



Paul R. Robichaux Thursday, August 13, 2015 10:00 AM - 11:00 AM, Dolphin, Europe 2 Session 17788







Abstract and Speaker



- One of the primary missions of those charged with the responsibility to enhance and sustain the operational availability and integrity of the z Enterprise and its z Systems is to maintain their currency in both overall IT Server Market Trends and changes that specifically impact the z/OS environment. Such individual currency helps organizations adapt their IT strategies in ways that best fit the needs of all IT users and aids them in their long term effort towards reducing the Total Cost of z Systems Ownership (zTCO).
- This presentation, an update to one presented at SHARE in San Francisco and the IBM zUniversity in New Orleans in 2012/13, will provide fresh insight into the "Ups and Downs" experienced by hardware, software and business service providers as they manage the shift to "Hyper-Scale", increasing Cloud-based Systems of Record, all in an effort to satisfy the apparent, insatiable demand for service that is resulting from the never ending introduction of global systems that intend to engage users at every possible commercial and/or social entry point.
- Paul R. Robichaux is CEO and co-founder of NewEra Software, Inc. He served as the Chief Financial Officer of Boole and Babbage for the ten years immediately preceding his co-founding of NewEra in 1990. He holds a BS in Accounting and a Masters in Business Administration from a Louisiana State University and is a Certified Public Accountant.
- The corporate mission of NewEra Software is to provide software solutions that help users avoid non-compliance, make corrections when needed and in doing so, continuously improve z/OS integrity.





Hello! My name is Paul.

I am a Mainframer and Very proud of it!

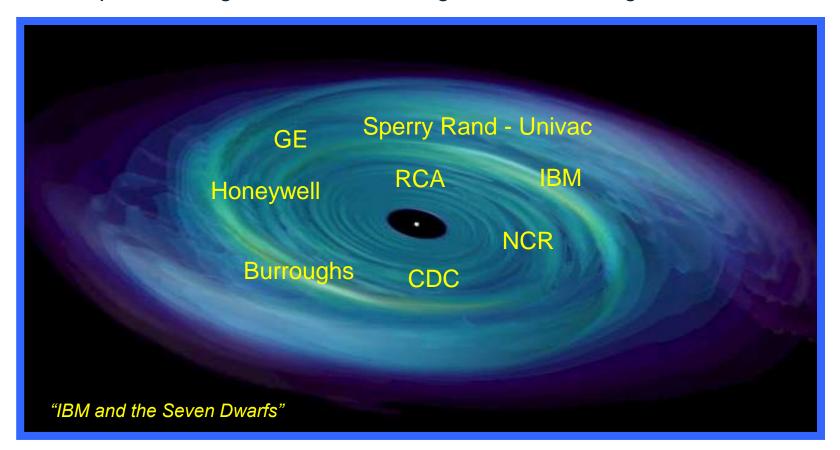
I like to think of myself as a citizen in the z Community!





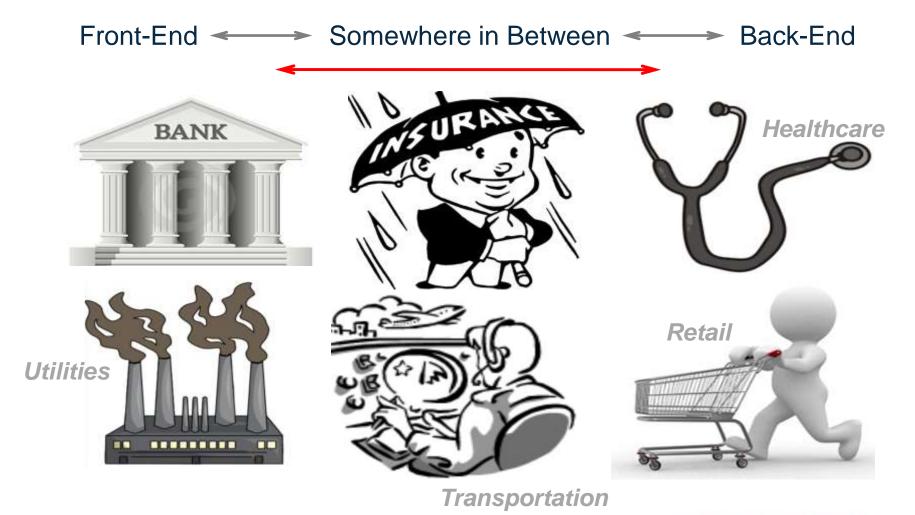


zEnterprise Management - Some Things Old are New Again!









