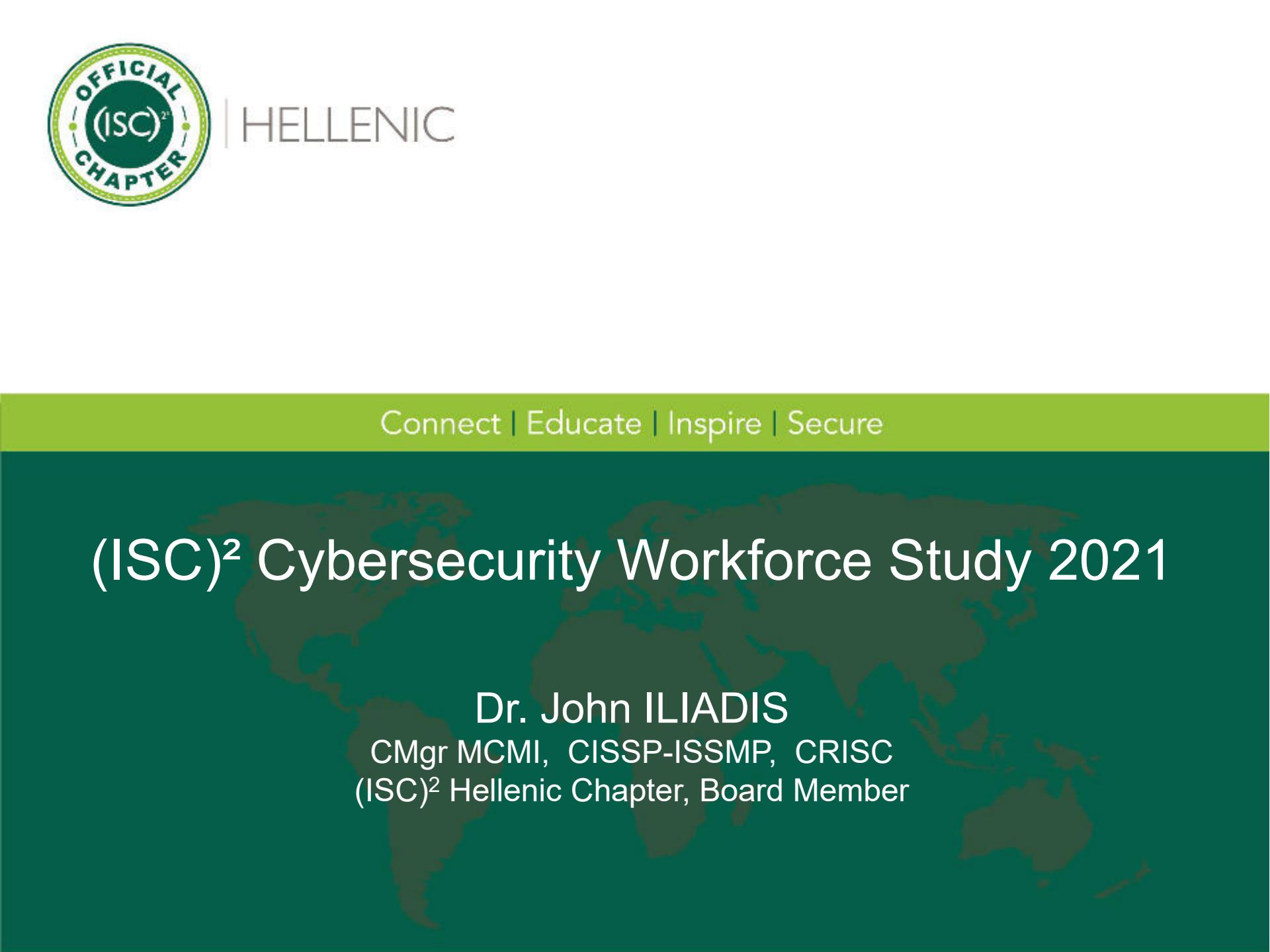




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Connect | Educate | Inspire | Secure

# (ISC)<sup>2</sup> Cybersecurity Workforce Study 2021

A faint, dark green world map is visible in the background of the slide, centered on the Americas and Europe.

