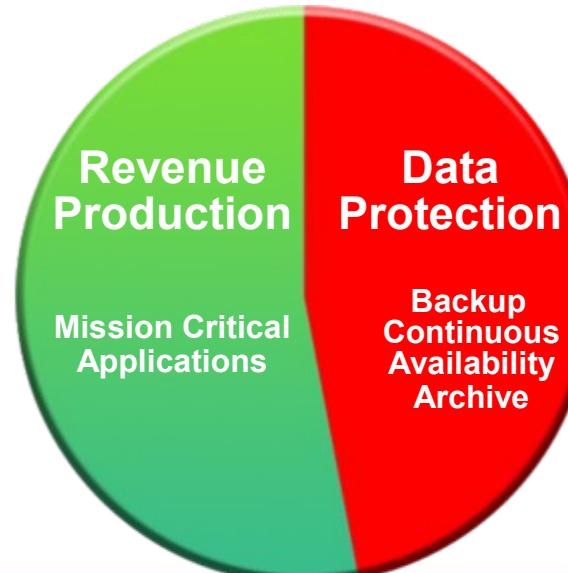
Area of Focus



La Sfida



Il Budget



Source: IBM SIO Study

Aligned and Optimized Cost

Reclaim, Rationalize & Plan

Virtualize & Tier

Backup/Restore & Disaster Recovery

Storage Process & Governance Model

Archive / Retention / Compliance

Reduce Storage Growth

23%

do no capacity planning

85%

have no show back capabilities

69%

do not use storage virtualization

68%

are not using de-duplication

70%

do not use a storage catalog

90%

have little to no process documentation

30%

