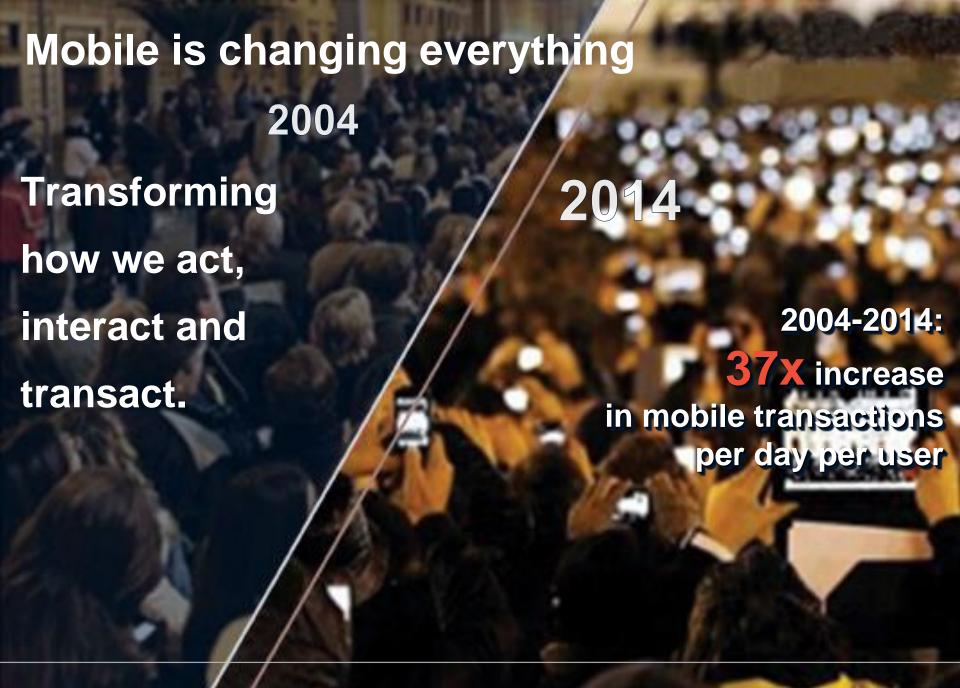


Digital Transformation: Changing the Way We Act, Interact and Transact

Mike Desens Vice President and Business Line Executive, z Systems

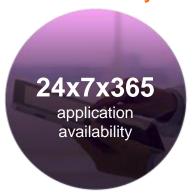






The new imperatives for digital business

Availability



Response Time



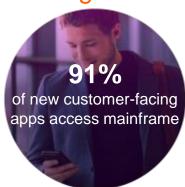
Personalization



Trust



Integration



Scale





Organizations are exploiting the fundamental strengths of the mainframe today

- Transaction Processing
- Data Serving
- Mixed Workloads
- Operational Efficiency
- Trusted and Secure Computing
- Reliable, Available, Resilient
- Virtually Limitless Scale



The all new IBM z13

Redefining enterprise IT for digital business and mobile app economy

Over \$1 billion investment with more than 5000 developers

Co-created with clients

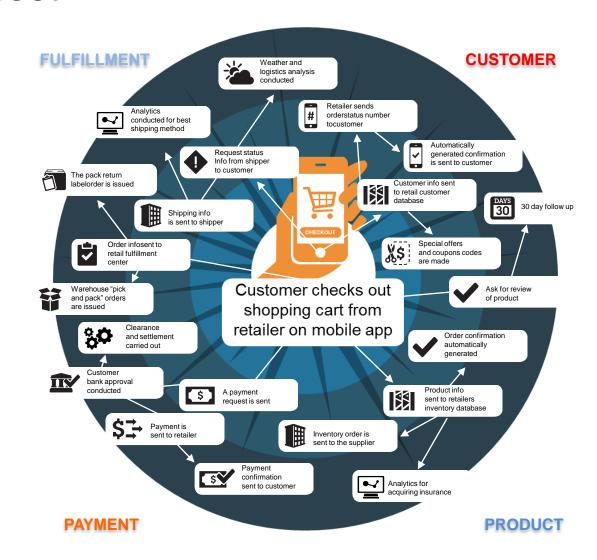
Extending core strengths of the mainframe

Transact at the scale and speed of mobile Deliver insights at the point of engagement with integrated analytics Ensure highest levels of security and trust through cloud



