



CIO

PERSPECTIVES

YOUR IT LEADERSHIP COMMUNITY

PRODUCED BY



Tracking the Tech Megatrends: What CIOs Need to Know

Christina “CK” Kerley

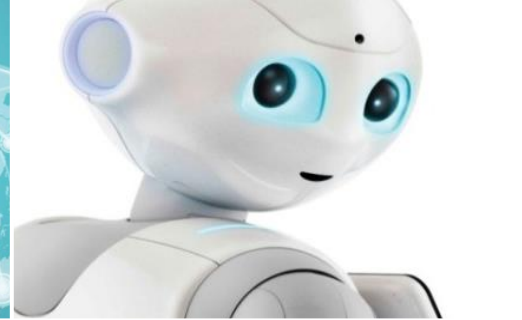
Innovation Speaker & Futurist

All Things CK



PRODUCED BY





THE TECH MEGATRENDS



Change Has Never Before Happened So Fast ...



AND IT WILL NEVER BE THIS SLOW AGAIN



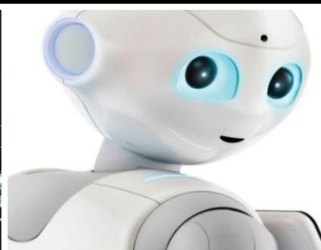
MOBILE



WEARABLES



IoT: THE INTERNET OF THINGS



ROBOTICS



BIG DATA



AUGMENTED REALITY



VIRTUAL REALITY



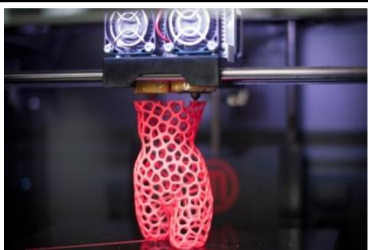
MIXED REALITY



CLOUD COMPUTING



ARTIFICIAL INTELLIGENCE



3D PRINTING



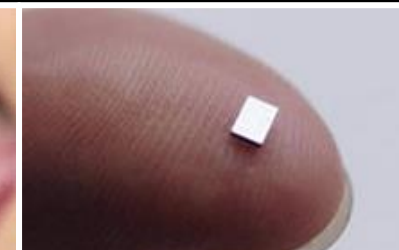
BLOCKCHAIN



HEALTH TECH



INGESTIBLES



IMPLANTABLES



MOBILE



WEARABLES



ROBOTICS



BIG DATA



THE STORY OF OUR TIME: **PERMANENT TECH REVOLUTION**

GREATER
Number Of Tech

Quicker
Cycles Of Change

BIGGER
Economic Impact

FASTER
Rates Of Adoption

Interdependent
Innovations

4

Mega-Trends

#1

THE EXPECTATION ECONOMY



#2

DIGITAL'S NEW FRONTIER



#3

MAN-MACHINE CIVILIZATION



#4

THE INTELLIGENCE ERA



MOBILE Has Changed ... EVERYTHING!

How We Live!



How We Buy!

**How We
Work!**

**How We
Communicate!**



**Remember The Most Recent Time You
Had To Go WITHOUT Your Phone ...
For 1 ENTIRE Day?**



QUESTION:

**Of All The Changes That Mobile
Has Created, What Has Mobile
Changed The MOST of All?**





It's Not How We've Changed To Mobile

Mobile's REAL REVOLUTION IS US!



It's How Mobile Has Changed Us

More Demanding!

Less Patient!

Lower Thresholds!

New Behaviors!

1

**Mega-
Trend**



THE EXPECTATION! ECONOMY

Which Brands We Buy !

Why Business Models Succeed!

How Campaigns Get Buzz!

1

#InstaGrat: The Only Speed Is Real-Time Fast



2

Freedom & Control: No Limits ... No Restrictions!



