



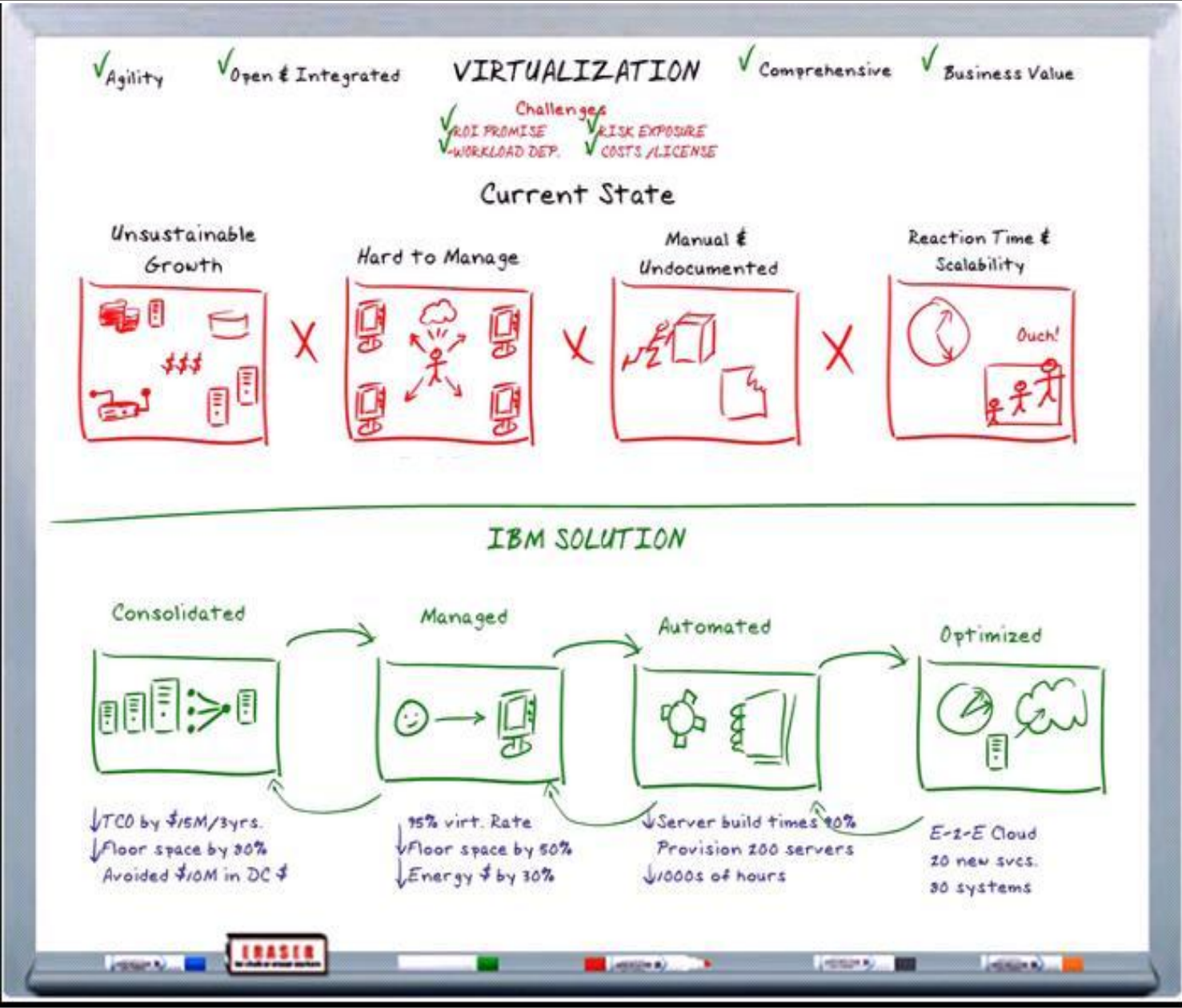
# Smarter Enterprise Computing

**Greg Lotko**  
Vice President and Business Line Executive  
IBM System z

task

# Design a 21<sup>st</sup> Century Enterprise Computing Infrastructure

- it must:
- ✓ be capable of handling 50B transactions/day
  - ✓ provide on demand BI / analytics for marketplace patterns
  - ✓ serve a client website that cost-effectively uses the latest technologies
  - ✓ be available 24/7
  - ✓ be fully recoverable in the event of a disaster



