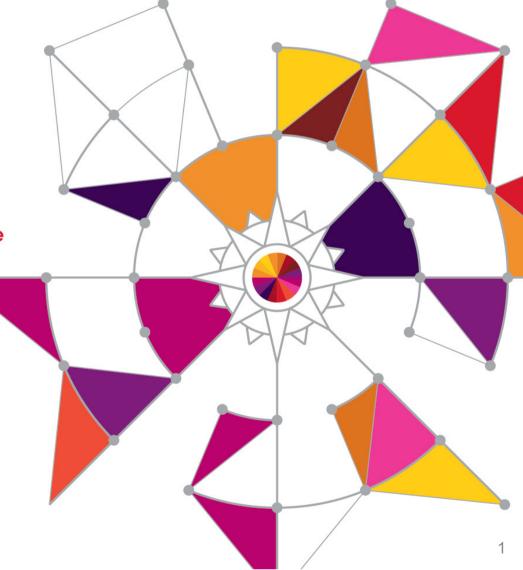
# Université du Mainframe

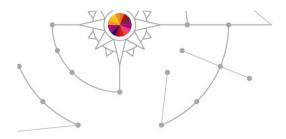
Make the Extraordinary Possible

IBM Mainframe50

Jeudi 10 avril 2014 - L'innovation continue







Université du Mainframe Make the Extraordinary Possible

IBM Mainframe50

# Alex Gogh

# Vice-President IBM Server Solutions, Systems and Technology Group





# **IBM zEnterprise** The Modern Mainframe

Enabling business leadership through technology exploitation

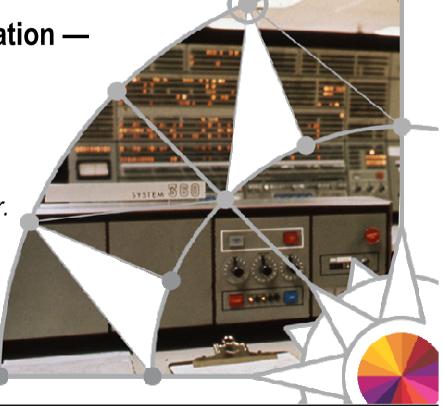
Alex Gogh Vice President, IBM Server Solutions Systems and Technology Group



# It all started with a **\$5** billion dollar bet

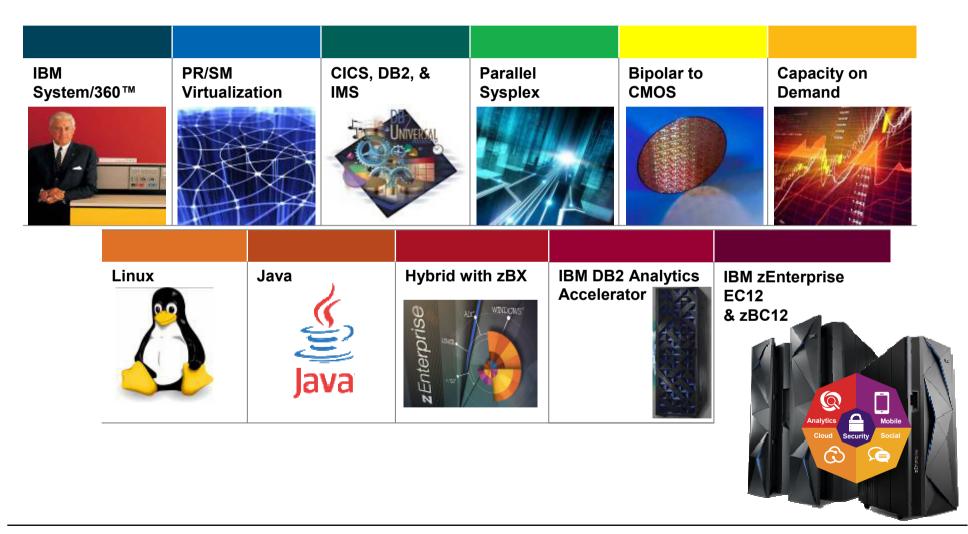
"This is the beginning of a new generation not only of computers — but of their application in business, science and government."