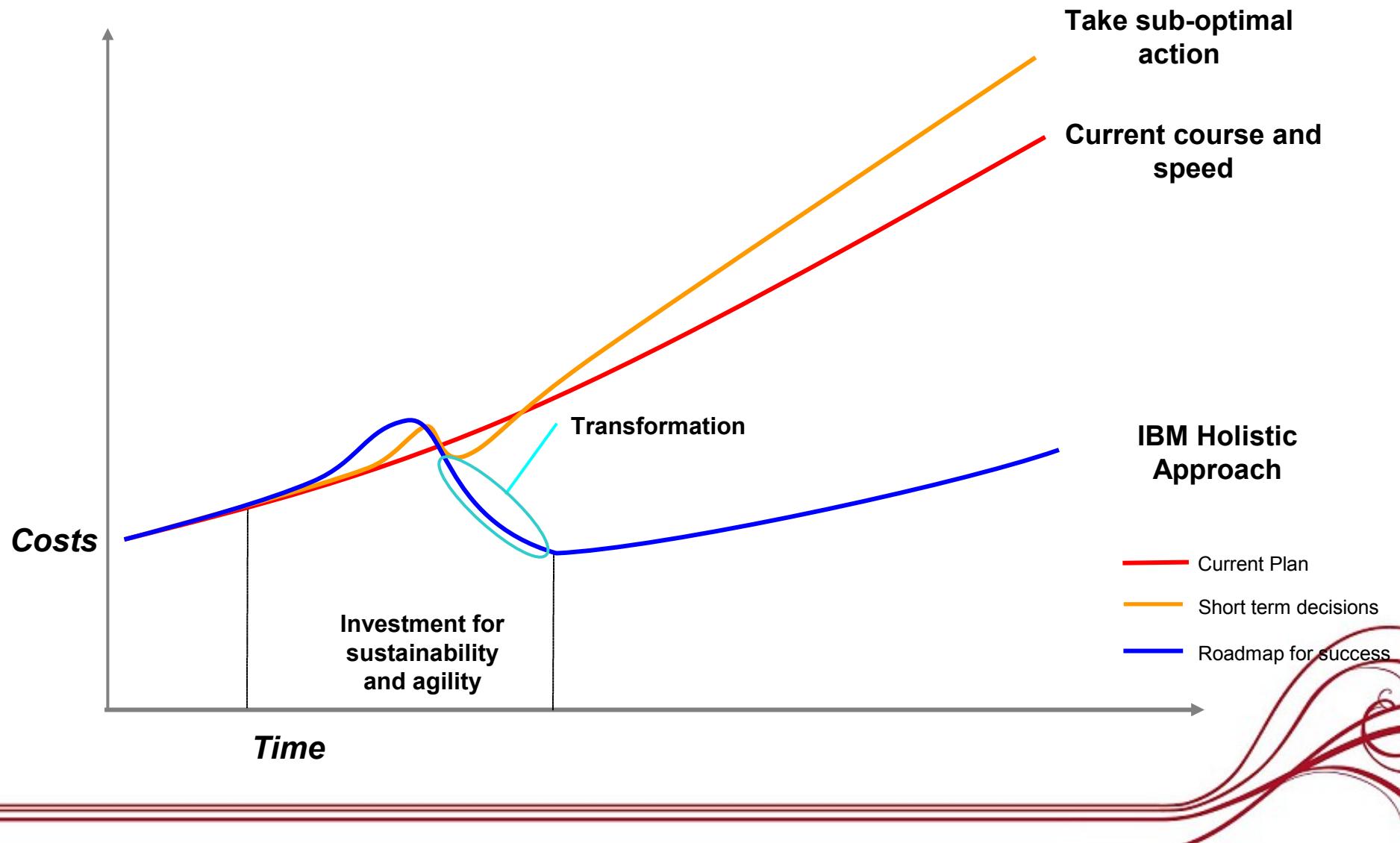
have archive processes

40%

have no DR testing

21%

have no DR strategy





IBM Smarter Storage™

Self-optimizing

Improve performance
and productivity

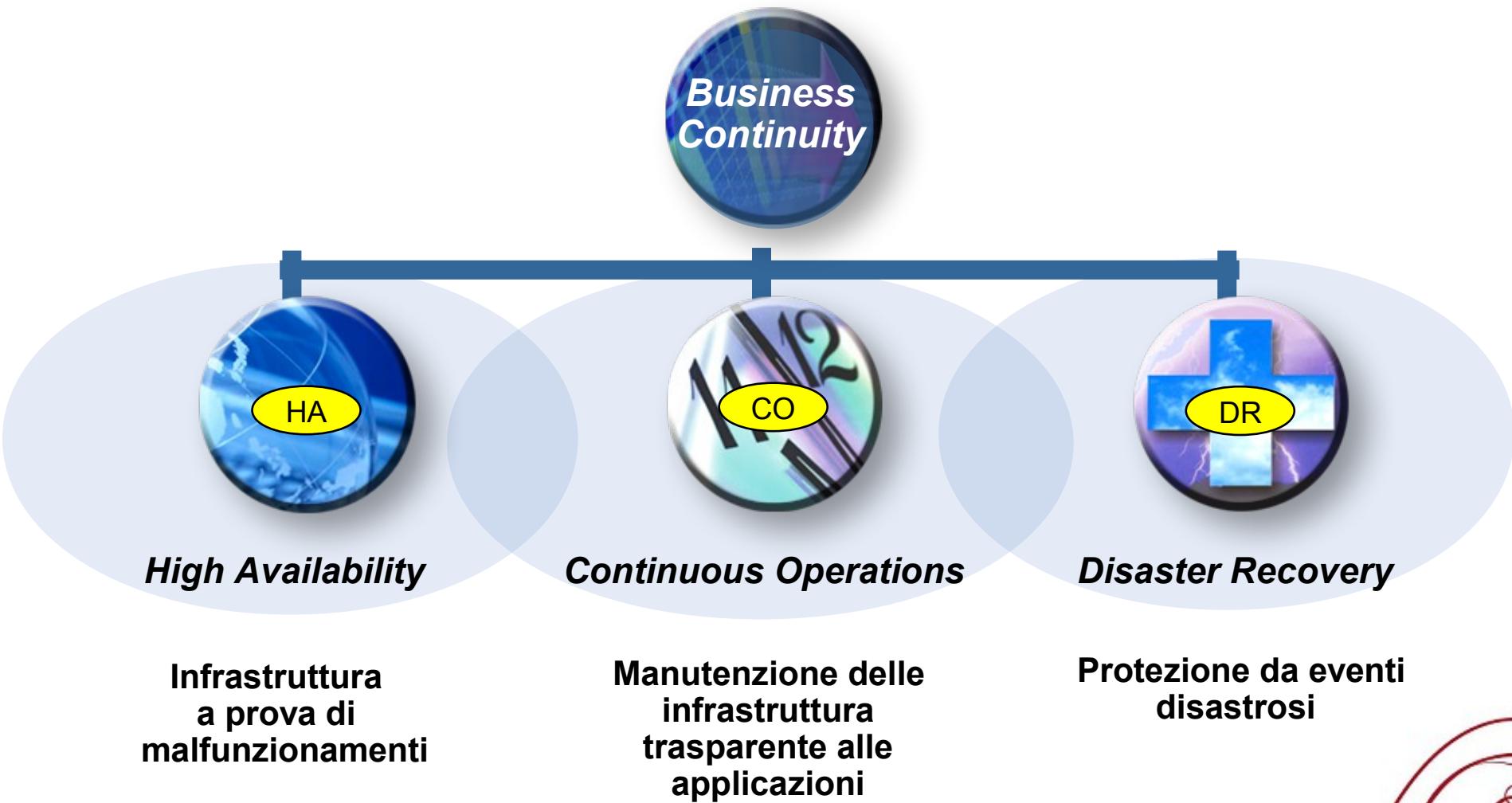


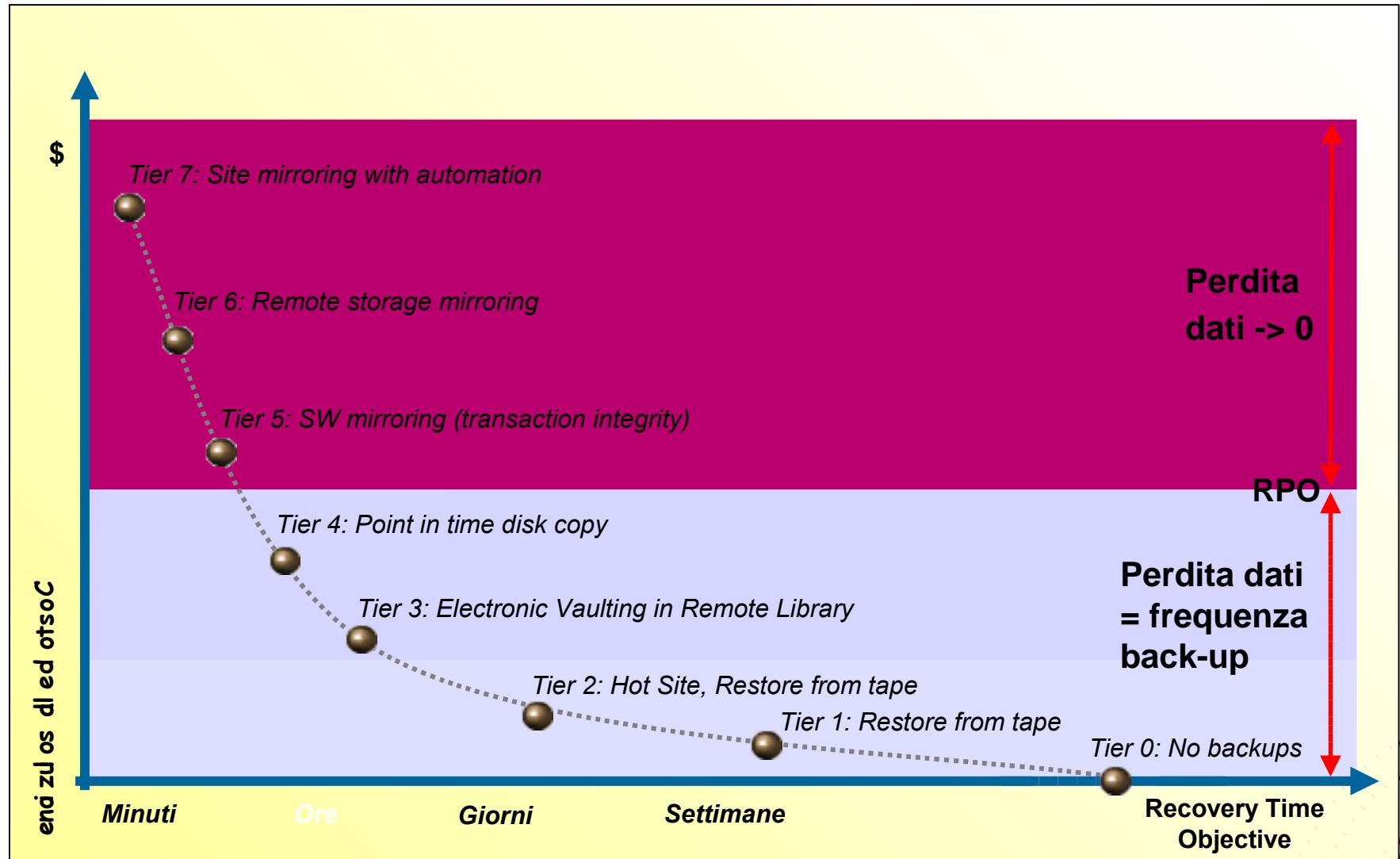
Efficient by Design

Manage cost and capacity growth

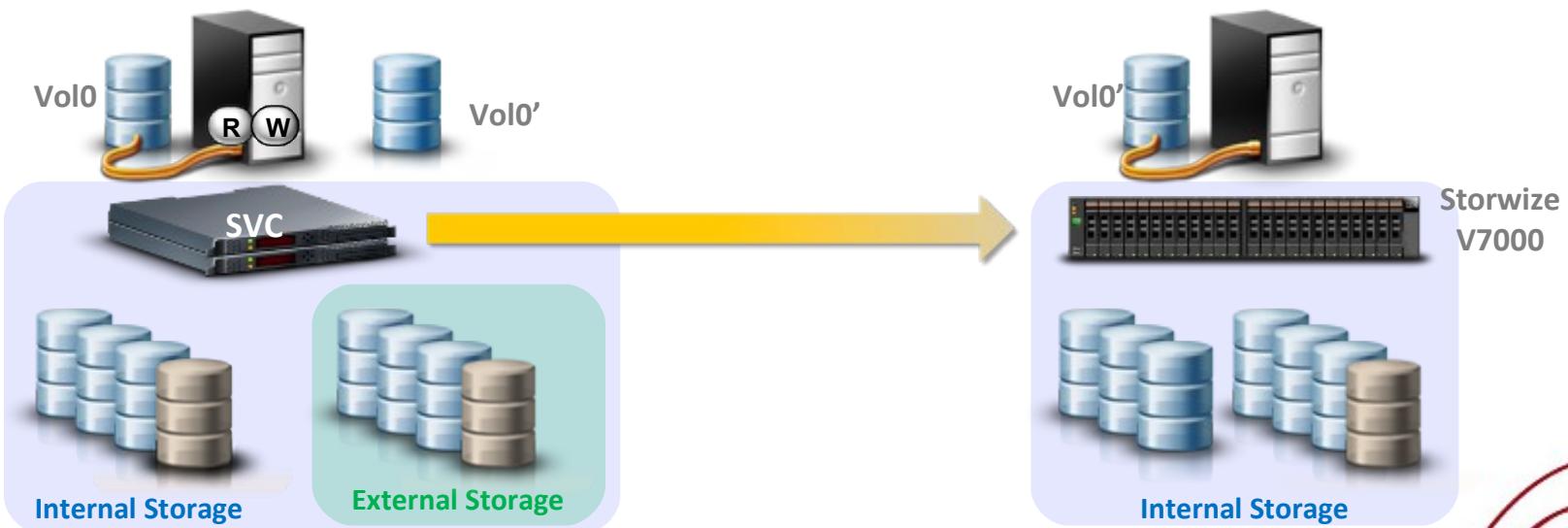
Cloud Agile

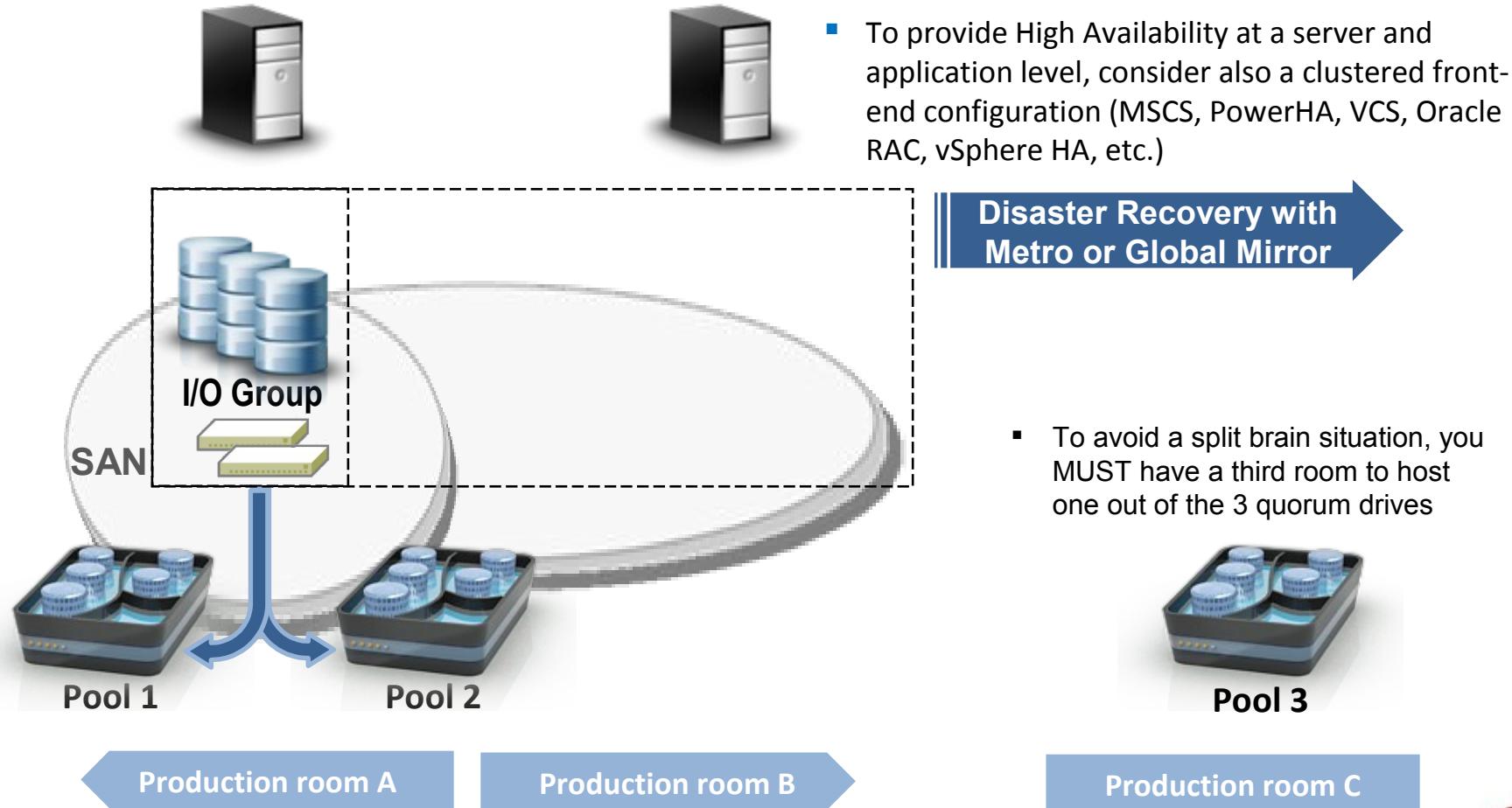
Increase information access
and improve ROI





Volume Mirroring	FlashCopy	Metro Mirror	Global Mirror
<ul style="list-style-type: none"> Volume Mirroring 	<ul style="list-style-type: none"> Point-in-Time Copy 	<ul style="list-style-type: none"> Synchronous Mirror <ul style="list-style-type: none"> Write IO response time doubled + distance latency No data loss 	<ul style="list-style-type: none"> Consistent Asynchronous Mirror <ul style="list-style-type: none"> Limited impact on write IO response time Data loss All write IOs are sent to the remote site in the same order they were received on source volumes 1 source and 1 target volumes + change volumes on each site