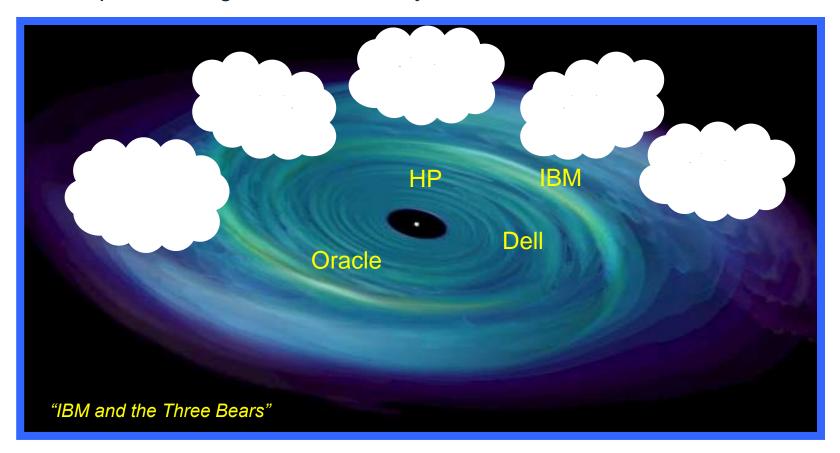
z Land as I see it!

Complete your session evaluations online at www.SHARE.org/Orlando-Eval
Thursday - 7/29/2015 - 10:00/11:00 - Dolphin - Europe



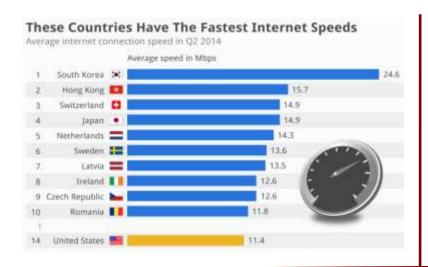


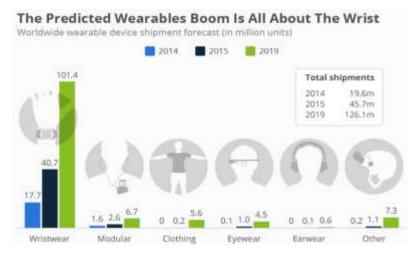
zEnterprise Management - Yesterday, the Cloud was the New Normal!

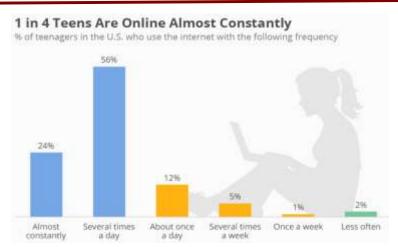


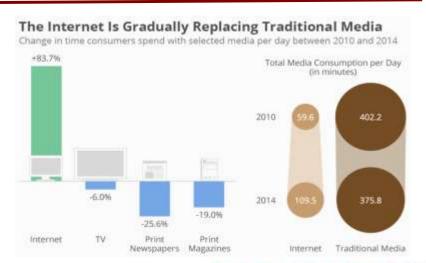












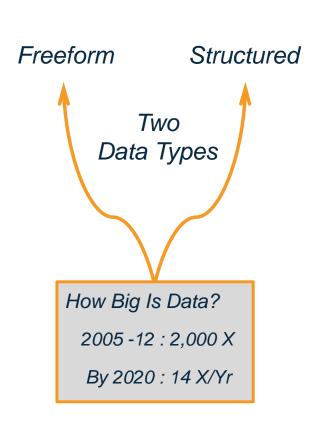
z Land as I see it!

Source: The Statistics Portal

SHARE on orlando 2015



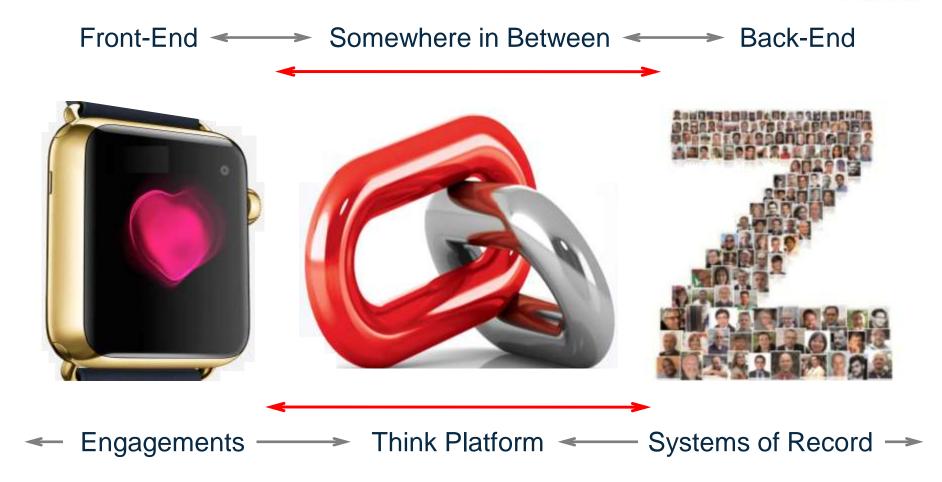
zEnterprise Management - Today, Disruption is Everywhere; Nothing is Normal!















Critical Success Factors:

- ☐ Total Cost of Ownership
- ☐ System Performance
- ☐ The User's Trust

Failure Results in Disintermediation:

"Disintermediation occurs when a buyer, having connected with the seller, circumvents the platform and talks to the seller, eventually doing her deal directly with that seller. As a result, the platform owner is then unlikely to get her revenue share. This may be considered a new form of disintermediation."

