

# Contents

## DEFENSE – DYNAMIC SECURITY STRATEGIES FOR AN UNCERTAIN FUTURE

1. ATTACKS IN AN UNCERTAIN WORLD
2. DO THE BASICS WELL
3. STATIC TO DYNAMIC DEFENSE
4. CSF
5. AI AND WHY YOU MAY WANT TO CLEAN UP YOUR ROOM...



- 20 years information security experience (Group CISO, Global Head of Security, CISO, CTO Security) CISSP, CSSLP, CCISO
- 15 years management of application and software development
- Sloan Fellow M.Sc. in Leadership and Strategy, London Business School
- OWASP former chairman & global Board member, OWASP Project Leader for the CISO Survey ([www.owasp.org](http://www.owasp.org))
- Author of Internet Standards on Secure Archiving, CISO training and co-author of the OWASP CISO guide
- Former Chair of the IETF Trust, Chair of IETF WGs on Web Security, DDoS Open Threat Signalling, etc. Member of the IETF Security Directorate
- Cloud Security Alliance, Hong Kong chapter board member



RIGHT BY YOU





# 1. Attacks in an uncertain world – “sophisticated” attacks vs. “sophisticated” defenses - really...?



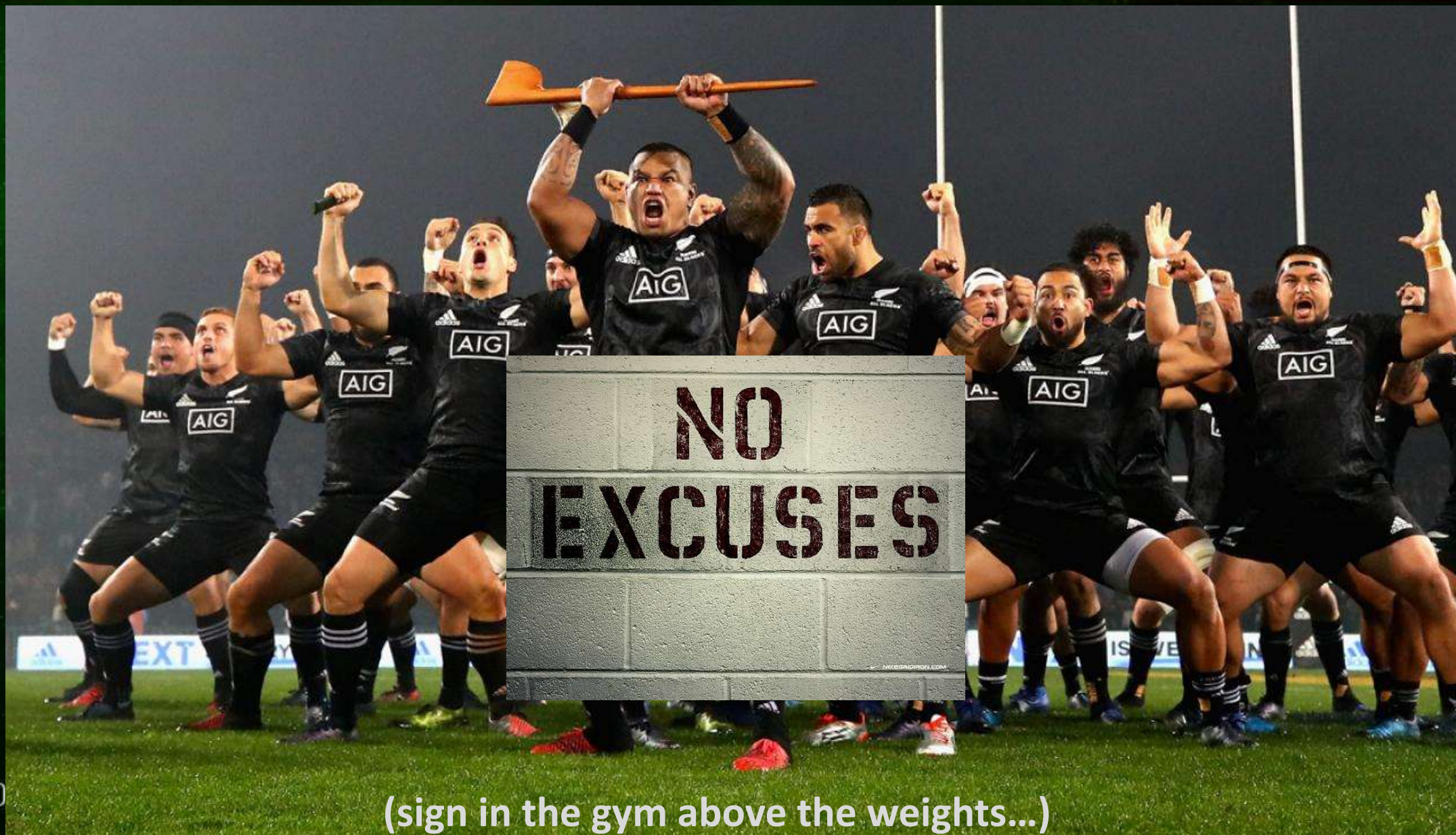
Maersk Chairman: “NotPetya attack totally destroyed Maersk's computer network”  
- up to \$300 Million