23%
do no capacity planning

85%
have no show back capabilities

69%
do not use storage virtualization

68%
are not using de-duplication

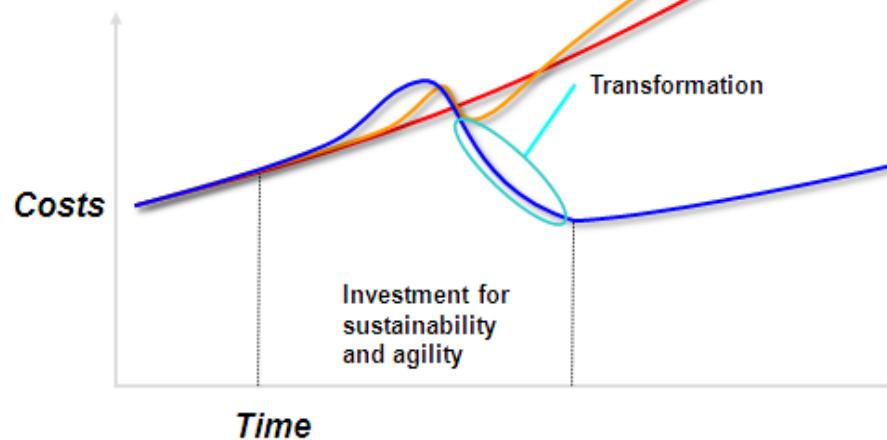
70%
do not use a storage catalog

90%
have little to no process documentation

30%
have archive processes

40%
have no DR testing

21%
have no DR strategy



Take sub-optimal action

Current course and speed

IBM Smarter Storage Approach

- Current Plan
- Short term decisions
- Roadmap for success

Capital Expense Potential Benefits

2X

the application density in same space

40%

up to 40% energy cost reduction

70%

fewer cores needed reduces software cost

30%

lower storage growth

50%

improvements in disk utilization

3X faster

flash storage

50-80%

compression of data before it is even stored

50%

reduction in duplicate copies of data

20%

avoid buying disk by making it look bigger than it is

