University of Piraeus
Department of Digital Systems

Just Graduated ! … now what?

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Cyber Noesis

Founder/MD

(ISC)² Hellenic Chapter

Founder/President

17 May 2016, Day-Conference

University of Piraeus
Department of Digital Systems

About… Cyber Noesis

- Established in 2015 by a group of cyber security specialists with more than 100 years combined experience in the industrial and telecommunications fields.
- Cyber security services that can comprehensively evaluate all of the potential attack paths into mission critical infrastructures.

ICS / SCADA Security

IoT Security

Core Telecom Networks Security

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About… (ISC)² | INSPIRING A SAFE AND SECURE CYBER WORLD®

- (ISC)² = *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)² CBK®
- Over 100,000 certified professionals; over 160 countries

- Official (ISC)2 Chapter (No: 128), 8/7/2014
- Non-Profit Association (No: 30693), 24/6/2015
- Our Mission:
  - *Exchange of ideas and dissemination of knowledge among (ISC)2 members, information security professionals and the public, as well as the promotion (ISC)2 Certifications in the region.*
- Members: **Information Security Professionals** and **(ISC)² credentialed.**

(ISC)² CHAPTER HELLENIC

(ISC)² CISSP® ISSAP® ISSEP® ISSMP® SSCP® CAP® CSSLP® CCFP® HCISPP® CCSP®

Just Graduated!

What will you do?

Where will you be living?

Have you send a CV?

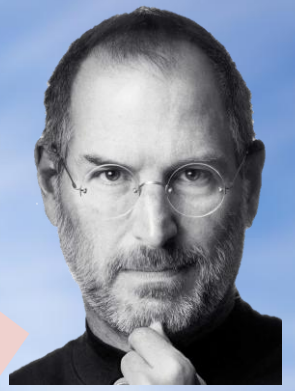
Do you have a job?

Will you leave the county?

What is your expected salary?

GOALS
OPTIONS
STEP BACK
SEE THE BIG PICTURE

GOALS: Where do you see yourself in the future?



3 Years?

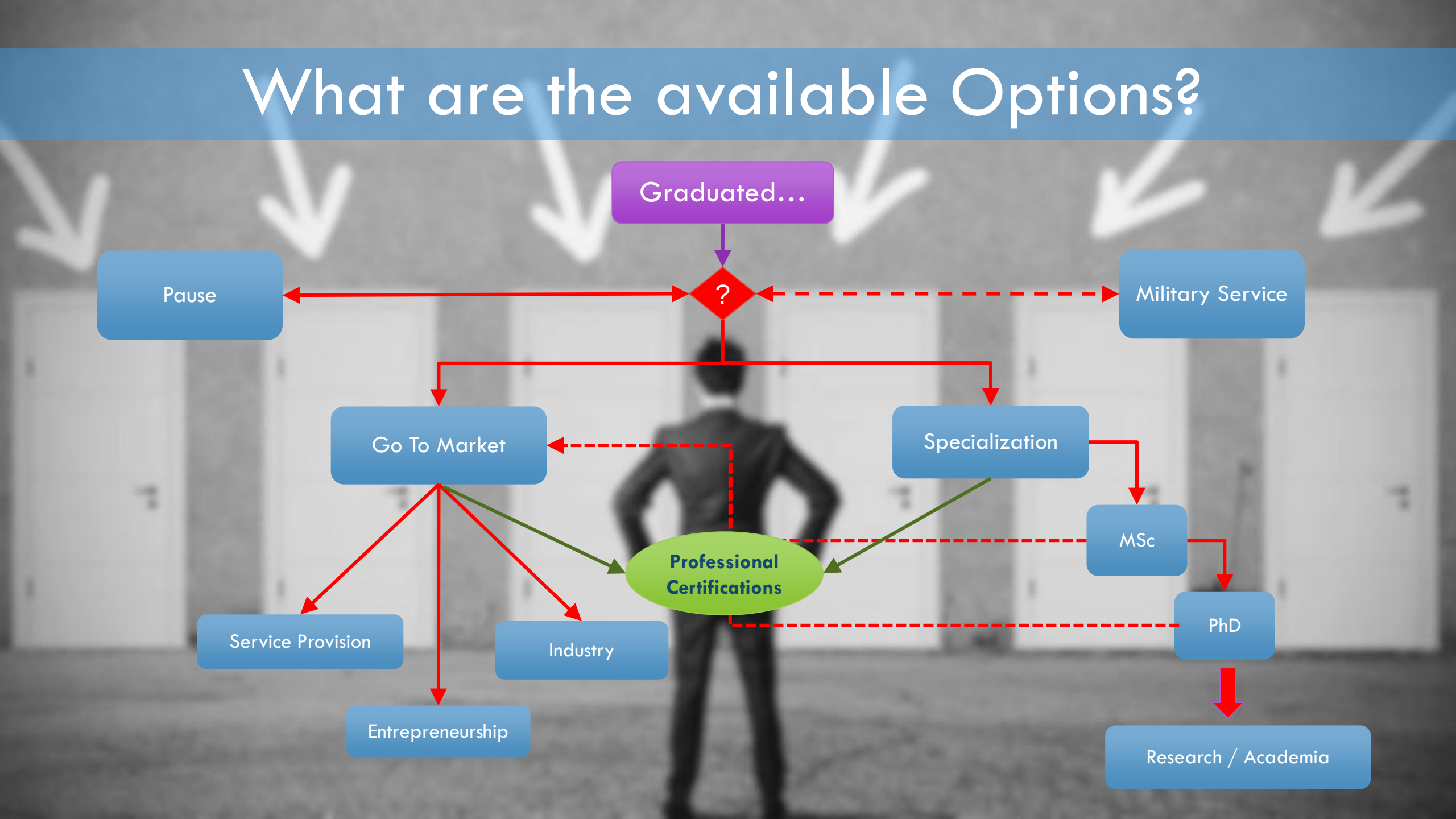
5 Years?