2017: 465,000 pacemakers vulnerable to hacking, need a firmware fix



## 2. Do the basics well



ZERO

(sign in the gym above the weights...)



# 3. Dynamic Defense

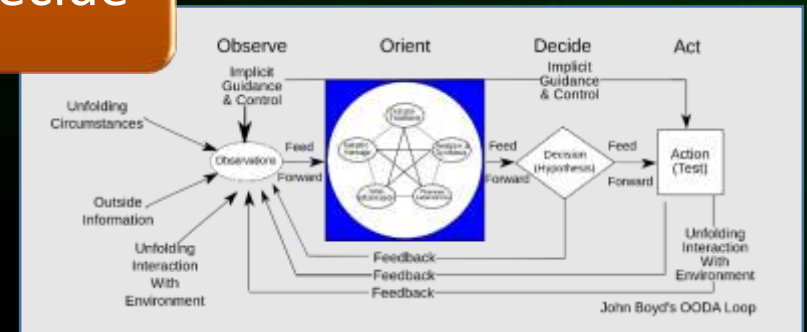
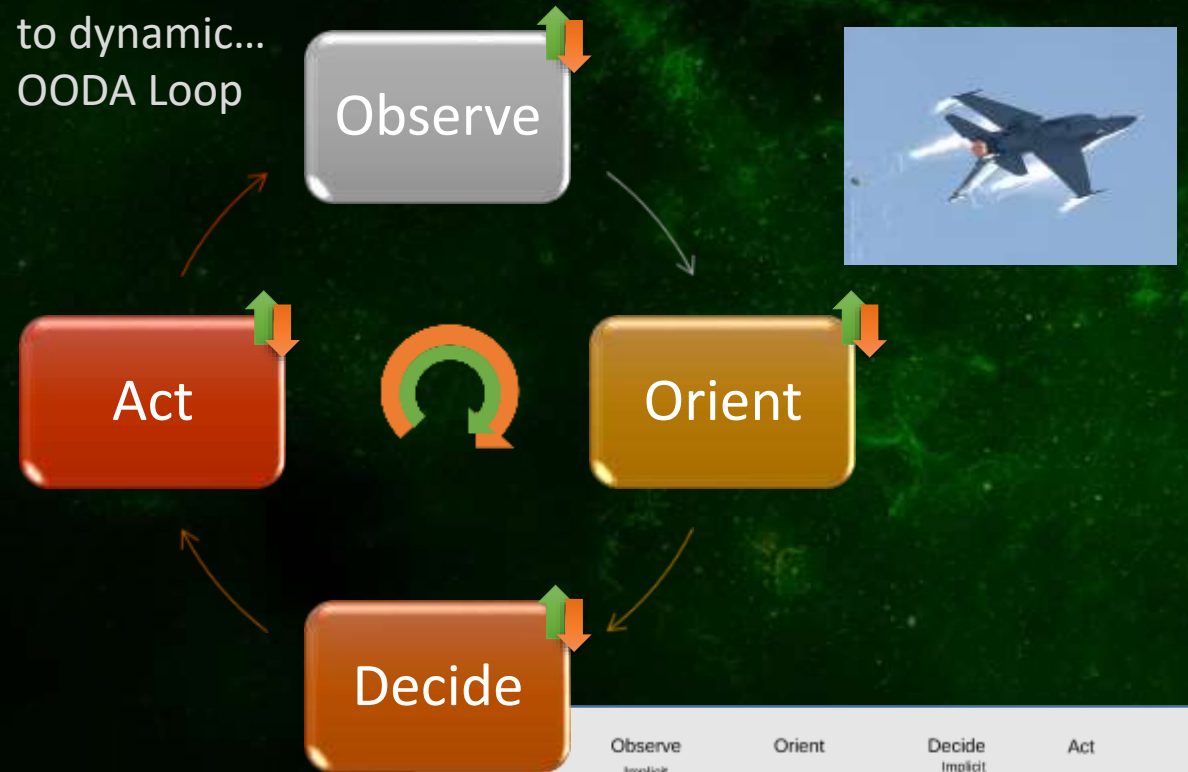
- From static....



