

July 10, 2015

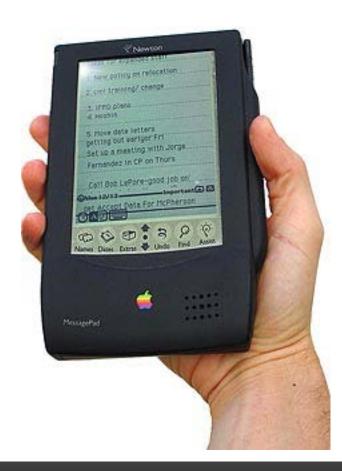
Competition Among Platforms

Malcolm Frank / Cognizant

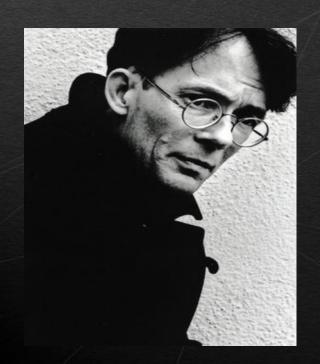
So where are we with platform evolution?



1997 - 1998







"The future is already here—
it is just unevenly
distributed."

William Gibson

A Story in Three Acts

- 1. Platforms Compete Against Industrial Models
- 2. Platforms Go Mainstream
- 3. The Net New

Platforms Compete Against Industrial Models

What did we learn?

What Marshall Said

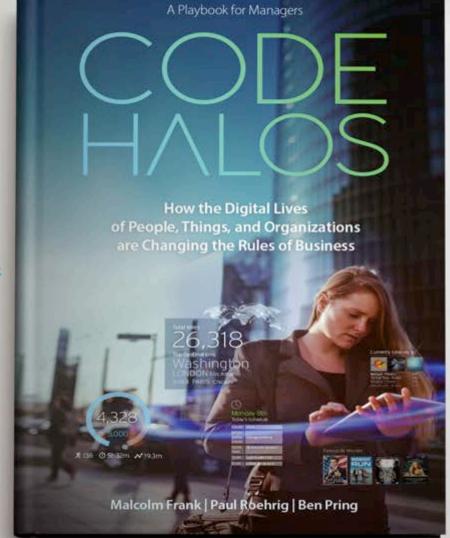
6 slides used to be here (consider yourselves spared)

The Book

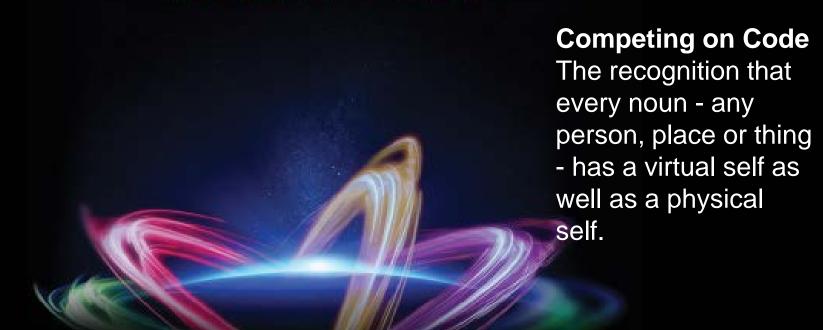
Co-authored by Malcolm Frank Paul Roehrig Ben Pring

Published by Wiley & Co.

USA Books 2014 Business Book of the Year







Six Companies, 10 Years, \$1 TRILLION Created













They all did it with Code Halos



Meet the Trillion-Dollar Club

	2003 Value (in Billions)	2013 Value (in Billions)
Amazon	\$23.90	\$180.20
Apple	\$8.90	\$515.40
Facebook	Not yet founded	\$132.00
Google	Private, 4 years old	\$355.20
Pandora	Private, 3 years old	\$6.00
Netflix	\$1.5	\$21.70
Total	\$34.30	\$1,210.50

Except where otherwise noted, all financial data is from S&P CapitalIQ. We looked at the maximum market capitalization in each year.



Well, we all know that...

Putting the transition in

Why does this all matter?

perspective

Platforms Go Mainstream

The Coming Platform Boom

Climbing out of "The Chasm"



One can only be staggered by the hubris of modern artists if we compare them, say, to the humble builders of Chartres Cathedral whose names are not even known. The artist ought to be distinguished by selfless devotion to duty; but we forgot about that a long time ago.