Operating Expense Potential Benefits

50%

reduction in management cost

66%

faster set-up

98%

Less time due to automated storage provisioning

47%

savings in administration time

31%

less complexity

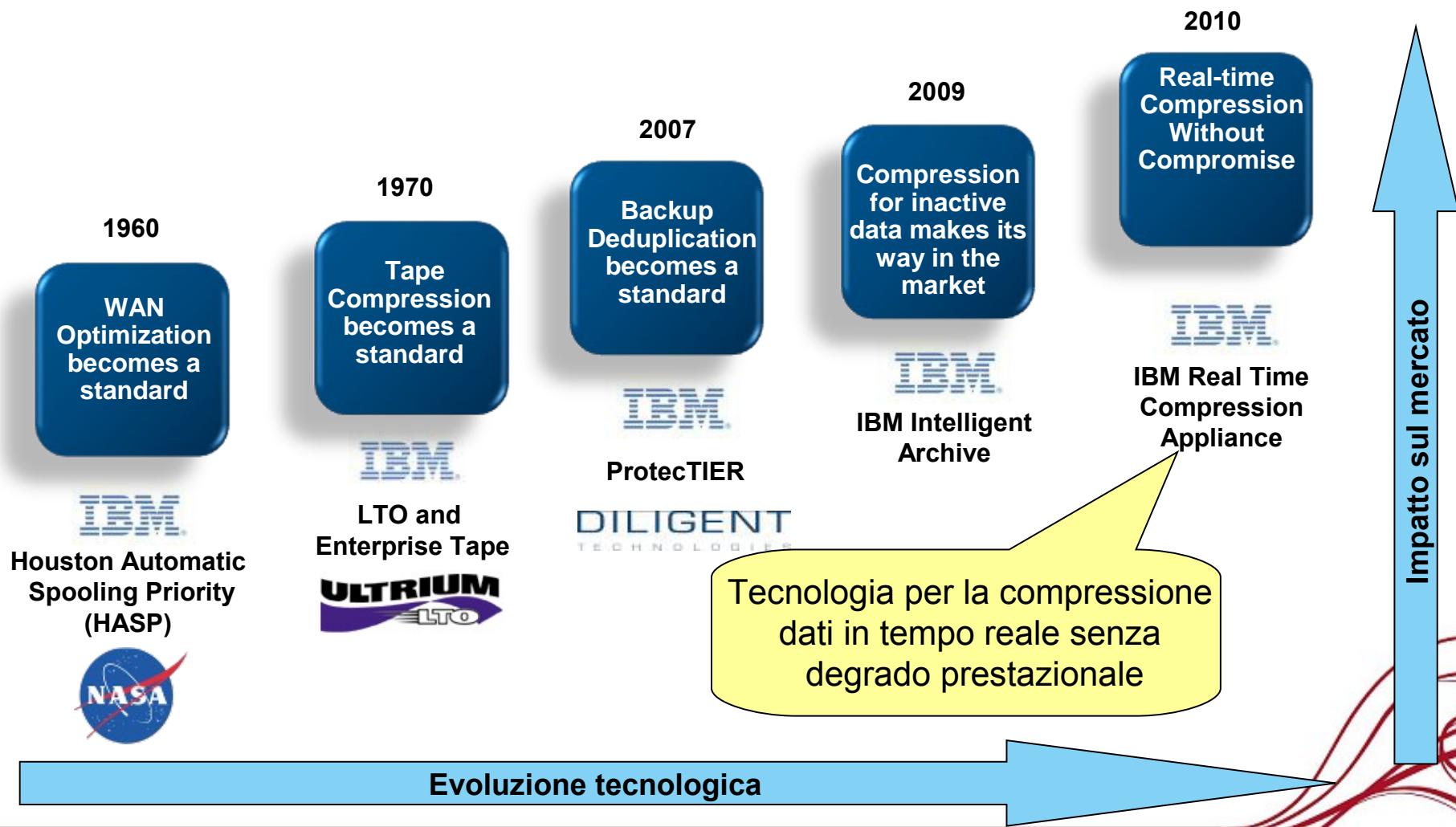
26%

faster storage deployments

Efficienza dello storage in 4 mosse:

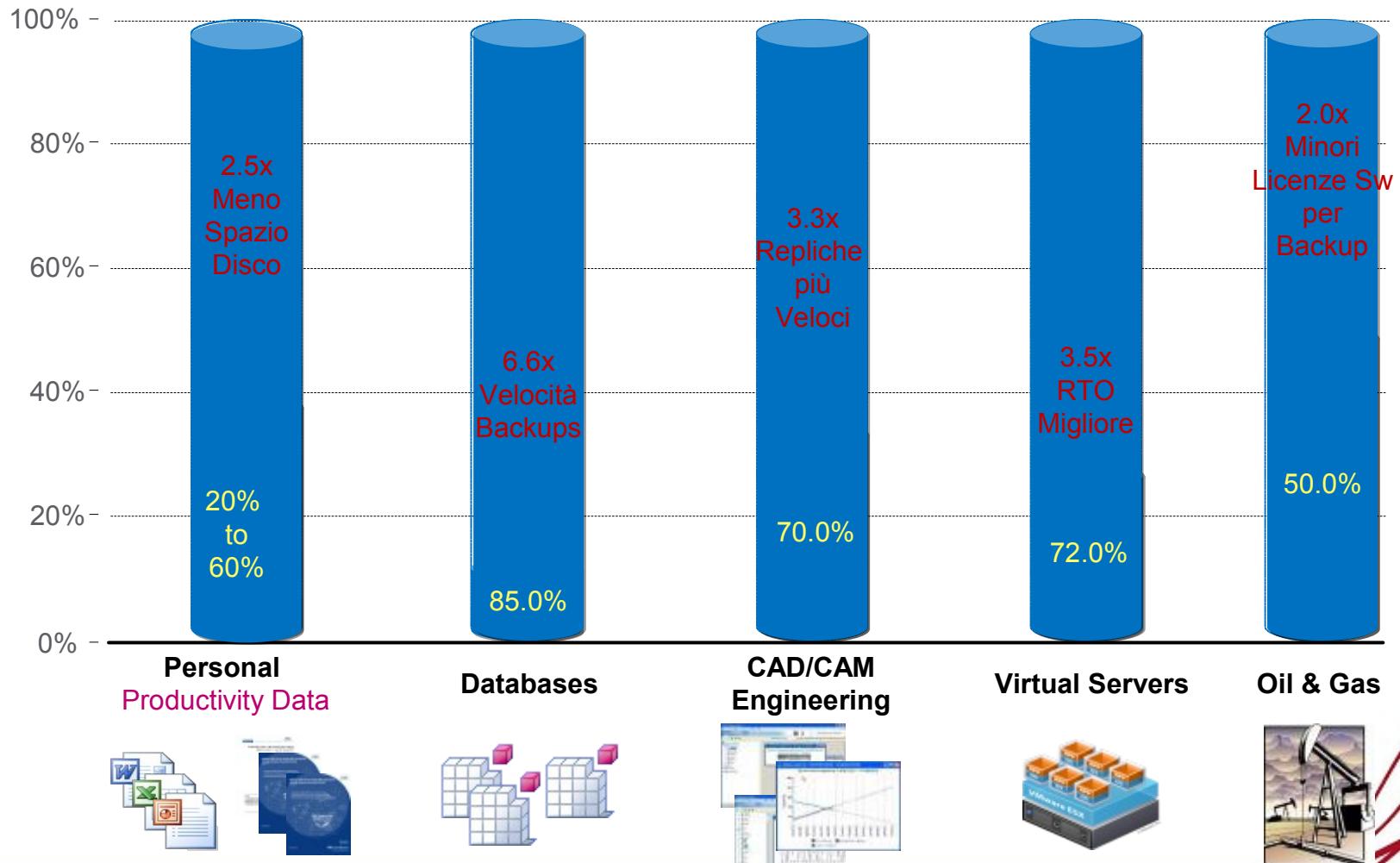
1. *solo i dati che servono*
 - riduzione automatica dello spazio fisico prima, durante e dopo: compressione, deduplica, thin provisioning, thin copies, thin replication,...
1. *più spazio per i dati*
 - virtualizzazione sempre più sofisticata: storage hypervisor e virtual storage center
1. *Unificazione e gestione integrata dati strutturati e non strutturati*
 - interfacce Grafiche avanzate, Cloud, integrazione file & block
1. *i dati al posto giusto*
 - gestione dinamica e distribuita di storage multi livello: IBM Easy Tier e IBM Active Cloud Engine