10 Years?

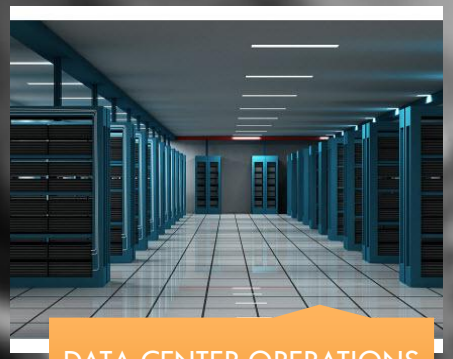
20 Years?

Long Term?

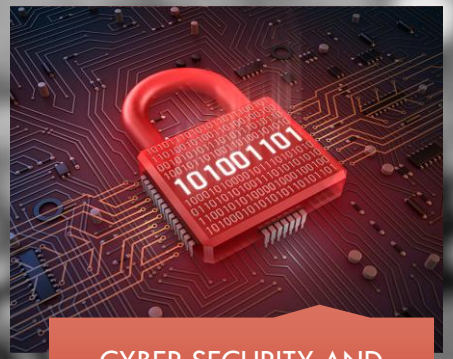
What are the available Options?



What kind of Specialization?

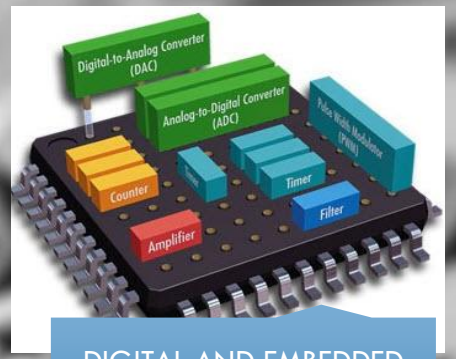


DATA CENTER OPERATIONS AND MANAGEMENT

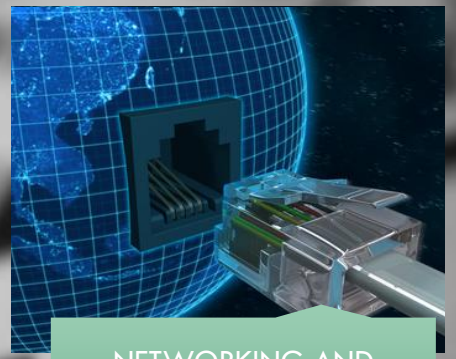