3

Friction-Free Experiences Simplicity Over Complexity



Question:

**Digital Has Already Powered
Computers, The Web, And Mobile.
What Is Digital's NEXT Frontier?**



2

**Mega-
Trend**



The Physical World Is Digital's Newest Frontier

**The Web Breaks Out Of The Box—Outside The Screen—
And Into The World All Around Us**

From Smartphones ... To Smart EVERYTHING

The Last 10 Years: Mobile



Connecting PEOPLE

The Next 10 Years: IoT



Connecting THINGS

**We Are Taking The Smarts Out Of Smartphones
... And Placing Them Into Everything Else**



IoT: Digitizing The Physical World

A Physical Ecosystem Of Connected Objects, Products, And Places

SMART PARKING



CONNECTING THE MAGIC KINGDOM



SMART PILL BOTTLES



SMART AGRICULTURE



In Which Place Will Sensors Benefit Us The MOST?



BioSensors: Tiny Internal Sensors Caring For Us—Preventing Disease & Illness

The Web And Mobile Were Only The Warm-Up ...

NUMBER OF MOBILE
DEVICES PER PERSON

3

MOBILE DEVICES WORLDWIDE

9 BILLION

MOBILE ECONOMIC IMPACT

\$2 TRILLION

NUMBER OF POTENTIAL
IoT PRODUCTS PER PERSON

200!

NEW PRODUCTS WORLDWIDE

3.3 TRILLION!

IoT ECONOMIC IMPACT

\$19-\$32 TRILLION!



For The Oncoming Tsunami Of IoT's Economic Impact!

**In The Future:
Any Object That Is Not Responsive, Not Interactive, Or Not Smart:**



**Will Be Viewed As ...
Broken!**

Question:

**Of All The Concerns On Emerging Tech,
What Is The #1 FEAR?**

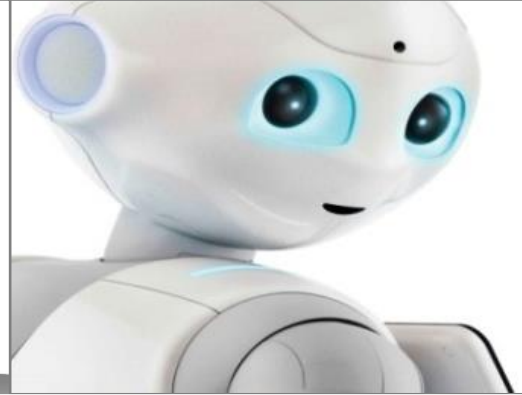
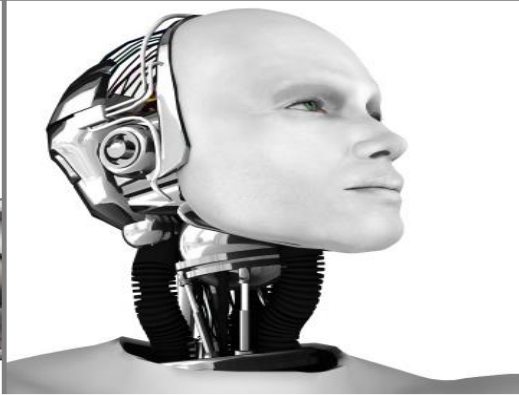
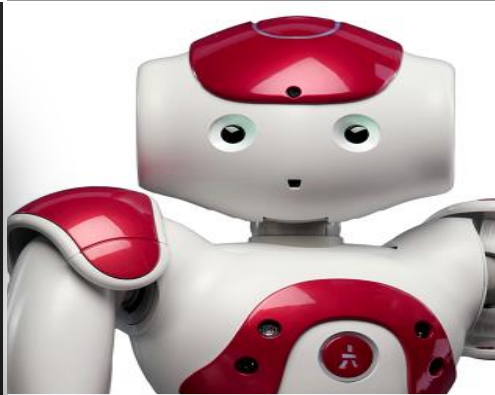




ROBOTS
Replace Us!
(And Take Our Jobs)

3

**Mega-
Trend**



Man-And-Machine CIVILIZATION

The Rise Of The CoBots!

