

# Auditing: Considering the Future



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# Objectives

- ▶ Changing Technology, Changing Ways
- ▶ Changing Issues, Changing Audits
- ▶ Changing Threats, Changing Security
- ▶ Audit Impact on Policy, Laws, & Regulations
- ▶ Fun!



# Futurist, and Beyond

- ▶ Study the future and make predictions about it based on current trends.
- ▶ To get to the future, we need to understand the past and present.



# Government Then

*"The science of government it is my duty to study, more than all other sciences; the arts of legislation and administration and negotiation ought to take the place of, indeed exclude, in a manner, all other arts. I must study politics and war, that our sons may have liberty to study mathematics and philosophy.*

*Our sons ought to study mathematics and philosophy, geography, natural history and naval architecture, navigation, commerce and agriculture in order to give their children a right to study painting, poetry, music, architecture, statuary, tapestry and porcelain."*

— John Adams, Letters Addressed to His Wife



# Government Now

*No government ever voluntarily reduces itself in size.*

*Government programs, once launched, never disappear.*

*Actually, a government bureau is the nearest thing to eternal life we'll ever see on this earth!* --Ronald Reagan

## So, We Audit...

# GOVERNMENT'S APPROACH TO CHANGE

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*Imagine if you will how we in government feel*  
*about changing the way we do things*



# Government Soon

- ▶ Ready for Fundamental Changes?
  - Different directions
  - Different technology
- ▶ World Around Us



# Change: Two Approaches

- ▶ Government:
  - Implement first, fix later
  - Study first, implement later

Either Way, We Audit...



# But Once They Change...

- ▶ Persuasion and Purchases
- ▶ Costs and Consequences
- ▶ Policies and Regulations
- ▶ Problems

So, We Audit...



# The Responsibility

*Even the least among us may affect change; certainly the law and policy: Legislators, Agency Heads, and Policy Makers—but also, researchers, accountants, purchasing clerks, public relations, division directors, etc. by doing the right thing can affect change...*

*If you think you're too small to make a change, then you've never been in bed with mosquitoes.*



# Now and the Future

- ▶ How does all of this relate to today's topic?
- ▶ What if some of the headlines are true?
- ▶ Is your agency ready for more change than just BYOD?
- ▶ Security Breaches?
- ▶ Are you ready for change?



# Changing Technology, Changing Ways

- ▶ Green Bar and Pencils
- ▶ Spreadsheets
- ▶ Databases and Big Data
- ▶ “The Cloud”
- ▶ Tele-work, Remote Access, VPN
- ▶ Artificial Intelligence



# Remember When

## ▶ 1980

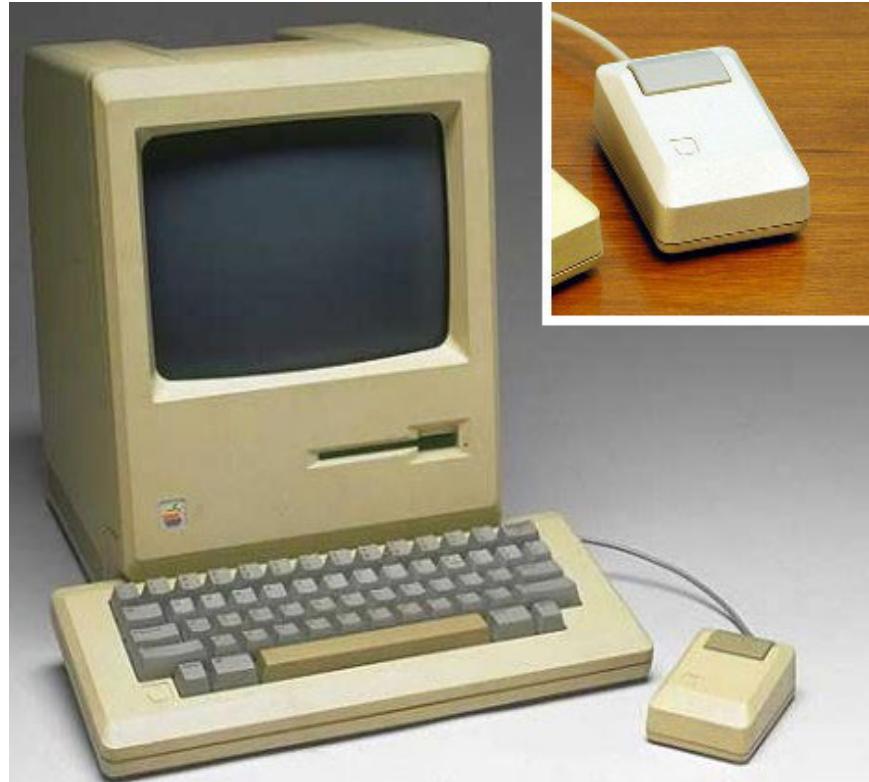
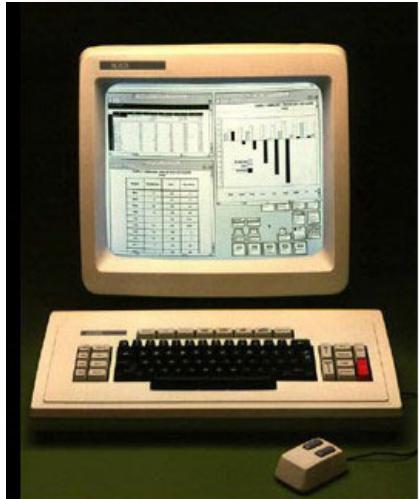
- No cell phones (1983)
- No cd's (1982)
- No DVDs (1995)
- No Mouse ("Lisa Apple Mouse" 1983)
- No Windows (1983)
- No Walkman (1983)

