

Lessons Learned...

- You must be sure that you have the right people with enough capacity and skill set to launch into MNS.
- As hard as it is to turn away from any option for business, you
 must understand that there is such thing as a too small
 customer. The small guys under 10 end points take up a
 disproportionate amount of time.
- Don't try to have generalist sell MNS. We have found that the copier guys are not effective at selling MNS.



Lessons Learned... (cont)

- Make sure your agreements are clear and complete. Do everything to avoid confusion on what a billable call should be. Said another way make the agreements all inclusive but if you are not able to make that happen make sure that the folk understand where covered services and billable services meet.
- Pay attention to the accounting side, in particular the Chart of Accounts.
 Putting information into the right buckets from the start is critical.
- Your prospect is buying a Trusted Adviser...the best vCIO wins
- The QBR (some call it a Technology Roadmap) is a great way to build relationship, and drive incremental business.



Those are REALLY important...

... but in our experience the #1 factor in your success in navigating this new space is...

LEADERSHIP

I think that means YOU





This session will be about...

- Understanding the "Technology Shift"
- Describing what that means to businesses
- The importance of Technology Planning
- A look into the future



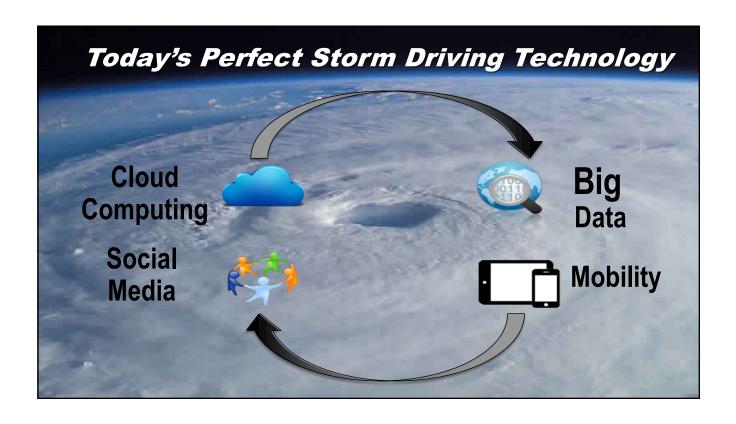


Industry Trends and Business Goals 2 questions to consider ...

- How is technology is impacting your industry?
- How is technology impacting the achievement of your overall business goals?

Technology has become embedded into Business
Strategy





Four Primary Areas Driving the Technology Shift Social Media - "How we Interact" Mobility - "Anywhere, anytime, any device" Cloud & Managed Services - "Scalable", "Utility", "Proactive" Big Data - "Trends", "Decision Support", "Machine Intelligence"

Social Media

- Nearly 2 billion are on Facebook, representing almost 30% of the world population, and over 60% of the "internet connected" world population
- 87% of LinkedIn users say they trust its information in decision making
- Twitter has become more prominent than any other form of media in real-time reporting on events



Mobility/BYOD

- There are over 3 billion smartphones in use today, up from 1.5 billion 3 years ago
- They represent 83% of Internet traffic
- BYOD strategies are the most radical change to the economics and culture of client computing in business in decades
- Anytime, anywhere, nearly unlimited



Cloud Computing

- ➤ The Cloud market in the US is at \$167 billion in 2020, up from \$67 billion in 2015 "with spending for cloud-based IT services growing at more than four times the rate of the IT market as whole."
- ➤ The cloud computing model will dominate growth for the next 20 years.
- Small and medium-sized business will lead the public cloud computing charge.
 - √ 87% of SMBs have implemented cloud services.



Big Data

- More data crosses the Internet every second than was stored in the entire Internet 20 years ago
- Walmart collects enough customer data every hour to fill 20 million file cabinets worth of text
- 90 percent of all the data in the world has been generated over the last two years.
- Every 2 days we create as much information as we did up to 2003



A New Infrastructure

With powerful technology in our pockets (Mobile Devices), platforms that connect all of us (Social Media), unlimited storage (Cloud), and increasing ability to analyze information (Big Data), we have built a platform to do just about anything.





It's Only Beginning ... Al (Artificial Intelligence) Cognitive Machine Learning IoT (Internet of Things) VR & AR Robotics



Digital Companies

Three time horizons:

- 1. 2000-2010: Adoption- eCommerce era
- 2. 2010-2015 (and beyond): Build-up of "delivery system" that includes Social, Mobile, Cloud, Big Data
- 3. 2016 forward: Transformation, as products and services become digital and companies have to invent their own future



"With the <u>overwhelming</u>, <u>unprecedented</u> growth in **social** media, mobility, and cloud computing......if all companies don't see the impact on every facet of their **business** and their **lives**, they simply are not paying attention."

