

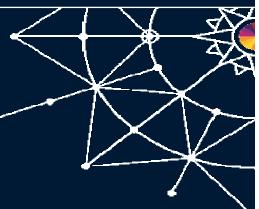
Reinvention, transformation & growth for the future

John Birtles

Director,
Business Line Exec, System z Platforms

IBM zEnterprise IBM.

The mainframe is **everywhere**, at the heart of enabling global commerce.





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

Over \$6 Trillion in card payments to execute annually²

Billion ATM transactions processed a year; worth more than **\$1.4 Trillion**



Reshape industries making the world work better

Reinvent and transform business for competitive advantage

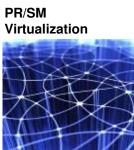
Build trust and confidence through secure transactions & data

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

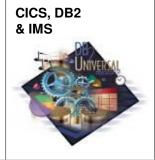
—Thomas Watson, Jr.

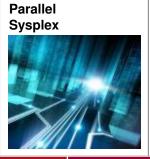
Constant evolution driven through co-creation with our clients





Java

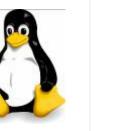




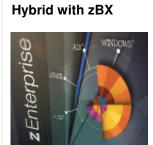




Linux















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



Enable better, faster decision-making

with the ultimate analytics engine for insights in an instant

72% of respondents plan to analyze transactional data from enterprise applications

80% of world's corporate data resides or originates on mainframes

The greatest value occurs when you execute analytics where the data originates

Avoid the high cost of ETL

Centralized data security and governance

Enable in-transaction analytics





The smart phone's ultimate accessory enables growth through optimized engagement

Big opportunities

for business growth through small screens

10 billion+

devices accessing information

70 percent

increase in mobile data bandwidth usage per year

Bridging Systems
of Record with
Systems of Engagement as a
foundation for a mobile
enterprise



Mobile transactions can quickly outpace traditional transactions







New System z Mobile Workload Pricing

enables IT investments to scale with growth & business returns of mobile



Improving the economics of mobile computing

NEW

New Peak Utilization

Prior Peak Utilization Growth Due to Mobile

Eligible for Reduction

Current Workload

No infrastructure changes required

Available on zEnterprise EC12 & zBC12

Up to 60% reduction in incremental growth from mobile transactions



Drive innovation & productivity through social business on the strength of the mainframe

71% of CEOs

rate their employees as their most important source of sustained economic value

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%

lower cost

Scalable

to accommodate rapid growth and enable non-disruptive change

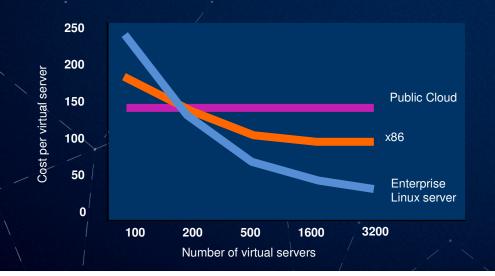


zEnterprise redefines efficiency & economics of IT enabling new levels of business agility

Economics will continue to be #1 driver of cloud adoption through 2016

80% view **security** as #1 challenge to cloud; 48% concerned with **reliability**