Rete dati Tape Backup Archivio Dati Primari



Compressione senza Compromessi

■ Storage after Compression
 ■ Compression Ratio



Efficienza dello storage in 4 mosse:

1. solo i dati che servono

- riduzione automatica dello spazio fisico prima, durante e dopo: compressione, deduplica, thin provisioning, thin copies, thin replication,...

1. più spazio per i dati

- virtualizzazione sempre più sofisticata: storage hypervisor e virtual storage center

1. Unificazione e gestione integrata dati strutturati e non strutturati

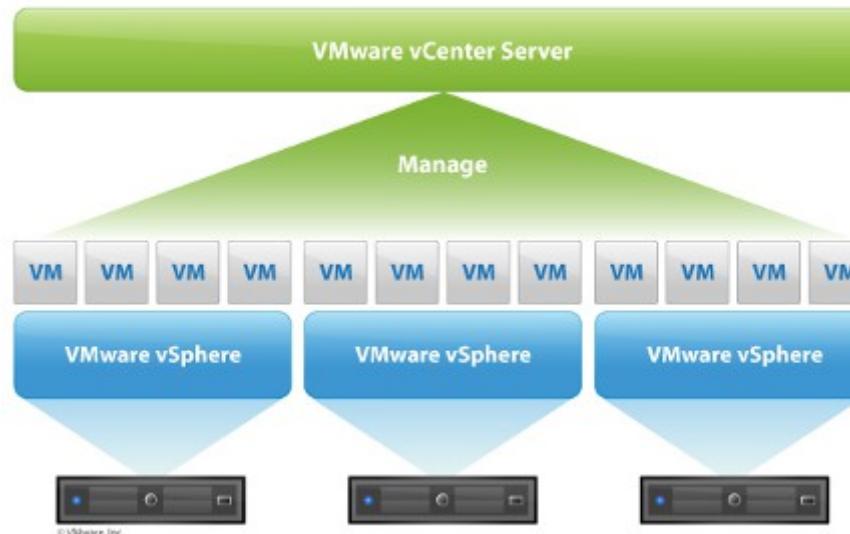
- interfacce Grafiche avanzate, Cloud, integrazione file & block

1. i dati al posto giusto

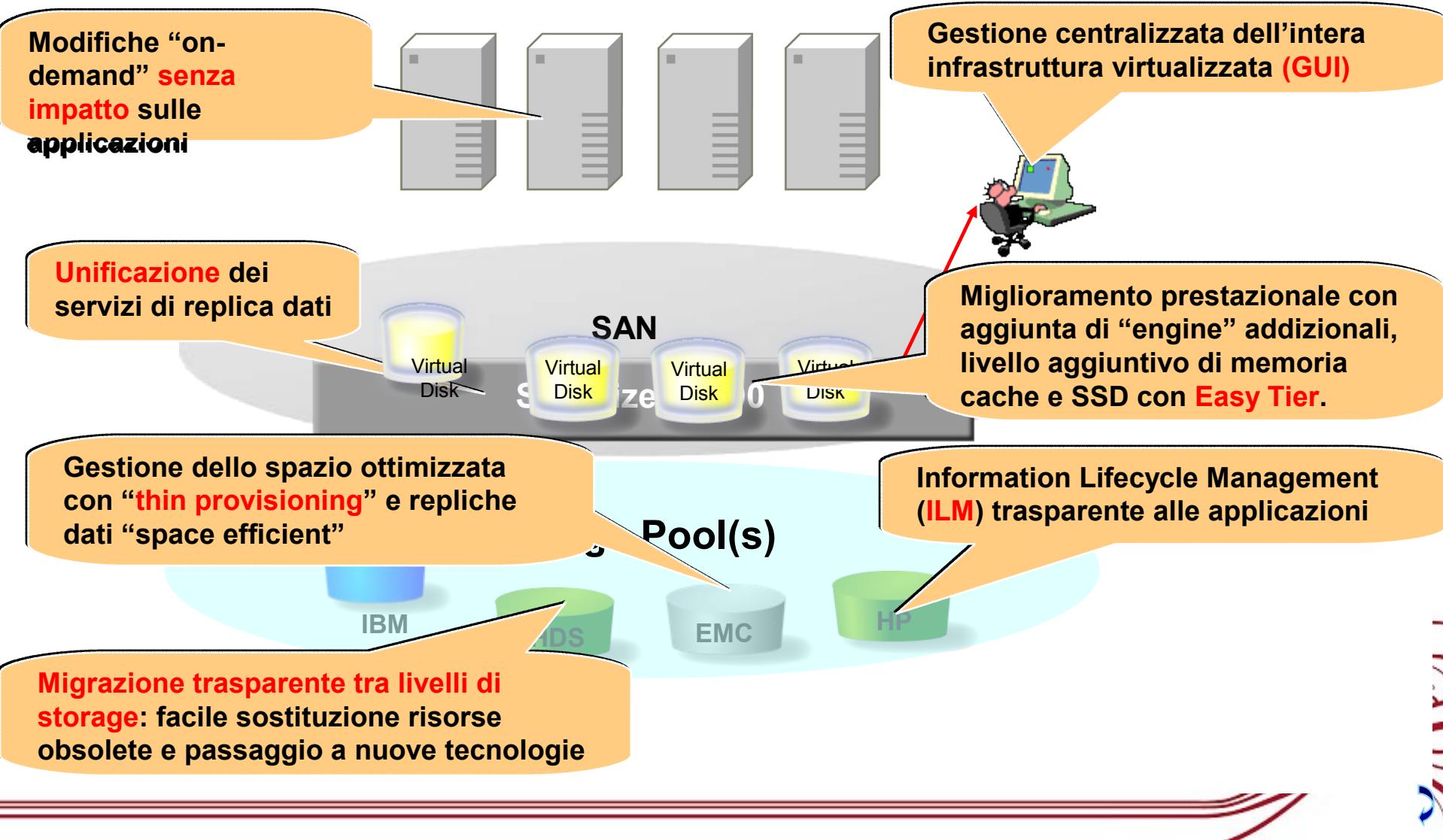
- gestione dinamica e distribuita di storage multi livello: IBM Easy Tier e IBM Active Cloud Engine