**Robots Will
Connect Us**



Robots Will Care For Us

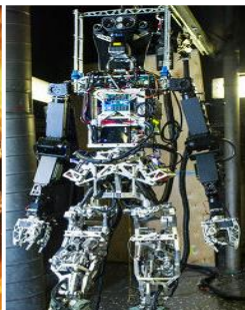


ROBOTS WILL KEEP US HEALTHY



BactoDrones

ROBOTS WILL PROTECT US



SWAT Bot Increases Safety for EMRs

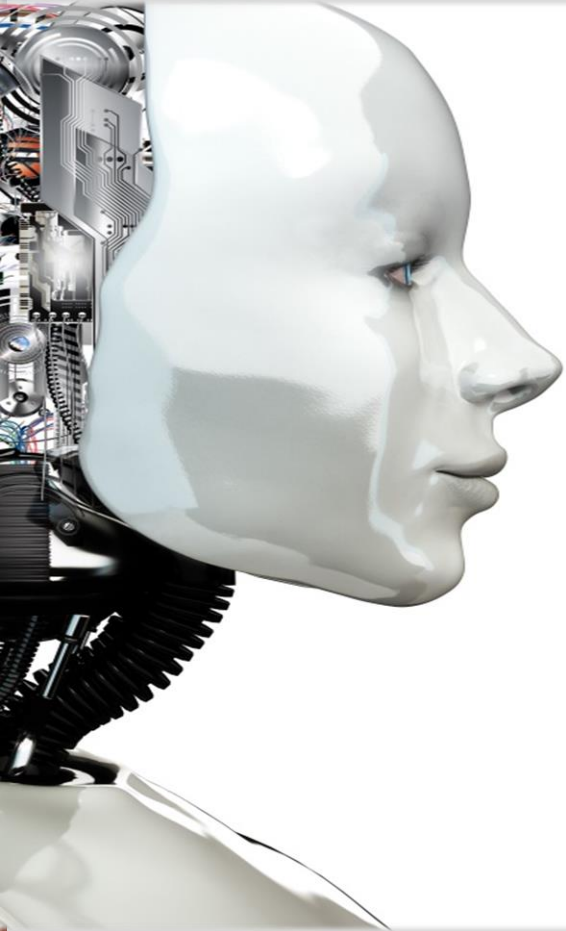


Drones Support EMR Efforts

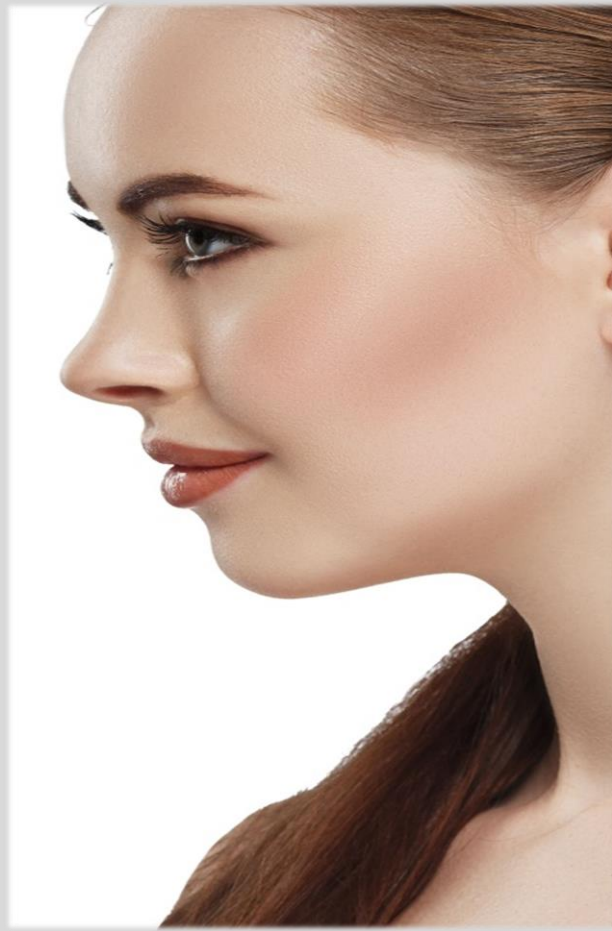


AND, YES, COBOTS WILL WORK WITH US





**By Working
TOGETHER,
Robots And
Humans
Will
COMPLEMENT
Each Other's
Skills**



CoBots: Collaborative Robots

1

Will Robots Take Over My Job?



Yes ... And No!

For The Most Part, Robots Will Be CoWorkers (CoBots) And Take Over Tasks That Humans Can't Do, Or Don't Do, As Well

2

Will Robots Make Some Jobs Obsolete?



Yes!

As With All Tech Revolutions, Many Jobs Will Be Automated—But Faster. Massive Reskilling And Continuous Learning Is MANDATORY

3

Will Robots Create New Opportunities?



Yes! Yes! Yes!

Web Designers, Data Scientists, & App Developers Didn't Exist 30 Years Ago. Start Preparing—And Make This A HUGE \$\$\$ Opportunity

As History Has Proven—And Robots Will Prove Yet Again:

**The Real Story of Automation
Is Not What It Replaces ...**