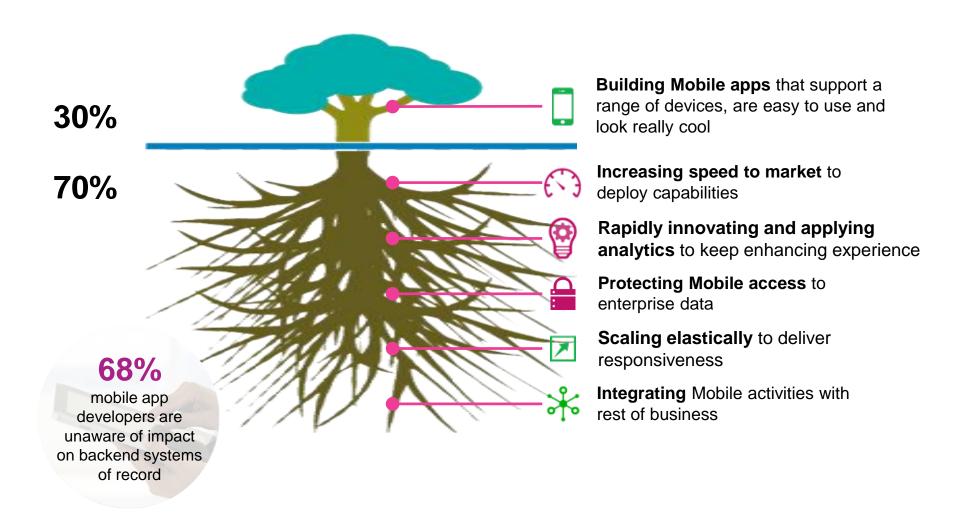
The Starburst Effect

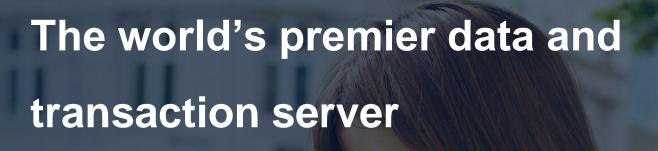
Each consumer transaction triggers a "starburst effect" of 4 to 100 system interactions across the network.





Rethinking Infrastructure for Mobile Moments





Now empowering the mobile generation

141 high performance cores delivering 40% more capacity

Simultaneous multi-threading for up to 30% more throughput

10TB memory to eliminate I/Os fol

to eliminate I/Os for up to 70% faster response time

320

Separate channels of dedicated I/O

2x

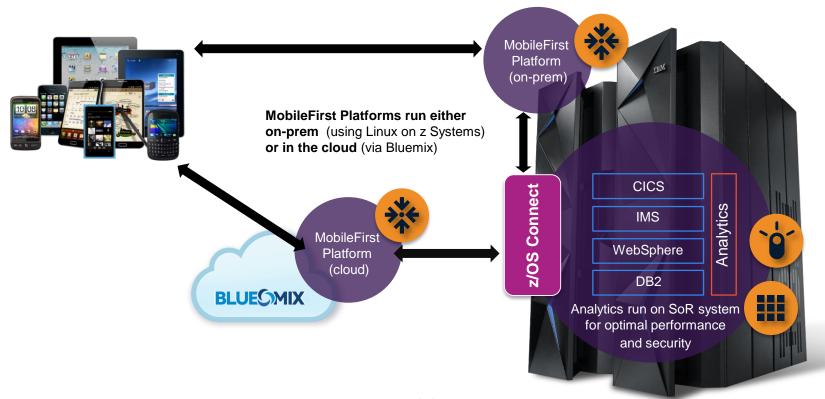
The Cache and I/O Bandwidth

D\$ 8000

flash enclosures for 3x increase in z Systems database performance



IBM z Systems bridge Systems of Record with Systems of Engagement for optimized service delivery



Serving mobile data directly from z/OS is 40% less expensive than exporting to a system of engagement





Data is the newest resource for competitive advantage



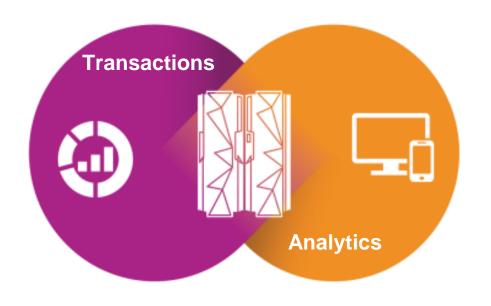
to customer lifetime value for firms using engagement analytics

\$13 for every dollar spent

nucleus estimate of analytics payback; 1.2 X more than 3 years ago But, Today's implementations add Complexity add Cost add Latency