Marc Andreesen Andreesen, Horowitz







All Things D

"I am seeing a series of disruptions at a faster pace than I have seen in my career... the "Internet of Things" will bring 50 billion connected devices by 2020."



John Chambers Cisco Systems



Jeff Immelt GE

"The Industrial Internet leverages the power of the cloud to connect machines with sensors and sophisticated software to other machines...they will deliver the right information to the right people, all in real time...this opportunity will bring \$15 trillion to the global GDP by 2030...the equivalent of adding another US economy to the world."



Disruption

- New ways of doing things that overturn the traditional business methods. Business Dictionary.com
- Advances will transform life, business, and the global economy. McKinsey & Company
- 12 leading technologies will have a potential economic impact of up to \$33 trillion by 2025 MCKinsey Global Institute



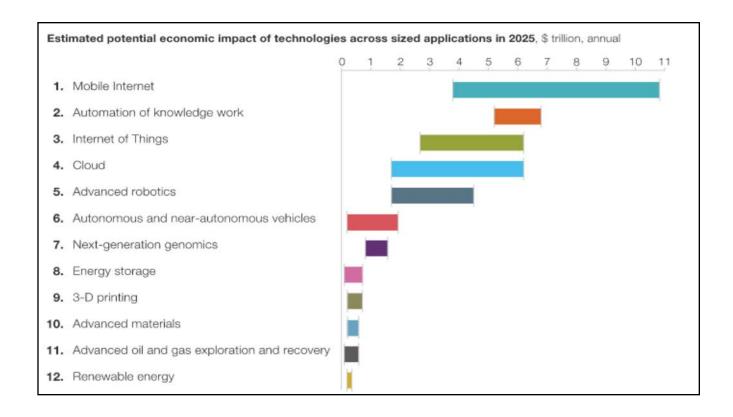


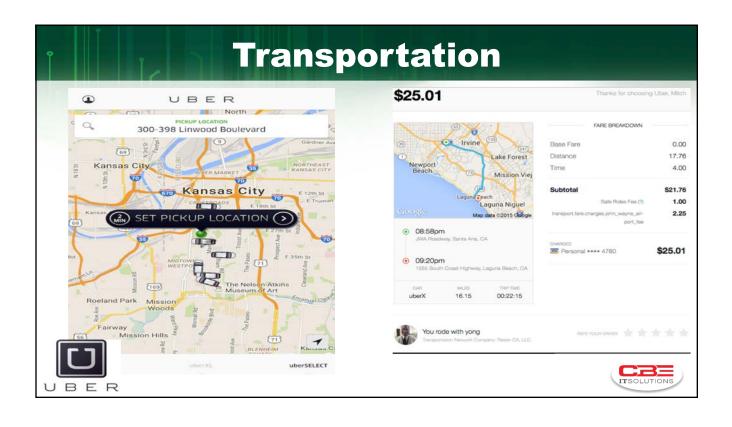


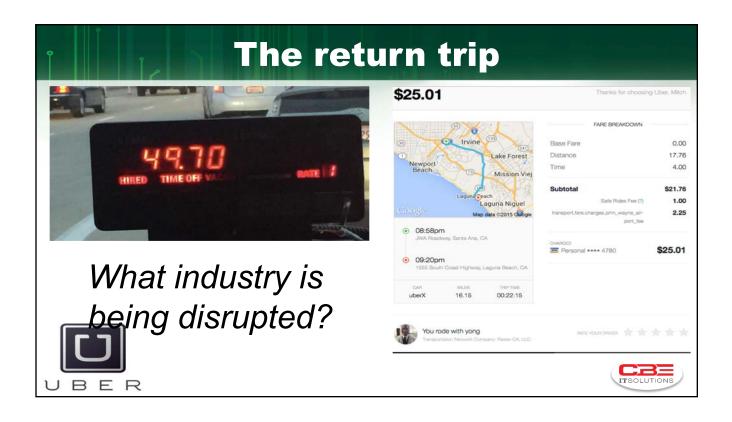


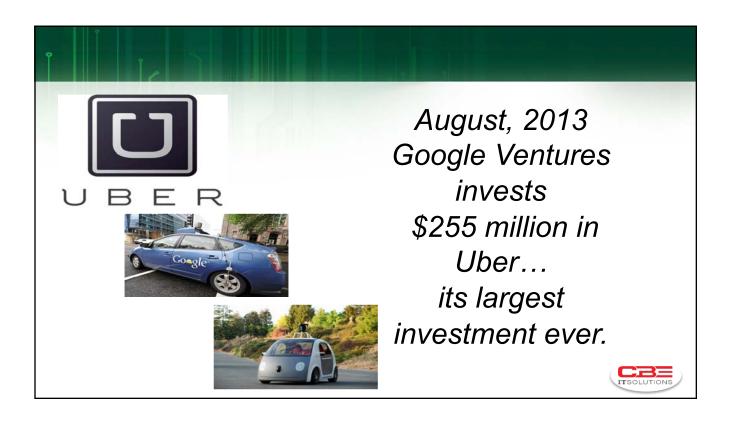
12 L	eading Disrup	tive Technologies
京	Mobile Internet	Increasingly inexpensive and capable mobile computing devices and Internet connectivity
	Automation of knowledge work	Intelligent software systems that can perform knowledge work tasks involving unstructured commands and subtle judgments
	The Internet of Things	Networks of low-cost sensors and actuators for data collection, monitoring, decision making, and process optimization
	Cloud technology	Use of computer hardware and software resources delivered over a network or the Internet, often as a service
	Advanced robotics	Increasingly capable robots with enhanced senses, dexterity, and intelligence used to automate tasks or augment humans
((1))	Autonomous and near-autonomous vehicles	Vehicles that can navigate and operate with reduced or no human intervention

12 Leading Disruptive Technologies Next-generation genomics Fast, low-cost gene sequencing, advanced big data analytics, and synthetic biology ("writing" DNA) Devices or systems that store energy Energy storage for later use, including batteries 3D printing Additive manufacturing techniques to create objects by printing layers of material based on digital models Advanced materials Materials designed to have superior characteristics (e.g., strength, weight, conductivity) or functionality Advanced oil and gas Exploration and recovery techniques exploration and recovery that make extraction of unconventional oil and gas economical Renewable energy Generation of electricity from renewable sources with reduced harmful climate impact