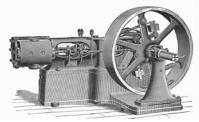
(Andrei Tarkovsky)

izquotes.com

We've seen this pattern several times before...



Industrial Revolutions













Computing 1975





1771



The Economic Revolution Three-Step



The Burst of Innovation



The Chasm





The Largescale Build-out





Industrial Economy

Burst of Technical innovation

1875 - 1914

Highly Concentrated:

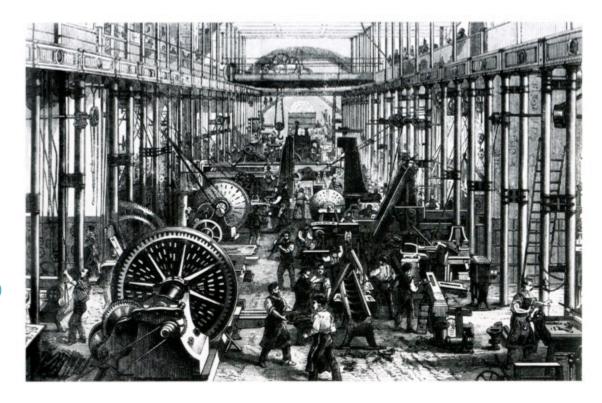
- Geographically
- Financially

Select, and related, industries

- Steel
- Transportation (rail, auto, shipping)
- Oil
- Lighting / Electricity
- Communications
- Finance

Massive personal wealth creation

The Second Industrial Revolution





Industrial Economy

Burst of Technical innovation

1875 - 1914

Highly Concentrated:

- Geographically

- Lighting / Electricity
- Communications
- Finance

Massive personal wealth creation

Steel *



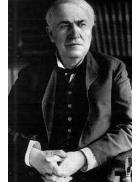
Shipping



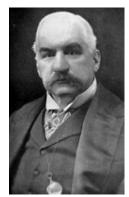
Oil *



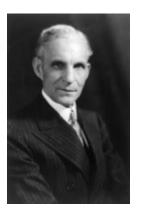
Financially Select, and related, industries Steel Transportation (rail, auto, shipping)











Automotive *

Digital Economy

Burst of Technical innovation

1985 - 2015

Highly Concentrated:

- Geographically
- Financially

Select, and related, industries

- PCs.
- Databases
- Enterprise Applications
- Networking
- IT Services
- Mobile Devices
- Social Networking

Massive personal wealth creation



Digital Economy

Burst of Technical innovation

1985 - 2008

Highly Concentrated:

- Geographically
- Financially

Select, and related, industries

- PCs
- Databases
- Enterprise Applications
- Networking
- IT Services
- Mobile Devices
- Social Networking

Massive personal wealth creation





Industrial Economy

Burst of Technical innovation

1870 - 1929

The Chasm







The Great Industrial Build Out 1945 - 2000







Highly Concentrated:

- Geographically
- Financially

Select, and related, industries

- Steel
- Transportation (rail, auto, shipping)
- Oil
- Lighting / Electricity
- Communications
- Finance

Massive personal wealth creation



Highly Fragmented

- Geographically
- Financially

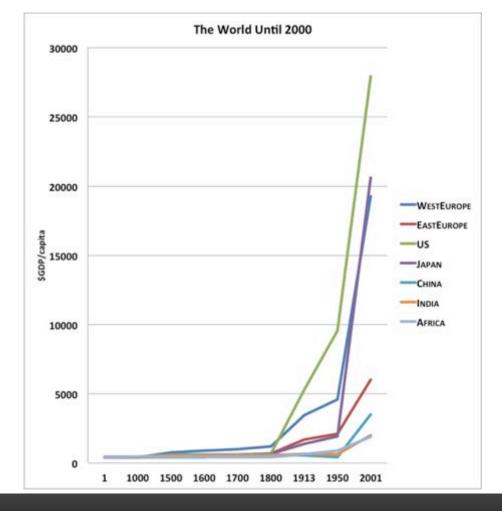
Broad application across industries

- Healthcare
- Transportation
- Retail
- Consumer Products
- Entertainment
- Finance

Huge Distribution of wealth*

Establishment of large middle classes in G7+ nations





Digital Economy

Burst of Technical innovation

1985 - 2009

The Chasm









The Great Digital Build Out 2015 - ?