**Enterprise computing** has been part of **mission-critical** since the term was born.



# Are these examples of mission critical?





# Enterprise systems' new mission-critical



**Monitoring healthcare**



**Saving energy**



**Analyzing traffic**



**Managing water**

On December 23, 2010, VisaNet processed an average of almost **11,000** transactions a second during the busiest minute of the year.



# We're solving the toughest problems on the planet

Saving with consolidation

Smarter businesses with analytics

Superior performance with cloud



"... we found that running a virtualized Linux environment on System z would be somewhere between 30 and 50 percent less expensive than a distributed architecture. Suddenly, the choice of infrastructure had become an easy decision."

"System z has the ability to process all these transactions in a very efficient way. The data is already there. We don't have to pick it up somewhere else, so we can immediately access it with in-memory constructions very efficiently and very fast."

"...we decided to place our development in the cloud. With this implementation, we've reduced provisioning time from 45 days to under 20 minutes, after approvals."

- Ted Mansk, Director of Infrastructure Engineering and Databases at BCBSM

- Jo Coutuer, Managing Partner, Numius

- Jonathan Moore, Senior Vice President, Citigroup

# Which environment would you want to manage?



Competitive “data center” in a truck?



## IBM zEnterprise System?

- zEnterprise 196
- Unified Resource Manager
- BladeCenter Extension running AIX, Linux and Windows



# Lasting technologies continue to evolve



zEnterprise

# The evolution of the mainframe



**IBM System/360**  
 1964 to 1977



**IBM Parallel Sysplex**  
 Apr 1994



**10 years of Enterprise Linux**  
 A simple idea that changed the world  
 2000 2001 2002 2003 2004  
**Linux on S/390**  
 Dec 18, 1999



**IBM zEnterprise System**  
 Jul 22, 2010



**IBM 701**  
 Apr 29, 1952



**IBM System/360**  
 1964 to 1977



**IBM 3033**  
 Mar 25, 1977



**10 years of Enterprise Linux**  
 A simple idea that changed the world  
 2000 2001 2002 2003 2004  
**Linux on S/390**  
 Dec 18, 1999