Disruption

WHAT'S HAPPENED

WHAT'S NEXT ????

- Internet Based "Disintermediation".
 - Examples: Borders Books,
 Blockbuster, newspapers
- Solving Business Problems Using Technology

- Advertising Industry
 - Billions of dollars shifted from traditional media to social and apps
- Every Industry, Everywhere

Briefings

- Sharing Economy
 - Uber, airbnb



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Software Is Eating the World



"Andreessen Horowitz Executive Briefings have been and will always be my preferred source for innovative discussion"

Kevin Humphries
 SVP, Enterprise Infrastructure Services, FedEx

a16z Executive Briefing Center

Our Executive Briefing Center brings corporate executives and government leaders together with the most talented entrepreneurs and technology companies driving the next wave of innovation.

Your briefing

Here's how it works. You choose whether to spend a few hours or an entire day with us. We design a custom briefing based on your business and technology priorities. We'll start the briefing sharing our perspectives on innovation, and learning more about yours, followed by discussions tailored to topics that align to your business (e.g. big data, mobile, social, cloud, security). The goal is to arm you with vital insights on the areas that matter most to you, and to develop a strong relationship between our firms.

Why schedule a briefing?

- Get an insider's look at the technologies reshaping your industry
- Discover solutions that can benefit your business
- Uncover opportunities for partnerships, collaboration and corporate development
- Build relationships with key innovators and Andreessen Horowitz partners

Request a briefing

Technology has become embedded in Strategy

- Back in 2007, only 40% of CIOs were involved in strategic planning;
- Now they're regarded as some of the most integral members of the C-Suite.



Where does this shift leave most businesses?

- Spending 6% to 8% of their revenue on technology
 - Normally in the top 3 expense categories behind payroll and rent
- "Technology" is top-of-mind for senior leadership and has moved from "operational" to "strategic"
- Organizations don't want to fall behind, but can't afford to make a mistake
- More Technology Aware (and dependent) than ever, yet most don't have a formal "Road Map" in place and are looking for guidance



Advice...