Thomas Watson, Jr.





# >\$25 Billion investment ongoing evolution and transformation





# **Reshape industries**, making the world work better



Up to 3 Billion passengers take flight a year; with 2x that expected by 2030



23 Billion ATM transactions per year



Of US Smart Phone users have **46%** Barcode scanning Apps



# The mainframe impact is felt across industries

Billion businesstransactions per day



We all touch the mainframe<br/>almost every day...... ATM withdrawals, to insurance policies<br/>... Paying utility bills to shopping

#### IBM zEnterprise

111

Redefining and securing global commerce at the rate of 240 million transactions every day

VISA

**Engines** of

PROGRESS



# **1.3 million**

Secure CICS Transactions, Every Second, Every Day.

In comparison, there are **68,542 Google searches** every second globally.



One of the top 35 technologies that shaped the industry.

-- Computerworld



# Technology is changing how we live, work and interact

## 63% of people

expect to be doing more shopping on their mobile devices over the next couple of years





# 40% of people

socialize more online than they do face-to-face



# 57% of companies

using cloud to drive competitive and cost advantages



## 300x growth

of digital content between 2005-2020



## Infrastructure Matters because ...

#### Cloud

#### **Big Data & Analytics**

#### **Mobile & Social**



Improving the economics of IT through efficiency and delivering new products and services faster



Handling large volumes of data and driving real-time insights



Revolutionizing information sharing and collaboration across the enterprise

Security

\*\*\*\*\*\*\*

Ensuring secure transactions and interactions



## **Innovative technology** for the next generation of business leadership



The ultimate **Analytics** engine for instant insight.

The foundation for a **Mobile** and **Social** enterprise.

Superior service at lower cost through Cloud.

A robust and **Trusted** infrastructure.



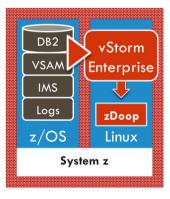
# Speed time to value and insight

with new analytics offerings on the mainframe



#### Industry's first commercial Hadoop for Linux on System z

- Veristorm partnership
- Analyze System z data using Hadoop without ever leaving the box
- 2-2-2; 2 billion records in 2 hours using 2 IFLs





### High Performance Flash Enclosure on IBM DS8870

- Up to 4x increase in I/Os per second performance over SSD, 30x over disk
- Accelerate System z database performance by up to 3.2x; Shrink batch times by up to 10%
- Faster FlashCopy replication with up to 70% better response time than disk



Enhanced File Transfer with DS8870 and IBM Sterling Connect:Direct
Cut data transfer CPU cost by 50%
Reduce transfer time by 30%

The DS8870 preview contains statements regarding IBM's current plans, directions, and intent and is subject to change or withdrawal without notice. Availability, prices, ordering information, and terms and conditions will be provided when the product is announced for general availability.

#### **IBM zEnterprise**

Build & Integrate enterprise & mobile applications to optimize the customer experience



#### IBM WebSphere Liberty z/OS Connect

Rapid and secure enablement of web, cloud and mobile access to z/OS assets

Simplified connection Auditing and chargeback Discover z/OS assets

Integrates with standard z/OS middleware: CICS, IMS, WebSphere Application Server Batch, UNIX applications **IBM CICS Transaction Server v5.2** 

Enhanced mobile protocol support and flexible application lifecycle management in a cloud environment



#### Mobile quality assurance

Capture tester and live-user experience for building great mobile apps



#### Continuous integration for System z



Compresses application delivery cycle from months to weeks or days

The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality. Exclusion about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality. Exclusion for any future features or functionality.

