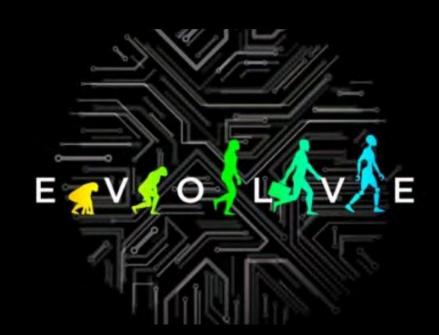
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Planning the cyber workforce of the future



Sarah Benczik, Senior Manager, Deloitte Consulting LLP **Josh Drumwright**, Senior Manager, Deloitte & Touche LLP

NICE Conference 2018 November 6, 2018

Planning the cyber workforce of the future

NICE Conference 2018



Agenda

Introductions

Market trends and the Future of Work

Future of Work and National Initiative for Cybersecurity Education (NICE) Framework

Concluding thoughts

Question and answer



Introductions Meet today's presenters



Sarah Benczik, Senior Manager Deloitte Consulting LLP **Human Capital**

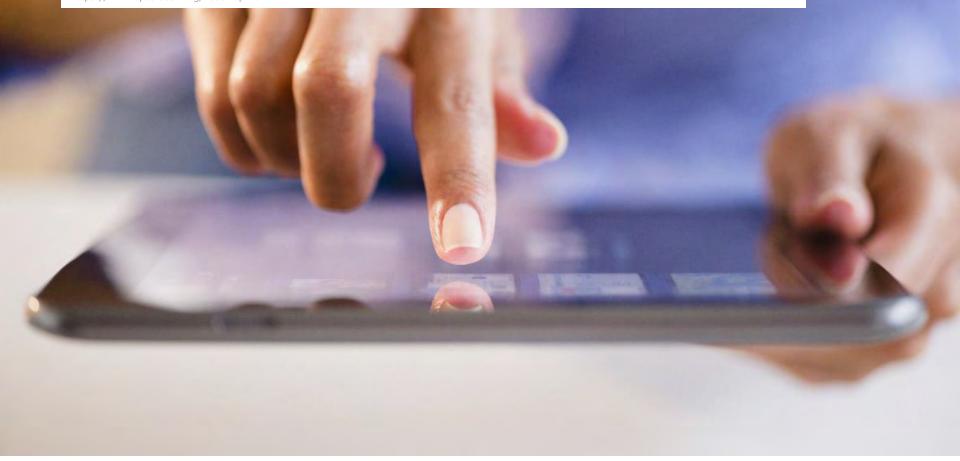


Josh Drumwright, Senior Manager Deloitte & Touche LLP Cyber Risk Services



In 2017 the US employed nearly 780,000 people in cybersecurity positions, with approximately 350,000 current cybersecurity openings

https://www.cyberseek.org/heatmap.html





The cyber workforce gap

Hiring managers face an unprecedented talent shortage



82 percent of cybersecurity professionals report a shortage of cybersecurity skills



71 percent believe this shortage does direct and measurable damage

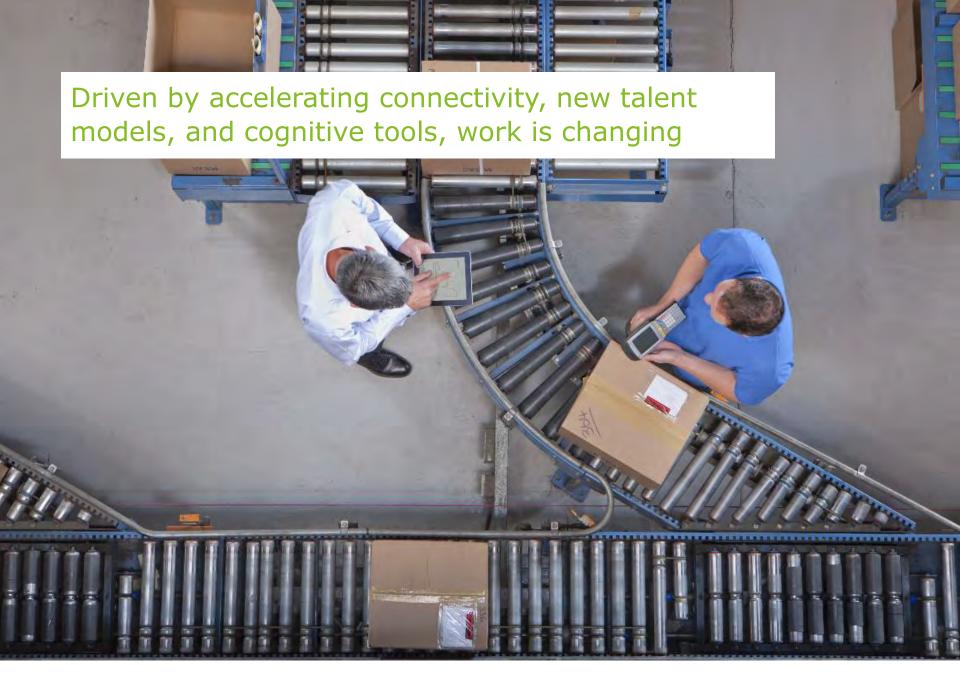


Nine out of 10 believe that technology could help compensate for skill shortages



Hiring managers must address talent scarcity with **unconventional strategies** that enhance existing workforce skillsets