Business leaders should

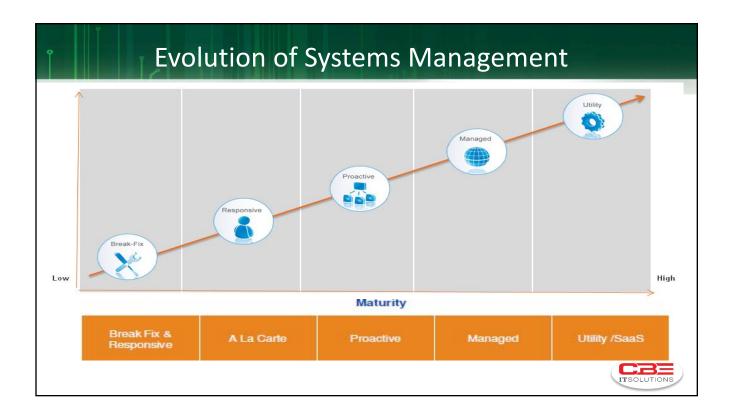
- 1. Keep their organizational strategies updated in the face of continually evolving technologies,
- 2. Ensure that their organizations continue to look ahead, and
- 3. Use technologies to improve internal performance

Disruptive technologies can change the game for businesses, creating entirely new products and services, as well as shifting pools of value between producers or from producers to consumers.

Organizations will often need to use business-model innovations to capture some of that value. Leaders need to plan for a range of scenarios, abandoning assumptions about where competition and risk could come from, and not be afraid to look beyond long-established models.

Organizations will also need to keep their employees' skills up-to-date and balance the potential benefits of emerging technologies with the risks they sometimes pose.

McKinsey&Company

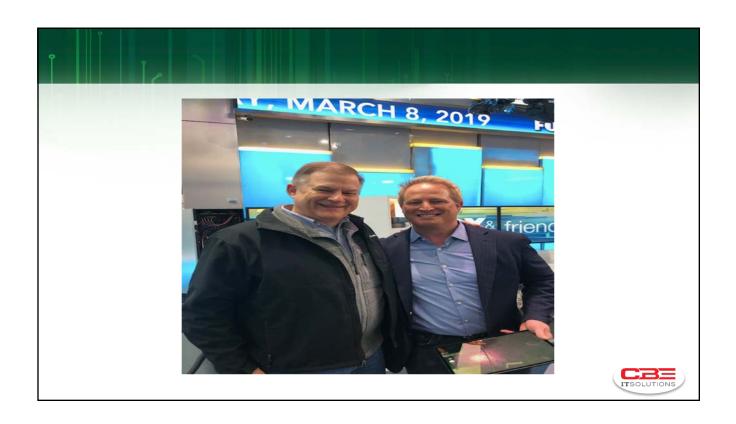


Takeaways

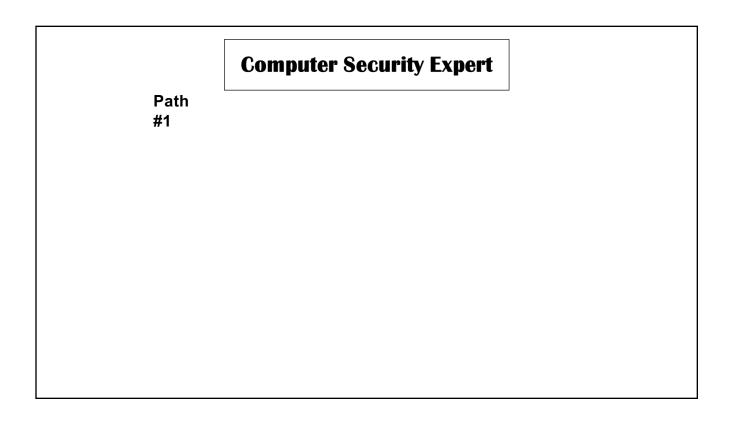
- Focus to the impact of Technology on your Industry
 - Start by reading the McKinsey & Company Report: "Disruptive Technologies: Advances that will transform life, business, and the global economy"
 - Study the "Impact of Technology on the _____ Industry"
- 2. Technology will become increasingly critical to your business. Make your systems "bullet-proof"
 - Use proactive measures, and system monitoring/management capabilities
- 3. Build a Technology Road-Map that aligns with your company strategy
 - Start by gaining consensus on your Attitude Toward Technology
 - Put the Technology RoadMap in writing, and keep it updated.