**IBM System z9**  
 2005



**IBM System z10**  
 2006



**IBM zEnterprise System**  
 Jul 22, 2010

**IBM 1401**  
 Oct 5, 1959

**IBM System/370**  
 1970 to 1981

**IBM System/390**  
 1990 to 1999

**IBM eServer zSeries 990 & 890**  
 May 13, 2003

**IBM Parallel Sysplex**  
 Apr 1994

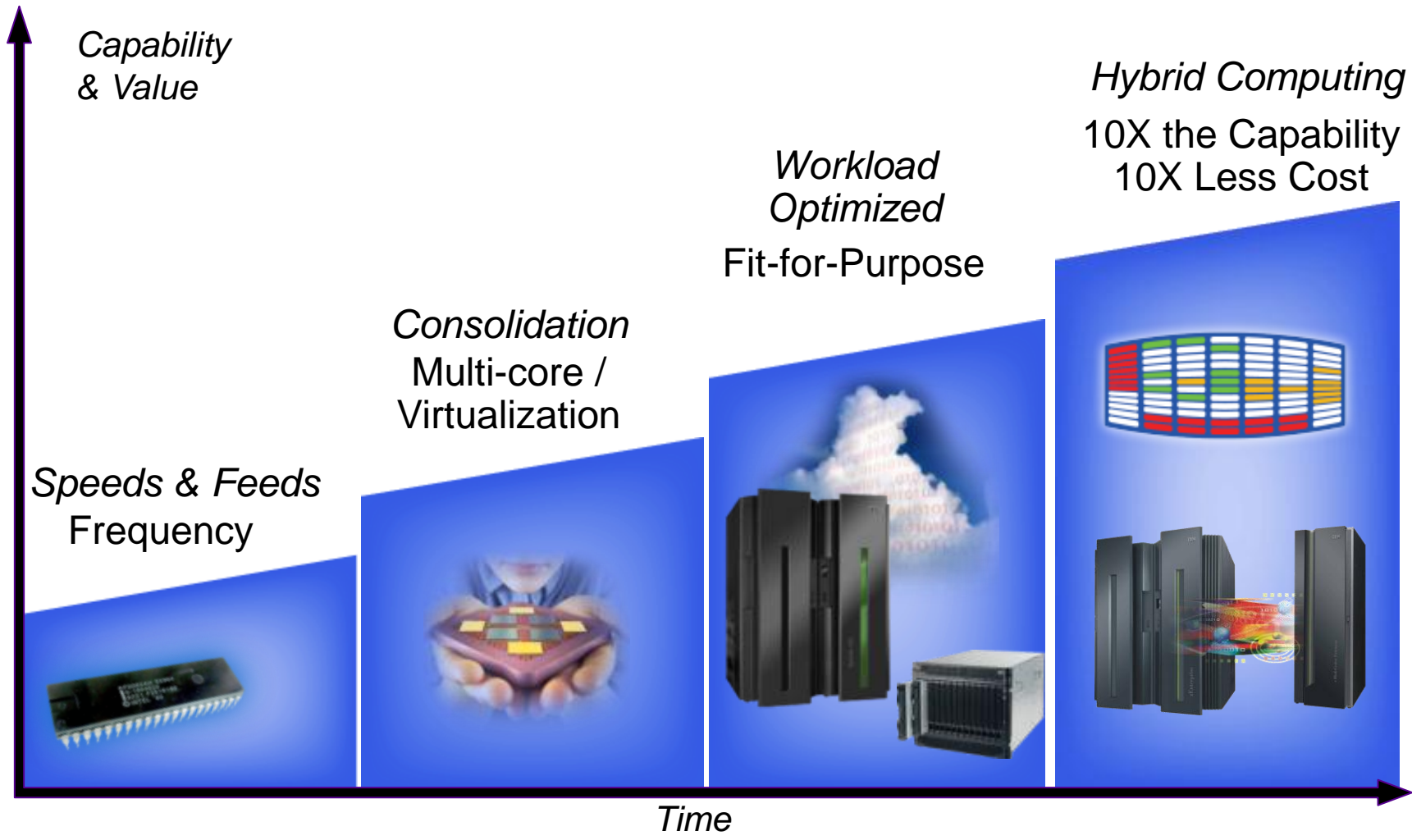
**IBM eServer zSeries 900**  
 13, 2000

1959

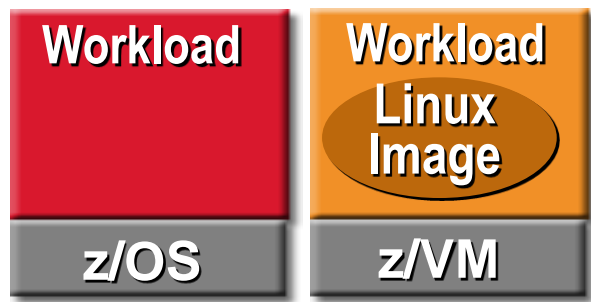
1990

2010

# The evolution of technology

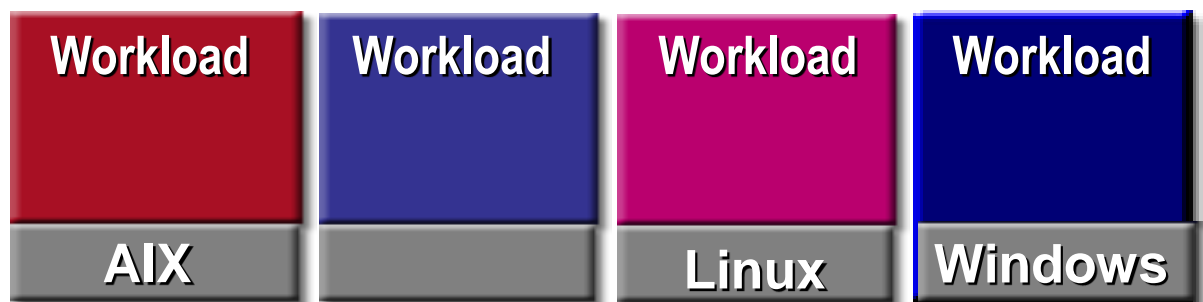