## ▶ 1990

- No e-mail (1993)
- No MP3 players (1997)
- No World Wide Web (1991-93-ish)
- No streaming video (MS '95, '99; )



# Who Would Have Believed



\$16,595 (1981);

\$9,995 (1983)



# Who Would Have Believed





# Who Would Have Believed





# Today's Headlines

- ▶ Cybersecurity
- ▶ Data Breaches
- ▶ Social Changes
- ▶ Employment



# Security

- ▶ Simpler in the past
- ▶ Less interest in our work
- ▶ Value of data and analysis
- ▶ The Challenge



# Security

- ▶ Laptops
- ▶ Data Transfers
- ▶ E-Mail
- ▶ New Software
- ▶ Networks
- ▶ Hackers



# Government in the Future?

Auditee or Auditor or Audit Managers and Supervisors?





# The Future is Now

- ▶ Experts predict robots will take over 30% of our jobs by 2025 — and white-collar jobs aren't immune

*Read more:* <http://www.businessinsider.com/experts-predict-that-one-third-of-jobs-will-be-replaced-by-robots-2015-5>

- ▶ Toward a squishier robot: Engineers design synthetic gel that changes shape and moves via its own internal energy

*Read more at:* <http://phys.org/news/2015-05-squishier-robot-synthetic-gel-internal.html>



# More Headlines

- ▶ Changing Technology
  - AI
  - Med Tech
  - Travel, Surveillance



# The Future

- ▶ What will it look like?
- ▶ If it can do this, what can it do in 5 years?
- ▶ Or, will it look like this?



# The Future

- ▶ If this came to ask questions, how would you react?
- ▶ If you had to work with this during an audit, could you do it?
- ▶ Or this?
  
- ▶ What policies might need to be in place?
- ▶ What changes to the Workplace?



# Are we OBSOLETE?

- ▶ Luckily, most people understand the differences between people—our minds, or souls—and the cold logic of the machines we build.



# Changing Issues Changes Audits

- ▶ Trust
- ▶ Opinions
- ▶ Beliefs
- ▶ Politics



# Technology Improves Our Lives?

**"Going back a million years, humans had fire. One guy used it to stay warm, and the other said 'That's cheating.'**

**One of those is our ancestors, and one isn't."**

**—Dave Asprey  
Founder of The Bulletproof Executive**



# The Future and Change

- ▶ Rethinking how we Audit...
- Technology
- New customs and customers
- Day-to-day operations
- Managing and Leading



# Moving Forward

*“Work is not your enemy but your friend. How you work, not what you do, determines the course of your life. You may work grudgingly or you may work gratefully; you may work as a human or you may work as a robot. There is no work so rude that you may not exalt in it; no work so demeaning that you cannot breathe soul into it; no work so dull that you may not enliven it.”*

— Og Mandino, The Greatest Success in the World

Unless someone  
like you cares a  
whole awful lot,  
nothing is going  
to get better. It's  
not.

--*Dr. Seuss*

## Thank You!

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