Dr. John ILIADIS  
CMgr MCMI, CISSP-ISSMP, CRISC  
(ISC)<sup>2</sup> Hellenic Chapter, Board Member

- (ISC)<sup>2</sup> = International Information Systems Security Certification Consortium, established in 1989
- Non-profit consortium of information security industry leaders
- Supports security professionals throughout their careers
- Global Standard for information security: (ISC)<sup>2</sup> CBK®
- Over 160,000 certified professionals; over 170 countries
- 270 members in Greece, established in 2015



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A group of six diverse professionals are standing together in an office setting, smiling and holding papers and a laptop. The group consists of three men and three women of various ethnicities. They are dressed in business casual attire, including shirts, trousers, and a cardigan. The background shows a modern office environment with large windows and a brick wall.

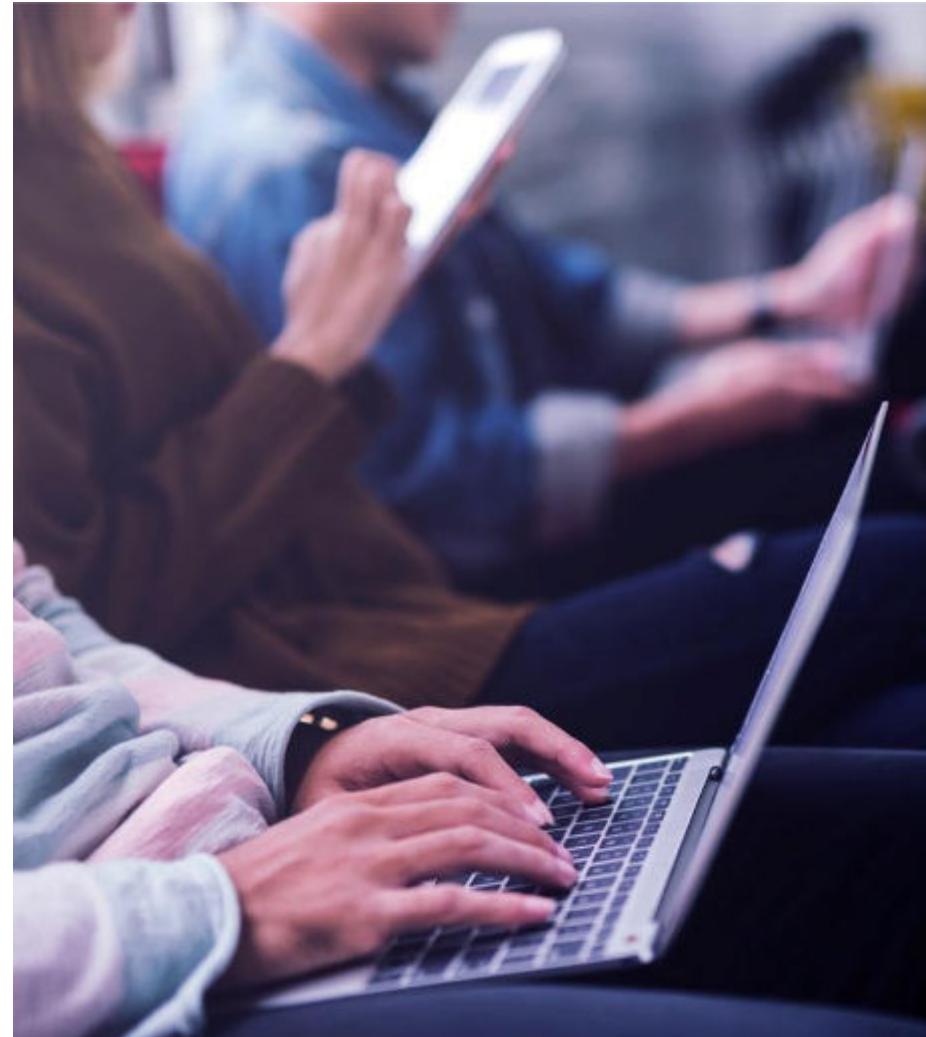
**EDUCATE & CERTIFY**  
the world's security  
professionals