More about Disintermediation







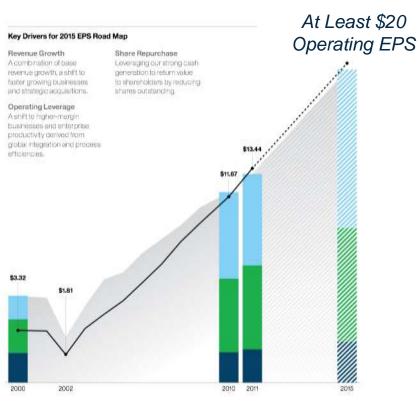
Execution against Financial Dreams





zEnterprise Management - Economic Performance - Key Players - The IBM Story



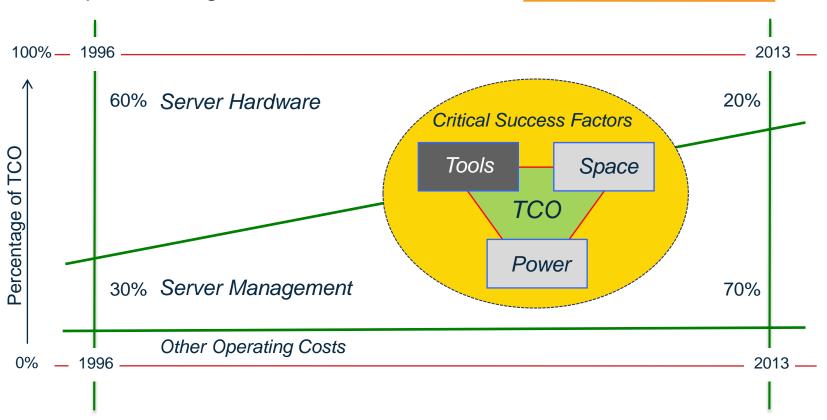


Virginia M. Rometty, President and CEO Samuel J. Palmisano, Chairman of the Board

Source: IBM 2011 Annual Report - http://www.ibm.com/investor/pdf/2011_ibm_annual.pdf



zEnterprise Management - Economic Drivers - Total Cost of Ownership



¹ Source: Dr. John Shedletsky – IBM Technical World – San Francisco – April, 2012





	HP (30)	Dell (15)	Oracle (6)	IBM (30)
1	Down 10% in 2011 and 23% in most recent quarter. Lenovo a Threat?	Still growing but pace has slowed. Large enterprise revenues up 5%.	Hardware is shrinking, plan to give up on unprofitable businesses.	High-end leader, business very profitable. Growth is modest.
2	Disclosure of apparent accounting fraud latest humiliation of tech giant.	PC eroding, enterprise division not enough to support company, use cash to acquire growth.	Better-than-expected software sales help tech giant beat expectations	Risk to exceeding 2015 projections: global slowdown, delayed or cancelled projects.
3	Board survives ouster attempt - 3.21.13 - Ray Lane out as Chairman - 4.5.13 -	Once one bidder, now three. What appeared simple - now complex, enchanting, and flawed.	Flat Q1 Earnings Continued decline in Hardware, No growth in Software.	Solid start, good client demand - did not close software/mainframe deals - Second Quarter.

¹ SHARE 08/12 - Financial Times – Friday, June 1, 2012 and (xx)Percentage Market Share – Q3 2011 - IDC

³ zSymposis 05/13 - NASDAQ/NYSE - Business Wire - SJMN - http://channelnomics.com - http://www.forbes.com/



² SHARE 02/13 - SJMN 12/19/2012 and Business Insider 11/2012 and http://seekingalpha.com/article/302020 & 821141



Market Capitalization: Common Share Price X Common Shares Outstanding

As of Q1 2013







Global Market Factors - Head Winds:

- ✓ Share gains for low-cost providers
- Questionable Macroeconomic Trends

Near-Term Factors:

- HP Cleanup the Acquisition Mess
- ☑ Dell Work with Hedge Funds, go Private
- ✓ Oracle Acquire SaaS Clouds Eloqua
- ☑ IBM Stay the Course, Invest in Tools

Source - Financial Times - Friday, June 1, 2012 and (xx)Percentage Market Share - Q3 2011 - IDC

Source - SJMN 12/19/2012 and Business Insider 11/2012 and http://seekingalpha.com/article/302020 & 821141

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Relative Stock Market Performance - 8/2012 - 4/26/13¹



¹ www.nasdaq.com – Relative Performance – IBM, HPQ, ORCL, DELL





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4	Splits in 2 by EOY/15. Q2/15 Nearly every business unit had declined in revenue.	Private. Dell Cloud Marketplace, will do for buying cloud services what Priceline did.	4 th Q/15 Earnings fall. 17% decline, core S/W. Acquired Datalogix for SaaS Cloud analytics.	Abandon \$20 target. Invest heavily in areas of growth, despite nearterm financial setback.
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¹ SHARE 08/12 - Financial Times – Friday, June 1, 2012 and (xx)Percentage Market Share – Q3 2011 - IDC

