

Cyber Security Essentials

Revisit after CISSP

The Intro

AL NAFI,
A company with a focus on education,
wellbeing and renewable energy.



The Gravity of Social Injustice

What will the day of Judgment look like for the oppressor?

The Messenger of Allah (Allah bless him and give him peace) said: "All scores will be settled on the Day of Resurrection; even the hornless sheep from the horned." [Muslim]

Allah will bring the animals to settle their disputes. You (as a human) will see the disputes of the animals being resolved. The oppressor will wish they were dust because they know that they too will have to answer for their oppression.

أَلَا مَنْ ظَلَمَ مُعَاهِدًا أَوْ انْتَقَصَهُ أَوْ كَلَّفَهُ فَوْقَ طَاقَتِهِ أَوْ أَخَذَ مِنْهُ
شَيْئًا بِغَيْرِ طَيِّبِ نَفْسٍ فَأَنَا حَاجِبُهُ يَوْمَ الْقِيَامَةِ "

Safwan reported from a number of Companions of the Messenger of Allah (ﷺ) on the authority

of their fathers who were relatives of each other. The Messenger of Allah (ﷺ) said: Beware, if anyone wrongs a contracting* (*dhimma*) man, or diminishes his right, or forces him to work beyond his capacity, or takes from him anything without his consent, I shall plead against him on the Day of Judgment. (i.e., I will be his prosecutor!)

The matter of oppression encompasses all of mankind! Can you imagine the Prophet (saw) standing against you before Allah (swt) - If this is the case for us, then what hope do we have of entering Paradise?

مَنْ قَتَلَ نَفْسًا مُعَاهِدًا لَمْ يَرِخْ رَائِحَةَ الْجَنَّةِ، وَإِنْ رِيحَهَا يُوجَدُ
مِنْ مَسِيرَةِ أَرْبَعِينَ عَامًا ."

Narrated `Abdullah bin `Amr: The Prophet (ﷺ) said, "Whoever killed a *mu'ahid* (a person

who is granted the pledge of protection by the Muslims) shall not smell the fragrance of Paradise though its fragrance can be smelt at a distance of forty years (of traveling)."

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Key questions out of the gate

- Who can take this course?
- Why should you take this course?
- How will it help you in your CISSP prep and overall understanding CORDS track?
- The importance of **The Cyber Security Body of Knowledge?**

