na les Leader, System Storage ets Unit

# g the Information Sion



## me to the decade of Smart

- decade or so in sting, there is a chance efine the playing field.
- e in that phase of redefinition no

o the decade of smart

## s changing the game

and complexity bring new challenges

ter systems for a smarter planet

## a center is under pressure



#### 7 out of 10 companies

in the Global 1000 will need to modify their data centers to meet increased power and cooling requirements.



#### 70 cents per dollar

is spent maintaining current IT infrastructures rather than adding new capabilities.

## 78% of CIOs

want to improve the way they use and manage their data.

complexity bring new challenges lanet requires real-time data analytics and unprecedented scale and complexity

Terabytes of structured online data



Petabytes of uns data including re streams

Simple online transactions with back end processing



Complex transaction integrated with realized analytics

Online data security and intrusion detection



Security analytics intrusion prediction prevention

## workloads are changing

lit card company BC Card has 40M cardholders tions a year – and processes 10M authorization



#### workloads are changing

ts will dramatically change workload: aud analytics and the addition of billions of mobil

eeds to extract more value from data:

and prevent fraud customer loyalty

ost per transaction by an order of magnitude

l-time d analytics Mobile de as credit d

#### ads are emerging

t, a Houston-based utility, is ramping up to re smart meters at 15-minute intervals.



#### ads are emerging

i & WebSphere on BladeCenter, CenterPoint systems to handle operational analytics and s

ts generated will:

telvionante autages (11) 8 terab eads per year Derational costs



# of data

nsumers to adjust consumption for optimum

#### odels are expanding

tes clinical images and electronic files from nearly 1M Site we all the second of the second of the second store a growing the se



#### odels are expanding

alize and virtualize data into single storage environment.



## ns need to rethink technology strategies

timize rkloads

#### ance

- on and tion accelerators ory and flash
- cally adjust at sustained ance

#### ciency

- S
- on ooid
- ssion

Manage the Data Center

#### Virtualization

 Integration of servers, storage and networking

#### Management

 Intelligent workload placement and mobility

#### Security

 Trusted cloud and secure virtual infrastructure

#### Availability

High availability across

Make the Right Delivery Choices

#### **Managed Services**

- Managed Resiliency
- Server Managed

#### Outsourcing

- Data Center
- End User Support

#### Cloud

- Storage
- Development and Te

#### **Pre-integrated**

- Smart Analytics Syst
- PureScale Application

## s changing the game

## and complexity bring new challenges

## er systems for a smarter planet

### er Systems

#### stems portfolio with leadership offerings in every

#### ary <mark>Systems</mark>

egration and tion at every 5X performance ower efficiency VER7

#### March System x

System level innovation for x86 computing through 5th generation of Enterprise X-Architecture

#### July zEnterprise

Highly virtualized, inherently resilient, secure environment and industry's first multi-architecture platform

## 3M heritage of innovation and leadership in st



## st complete line up of storage offerings



#### nderpinned by continuous investments and innovation

## nents in capabilities that unlock vast potentia



Encryption

Tivoli Key Lifecycle Manager

IBM Institute for Advanced Security

Homomorphic encryption



#### Compression

Real-time data compression from Storwize acquisition

Deep Compression for DB2



#### **De-duplication**

ProtecTIER from Diligent acquisition

HyperFactor algorithms and in-line processing

elated acquisitions: 2007 Softek, Princeton Softech and Novus Consul 2008 XIV, FilesX and Diligent 2010 Storwize, Inc.

## New Announcements!

## virtualization into the storage infrastructure

- zation up to 30% by pooling storage
- inced functionality to your existing storage
- migration virtually eliminates downtime
- System Storage™ SAN Volume Controller ted Graphical User Interface and support S storage systems.
- ed service provider, we can take advantage of the IBM rage SAN Volume Controller's ability to cater to each requirements individually, according to SLAs"





## System Storage™ DS8800

- hancements
- nall form factor drives
- rives per enclosure
- R6+ processors
- st and device adapters
- nefits
- better performance
- pace with nearly twice the drive density
- ts with up to 36% less energy consumed
- 1,000 drives on up to 40% less floor



## e was a Midrange Storage System that...

as your needs grow

#### nes high performance with f use

s built-in advanced efficiency capabilities



# Storwize V70

## nent in storage efficiency technologies ...



ge ation Incredible Ease of Use

## or the first time in a midrange offering





Incredible Ease



## midrange storage begins today...

drange storage that grows with you

- Enclosures
- mance storage that is Easy to set up and
- GUI
- torage efficiencies
- oning
- t Data Migration tualization (Optional)



nter is being transformed by the explosion of data, numb ns and increasing concerns about security.

full line of Smarter Systems that address client's immed uture demands.

ments in storage innovation provide the technologies to ses efficiently and effectively manage data for competitiv



## rage Solutions . Powerful. Easy.

ns for a Smarter Planet