CYBER SECURITY AND FORENSICS

DATA MANAGEMENT AND ANALYTICS



DIGITAL AND EMBEDDED SYSTEMS



NETWORKING AND COMMUNICATIONS

ROBOTICS

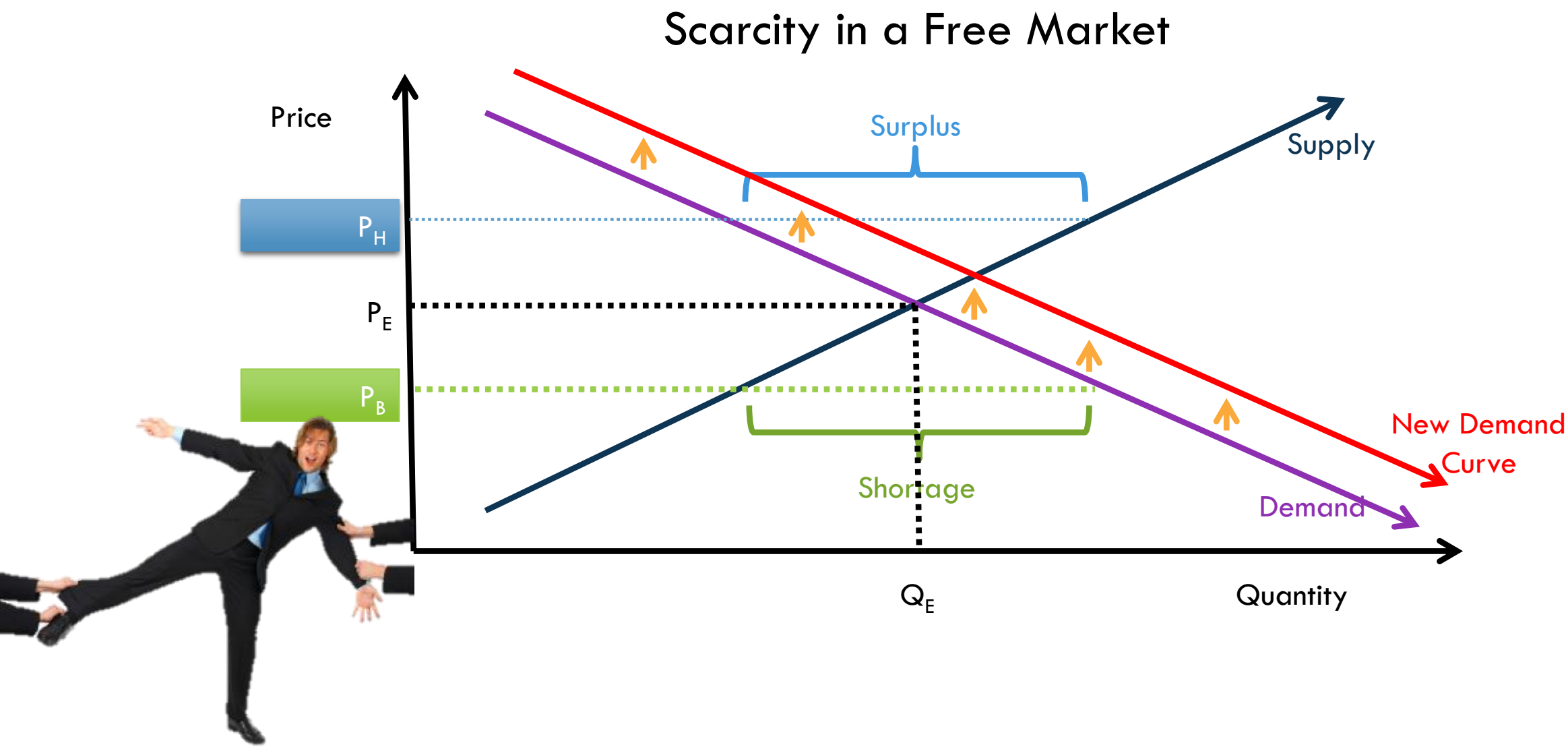
SOFTWARE DEVELOPMENT

WEB DESIGN & DEVELOPMENT

CLOUD INFRASTRUCTURES

Long List …

What is a Shortage?