**But
What It
Enables**



What PERCENTAGE Of Your Time At Work

**Is Spent On Mundane Tasks & Busywork That Doesn't
Benefit The Bottom Line Or Leverage Your EXPERTISE?**

But

What If



**54% Of Managers' Time Is Spent On
Administration, Coordination And Control**

(Source: Accenture Survey of 1,770 Frontline, Mid-Level, And Executive-Level Managers From 14 Countries)

4

**Mega-
Trend**



**From The
Information
Age To ...**

**THE
INTELLIGENCE ERA**



Big Data:

Capturing The Invisible

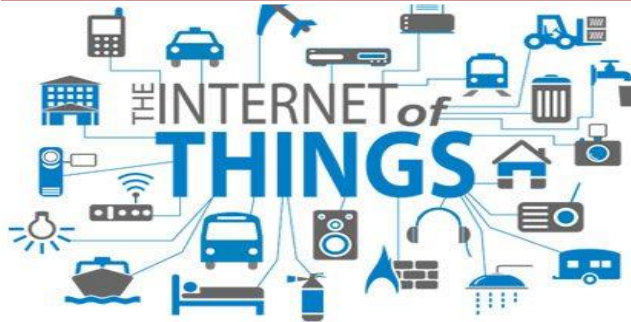
Turning All The Aspects Of Our Lives Into Data To:

1. Better Understand Our World
2. Solve Problems That Have Forever Eluded Us
3. Create New Forms Of Value
4. Wield New Competitive Advantages

Data We Produce!



Data From Sensor-Laden Objects!



Data From Connected Health!



From Humanity With More Machines ... To Machines That Do More For Humanity

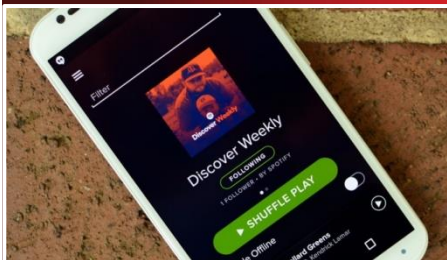
Apple Siri

Google Now

Windows Cortana



AMBIENT INTELLIGENCE



INTELLIGENT APPS

INTELLIGENT ASSISTANTS



INTELLIGENT FEATURES

x.ai is a personal assistant
who schedules meetings for you.