Highly Concentrated:

- Geographically
- Financially

Select, and related, industries

- PCs
- Databases
- Enterprise Applications
- Networking
- IT Services
- Mobile Devices
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Massive personal wealth creation



Highly Fragmented

- Geographically
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Broad application across industries

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Huge Distribution of wealth*

Establishment of large middle classes in D7+ nations



Rethinking the Corporation

When Platforms go Mainstream in more "traditional" industries

A new focus for IT

Focusing on the Core

S&P 500 Revenue

\$8,179B



COGS \$4,951B 60.6%

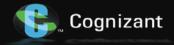


Which is great ... and terrifying





But...there are some things we do know...



Six new competencies in platform competition

- 1. Mobilization of Everything
- 2. Digitization of Processes
- 3. Pervasive Analytics
- 4. Make it Beautiful
- 5. From Transactions to Journeys
- 6. Digital Ethics Matter

Six new competencies in platform competition

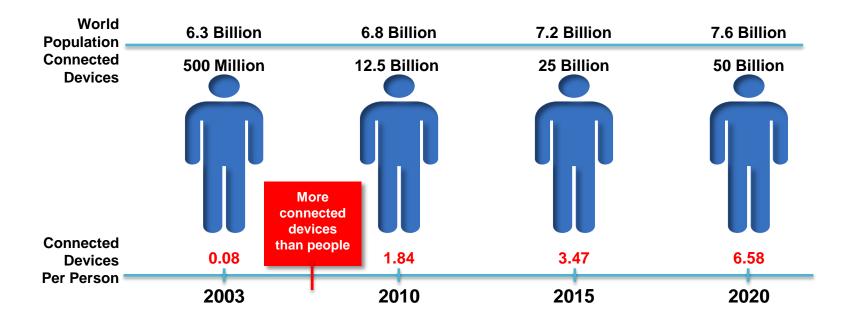
- 1. Mobilization of Everything
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The numbers are staggering ...