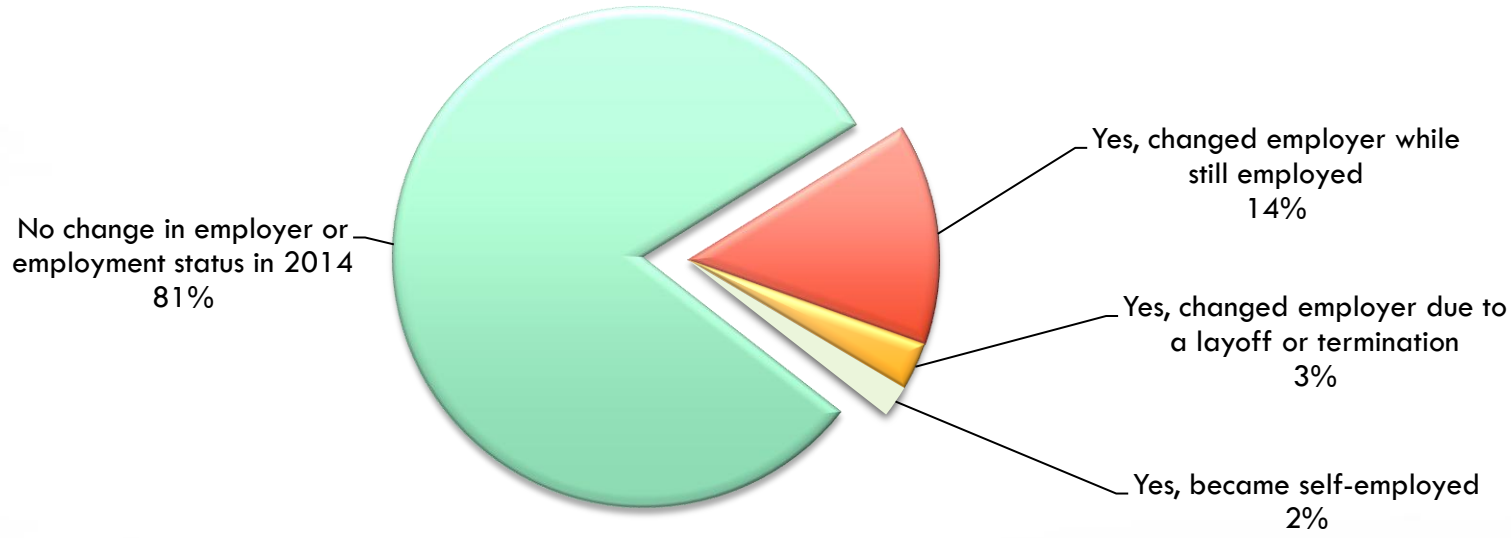


(ISC)² | 2015 Global Information Security Workforce Study

https://www.isc2cares.org/industryresearch/gisws/

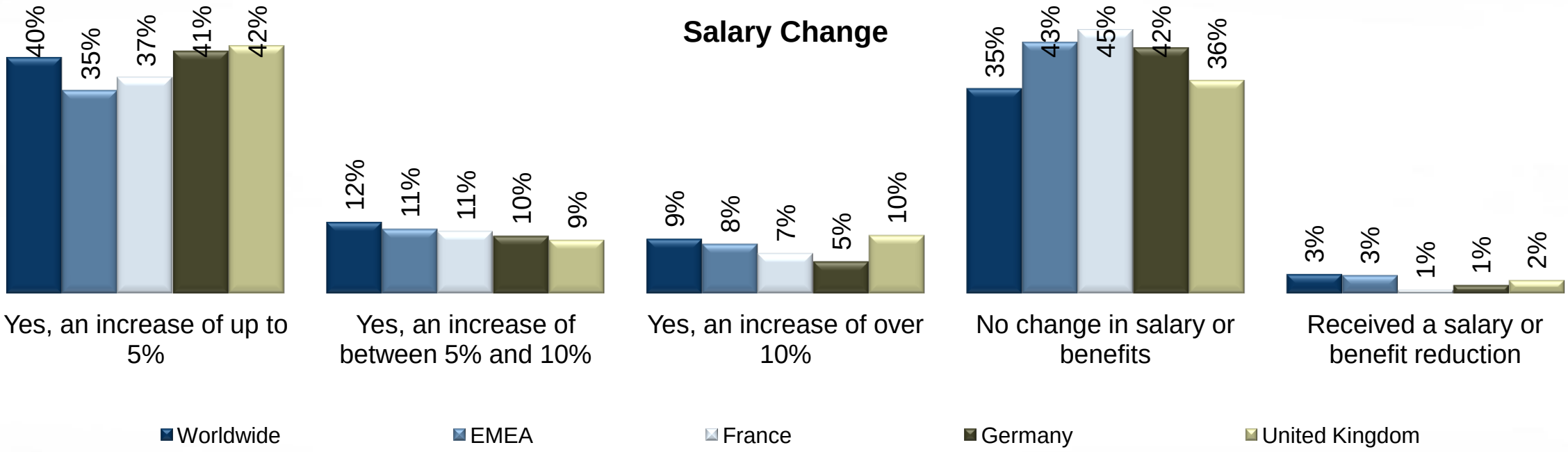
Workforce Shortage Indicators: Churn Rate

Did you change your employer or employment status in 2014?
(Percent of Survey Respondents)