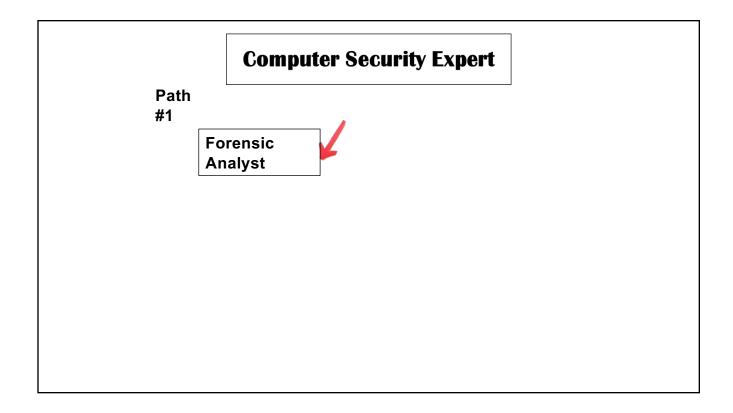


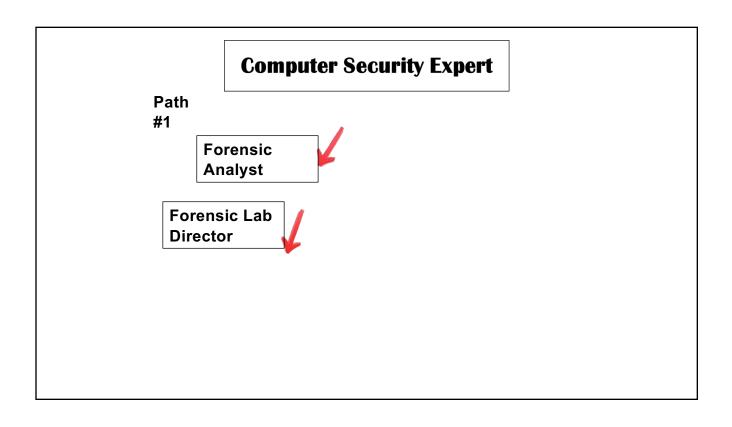


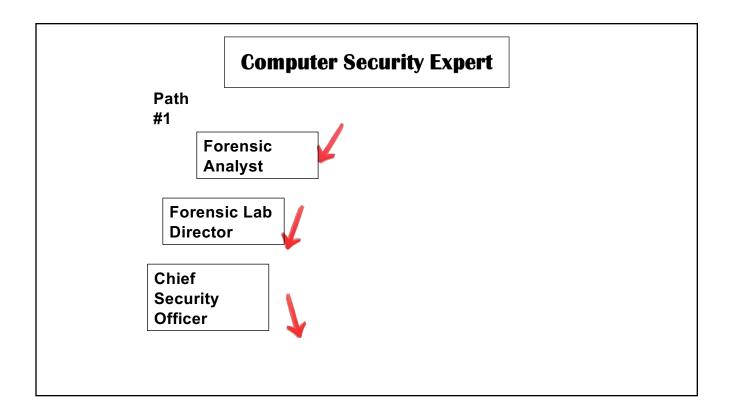


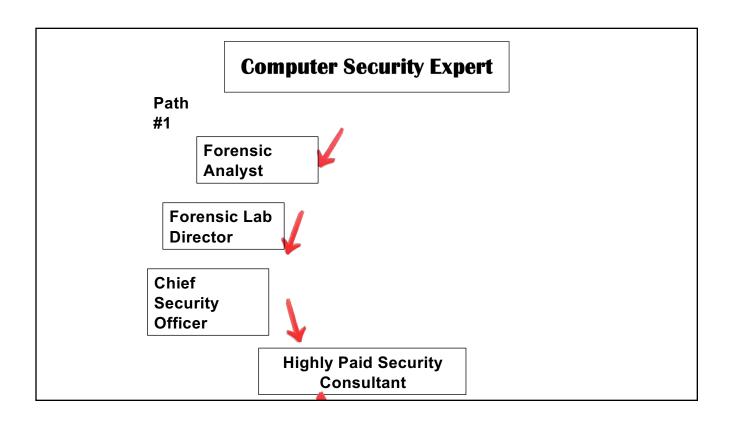
Computer Security Expert

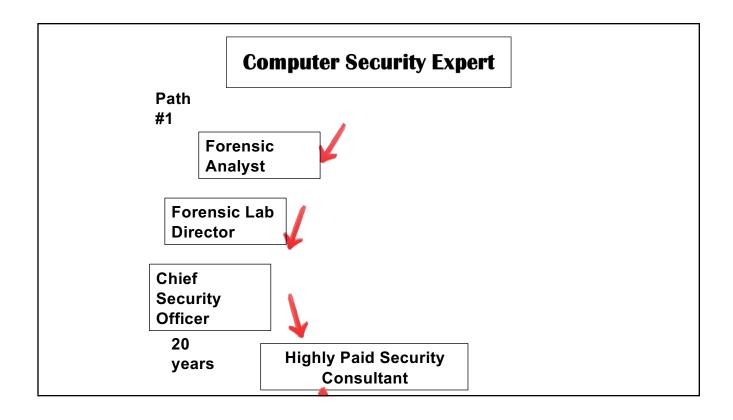


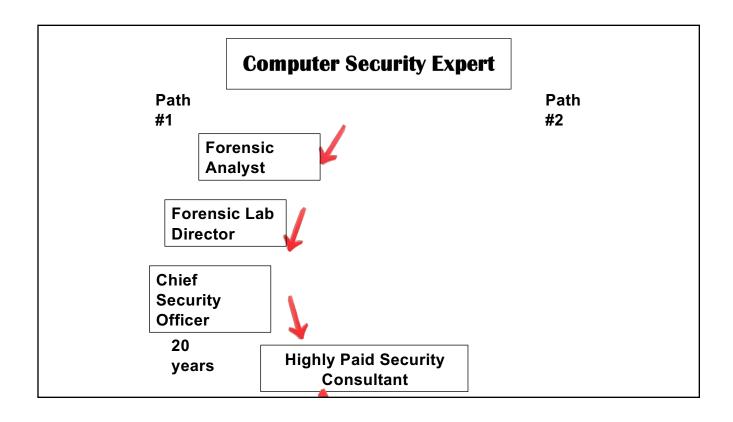


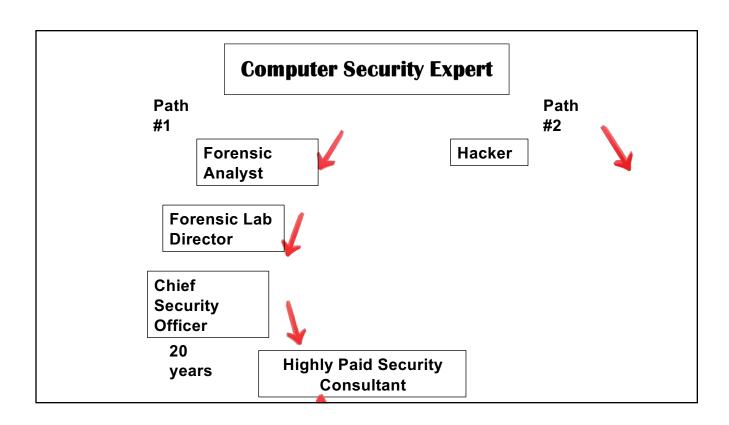


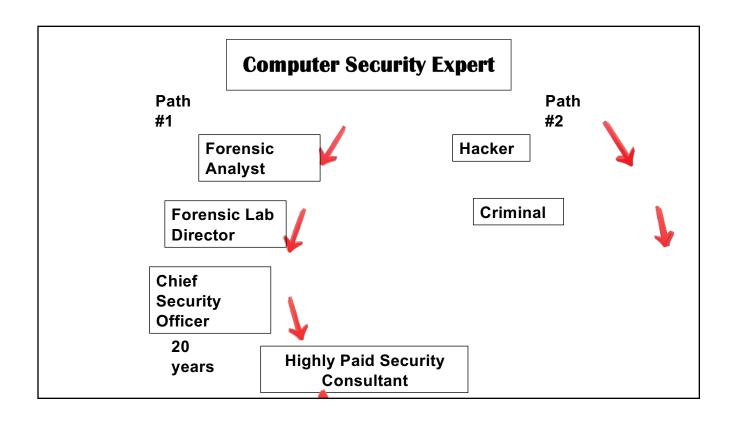


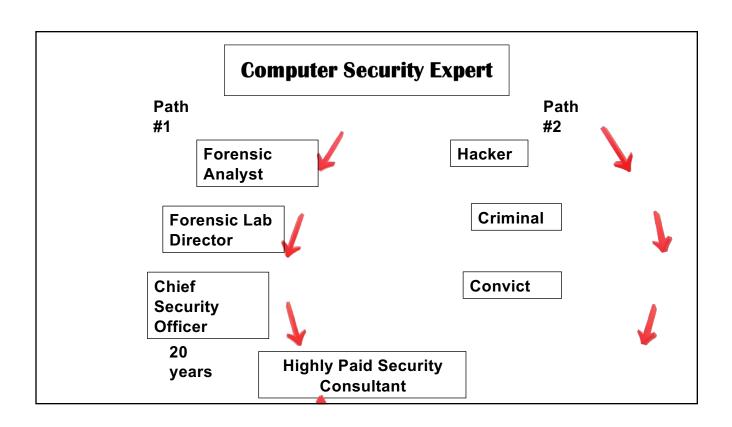


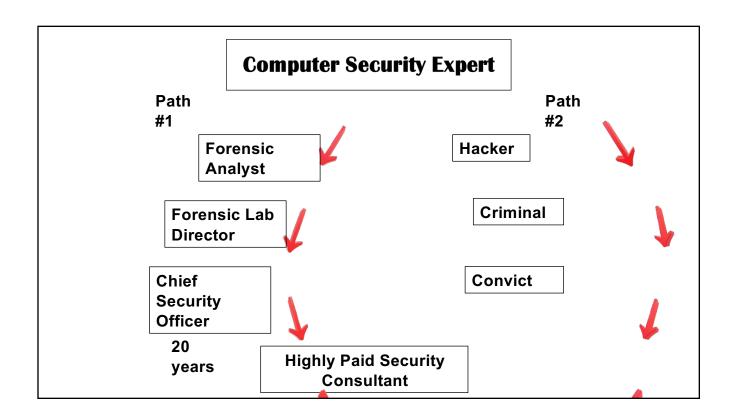


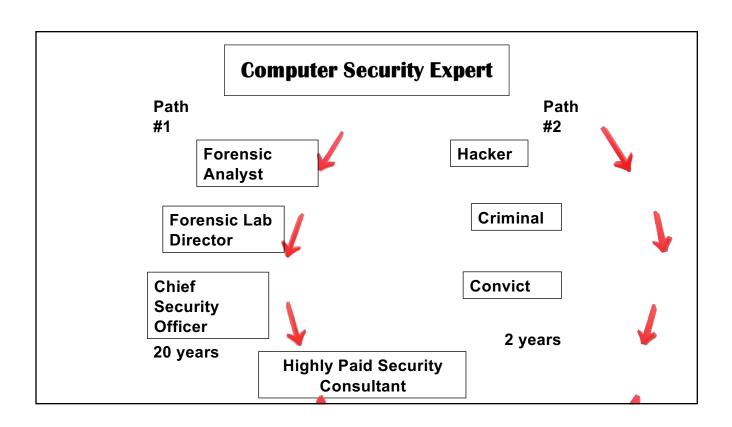


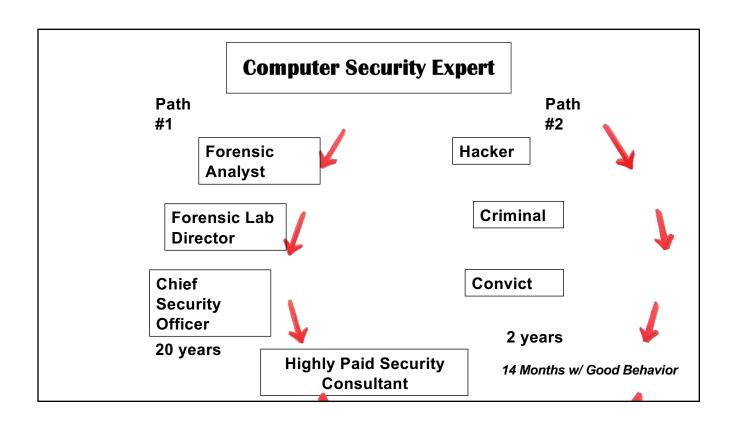


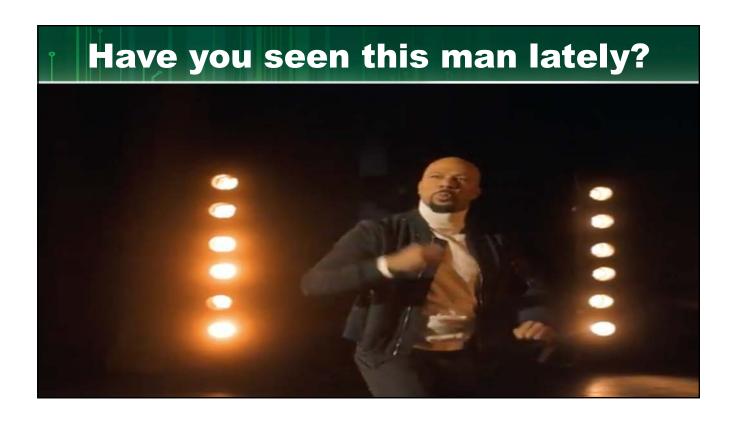












Sensors/IOT

- Cisco estimated 50 billion IOT devices by 2020...18 months later Intel said 200 billion