Source: https://contractiq.com/Internet_Of_Things_Report_2014



2015







Computational Power

2022







Computational Power





Computational Power

The mobilization of everything







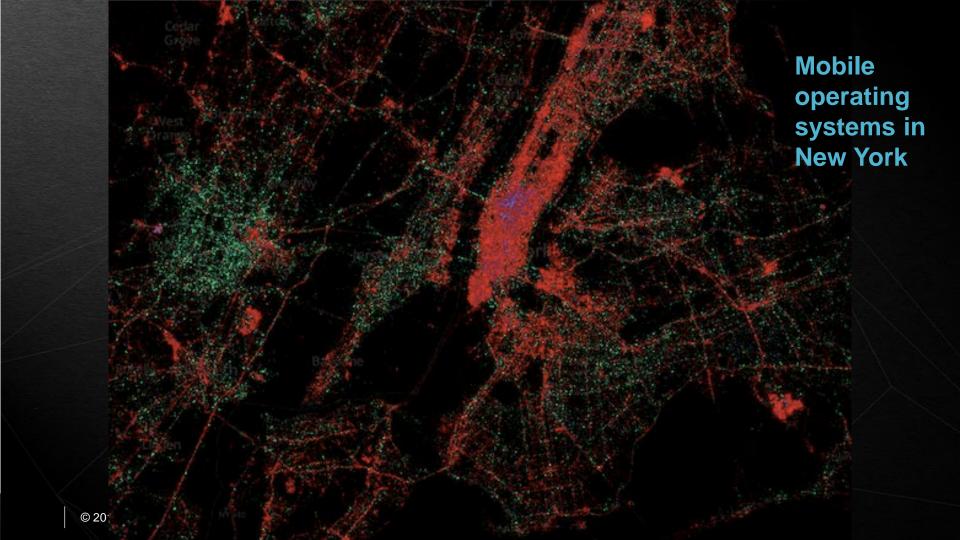


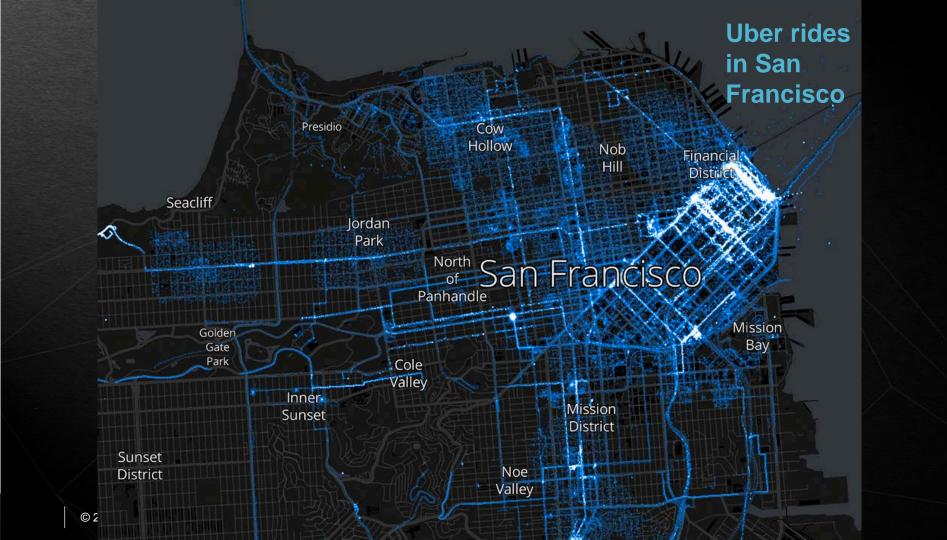


The mobilization of everything

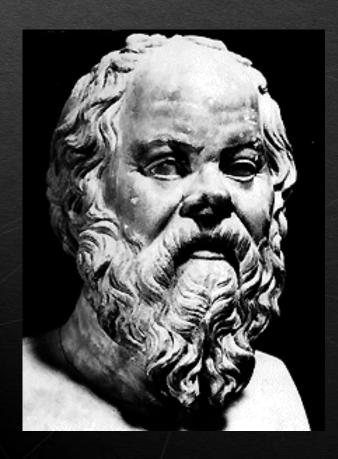










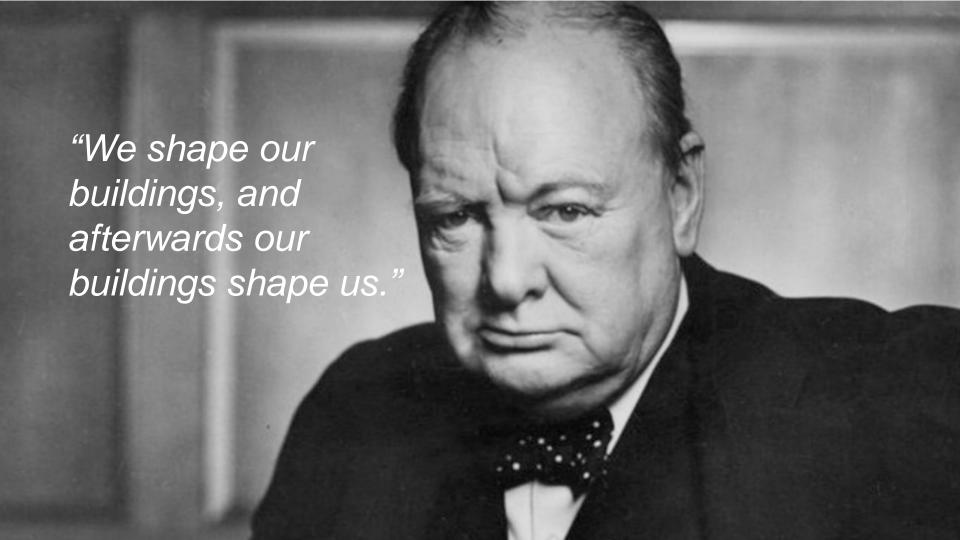


"The unexamined life is not worth living."

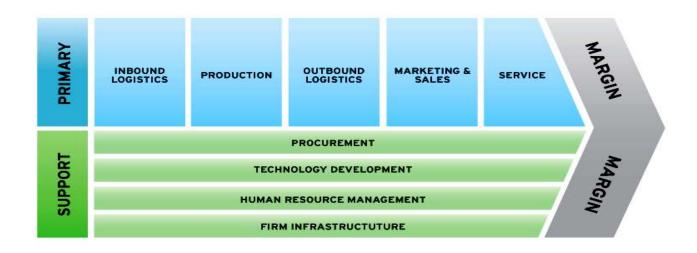
Socrates

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The Digitization of Processes