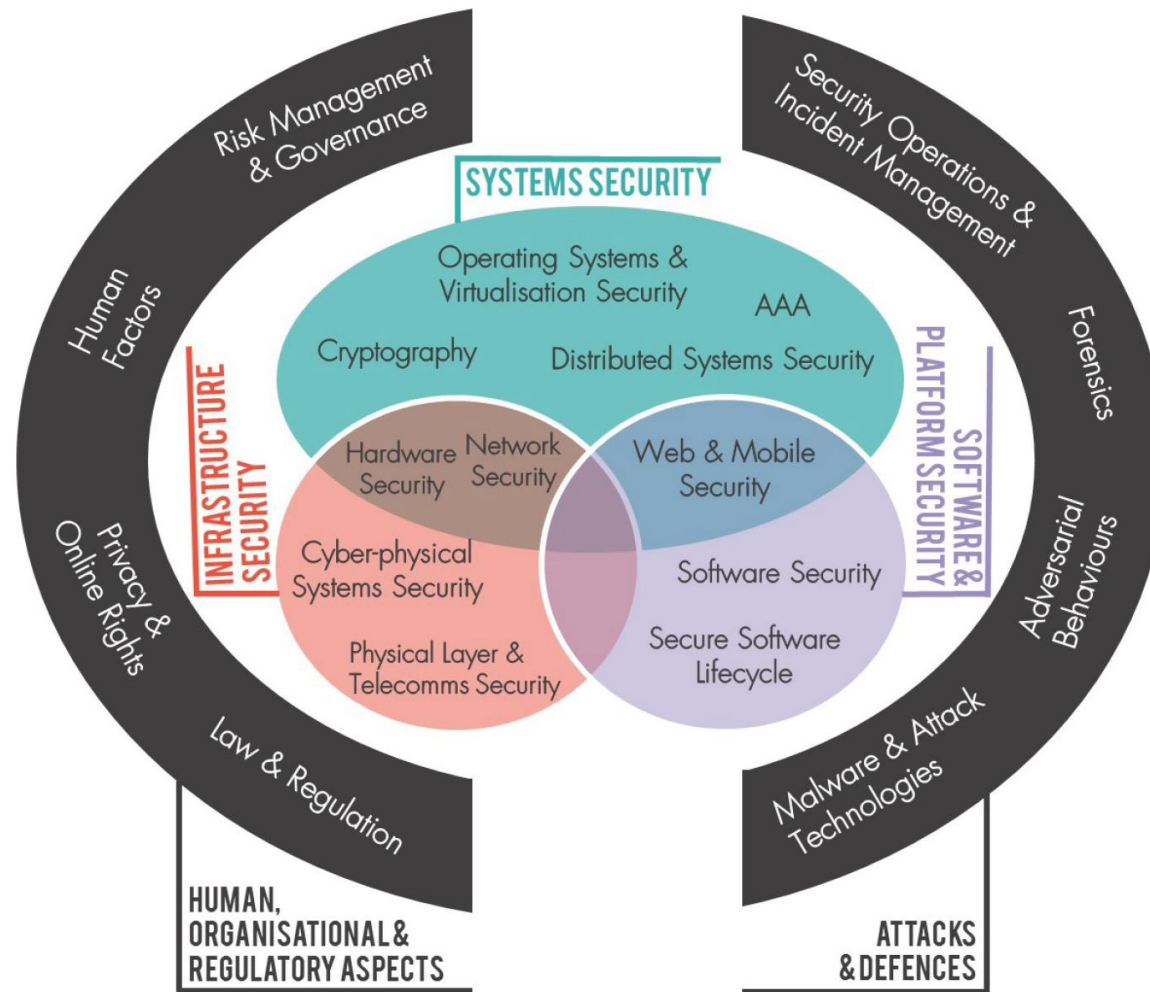


Figure 1.1: The 19 Knowledge Areas (KAs) in the CyBOK Scope