⁴ http://www.nytimes.com/2014/10/21/business/amid-a-shift-in-strategy-ibm-reports-weak-earnings.html



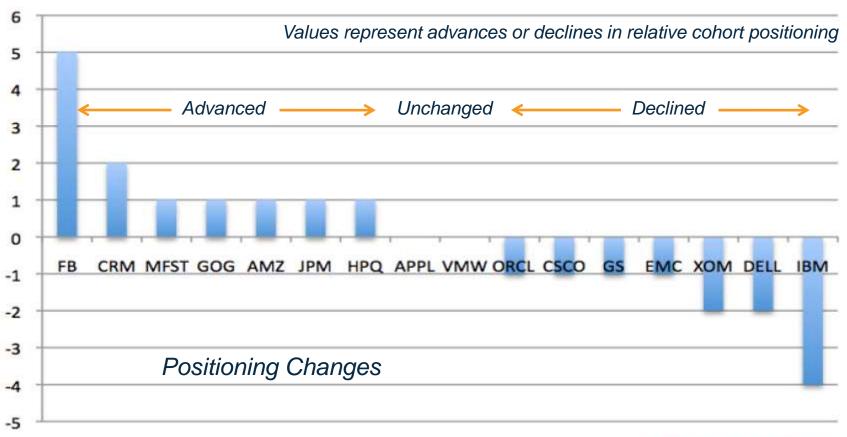
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Market Capitalization: Common Share Price X Common Shares Outstanding

Change in Position Q1 2013 to Q2 2015







Market Capitalization: Common Share Price X Common Shares Outstanding

As of Q2 2015



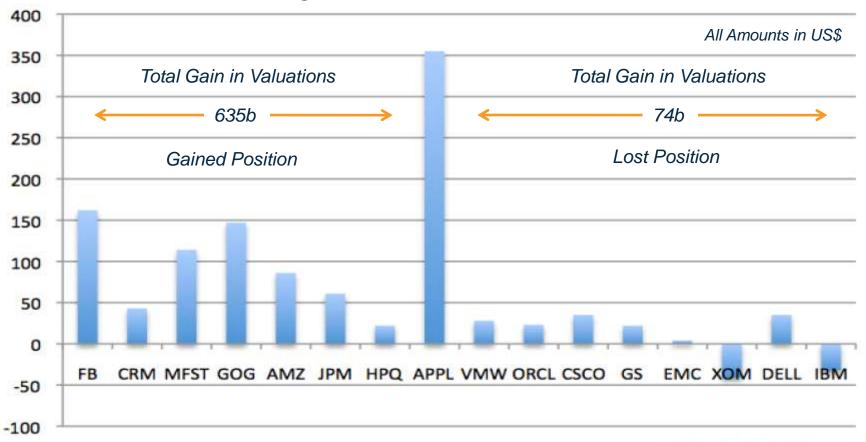
Factoid - The US Government has approximately \$50b on hand





Market Capitalization: Common Share Price X Common Shares Outstanding

Change in Fortunes Q1 2013 to Q2 2015







IBM (IBM) Add to Watchlists Create an Alert

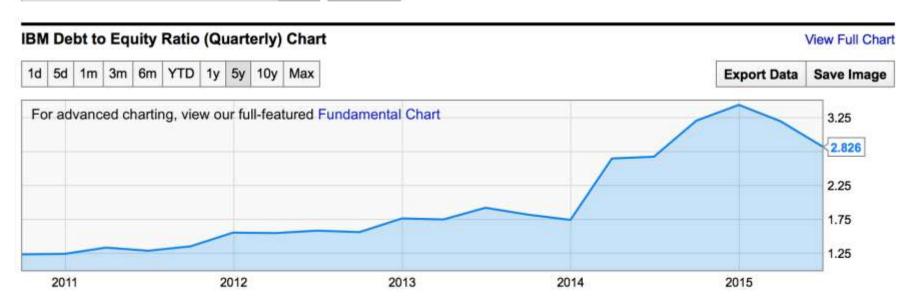
158.87 ▼ -0.88 -0.55% NYSE Jul 27, 14:58 Delayed 2m USD

Quote Fundamental Chart Technicals Key Stats Financials Data Estimates News Events Y-Ratings Performance Valuation Mu