Add email to meeting list



**"In The Future, Every Decision That Mankind Makes Is
Going To Be Informed By A Cognitive System Like Watson:**

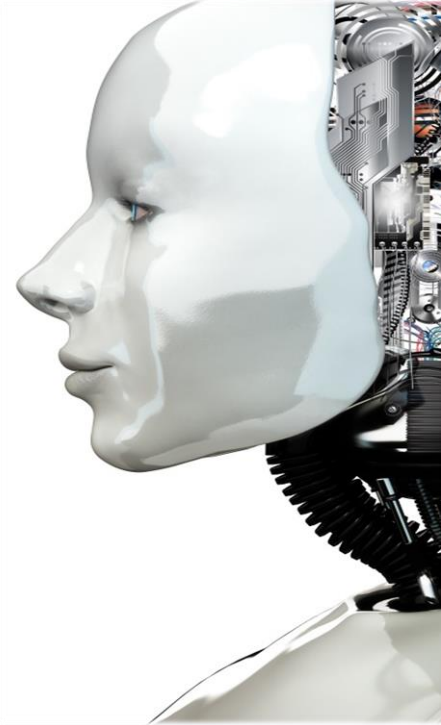
**And Our Lives Will
Be Better For It."**

Ginni Rometty, President & CEO, IBM

AI: Our Greatest Collaborator



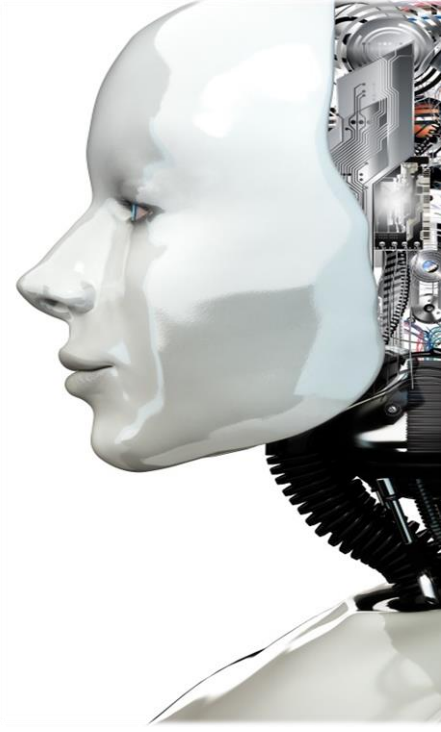
**What Is The
Most Compelling
Reason That
21st Century
Businesses Will
Have To Adopt
Big Data & AI?**





**21st Century Businesses
Live And Die By
The Decisions
They Make ... And How
Quickly They Act.**

**Big Data & AI
Drive Better Decisions.**



The Issues, Opportunities, And Stakes Are MUCH Higher—And Highly Complex

Predicting Risk In Financial Markets

Anticipating Customer Behavior

Competing Globally

Thwarting Terrorism

Managing Traffic

Optimizing Supply Chains

Climate Change

Personalizing Medicine

Treating Chronic Diseases

Ending Extreme Poverty

Preventing Pandemics

!

KEY TAKEWAYS

#1

THE EXPECTATION ECONOMY



#2

DIGITAL'S NEW FRONTIER



#3

MAN-MACHINE CIVILIZATION



#4

THE INTELLIGENCE ERA



1

Audit

**Where Are You And Your Division Presently At With These Tech Trends?
Pinpoint The Strengths And Gaps. Update Progress & Priorities Every 90 Days – 180 Days!**

2

Upskilling & Reskilling

**Don't Fall Into The "Skills Gap Trap": The Future Is Coming Way Too Fast!
Preparing For The Future Is As Much Of A Priority As Are The Programs Of The Present.**

3

#OwnIt!

**IT Is No Longer A "Business Enabler."
You're Now A Strategic Driver Of The Enterprise's Success ... #OwnIt!**



TYVM!

(Thank You Very Much!)

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