Designed for Widgets....not for Digits

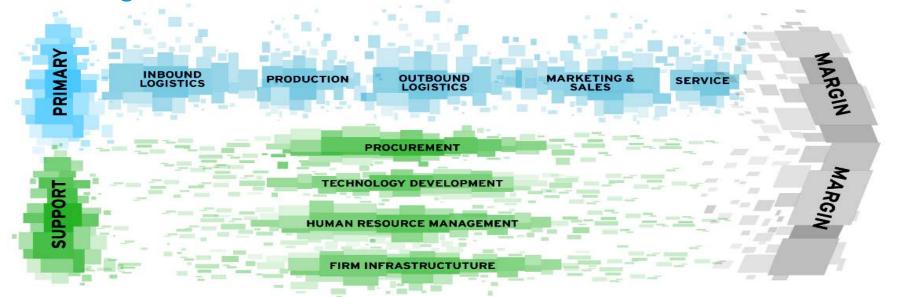


The Process – Technology Interface

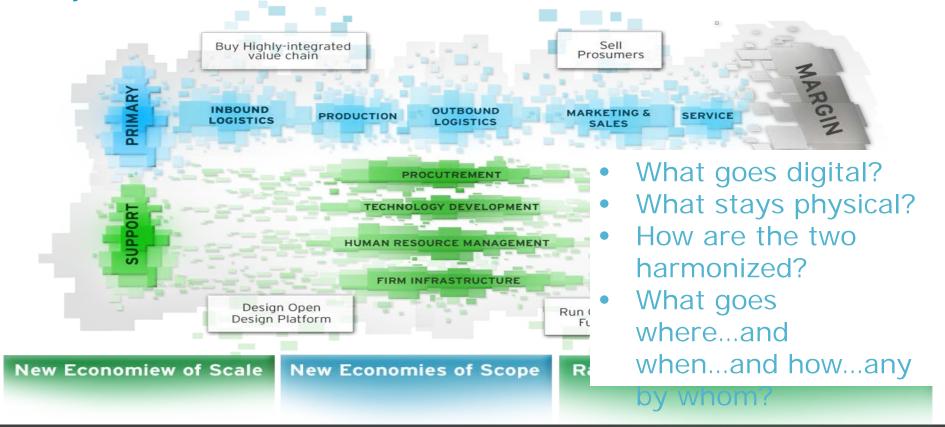




The Digitization of Processes

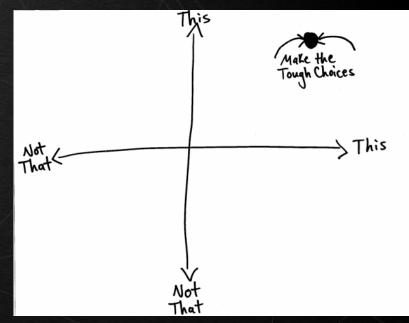


Physical and Virtual Value Chains Harmonized



Key Learning: Pick your (very specific) spots to start

Find a process, customer experience, or device to digitize



Building "the enterprise platform" is like "building the mobile enterprise"

BMW Connected Drive



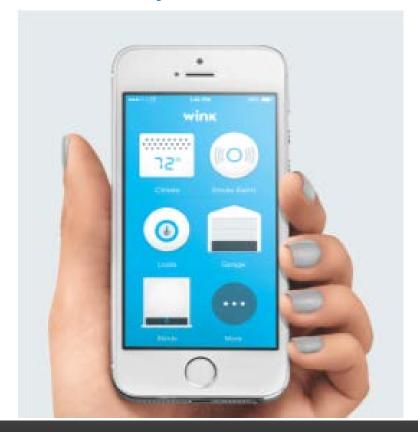


Chase Branch of the Future





Home Depot Code-ifies your home with Wink



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THE SMAC STACK IS CREATING A BIG DATA

QUAGMIRE



2.5 quintillion bytes of data generated each day



90% of the worlds' data was generated in the last two years



Where some only see static...

...others see business meaning (and value)





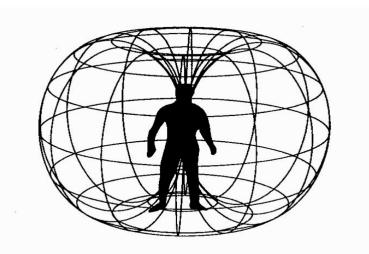
















Our virtual life actions create a CODE HALO



Amazon, Netflix, Apple, or Google see our code when they "look" at us

Married, Father of four

Midwestern roots, Scottish mother

Former athlete

Closet geek

Enjoys obscure documentaries



"Extreme" traveler

Political centrist

Likes Grunge

Business books

Health....