- Some speculate that anything that costs more than \$5, and can't be eaten, will have a sensor
- McKinsey forecasts that global IOT spending will be \$11 Trillion by 2025
- GE estimated the "Industrial Internet" will add between \$10 Trillion and \$15 Trillion to the economy within the next 15 years. The global economy is \$78 Trillion

Future of Work

- The consensus among a majority of studies about the Future of Work
 - 5-15% of jobs will be eliminated in 10-15 years
 - 75% of jobs will be altered or enhanced
 - 15% net new jobs will be created



4 Questions

- Will a robot take my job away?
- Will my company be "Ubered"?
- What will my industry look like in 10 years?
- Will my children be better off than I am?



Cognizants Center for the Future of Work

- 2,000 companies studied
- 6% of revenue currently driven by digital
- This will nearly double in next 3 years to 11.4%
- \$6.6 Trillion in economic impact
- This would be the 3rd largest economy in the world if it were a country



AI

- In 2017, 6 of the top 8 hedge funds earned around \$8 billion based largely-or exclusively- on Al algorithms.
- In medicine, machines have quickly surpassed the capabilities of human radiologists. Houston Methodist hospital uses AI here:
 - 30 times faster
 - 99% accurate
 - Virtually eliminating unnecessary biopsies, which account for 20% of the total

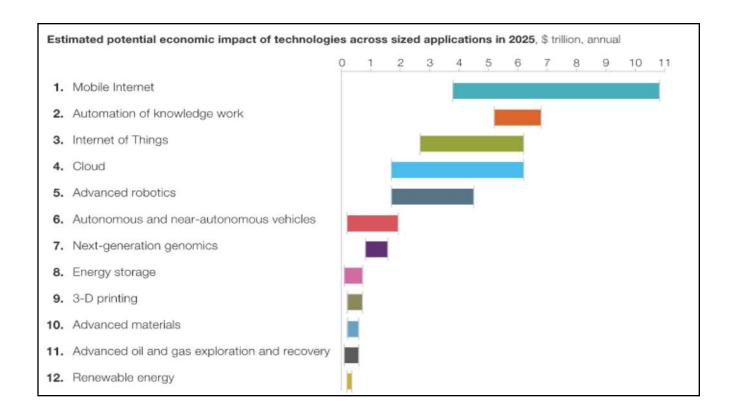