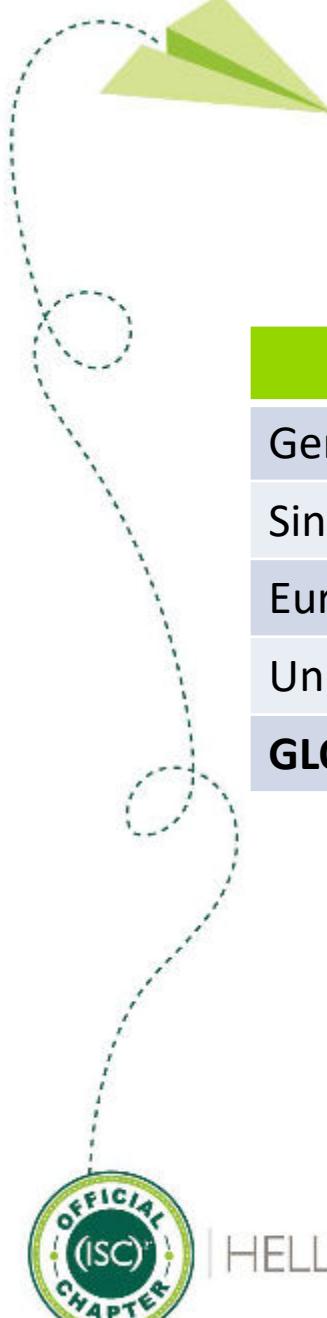
# Professional Development Institute

## Self-paced online learning

- Immersive, Express and Lab courses
- Interactive, engaging and timely
- Modular content combined with interactive activities
- Written content, videos, interactive labs, case studies, assessments and more

[www.isc2.org/development](http://www.isc2.org/development)





## High growth – Number of professionals

	2019	2020	2021	%2020-2021
Germany	133.000	175.159	464.782	↑ 165%
Singapore	43.000	57.765	92.744	↑ 61%
Europe	543.000	830.187	1.086.146	↑ 31%
United States	804.700	879.157	1.142.462	↑ 30%
<b>GLOBAL</b>	<b>2.802.700</b>	<b>3.484.971</b>	<b>4.192.255</b>	<b>↑ 20%</b>



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# 2.72 MILLION Workforce Gap

Source: (ISC)<sup>2</sup> Cybersecurity Workforce Study, 2021

# Gap in professionals 2019-2021





# The Study

...survey data from 4,753 cybersecurity professionals throughout

- North America,
- Europe,
- Latin America (LATAM) and
- Asia-Pacific (APAC)



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# Pathway to Cybersecurity

Gen Z / Millennials (<39)    Gen X (39-54)    Baby Boomers (55+)

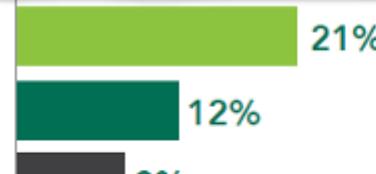
Started in IT then  
transitioned to cybersecurity



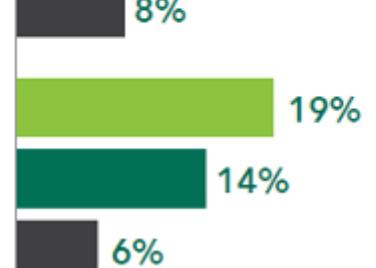
Started in another field then  
transitioned to cybersecurity



Pursued an education in cybersecurity or  
related field then got first job in cybersecurity

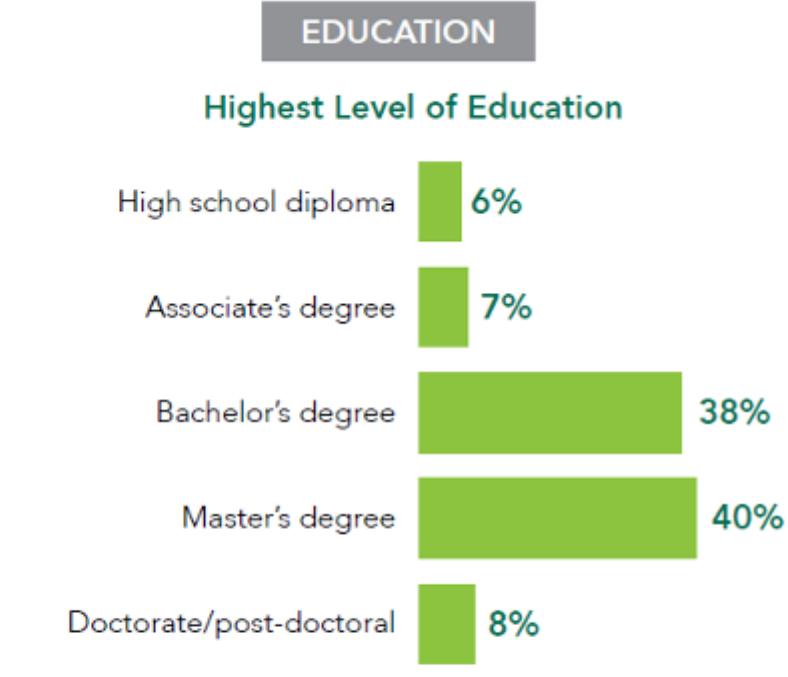
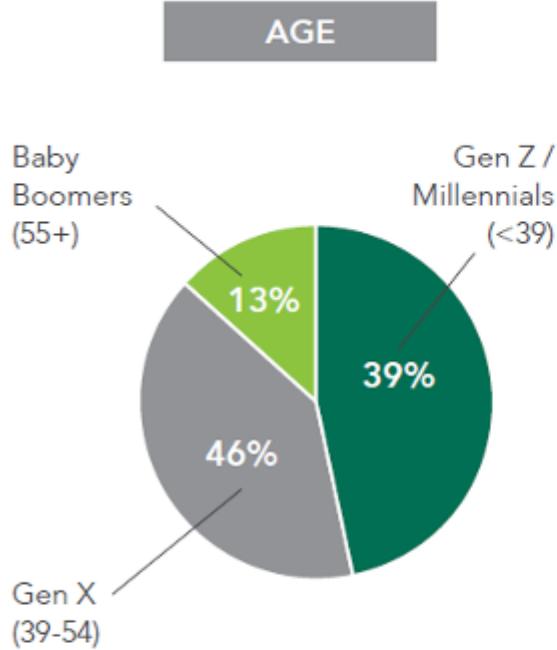