## Drive innovation and productivity through social business on the strength of the Mainframe



of CEOs rate their employees as their most important source of sustained economic value<sup>1</sup>

Drive enterprise-wide collaboration

Design and implement social strategies

Empower every employee



#### 400,000+

IBMers generating vast amounts of information

#### 50 million

instant messages per day

#### 75 percent

lower cost

#### Scalable

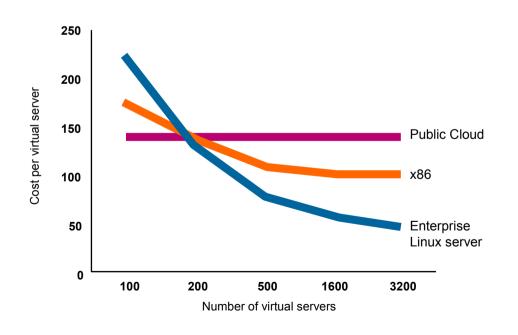
to accommodate rapid growth and enable non-disruptive change

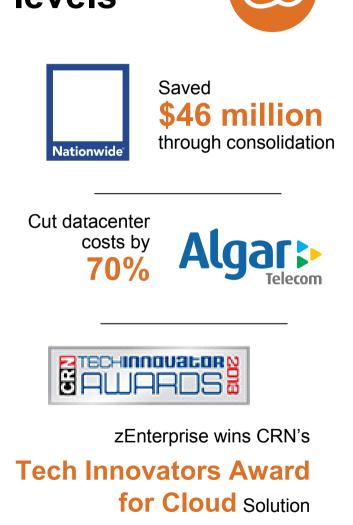
IBM



# zEnterprise redefines efficiency & economics of IT – enabling new levels of business agility

Delivering superior service at lower cost than legacy x86 or Public Cloud vendors





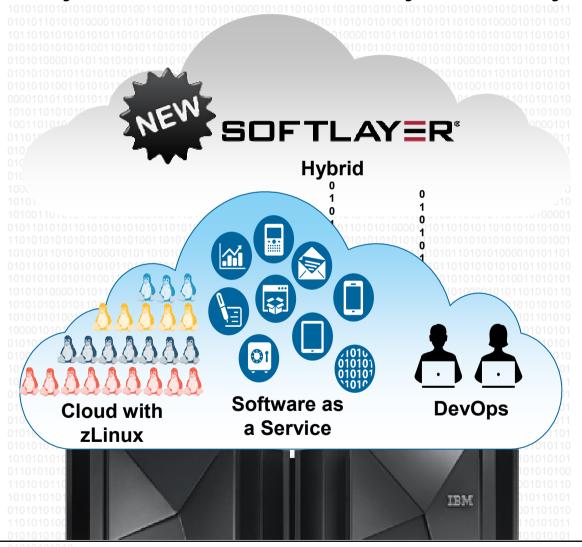


#### **IBM zEnterprise**

17



# Optimizing the integration of System z and SoftLayer for hybrid cloud



A robust hybrid infrastructure

for greater flexibility and resource optimization

Enables remote workloads to benefit from many System z strengths

#### **Proven configurations**

to deliver on SLAs, minimize network latency and optimize secure connectivity

PUBLIC

#### Ongoing investment in Linux & Cloud solutions on zEnterprise enables speed, flexibility & efficiency

#### IBM Enterprise Cloud System

Integrated solution for rapid deployment of secure & reliable public, private and hybrid cloud