"What to do when machines do everything" by Frank, Roehrig, Pring

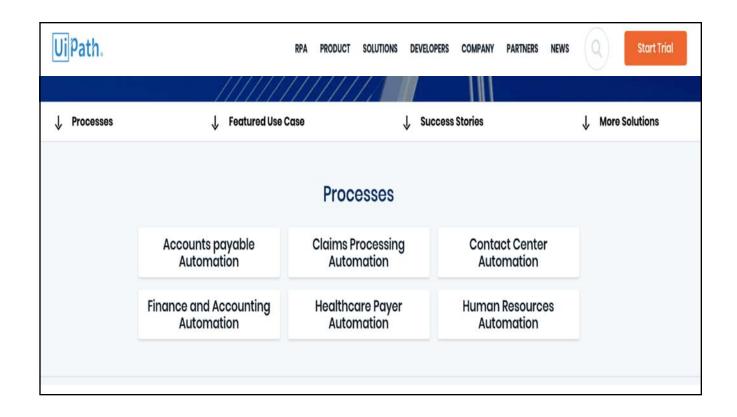
- In summary, AI will impact 100% of jobs
- 12% will go away
- 15% net new jobs created











As a Leader in Your Business...

- · It's still early, but you can't afford to be late
- Implement the RoadMap and listen...and communicate
- Develop a "conversational understanding"
 - Be fearless...like John
 - Build your information streams
 - Establish a Technology Committee that is responsible for reviewing new technologies for re-sale
- Hone your implementation capabilities with Security
- · Security, Cloud, and Data
 - Get active with Microsoft CSP program
- The technologies are hard today, but will get easier