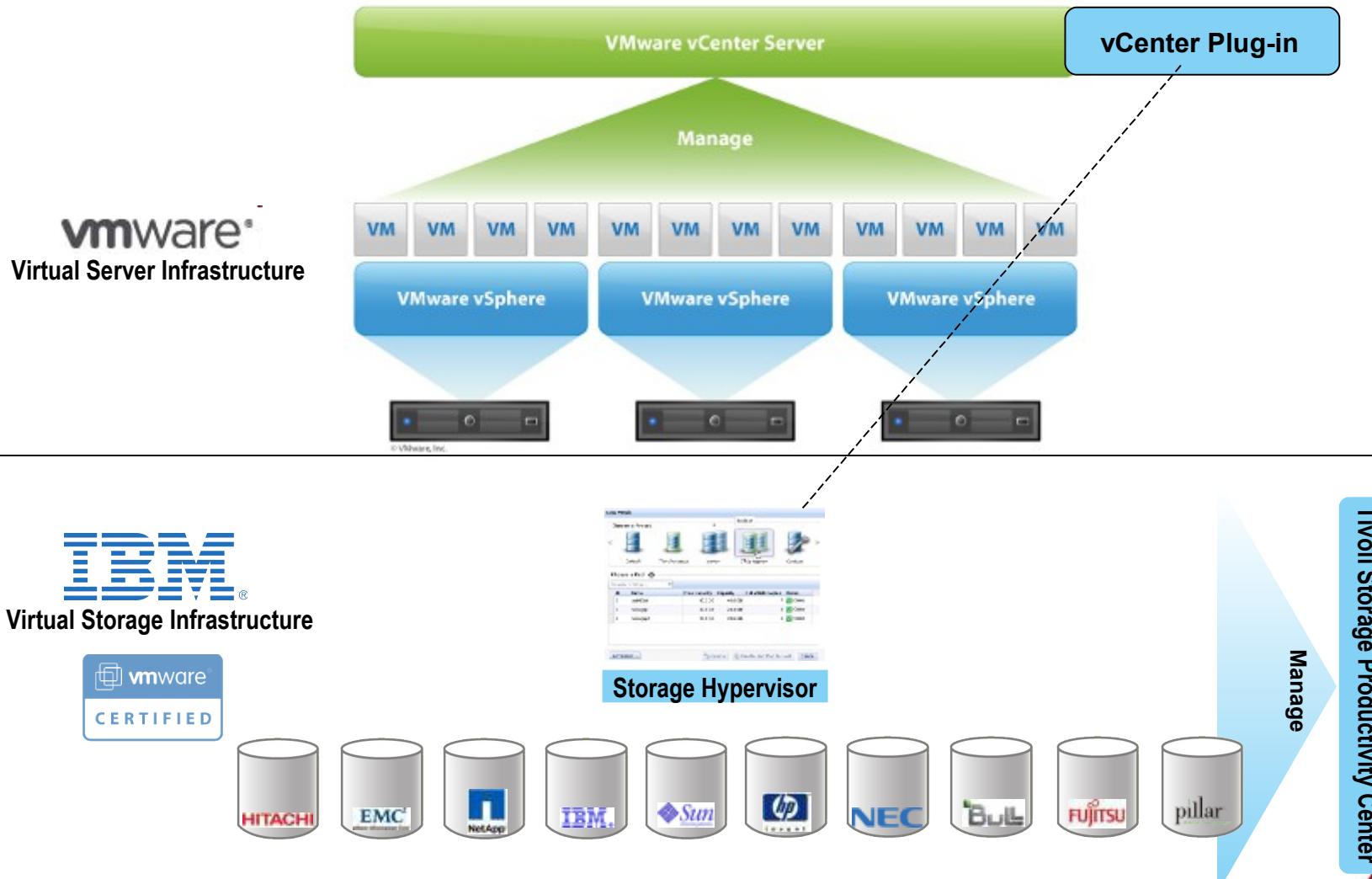
vmware
Virtual Server Infrastructure



Virtualizzazione



Virtualizzazione pervasiva della infrastruttura IT



Efficienza dello storage in 4 mosse:

1. solo i dati che servono

- riduzione automatica dello spazio fisico prima, durante e dopo: compressione, deduplica, thin provisioning, thin copies, thin replication,...