on zEnterprise Local Experts, Global Reach

Solution Showcase & Briefings

Client, BP & ISV Education, Training, Testing and PoC

Accelerating Cloud & Open Source Adoption

#### IBM Wave for z/VM

Manage virtual machines with drag-and-drop simplicity















Pay-as-you-grow Pricing

Flexible consumption-based pricing for the Enterprise Cloud System









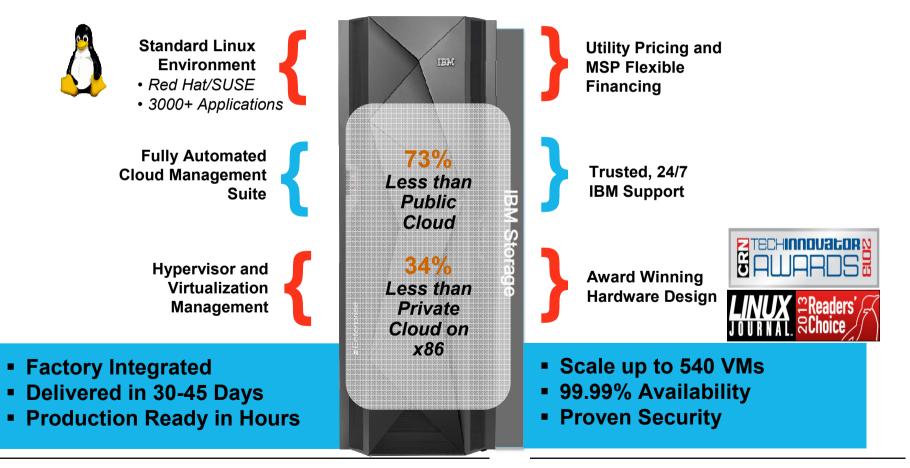
**IBM Linux & Cloud Centers** 



# IBM Enterprise Cloud System

## yields the lowest cost





A trusted infrastructure is essential for a cloud, analytics, mobile & social-enabled business



# zEnterprise delivers trust and confidence with unmatched security and reliability

#### Highest

assurance level of security with Common Criteria certification (EAL 5+)

#### **Enterprise Key** Management

across mainframe and distributed

#### Encryption

of data at rest, in flight, and in use



Prevent malicious computer attacks with enhanced security intelligence and compliance reporting, with up to 70% savings

**IT Analytics** 

to spot potential failures and capacity needs before they occur

#### 99 999%

design point for application availability

#### **7ero Second**

recovery point objective across thousands of miles

#### IBM zEnterprise





Delivering mobile banking that promotes upward mobility for the 80% unbanked population of Africa



# **IBM Mainframe: the next generation**

of people

of technology

of projects





# ISVs are healthy and growing with 7,600+ ISV-partner applications



<u>IBM</u>

**The Academic Initiative:** Recruiting, teaching, and developing the future Generation Z talent pool.



1000+

Schools

## 180,000+ Students





70 Countries 25,000+





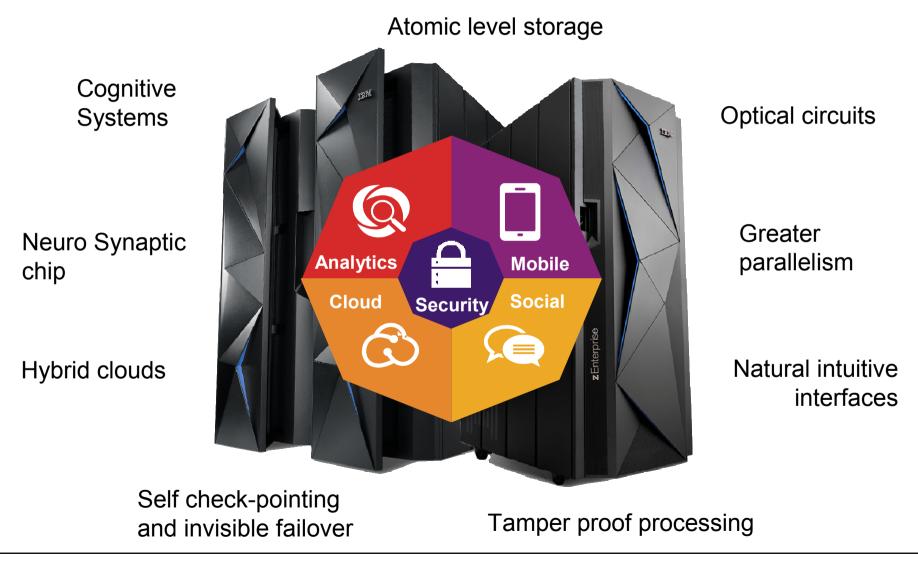
## Enabling Generation z: Massive Open On-line Courses (MOOCs)

# Online courses will be open to anyone, anywhere, anytime, all 100% free.





# The Future of Next Gen Mainframe Systems





# **Innovative technology** for the next generation of business leadership

"This is the beginning of a new generation not only of computers—but of their application in business, science and government."

Thomas Watson, Jr