IBM Debt to Equity Ratio (Quarterly): 2.826 for June 30, 2015

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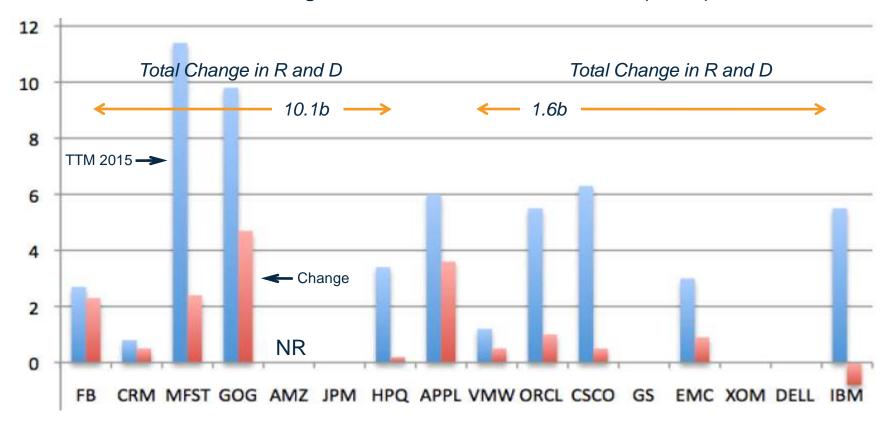
IBM delivers \$12.5 billion a year in free cash flow. There's isn't any solvency risk.





Total R and D Expenditures 2015 (TTM) and Change in Expenditures

Change in Fortunes 2011 to 2015 (TTM)







Relative Stock Market Performance June/12 - July/15



Q2 2015







Adapting to Predicted Realities





Everybody knows Moore's Law is DOA

http://www.eetimes.com/document.asp?doc_id=1170748



"...halving of the dimensions and doubling of speed of chips every 18 months--will run out of steam very soon - for certain in 10 years?"

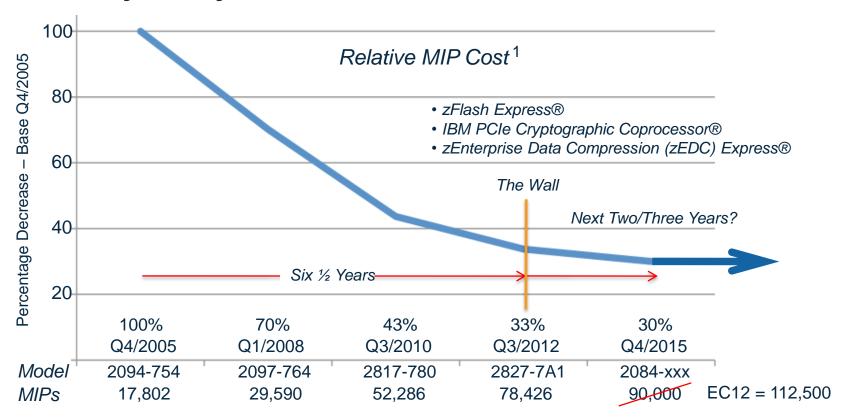
"Only a very few high-end chip makers today can even afford the exorbitant cost of next-generation research and design, much less the fabrication facilities needed to build them."

Two wolves: one good one bad; Which one do you feed?





Everybody knows We've Hit the Wall



Source:http://www.tech-news.com/publib/pl2084.html | pl2094 | pl2097 | pl2817 | pl2827





Everybody knows "IoT" is Coming Soon!

http://time.com/539/the-next-big-thing-for-tech-the-internet-of-everything/



"...loT is expected to generate large amounts of data from a diverse set of devices and locations, thereby increasing the need to better data indexing, storage and processing."

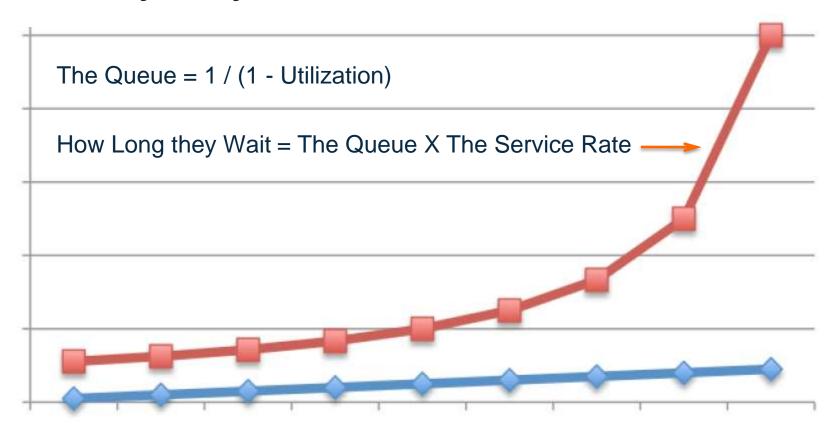
"...estimated at \$5.0 Trillion it will have a dramatic impact on everything from city planning, first responders, military, health and other..."

What is The Internet of Things (IoT)?





Everybody Knows Customers Won't Wait



The Theory of Queues





10/2014 - IBM/GlobalFoundries make a deal!

http://www.extremetech.com/computing/192430-ibm-dumps-chip-unit-pays-globalfoundries-1-5-billion-to-take-the-business-off-its-hands



"The Emirate of Abu Dhabi is the owner of GlobalFoundries through its subsidiary Advanced Technology Investment Company (ATIC)."

"IBM says that its previously announced \$3 billion investment in next-gen semiconductor research and development, over the next five years won't be affected by the deal."