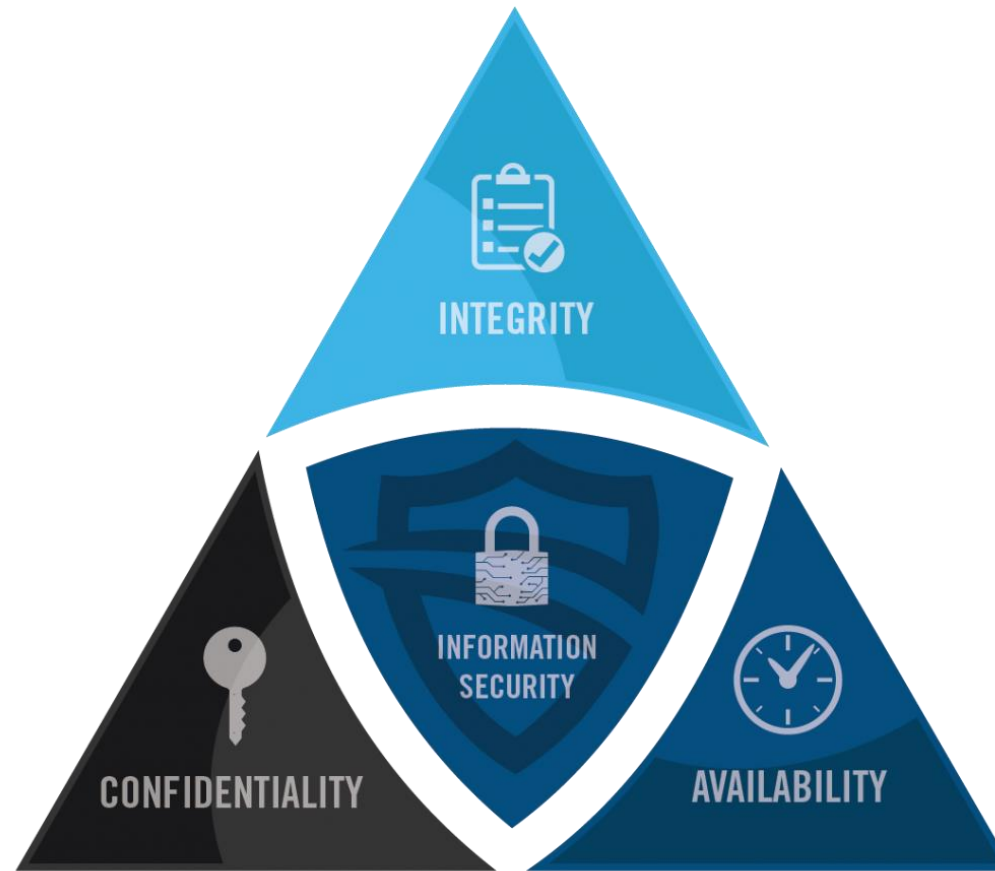
What is Cyber security



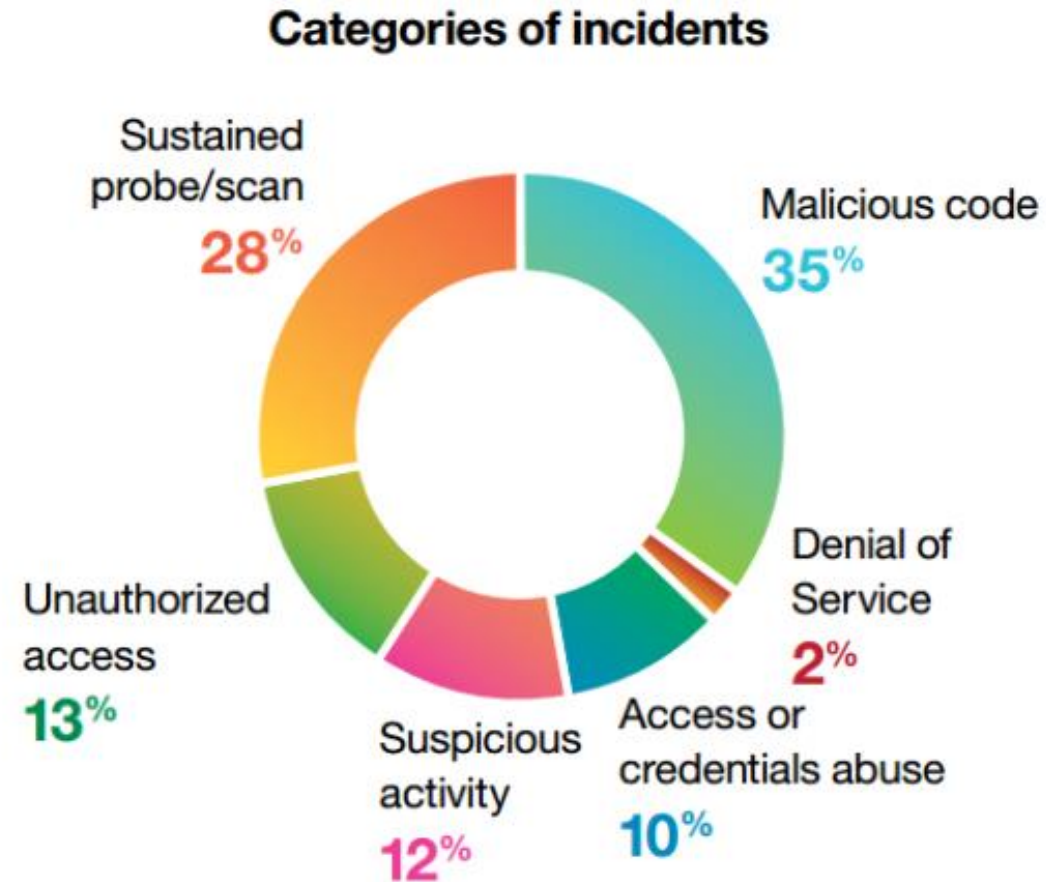