Political Junkie

Finances....

Drives jalopies



Think musical tastes matter?

Musical preferences and political preferences

Likes Garth Brooks



Votes Republican



Think musical tastes matter?

Musical preferences and political preferences

Likes Madonna

Votes Democrat





Other close music correlations

Likes Justin Timberlake



Likes Pixar films



Other close music correlations

Likes Jimi Hendrix



Likes Science Fiction



Other close music correlations

Likes Seattle Grunge

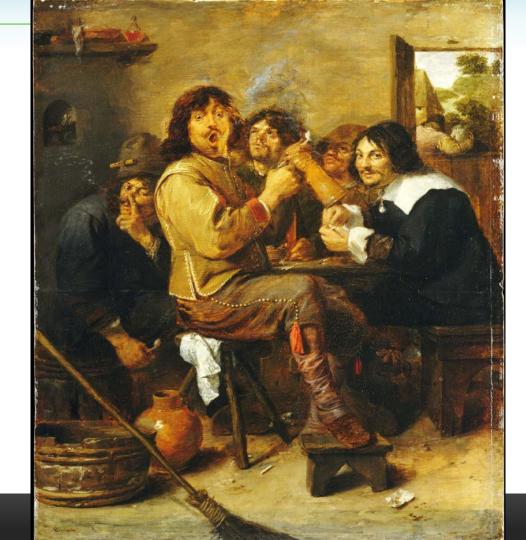


Likes Academy Award winners





Recreational Drug Use





Romance







Relationship Status





Family Background





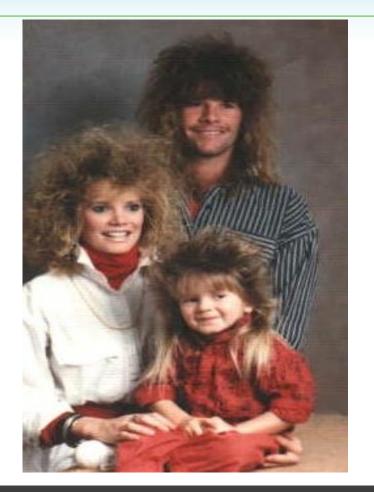


Family Background





Family Background





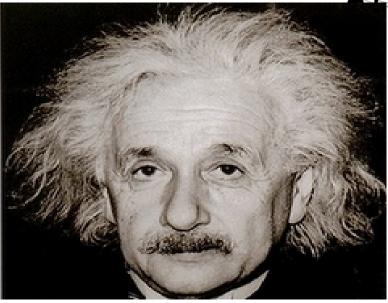


Your age



What Musical tastes also say about you...





Your intelligence





Or knowing his exact needs, experiences and preference?



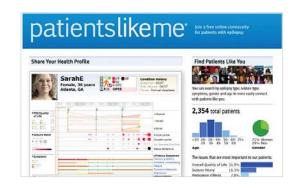
Quantified Us: A World of Data Donors



"Just like we sign up as organ donors, we should become data donors."

- Daniel Kraft, MD







MyHealthPal allows users to donate their anonymized data in return for a share of the revenues.

The Emergence of Digital Healthcare

Through these technologies, a comprehensive patient view can be compiled. Powered by over 400

technologies and 9,000 apps











Withings Aura™







Technologies to Track Behavior







curious











<u>Neu</u>Mitra







Technologies to Track Social Environment



patientslikeme[®]











... and a patient "Code Halo"

Combine all of those technologies and a highly-pixelated view of the patient starts to emerge