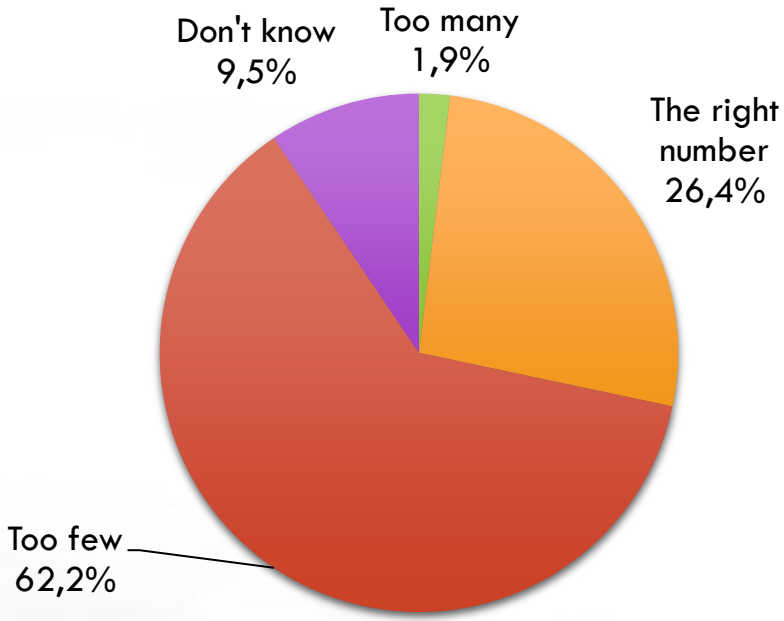
Across the 2011, 2013 and 2015 surveys, churn of nearly 20% is the highest that has been seen.

Workforce Shortage Indicators: Increasing Compensation



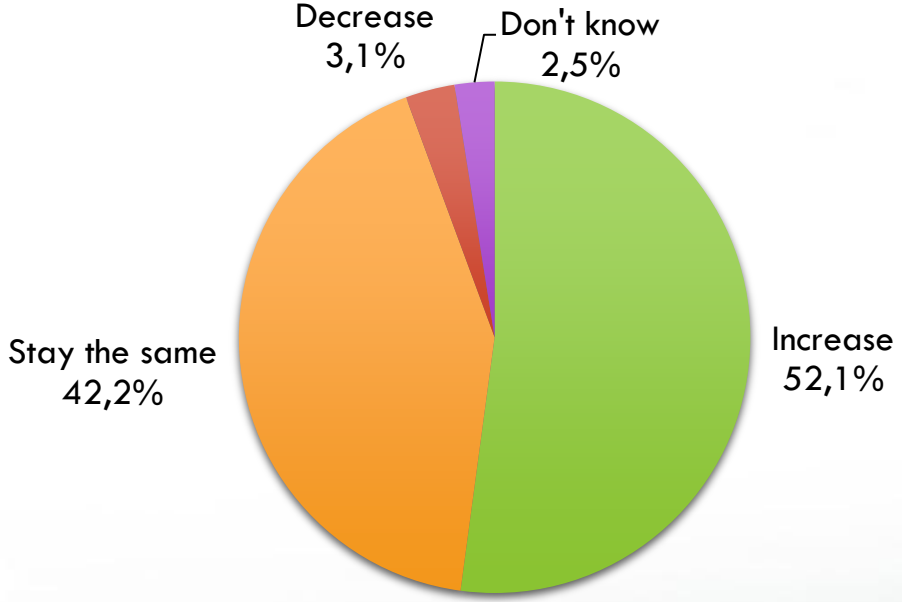
Staffing Plans: Insufficient InfoSec Professionals

Would you say that your organization currently has the right number of information security workers, too few, or too many?