Information Security



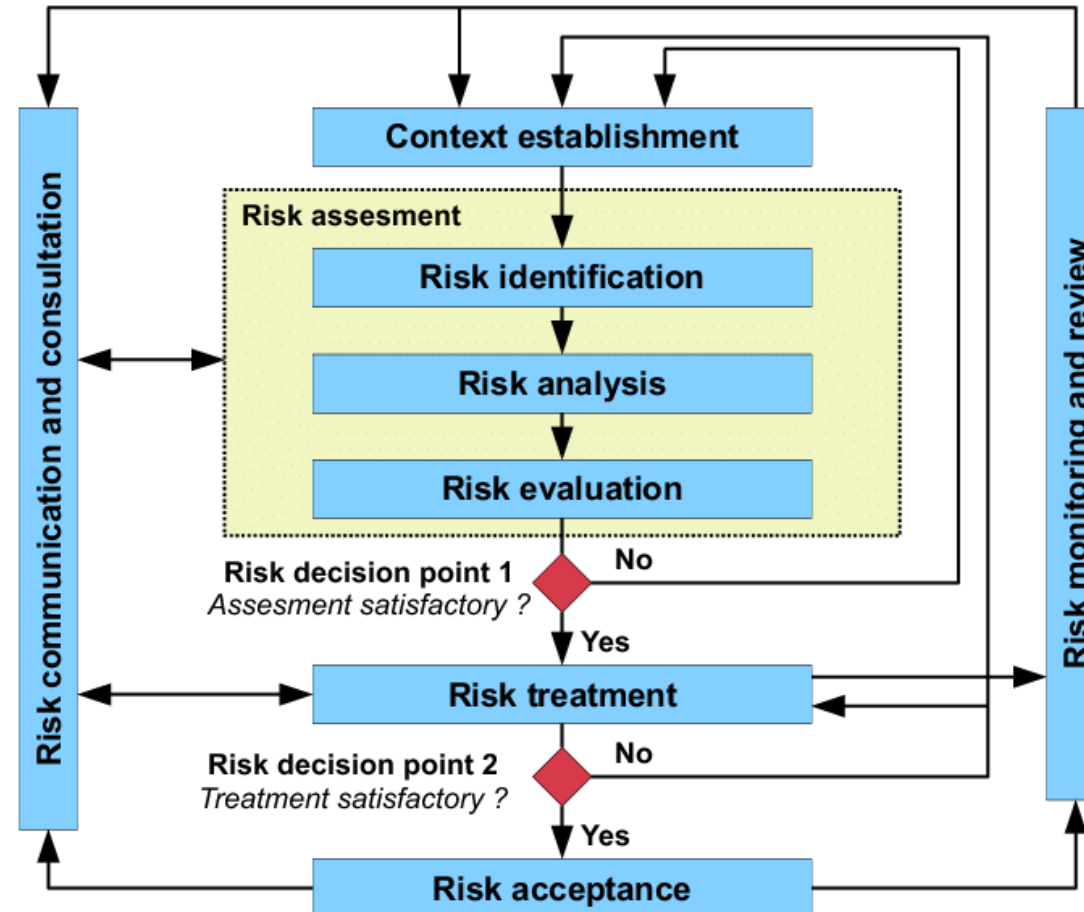
Means and objectives of cyber security