Transaction closed June, 2015

Who is GlobalFoundaries?





Surprise! Moore's Law? Not dead just yet!

According to IBM, the alliance with GlobalFoundries, Samsung and others achieved a scaling improvement of nearly 50% over the currently most advanced technology, as well as introducing silicon germanium (SiGe) channel transistors and extreme ultraviolet (EUV) lithography integration.

IBM believes that the techniques and scaling could result in a 50% power-to-performance improvement in next generation mainframe and systems that power big data, cloud and mobile computing.

It is ironic that IBM had to pay GlobalFoundries \$1.5 billion to take ownership of its chip-making facilities in upstate New York. The transfer completed just last week. GlobalFoundries now owns chip-making plants in East Fishkill, N.Y., and Burlington, Vt., along with 16,000 patents, IBM's former chip customers and a 10-year contract to supply Big Blue with chips.

Tiny Tiny Chips

More





5/2015 - Avago's \$37 B Broadcom Deal

The Deal and the Details



"...the largest deal ever in the \$300 billion semiconductor business. The combined company will have the most diversified communications platform in the semiconductor industry..."

"...deal creates new competitive challenges for Qualcomm and may force the world's largest mobile chip maker to radically rethink its own strategy."

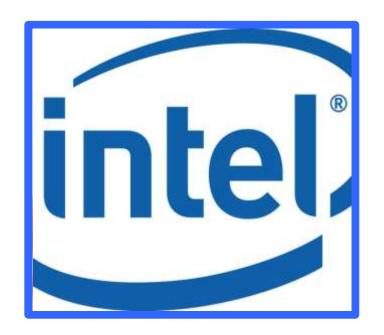
Who is Avago?





6/2015 - Intel's \$16.7 Billion Altera Deal

The Deal and the Details



"...Intel has been looking for growth beyond the struggling personal-computer market, which has been declining since it peaked in 2011..."

"...the combination is expected to enable new classes of products that meet customer needs in the data center and Internet of Things market segments..."

Who is Altera?





4/2011 - The Open Compute Project

http://www.opencompute.org



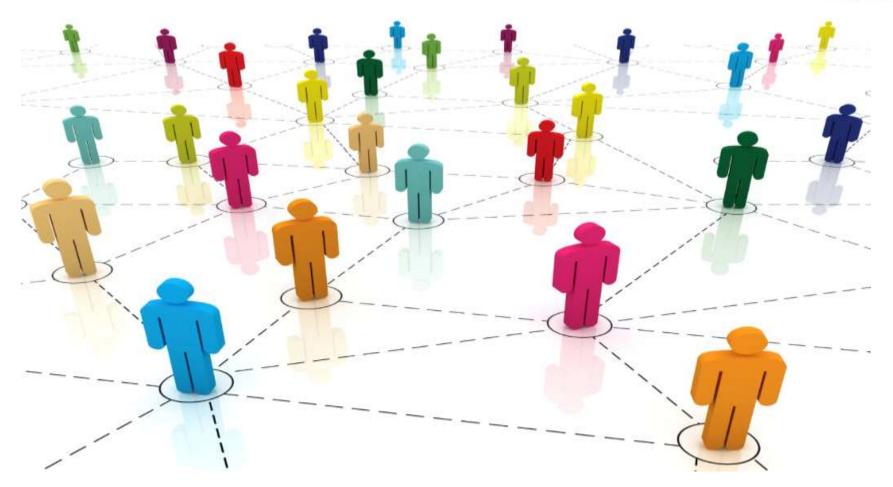
"...(OCP), one of the most important tech projects Facebook has ever created. OCP began in 2012 as a radically new way to build and buy computer hardware. It creates free and "open source" designs where anyone can contribute to the designs and use them for free, ordering them from a contract manufacturer."

Liked by: Microsoft, Intel, Goldman Sachs, Rackspace and others.

http://www.businessinsider.com/facebook-just-fired-a-huge-shot-at-cisco-2014-6 - ixzz3bNKjSy3Z







Embracing Market Trends



Embracing Market Trends



7/2013 - IBM Acquires SoftLayer Technology!

http://www-03.ibm.com/press/us/en/pressrelease/41430.wss



"...will enable IBM to deliver a marrying of the security, privacy and reliability of private clouds with the economy and speed of a public cloud."

"...joins the more than a dozen strategic cloud acquisitions IBM has made since 2007, all of which are designed to accelerate its cloud initiatives..."

Who is SoftLayer?



Embracing Market Trends



Different Chips but it's the Same Game!

And it will continue for sometime to come



Year	_	##
2015	_	5
2014	_	4
2013	_	9
2012	_	9
2011	_	8
2010	_	15
2009	_	7
2008	_	12

Recent Examples

Feb/14 - Cloudant:

\$1B PaaS - DevOps - Bluemix

June/15 - BlueBox:

Will offer as cloud service.

Denotes shift away from

on-premise solution targets.