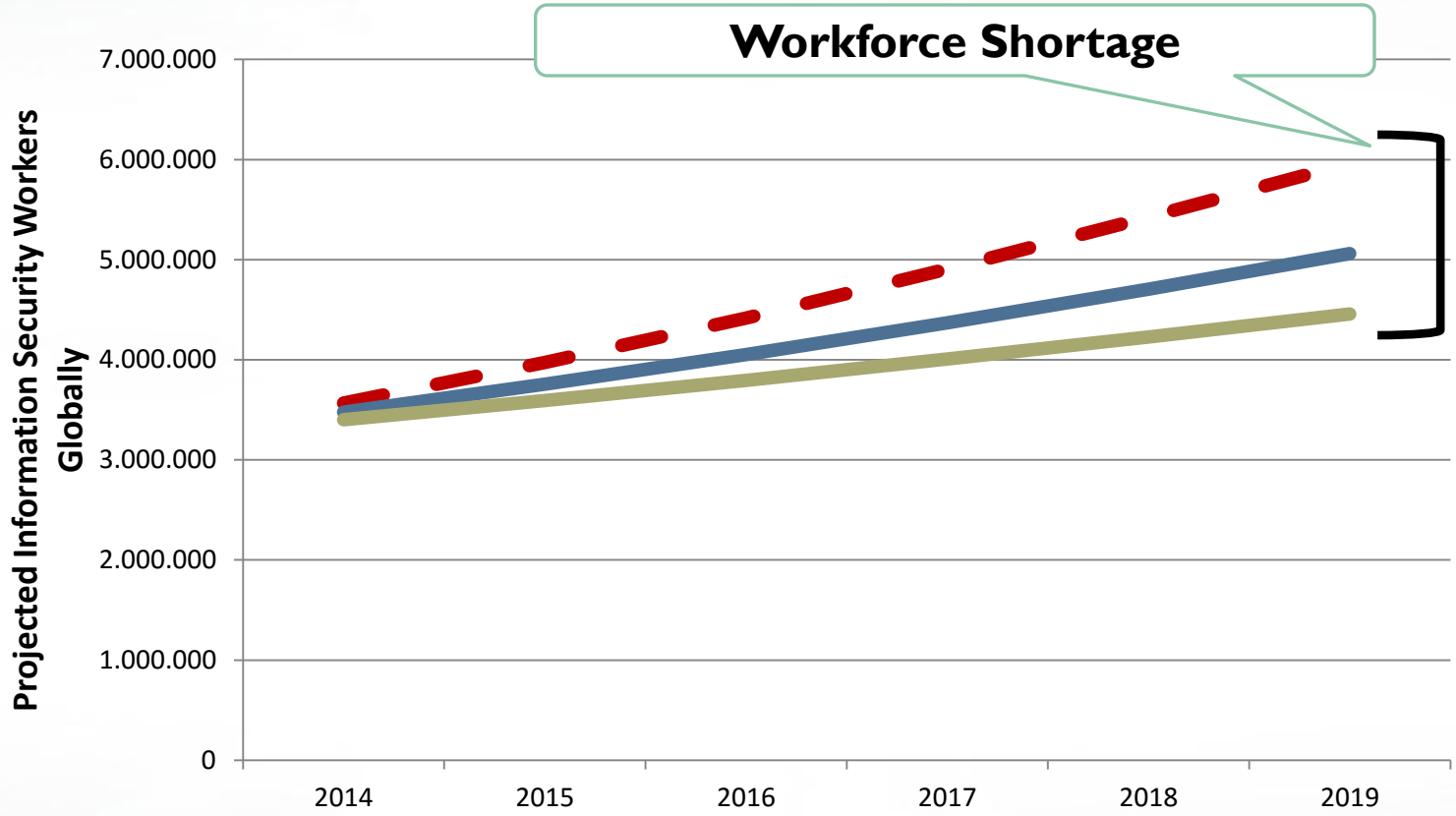


Too was 55.9 % in 2013

Over the next 12 months, do you expect the number of information security professionals in your organization to increase, decrease or remain the same?



InfoSec Workforce Size Estimate and Projection



Top Line:

Demand-meeting Projection

Middle Line:

Security Professionals' Hiring Projection

Bottom Line:

Supply-Constrained Projection"

Money Talks…

Expertise	Location	Avg. An. Comp.
Primary care physician (PCP)	USA	$195,000
PCP Specialist	USA	$284,000
Cardiac Surgeon	USA	$302,012
Lawyer (graduates burdened with debt and struggling to find)	USA	$130,880