ZERO TRUST SECURITY

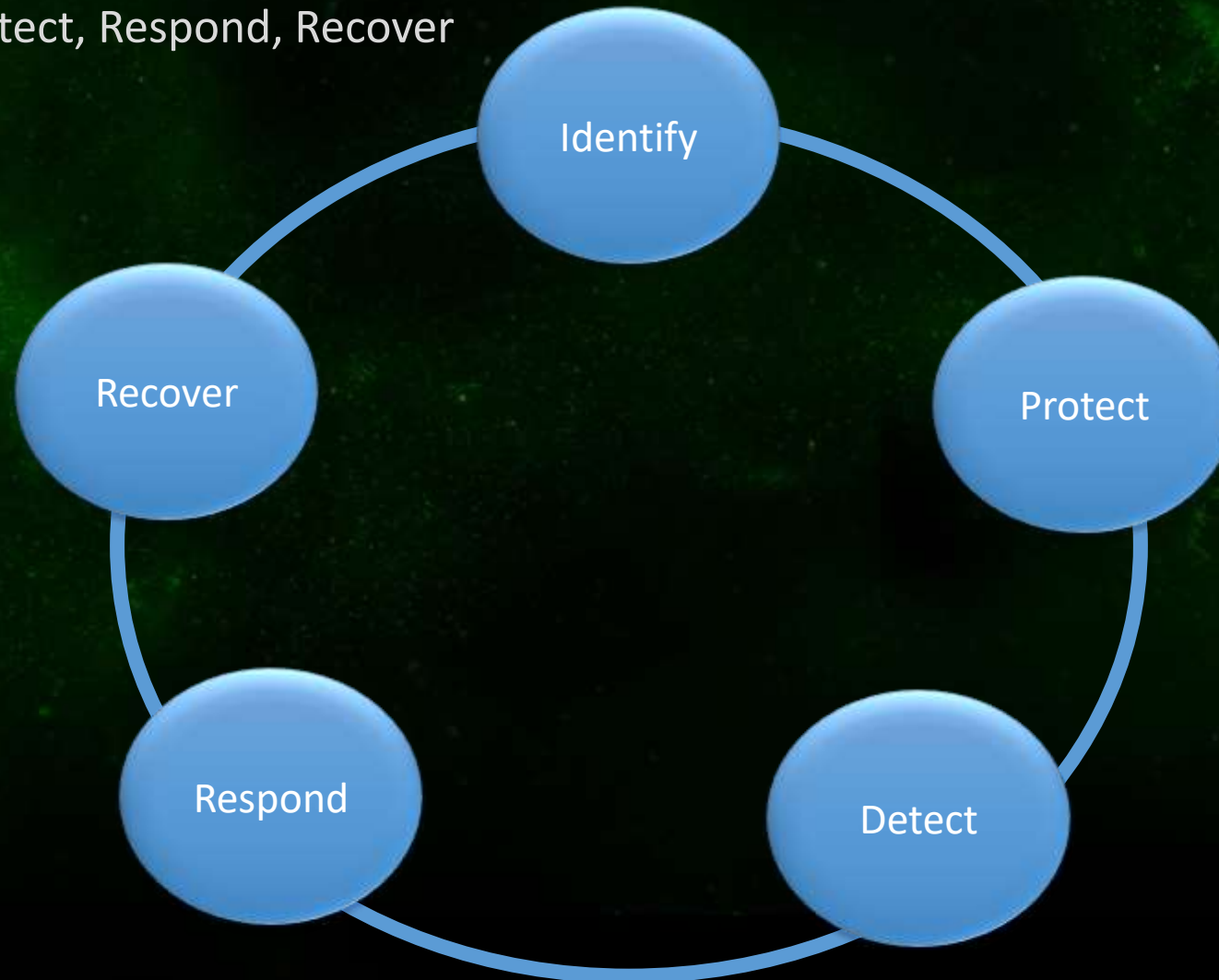


to dynamic...  
OODA Loop



# 4. NIST Cyber Security