Explored cybersecurity concepts on my own  
and was recruited for a job in cybersecurity



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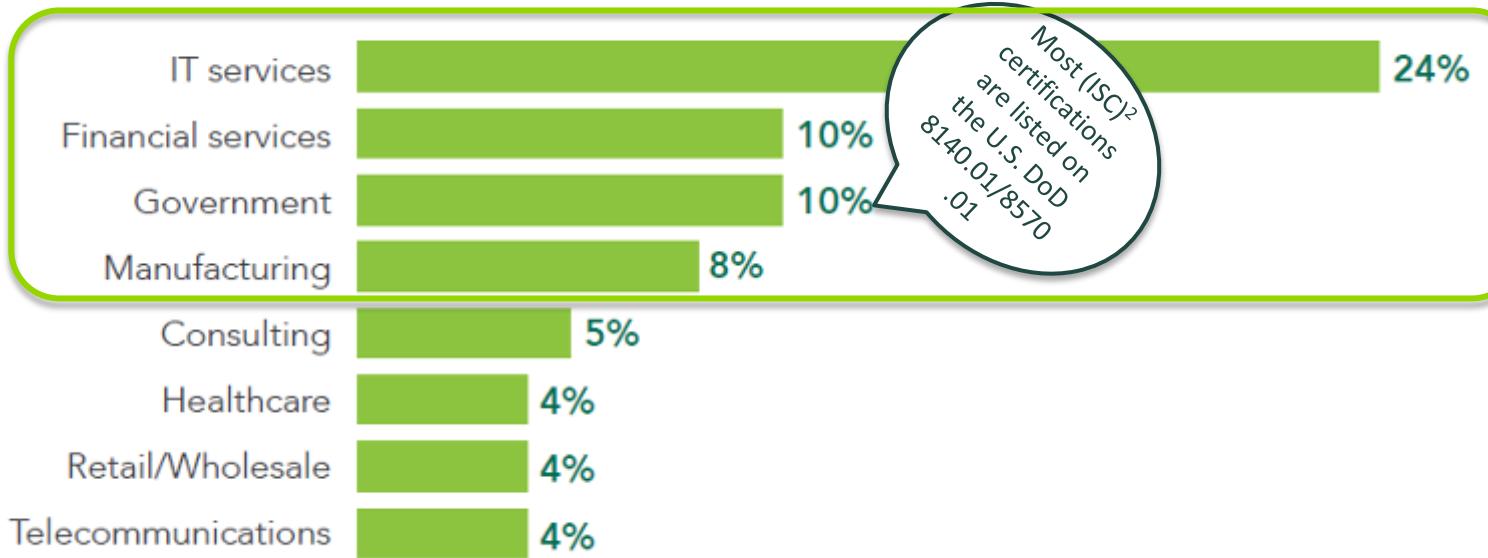
# Cybersecurity Workforce Snapshot



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# Cybersecurity Workforce Snapshot