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









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

SECURITY

\$11 million

average cost of a security breach

\$7,900

average cost per minute of downtime

zEnterprise delivers trust Criteria

with upmatched security

& reliability

and confidence

Highest

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

IT Analytics

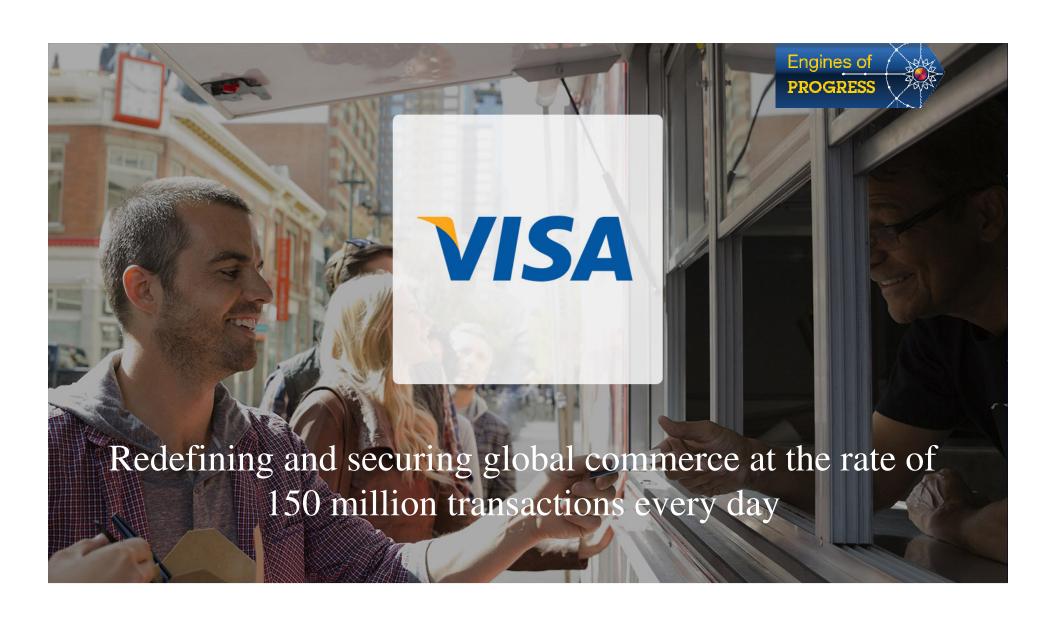
to spot potential failures and capacity needs before they occur

99,999%

design point for application availability

Zero Second

recovery point objective across thousands of miles



Visionary endeavors to transform and improve lives through new Research Projects

New York State Municipal Cloud



Enabling research to meet the challenge of sharing uniform data between government departments Rheumatoid Arthritis
DREAM Project



Cutting edge research to help millions with chronic pain

IBM-Ghana-Yale Partnership



Creating a System of Insight to eliminate HIV transmission from Mother to Child in Ghana

