



CIO
100



Do CIO 100 Organizations Outperform the Market?

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- The CIO 100 Award, 1988 – 2012
- IT Innovation
- 25 years of honorees
- Analysis of top-ten honorees
- Another study of CIO 100, 1988-2007
- Future research directions

Overview



- 1988 study of 1,000 firms (Brynjolfsson et al)
 - \$1 increase in a firm's computer capital associated with \$5 increase in stock market value
 - Remaining \$4 increase due to intangible assets
 - Intellectual capital
 - Skills, decision-making, work practices
 - Study didn't focus on IT innovation
- "IT doesn't matter," N. Carr, *HBR*, 2003
 - IT doesn't offer sustainable advantage

A green thought bubble with a dark red outline, containing text. It is connected to the list item 'IT doesn't offer sustainable advantage' by three smaller green circles of increasing size.

*Do IT
innovators
outperform
the market?***3**

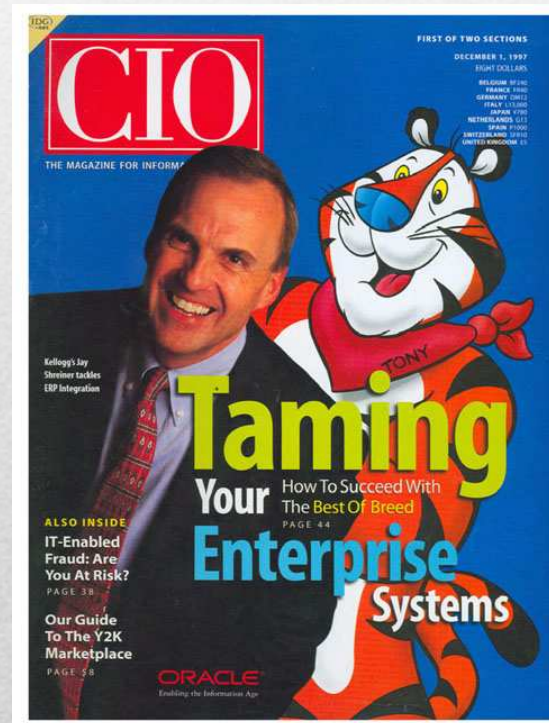
Preface

CIO

- Provides “technology and business leaders with insight and analysis on information technology trends and a keen understanding of IT's role in achieving business goals”
- Launched in 1987
- Free to qualified subscribers
- Circulation: 140,000 readers
- 160 awards for magazine/website
- cio.com, cio-asia.com

CIO Magazine

eLeader Singapore, 2-4 January 2013





- Annual award
- Nominations
- Honorees
 - Well-managed projects
 - IT innovation
- 1988-2012:
 - 2463 honorees
 - 1478 unique organizations
 - 430 honored at least twice
 - FedEx led with 19 awards

The CIO 100 Award, 1988 – 2012



- American Hospital Supply, 1976
- American Airlines' Sabre, 1976
- FedEx: internet-based tracking in 1994
- eBay: launched in 1995
- Amazon.com: launched in 1995
- WalMart: RFID in 2003
- Others: big data analytics, cloud computing, virtualization, enterprise mobility, enterprise security, web services

IT Innovation: Classic Cases 6



- Creating new business value with IT innovation
 - Law firm uses IT to cross-sell
- Driving business growth with IT innovation
 - Internal collaboration, cost containment
- Transforming business strategy with IT innovation
 - Analytics to identify potential problems

CIO 100 Themes

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25 years of honorees



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- Schwab.com: overall return between 1988 – 2012
- Dow Jones Industrial Average: +508%
- Top ten average: +1738%