# Hybrid computing is the future of enterprise computing



z/OS

Linux on System z



AIX on Power Blades

Appliance Blades

Linux on System x Blades\*

Windows on System x Blades\*

**IBM zEnterprise 196**

**IBM BladeCenter Extension (zBX)**



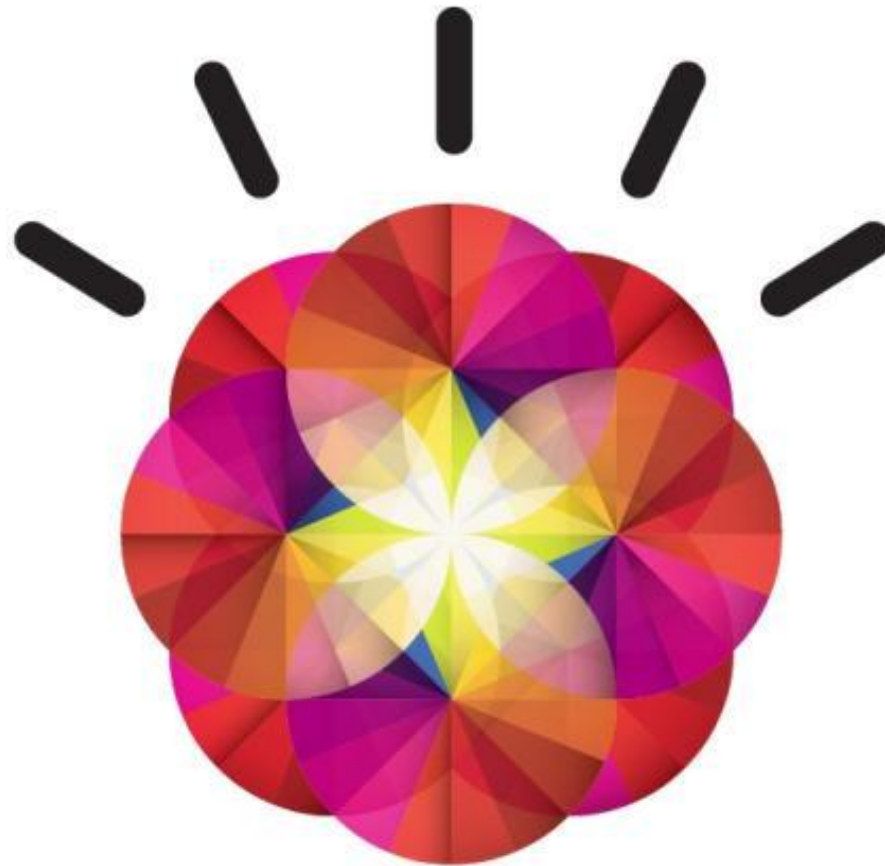
## A career in enterprise computing ...

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- ... while broadening knowledge of open technologies.
- ... while expanding business acumen.

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**Thank you**