Bring analytics to where the data and transactions originate for greatest value

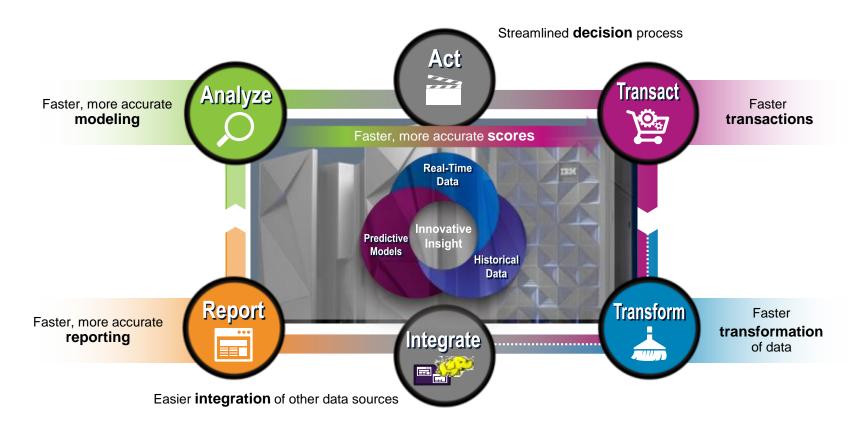


- Deliver right-time insights at the point of impact
- Manage data lifecycle and governance
- Eliminate redundancy and avoid ETL

100% of transactions scored without impact of service



z Analytics delivers the breadth of capabilities



Best of class integrated data and analytics life cycle management for: Generating customer insights, fighting fraud and financial crimes, ...

An integrated transaction and

analytics system

For right-time insights at the point of impact

DB2 Analytics Accelerator

delivering in-database transformation and advanced predictive analytics

DB2 BLU Acceleration

speeds analytics and reporting for DB2 on Linux

HADOOP

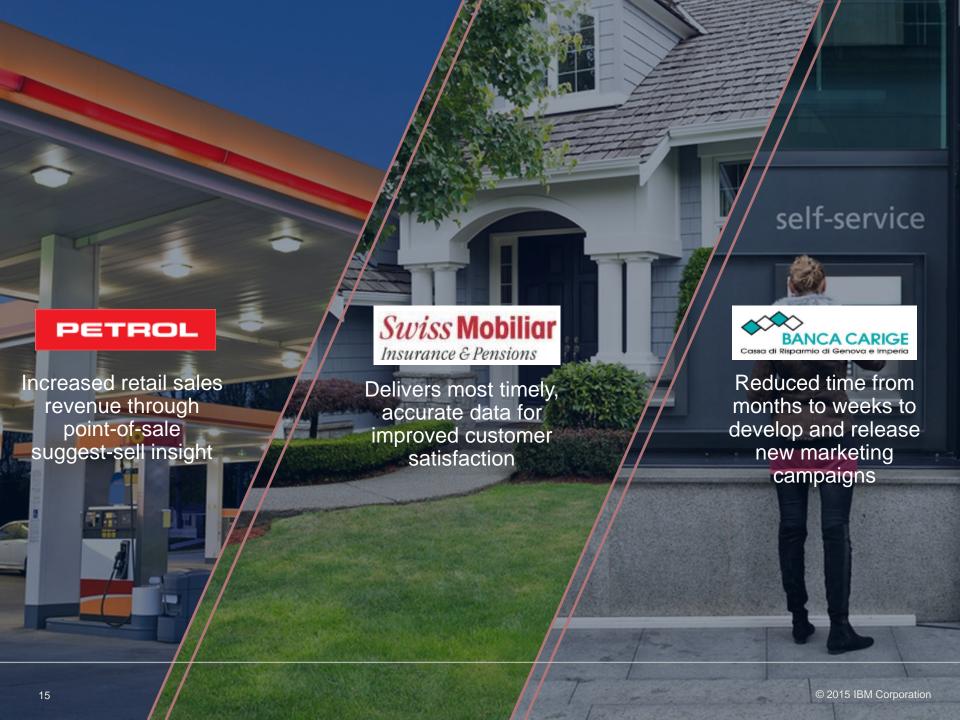
support for InfoSphere BigInsights with new connector technology

SIMD

speeding complex mathematical queries up to 80% with single instruction multiple dataset

zEDC

accelerated data compression to reduce data transfer volumes & storage costs by up to 75%





Businesses of all sizes deploy Cloud for service delivery in the digital era

Cloud deployment has grown 92% since 2012¹

57% of companies are using cloud to drive competitive and cost advantage³

Approximately 70% of enterprises will pursue hybrid cloud by 2015²

85% of new SW is being built for the Cloud⁴

Customers with a clearly defined Cloud strategy enjoy almost 2x the revenue growth and nearly 2.5x higher gross profit than peers⁵