June/15 - Portico:

Quickly build, test and deploy **IBM Digital Experience Cloud**

June/15 - Databricks:

\$300M - More ----

IBM Transformative Mergers and Acquisitions

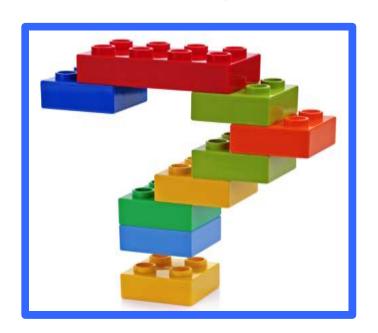


Embracing Market Trends



6/2015 - Major Commitment to Apache®Spark

Most Significant Open Source Project of the Next Decade



"...Spark basically replaces older methods (Google MapReduce and Apache Storm) of working with the big data stored in Hadoop..."

More Than Money:

- Embed in Analytic Platforms
- Offer as Cloud Service Bluemix
- 3,500 to Develop Applications
- Donate 'IBM SystemML'
- Train/Educate 1Million to Use
- Opened SF Technical Center

Spark In-Memory Processing. What is it?



Embracing Market Trends



7/2015 Partnership and Cooperation!

Big-tech incumbent International Business Machines Corp. and Silicon Valley darling Box Inc. are teaming up to boost each other's sales opportunities in corporate settings.



Teaming with Box

Apple has announced a strategic partnership with IBM that will see the enterprise giant transfer over 150 of their enterprise and IT apps and tools to Apple platforms natively, and will also have IBM selling Apple iPhones and iPads to its business clients all over the world.



Teaming with Apple





Big Tent! Could you Make Room for Us?

OpenStack Community



• IBM is listed as the company most likely to win Cloud business (18 percent), followed by Microsoft (11 percent) and Amazon Web Services (6 percent). <u>Link</u>







Keys Under the Doormat

Winning with Illusions





Are Consumers Satisfied with Security?

"Consumers have zero privacy so just get over it."

Scott McNealy, 1999

"If you have something that you don't want anyone to know, maybe you shouldn't be doing it in the first place ."

Eric Schmidt, Recently

"Consumer attitudes are changing as they share more and more information on line."

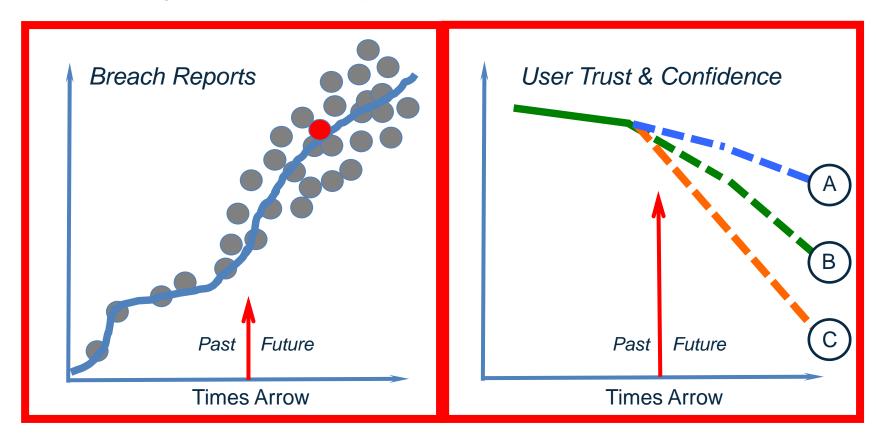
Mark Zuckerberg, Recently

San Jose Mercury News May 21, 2015





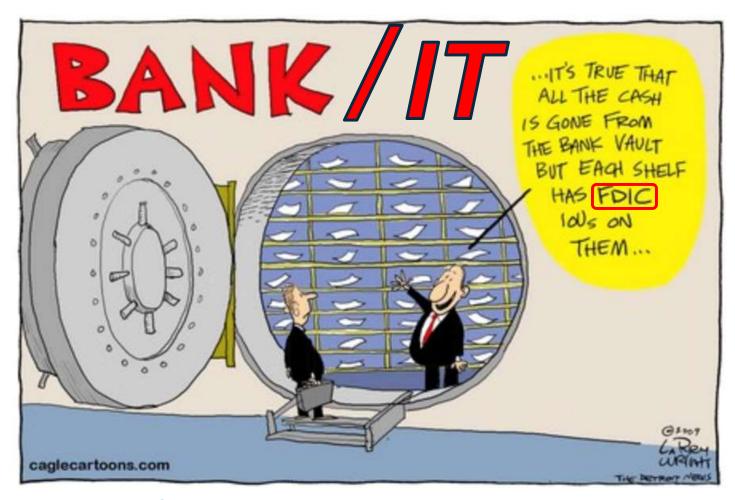
Connecting the Dots - Can you spot and name these trends?



Is there a Tipping Point? See Malcolm Gadwell







Or with Facts. Why Banks want Mainframes!







Apple on the Upper East Side of New York







Is it Working? Will it work?





The Pivot to Cloud Fast; Results Slow!

13th

In April, IBM announced its 12th consecutive quarter of declining revenue, with sales of \$19.6 billion coming in 12% lower than the year before.