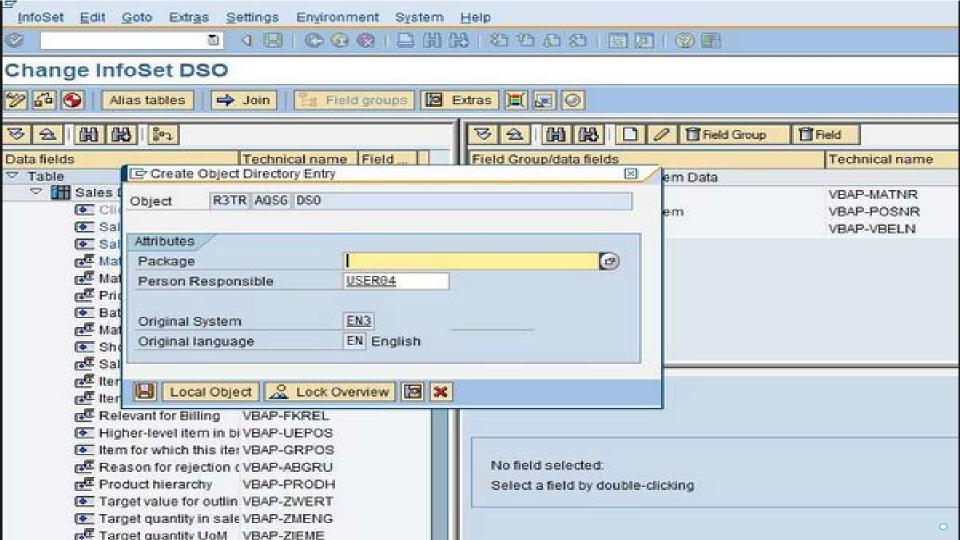
Average odds of developing glaucoma	Little chance of developing alopecia areata, an autoimmune hair loss disorder
1-percent chance of developing age-related macular degeneration	Average odds of getting migraine headaches
Average odds of having hay fever	Strong chance of developing sever nearsightedness
Average sensitivity to sweaty odors	Has wet earwax
	Average odds of developing thyroid cancer
Face does not flush when she drinks alcohol	Greater tendency to overeat
Low odds for high blood pressure	Average odds of experiencing sudden cardiac arrest
Average odds of developing esophageal cancer	28 percent chance of developing coronary heart disease
Slow caffeine metabolizer, so drinking coffee increases her heart attack	5 percent chance of developing lung cancer
risk	19 percent chance of developing type 2 diabetes
8 percent chance of developing rheumatoid arthritis	Average odds of developing bladder cancer
Average odds of developing pancreatic cancer	2 percent chance of developing chronic kidney disease
Likely lectore intelerent	Baby she is pregnant with likely to weigh 2 ounces less than average at birth
Likely lactose intolerant	Less than 1 percent chance of developing stomach cancer
Average odds of developing endometriosis	Average odds of developing uterine fibroids
Average odds of developing ovarian cancer	Average chance of living to 100
Low risk for developing gestational diabetes during pregnancy	1 percent chance of developing type 1 diabetes
Tendency towards higher BMI	5 percent chance of getting dry, itchy skin from psoriasis
Above-average offs of developing Low Gehrig's disease	5 percent chance of developing restless leg syndrome, a puzzling disorder causing legs to move when relaxed
Less than 2 percent chance of developing Parkinson's disease	Lower than averaged offs of developing chronic hepatitis B, if infected with HBV
Increase sensitivity to pain	5 percent change of developing multiple sclerosis

-Cognizant

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Six new competencies in platform competition

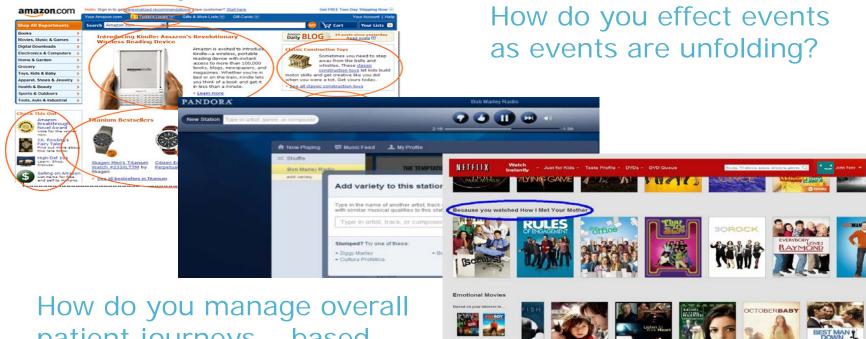
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From transactions...





...to Journeys



Secause you watched Movie 43

How do you manage overal patient journeys – based on the culmination of all transactions?