Source: ¹ "Raising the game, The IBM Business Tech Trends Study,"

² "Private Cloud Matures, Hybrid Cloud is Next," Gartner G00255302, Sept 6, 2013

3, 4, 5 IBM Global Cloud Study "Under Cloud Cover"



IBM z Systems provide the infrastructure to support all dimensions of cloud service delivery



z/OS and Linux on System z as the foundation of the most secure, scalable private cloud infrastructure



Hybrid Cloud

Leveraging Bluemix and interoperability with SoftLayer, AWS and other public cloud offerings



Public Cloud

Enabling MSPs/CSPs to deliver differentiated mainframe-based service offerings

Elastic, virtually limitless expansion

Shared everything design for extreme utilization

Secure isolation of Virtual Servers

Built on open industry standards

The world's most efficient and

trusted cloud system

Transforming the economics and agility of enterprise IT

8.000

virtual servers in a single system, more than 50 per core

increasing flexibility in workload deployment

KVM

supports open virtualization with access to open source databases, tools & applications

zAware & GDPS

for continuous business operations, now available for LINUX

Crypto Express5S accelerating speed of

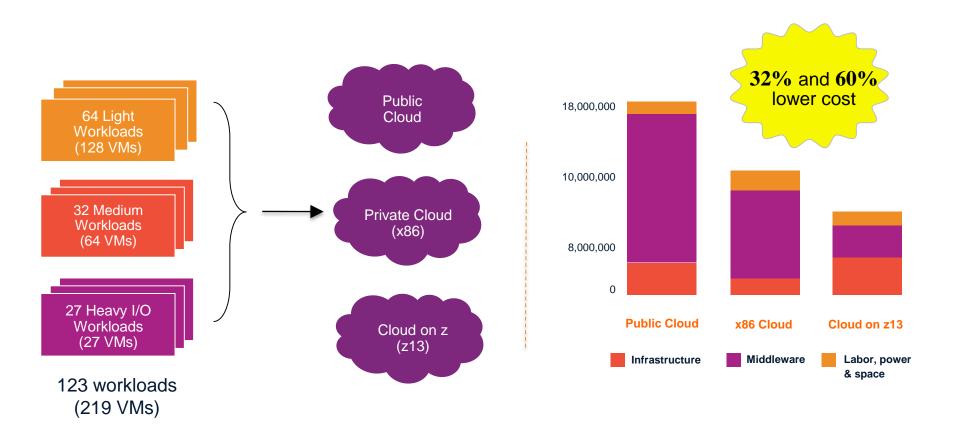
encryption up to 2x

Hybrid Cloud Connect Test Drive

to optimize integration with SoftLayer



Private cloud on z13 yields the lowest cost





IBM z Systems software pricing announcements

IBM continues to deliver software price/performance with latest hardware



IBM Collocated Application Pricing (ICAP)

Run your systems the way they were meant to be run

Integration of new applications priced as if in a dedicated environment



z/TPF Transformation Engine Offering

Supporting the growth of analytics, mobile and security

Special priced engines for new z/TPF workloads without impact to software charges



Country Multiplex Pricing

Evolution of Sysplex pricing, a shift to total flexibility and simplicity

Flexibility to move and run work anywhere within a multiplex



Mobile Workload Pricing for z/OS (Announced in 2Q 2014)

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

Up to 60% reduction in incremental growth from mobile transactions

LINUX ON Z - IBM LinuxONE ANNOUNCEMENTS

IBM LINUXONE SYSTEMS THE MOST TRUSTED, EFFICIENT AND HIGH PERFORMANCE ENTERPRISE-GRADE LINUX PLATFORM

OPEN SOURCE & ISV ECOSYSTEM LINUX YOUR WAY

IBM LinuxONE Emperor™



IBM LinuxONE Rockhopper™



ubuntu[®]



KVM







docker













Z=









redhat.



LPAR





OCaml







Duppet













DB₂













Cloud

Analytics

DevOps

NEW IBM LinuxONE Elastic Pricing

COMMUNITY COLLABORATIONS COMMITMENT TO THE OPEN COMMUNITY

Open **Mainframe Project**

IBM LinuxONE Community Cloud

IBM zAware Source Code Contribution





The 2016 z Systems
IBM Master the Mainframe
World Championship!









180,000 students

IBM z Systems
Job Connector
zjobconnector.com



A new generation of z Systems designed for the mobile generation

With the highest speeds, the most diverse workloads, and simply the best security on the planet