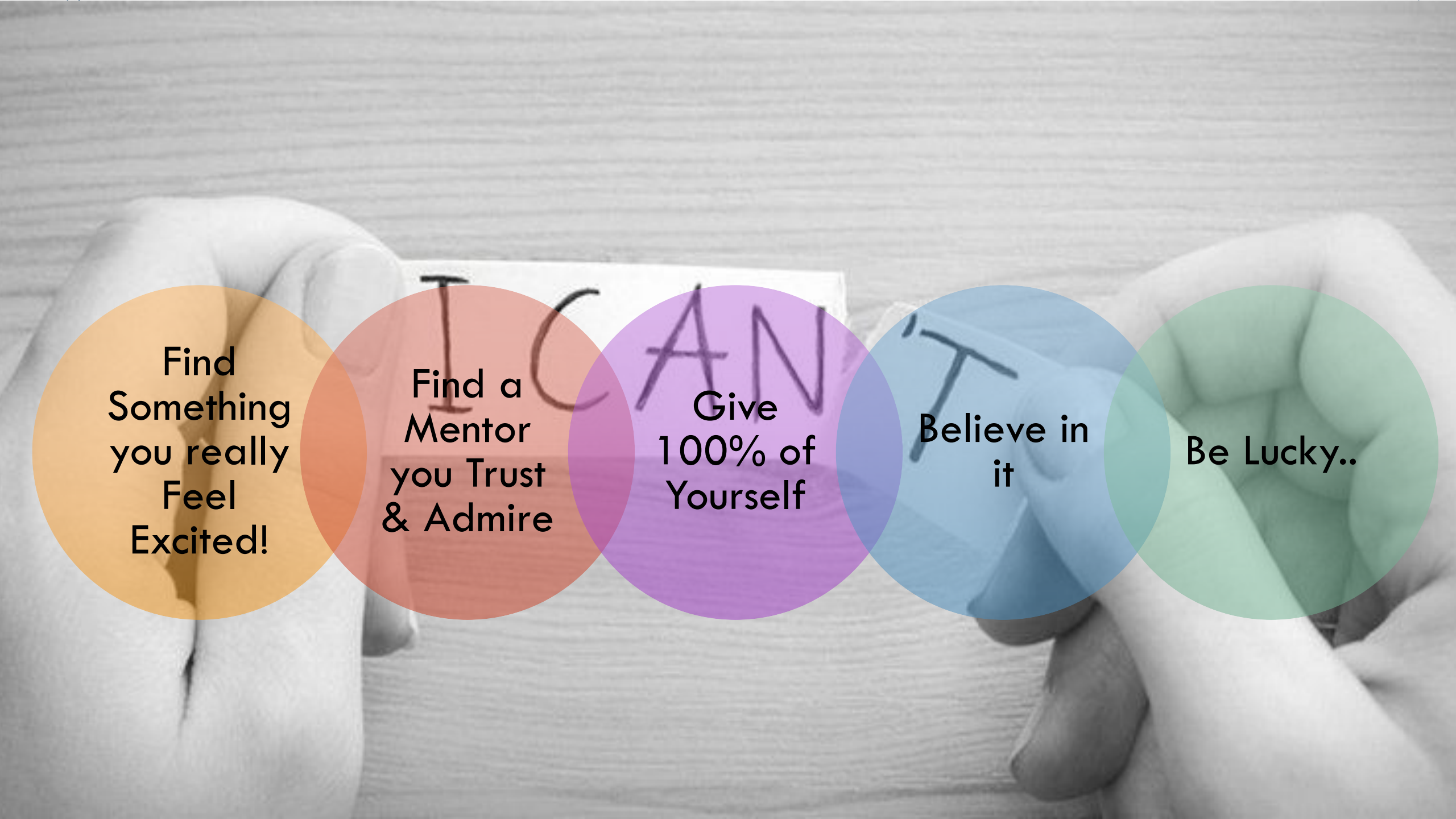
Expertise	Location	Avg. An. Comp.
Cybersecurity Expert	USA San Francisco NYC Sacramento	$91,210 $112,320 $120,460 $142,200
Global Info Security Director	USA	$200,000
Chief Security Officer	USA	$225,000

$500,000 per year:

- Some top surgeons
- Some partners in law firms
- Founders of successful CyberSecurity firms and CISOs at large corporation

1,000 top-level CyberSecurity experts globally vs. a **need for** 10,000 to 30,000.

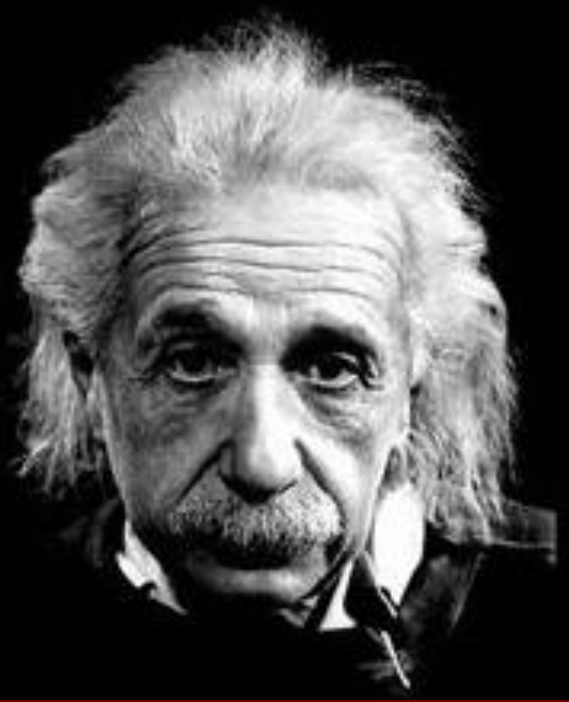
Your Degree is Just a Stepping Stone…


Find Something you really Feel Excited!
Find a Mentor you Trust & Admire
Give 100% of Yourself
Believe in it
Be Lucky..