1. più spazio per i dati

- virtualizzazione sempre più sofisticata: storage hypervisor e virtual storage center

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1. i dati al posto giusto

- gestione dinamica e distribuita di storage multi livello: IBM Easy Tier e IBM Active Cloud Engine

Interfaccia uomo – macchina: console in 3D



<http://www.youtube.com/watch?v=UCEg5qHYj0k>



Mobile Dashboard scaricabile gratuitamente da iTunes:
<http://itunes.apple.com/it/app/ibm-xiv-mobile-dashboard/id465595012?mt=8>

Efficienza dello storage in 4 mosse:

1. solo i dati che servono

- riduzione automatica dello spazio fisico prima, durante e dopo: compressione, deduplica, thin provisioning, thin copies, thin replication,...

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1. i dati al posto giusto

- gestione dinamica e distribuita di storage multi livello: IBM Easy Tier e IBM Active Cloud Engine

I dati al posto giusto: gestione automatica
della gerarchia delle memorie

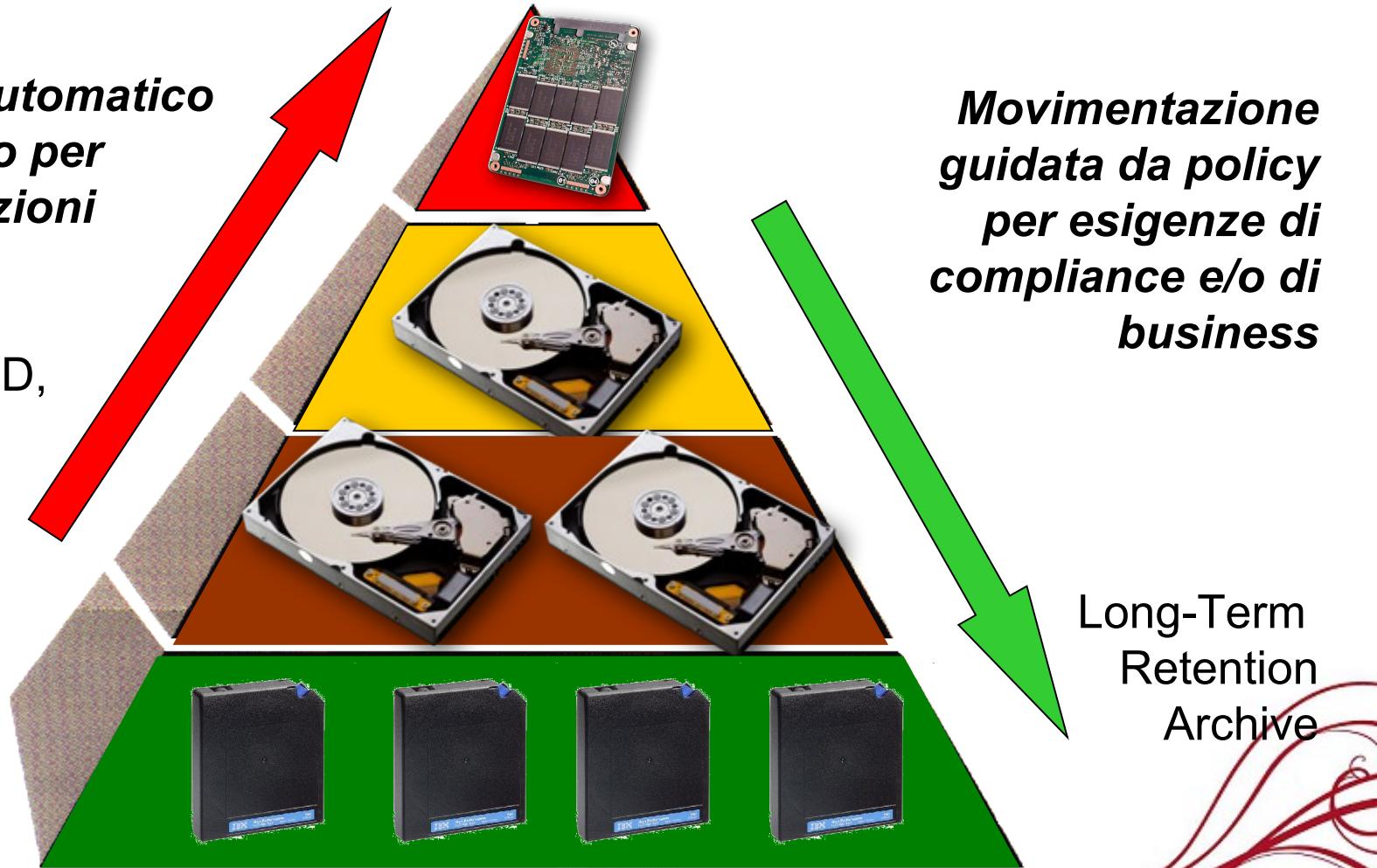
**Tiering automatico
ottimizzato per
le prestazioni**

Easy Tier
(SSD, HDD,
NL-HDD)

Virtual
Tape
Libraries

**Movimentazione
guidata da policy
per esigenze di
compliance e/o di
business**

Long-Term
Retention
Archive



Come si posiziona la vostra azienda ???

- BC tool utilizzati ??? Efficacia ???
- Processo di “change management” ???
- Tool di monitoring ???
- Elementi critici ??? Tasso di crescita ???
- Normative attuali ??? Future ???
- Valutazione dell' RTO odierno ???
- Dati che si possono ricreare ??? Quanti ???
- Budget per fornire Business Continuity ???



Efficient
by Design

IBM Smarter Storage for Smarter Computing

Self-
optimizing

Cloud
Agile

Thank You



Integrated Solutions

IBMSmartCloud

- Virtual Storage Center



IBM Smart
Analytics
Solutions
(ISAS)

Built-in Innovation

- Storage Virtualization SW and SVC
- Easy Tier
- IBM Active Cloud Engine™ RamSan Flash / Solid State
- Real-time Compression
- Deduplication
- Linear Tape File System (LTFS)

Optimized Storage Systems

For
Enterprise
Workloads



For
Midrange
& Entry
Workloads



For Data
Protection
and Retention



Storage Management Software



Tivoli Storage
Productivity
Center



Tivoli Key
Lifecycle
Manager



Tivoli Storage
FlashCopy
Manager



Tivoli Storage
Manager