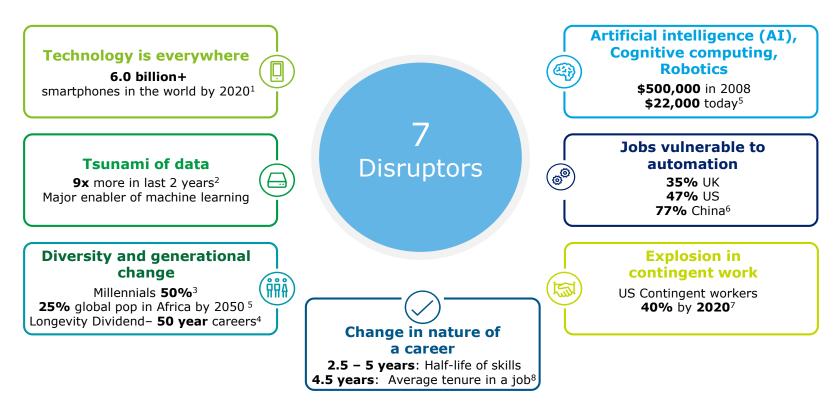
 $https://www2.deloitte.com/content/dam/Deloitte/de/Documents/human-capital/DR22_Augmented-security.pdf\\$



Disruption lies ahead

Unprecedented change and opportunity

Everyone is talking about the Future of Work and the need to address it is only accelerating...



 $^{1\} https://www.cnbc.com/2017/01/17/6-billion-smartphones-will-be-in-circulation-in-2020-ihs-report.html$

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² https://www-01.ibm.com/software/data/bigdata/what-is-big-data.html

³ Annual Global Millennial Study, https://www2.Deloitte.com/uk/en/pages/about-Deloitte-uk/articles/millennial-survey.html

⁴ https://www.newscientist.com/article/mg23130810-800-the-100year-life-how-should-we-fund-our-lengthening-lives/5 https://www2.deloitte.com/content/dam/Deloitte/il/Documents/human-

capital/Thriving_in_times_of_digita_disruption.pdf

⁶ http://www.oxfordmartin.ox.ac.uk/downloads/reports/Citi_GPS_Technology_Work_2.pdf 7 Intuit 2020 Report: Twenty Trends that will Shape the next Decade https://http-download.intuit.com/http.intuit/CMO/intuit/futureofsmallbusiness/intuit 2020 report.pdf

⁸ https://www2.deloitte.com/content/dam/Deloitte/global/Documents/HumanCapital/dttl-hc-english-opentalenteconomy.pdf

The changing world of work

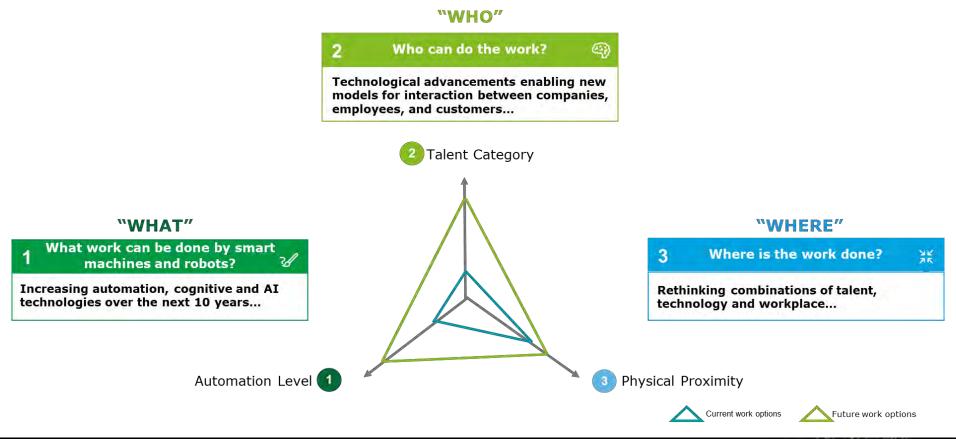
A new era of work requires new rules

OLD RULES	THE CHANGING WORLD OF WORK NEW RULES
People as workers	People and intelligent machines co-working
Homogenous workforce	Diverse workforces
Significant permanent workforce	Significant contingent workforce
Hierarchical, siloed	Networks of collaborative teams
Traditional office	Frictionless, smart workspaces
Slow to adapt	Agile
Innovation department	Innovation by everyone
Command and control leadership	Inclusive digital leadership
Knowledge	Emotional, creative and digital intelligence
Profit driven	Purpose driven
Technology drives people	People drive technology