Framework (1.1)

From Protect  
=> Identify, Protect, Detect, Respond, Recover

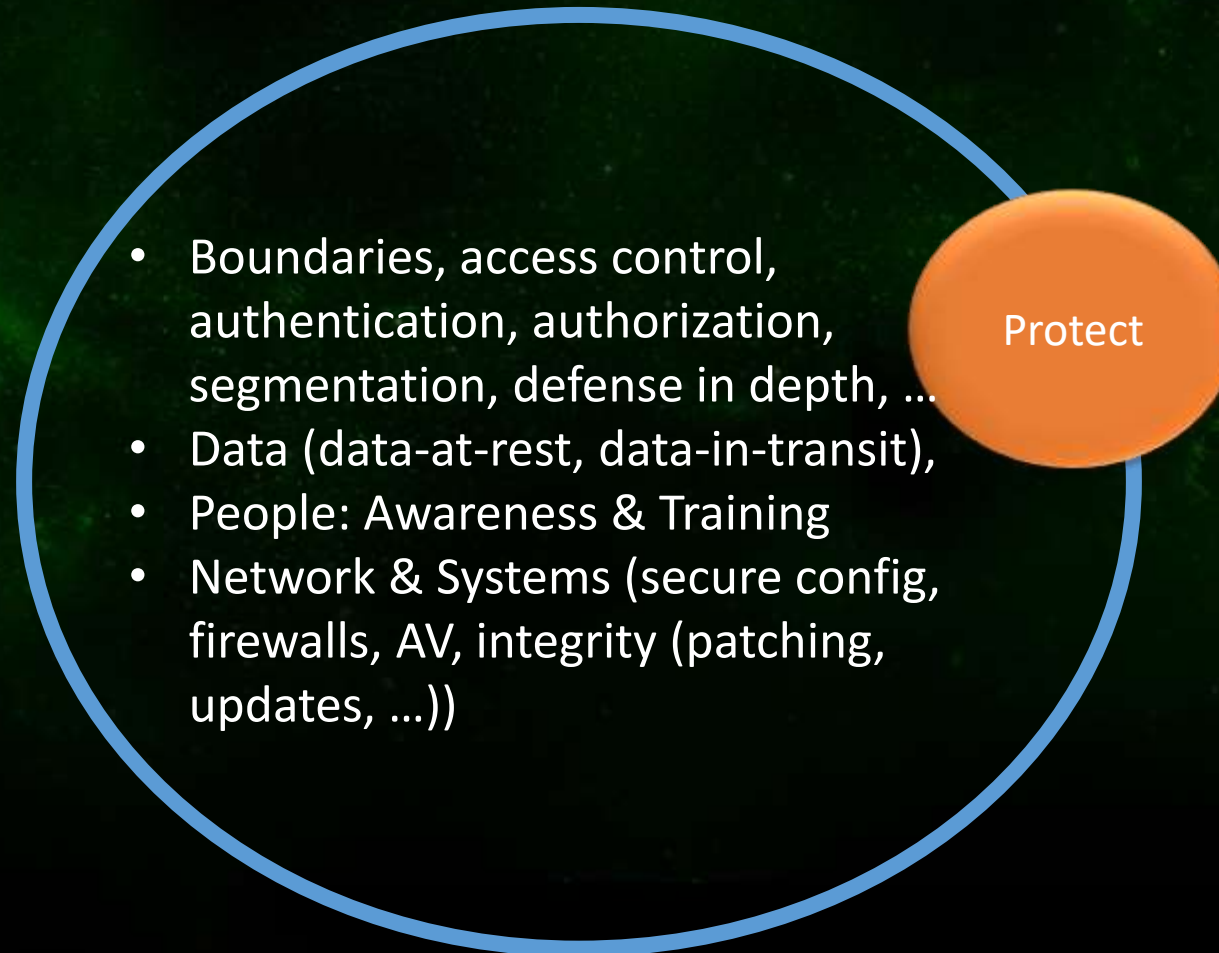