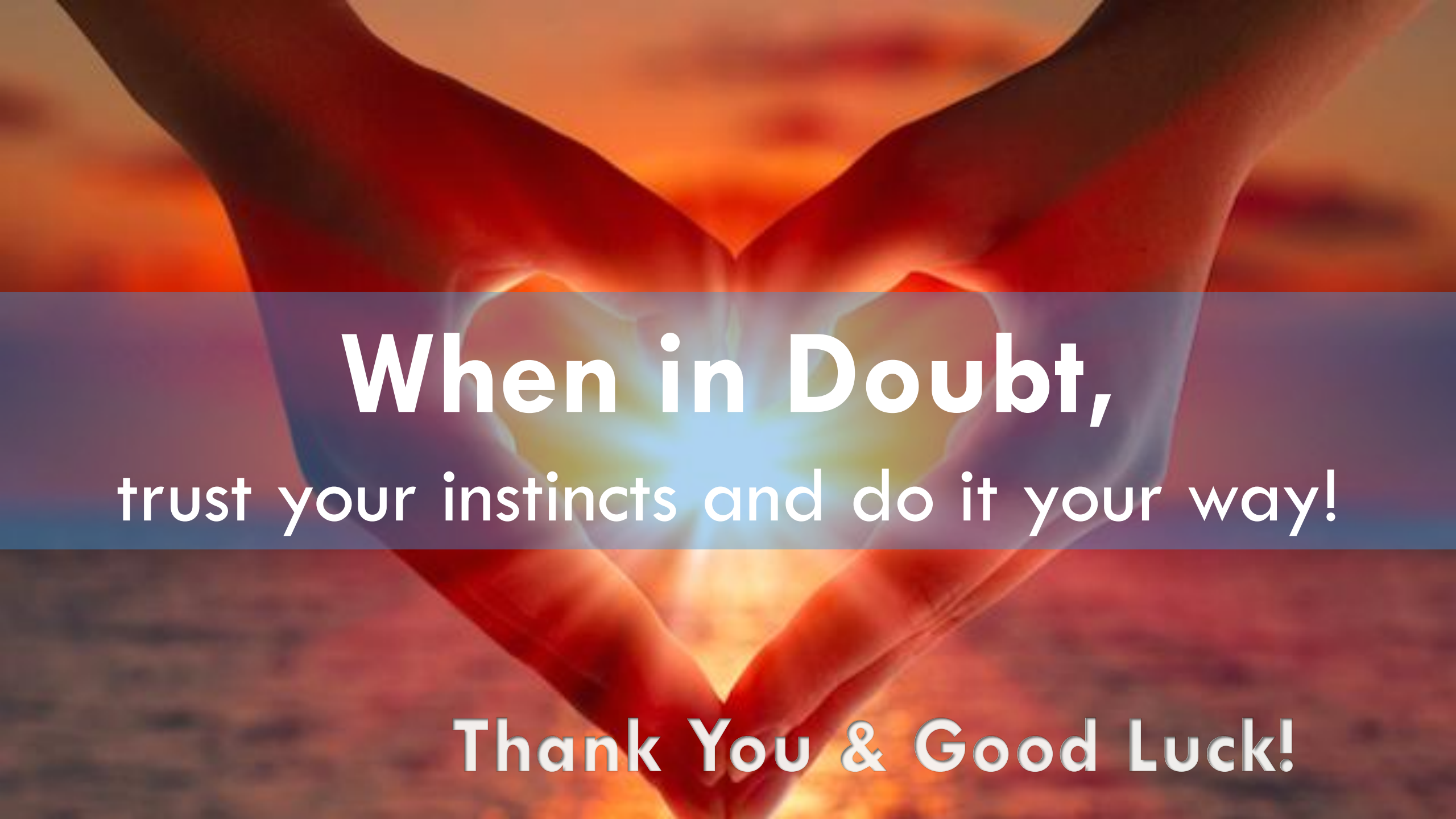
There will be bad times…

I am thankful to all those who said NO to me. It's because of them I did it myself.

Albert Einstein



… use them to wake you up!


When in Doubt,
trust your instincts and do it your way!
Thank You & Good Luck!