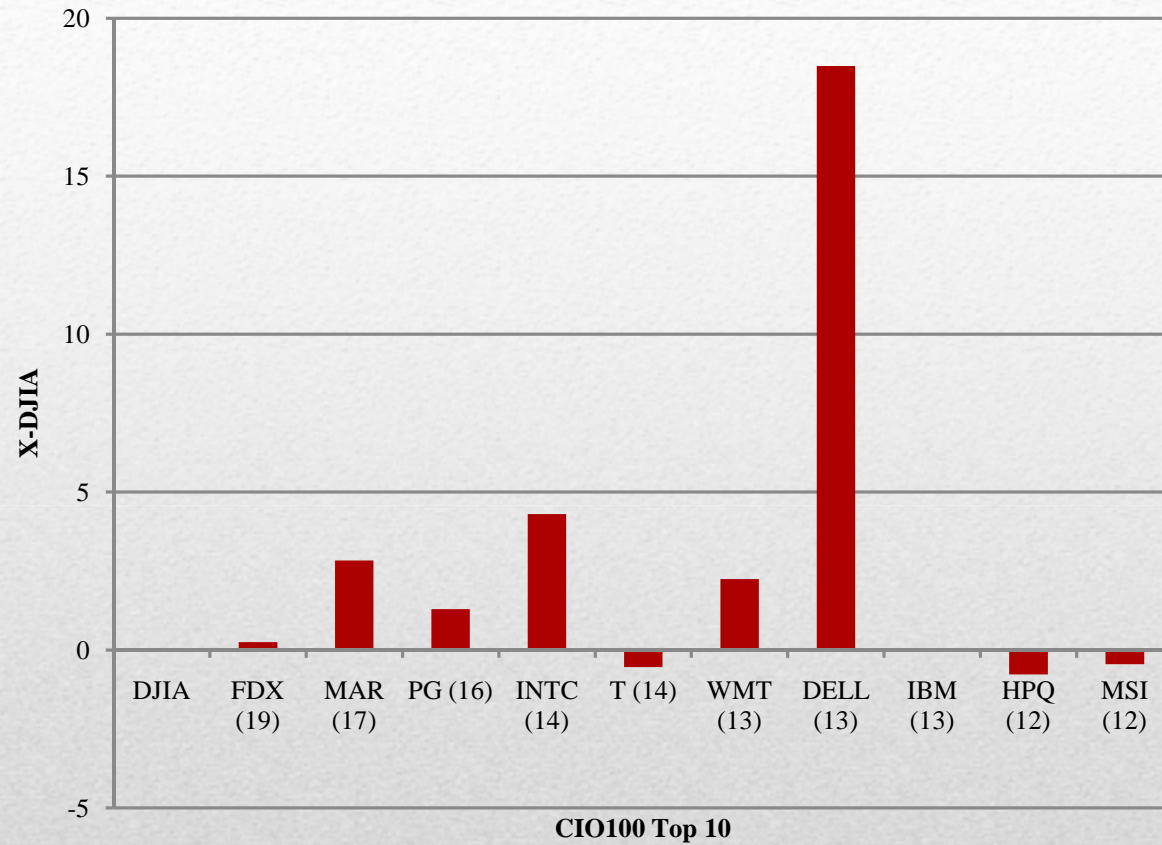
Analysis

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Company	#years	Symbol	% +/- DJIA
FedEx	19	FDX	+25
Marriott	17	MAR	+283
Procter & Gamble	16	PG	+129
Intel	14	INTC	+431
AT&T	14	T	-54
Wal-Mart	13	WMT	+225
Dell Computer	13	DELL	+1849
IBM	13	IBM	+5
Hewlett-Packard	12	HPQ	-77
Motorola	12	MSI	-45

Analysis of top-ten honorees₁₀

eLeader Singapore, 2-4 January 2013



DJIA v. CIO 100 Top 10



- Adi Masli et al, Returns to IT excellence: Evidence from financial performance around information technology excellence awards, *International Journal of Accounting Information Systems* 12 (2011), p 189 – 205
- Studied CIO honorees, 1988 – 2007
 - 954 awards
 - 373 firms
 - ROA for award year & subsequent two years

Another study of CIO 100, 1985-2007

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R1: Do CIO award-winning firms perform better following the award than their peers?

→ yes, on average, they were higher than benchmark

R2: Does CIO award-winning firms' performance improve following the award?

→ No

R3: Do CIO award-winning firms no longer perform better than their peers after 1999?

→ Yes, except for most 6+-year awardees

Research Questions

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- Multiple award winners perform better than others
 - Both pre and post 1999
 - Suggests IT capability is as important as IT innovation
- Award winners generally don't perform better post-award

Research Conclusions

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- Superior IT yielded superior performance until 1999
 - 1990's IT boom
 - 1999 dot.com bust
 - Y2K diversion
 - IT outsourcing
- No difference after 1999
 - Except for group with exception resources
 - IT capital
 - IT human resources
 - Intangible resources & knowledge assets

Returns to IT Excellence: Conclusion

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- IT capital investment riskier than non-IT capital
- 2002 Gartner survey: 20% all IT expenditures are wasted
- 2004 IBM survey of 1000 CIO's: 40% of all IT projects yield no ROI
- 2009 Standish: majority of IT projects are unsuccessful
 - 44% late, over budget, and/or missing required features
 - 24% are complete failures
- CIO projects are judged to be *successful*

Interesting statistics

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- Has there been a change in IT excellence & performance since 2007?
- Compare performance of CIO 100 with
 - CIO-Asia 100
 - *Computerworld* Honors Program (1989-2012)
- Are IT innovation and IT capability correlated?
- How significant is the CIO leadership?

Future Research Directions 17

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*Comments?
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Thank you!

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