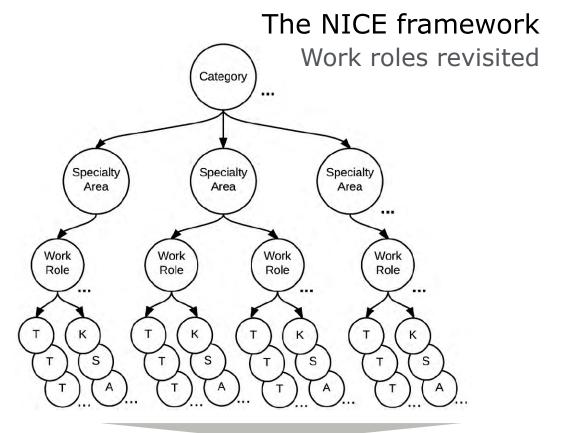
The future of work

Disrupting where, how, and by whom work is done









Example: NICE Work Role

Category	Specialty Area	Work Role	Work Role ID	Work Role Description
Protect and Defend (PR)	Cyber Defense Analysis (CDA)	Cyber Defense Analyst	PR-CDA- 001	Uses data collected from a variety of cyber defense tools (e.g., IDS alerts, firewalls, network traffic logs) to analyze events that occur within their environments for the purposes of mitigating threats.

https://www.nist.gov/itl/applied-cybersecurity/nice/resources/nice-cybersecurity-workforce-framework

NICE work roles and the Future of Work

NICE work roles can accelerate the identification of what, who, and where of industry-wide cyber work



UV



Understand the organization's cyber workforce by mapping to the NICE Framework

Evaluate the ability to change the who, what, and where for each work role

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Prioritize opportunities to begin transforming the cyber workforce

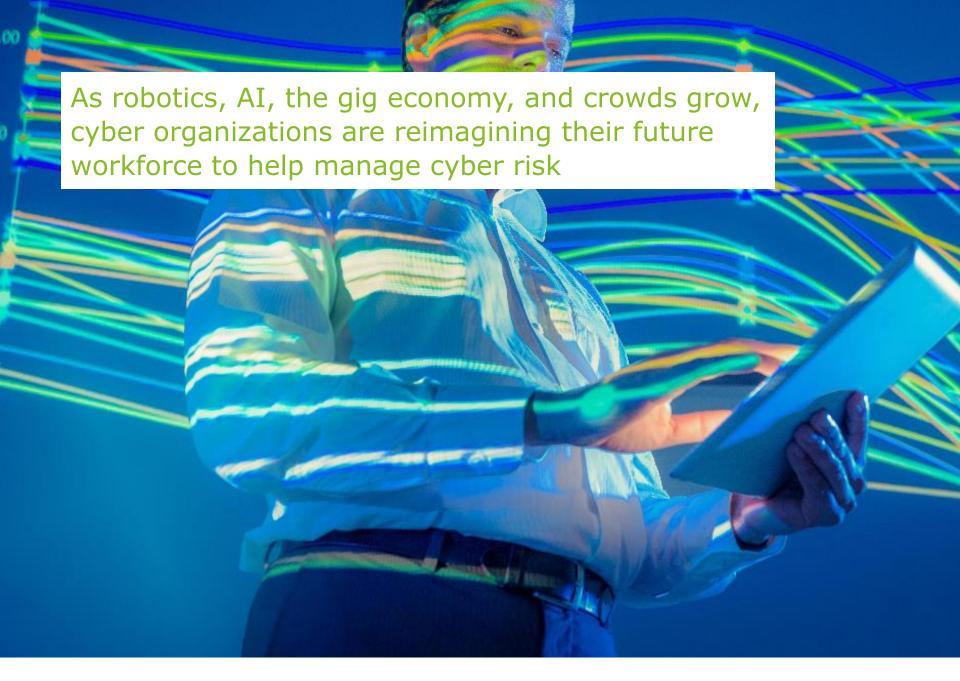
Address the organizational impact of redesigning work

How does the Future of Work change the requirements of your approach to leadership?

How does the Future of Work and workforce influence the design and behavior of your organization?

How does the future of work change how you approach talent, career, and learning models?

How do you develop a workforce experience to lead and manage an augmented workforce?





For cyber, the Future of Work is now

Many cyber organizations are redefining a new set of rules for the work, workforce, and workplace



Managed services



Automation



Cognitive intelligence



Crowds



Contractors



Freelancers



Digital innovation

If everything is on the table, how will your business respond?

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Question and answer



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