ZERO TRUST SECURITY



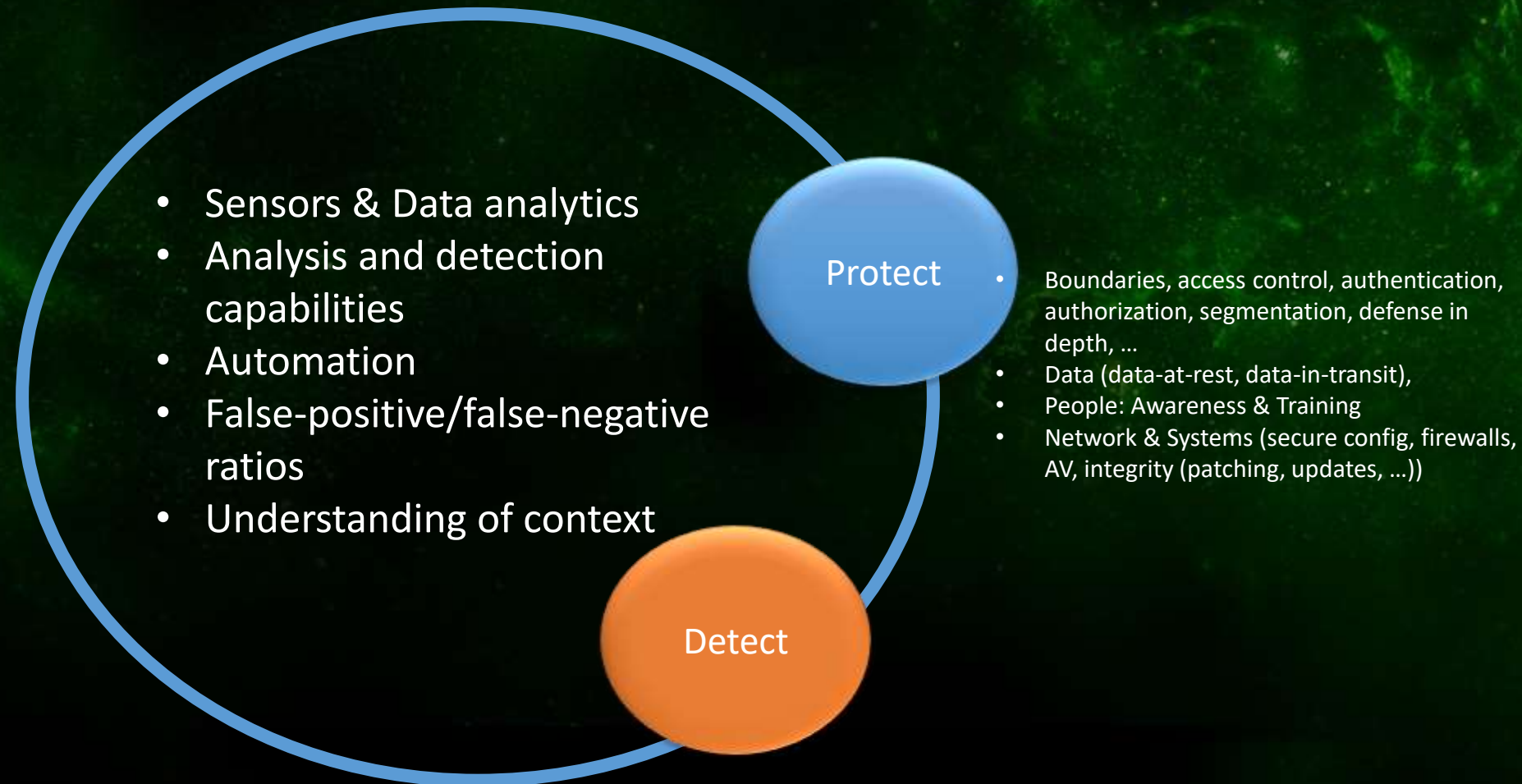
# 4. NIST CSF (1.1): what does this mean for us?