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Steps to Build – and maintain – Trust



Don't Snoop



Default to opt-in and opt-out



Give individuals a delete button



Some correlations are creepy
© 2015 Cognizant, confidential and not for distribution



The law will never catch up



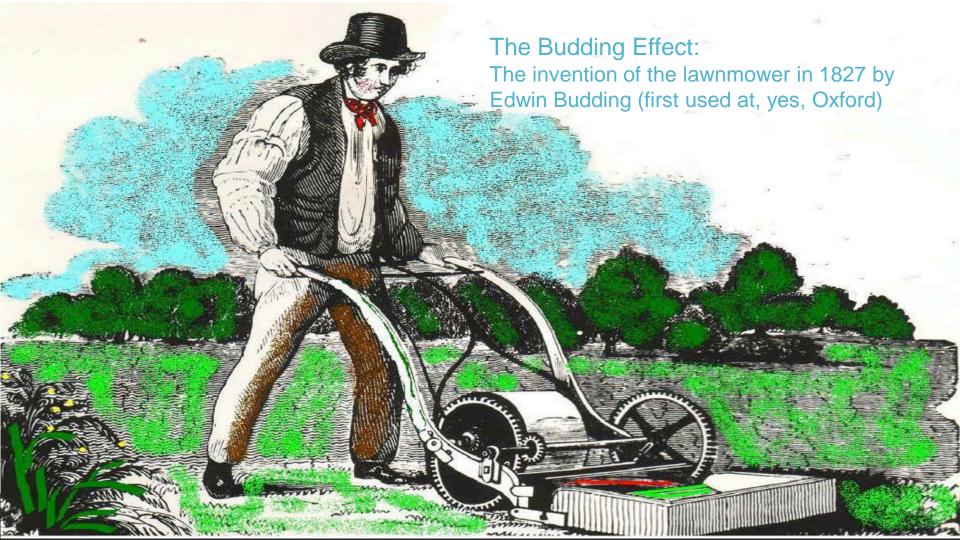
Appoint a Chief Digital Risk Officer

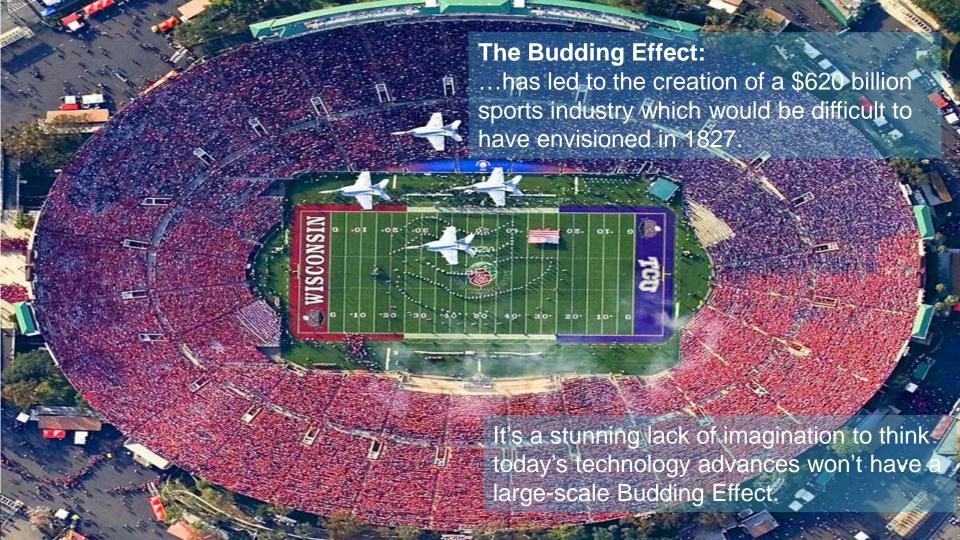
The Net New

The Budding Effect
And
Building the Industries of Tomorrow

The Budding Effect

Creating New Ways...and Net New





The Budding Effect





Electricity gave us:

- Telecommunications
- The Movie Industry
- Radio
- Television
- The Transistor

The Automobile gave us:

- Suburbia
- McDonald's
- WalMart
- Holiday Inn
- Formula One / NASCAR

The Budding Effect:

creating – simultaneously – the obvious and the unimaginable.

If history holds, the digital revolution will drive the largest Budding effect yet...creating large industries by 2045 that we don't foresee in 2015

But that's a really big topic...

...and we're out of time

Summary

- 1. We are about to enter the great digital build-out
 - More "traditional" industries move to platforms
- 2. Their starting point is different
 - Managing hybrid and model transitions
- 3. The Six Key Competencies
 - Best practices are emerging
- 4. The Budding Effect
 - In ten years we'll look back at this conference and laugh

Thank you