Growth in its cloud services and analytics tools aren't enough to offset the declines the company is facing elsewhere. 46 Cloud Data Centers to be in place by EOY 2015, half based overseas.

Any lift IBM could receive from its recent slew of acquisitions and "BFF" partnerships is unlikely to have significant impact on its revenue anytime soon.

More Financial News





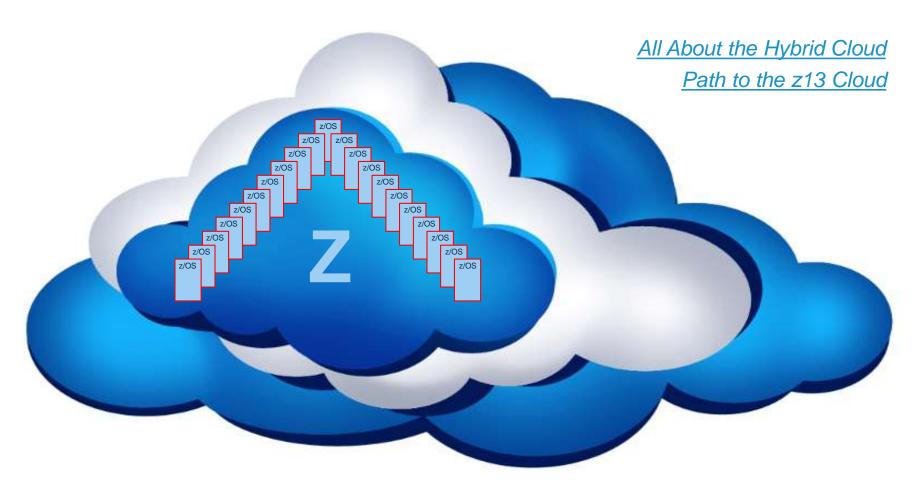
What is SaaS?



IBM Interactive Experience Named Largest Global Digital (Ad) Agency



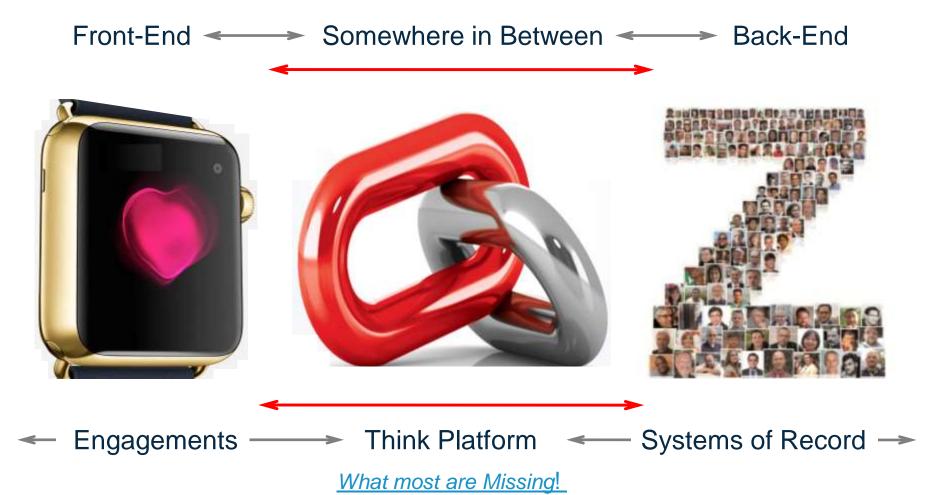




Something Old is New Again. Believe!





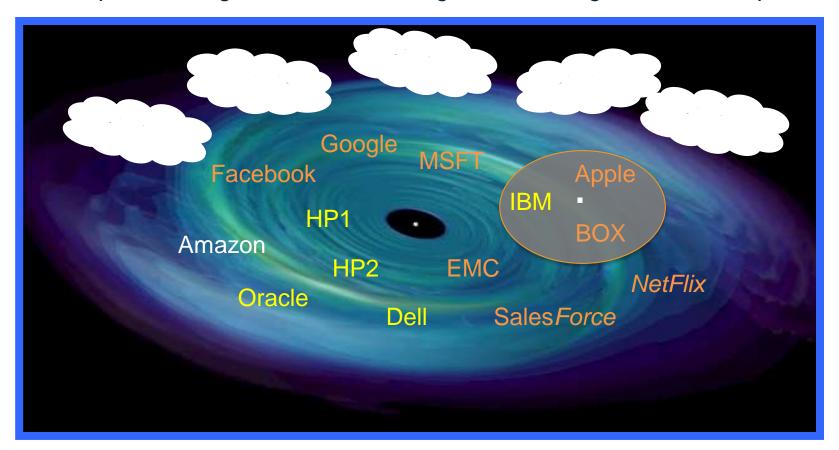


Think Platform!

SHARE in Orlando 2015



zEnterprise Management - Some Things Old, New Again -Partnerships!



z Land as I see it!







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Evaluations Please!