The future of next-generation mainframe systems

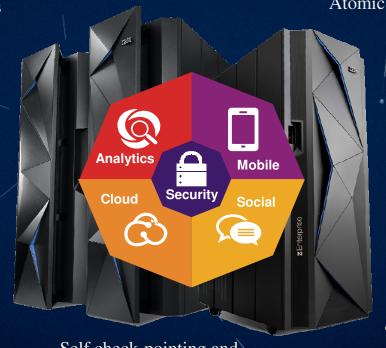
Cognitive systems

Neurosynaptic chip

Hybrid computing 2.0

Hybrid clouds

Advanced, open KVM virtualization



Self check-pointing and

invisible failover

Atomic level storage

Optical circuits

Greater parallelism

Natural intuitive interfaces

Tamper-proof processing

Technology is essential for leadership

LEAD

your industry through differentiation

GROW

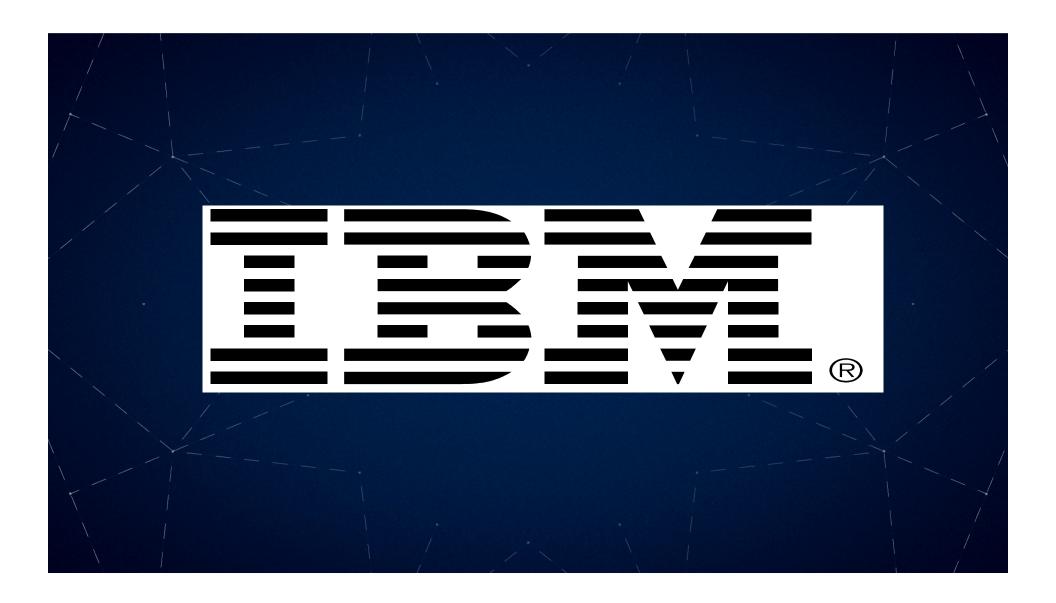
through new markets, services, business opportunities

INNOVATE

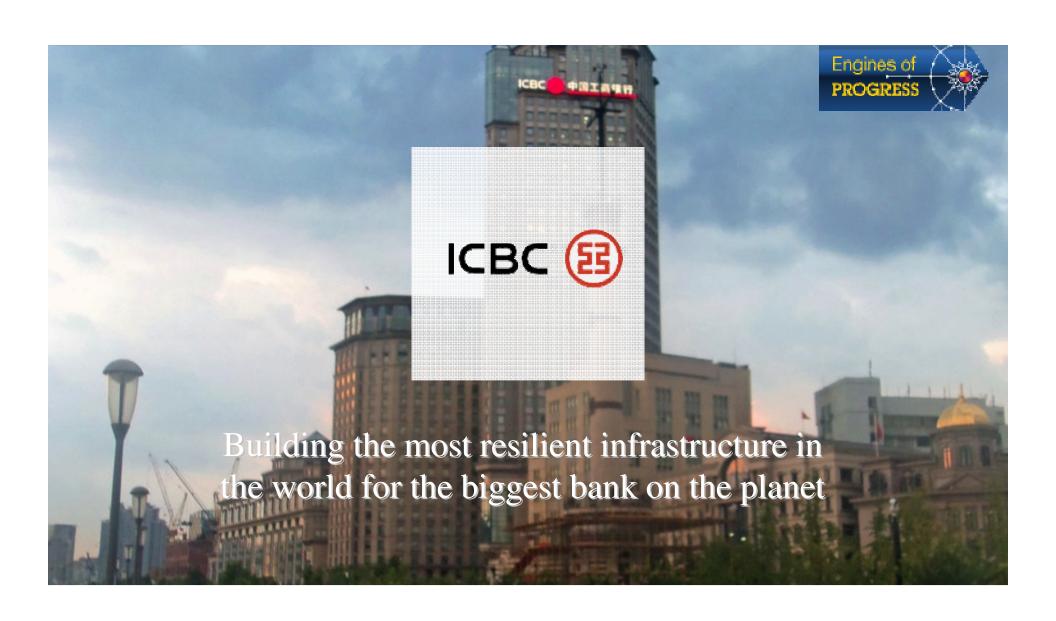
with disruptive technologies











Reinventing & transforming for competitive advantage





Serving **2.6 million** people while supporting rapid business growth with robust, secure and efficient mainframe technology

Enabled growth of:

600% in mobile, 200% in internet, 60% in in-branch transactions, 24% increase in tariff revenue through analytics, and avoids USD 1.5 million in electricity costs annually through the cloud