Add capabilities & investments from Protect  
=> Identify, Protect, Detect, Respond, Recover



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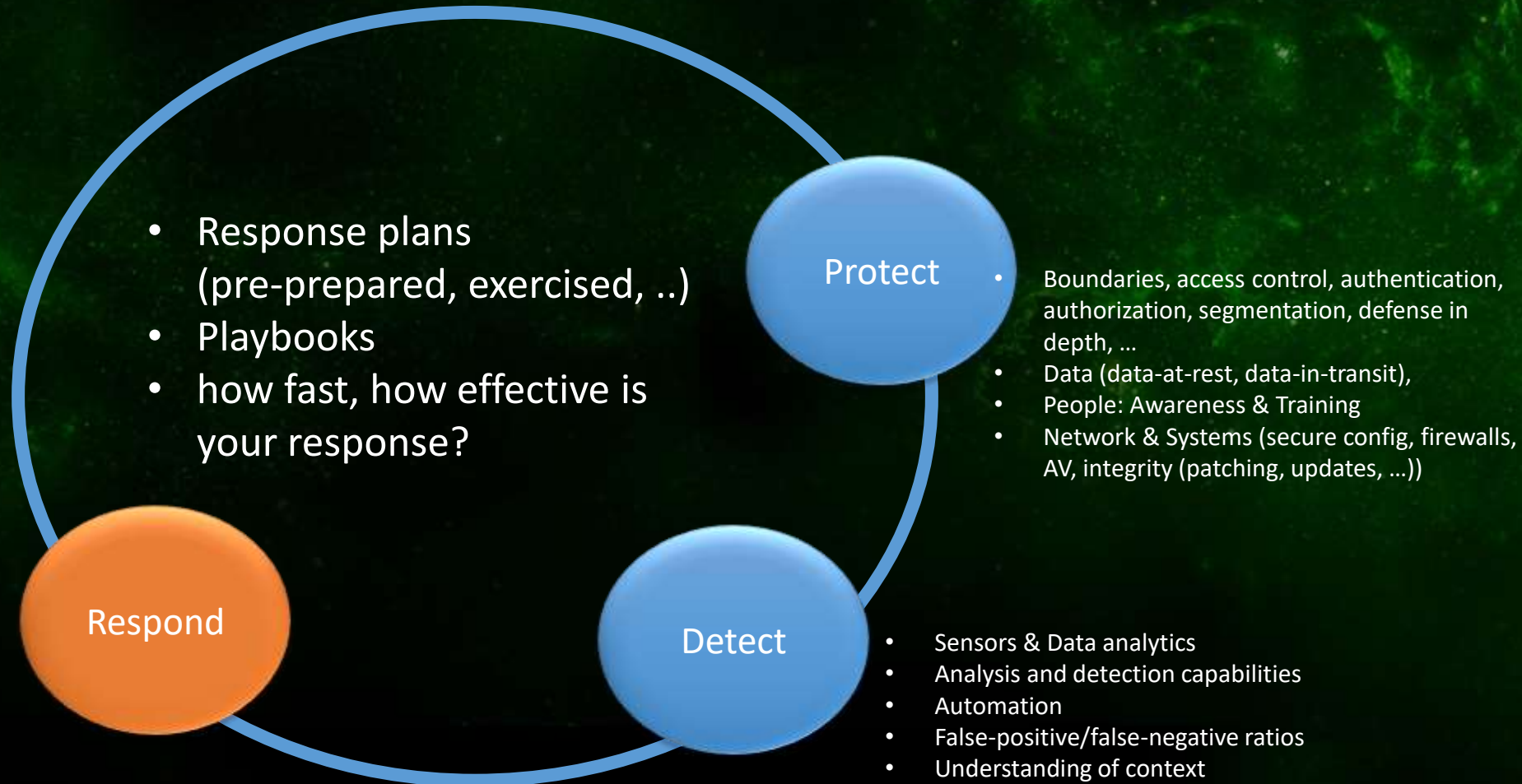
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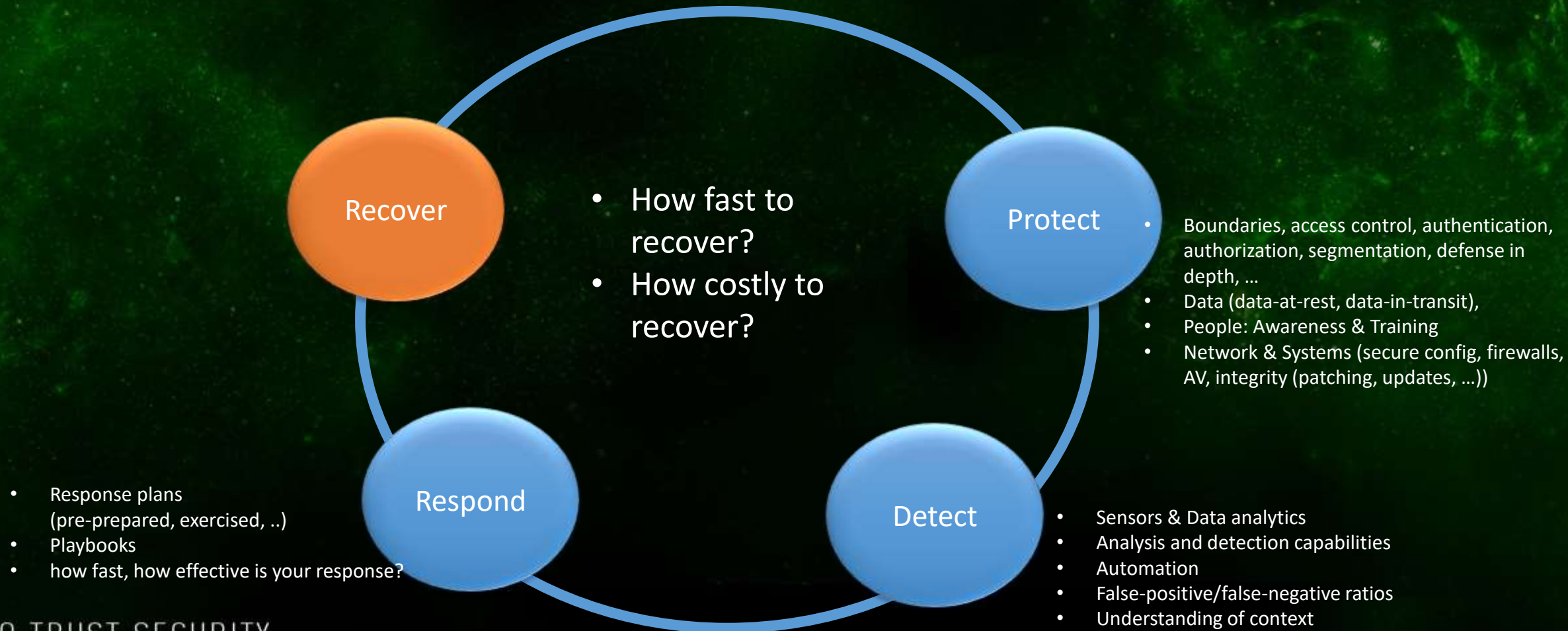
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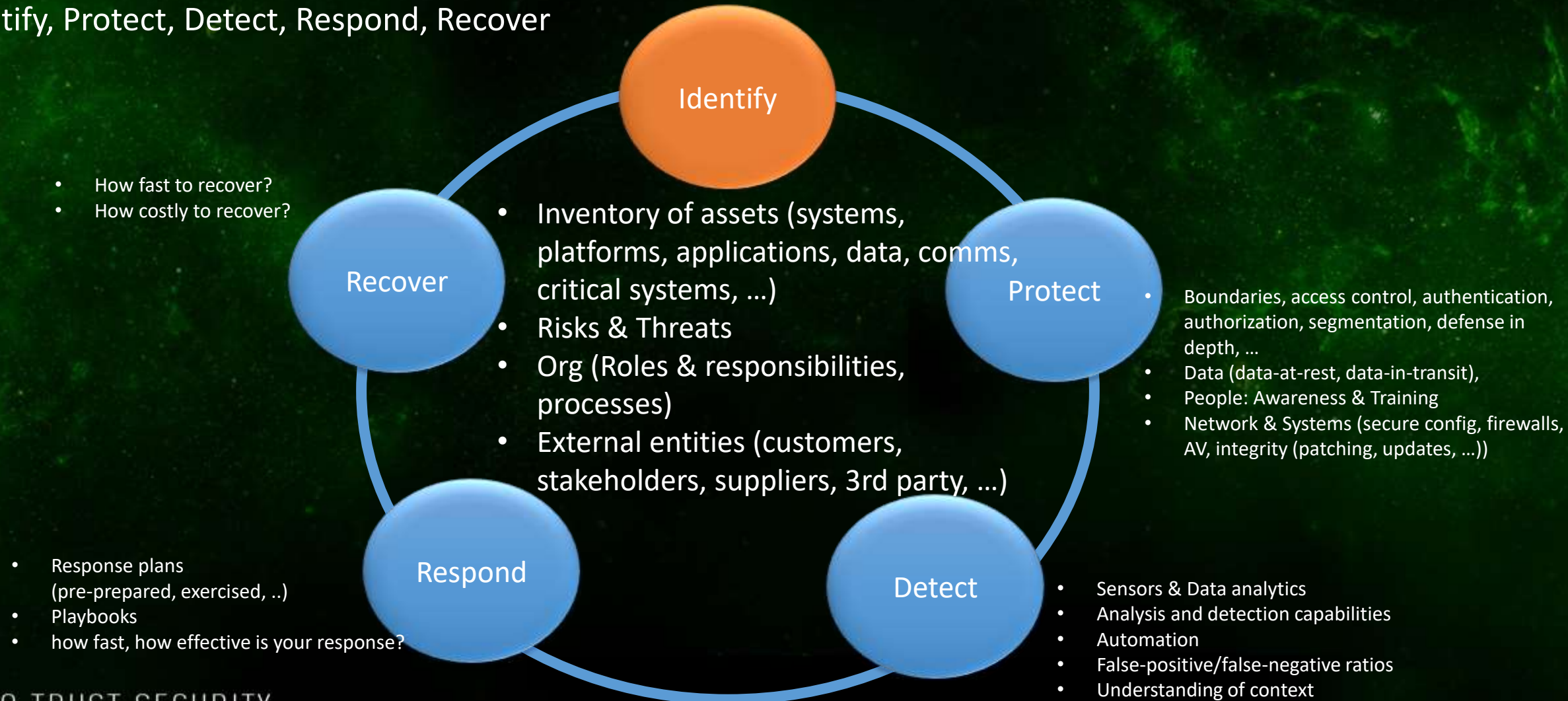
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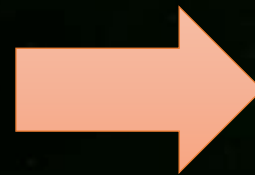
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## 5. AI and why you need to clean up your room

- A thought about AI/Machine Learning/Advanced Analytics to spot abnormal behavior/deviations from policies and configs, etc.
- A little test: Which item is out of place....?



“Do the basics well...” 😊



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360互联网安全中心

# THANKS

ISC 互联网安全大会 中国·北京

Internet Security Conference 2018 Beijing · China

(原“中国互联网安全大会”)

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\* P.s.: by the way: if you are a good “good guy” or “good lady”, we are hiring (Singapore, Shanghai,...) ☺