## Industry Distribution



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# Qualifications in need

*equally important as cybersecurity certifications (32%)*



**38%**

Strong problem-solving abilities



**32%**

Curiosity and eagerness to learn



**32%**

Strong communication skills



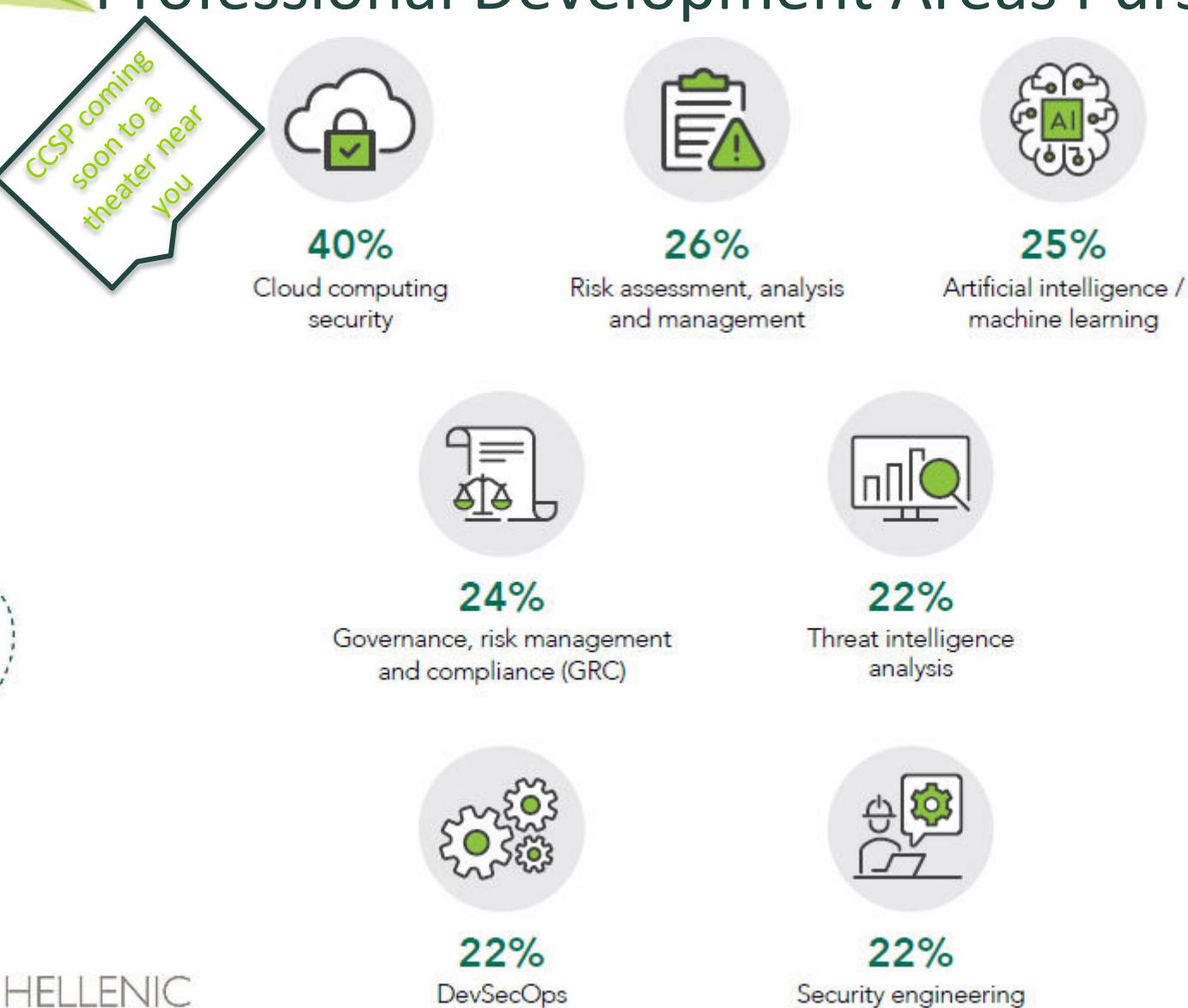
**23%**

Strong strategic thinking skills



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# Professional Development Areas Pursued



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# Some takeaways

- » Understand Your Gap; which roles do you need to fill?
- » Rethink How You Hire; expand your candidates' pool by evaluating prospects for non-technical qualifications
- » Put People Before Technology; organizations cannot spend their way out of the gap. They need to invest in people and build teams for long-term success
- » Embrace Remote Work; cybersecurity professionals want to continue working remotely. Also, remote work casts a much wider recruiting net.



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*Thank you !*

j.iliadis {at} isc2-chapter.gr



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