Failures and Incidents

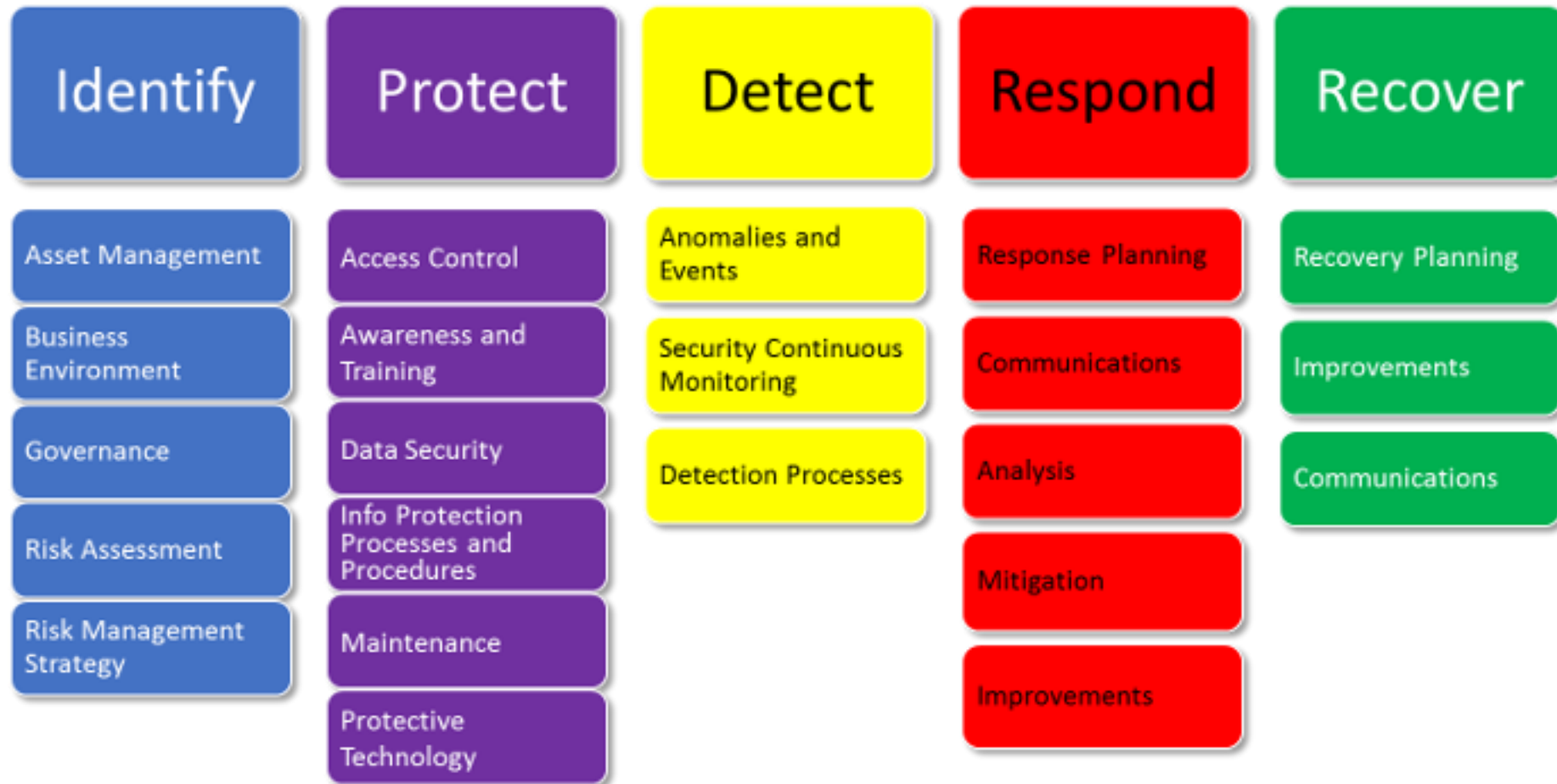


Risk in Information Security

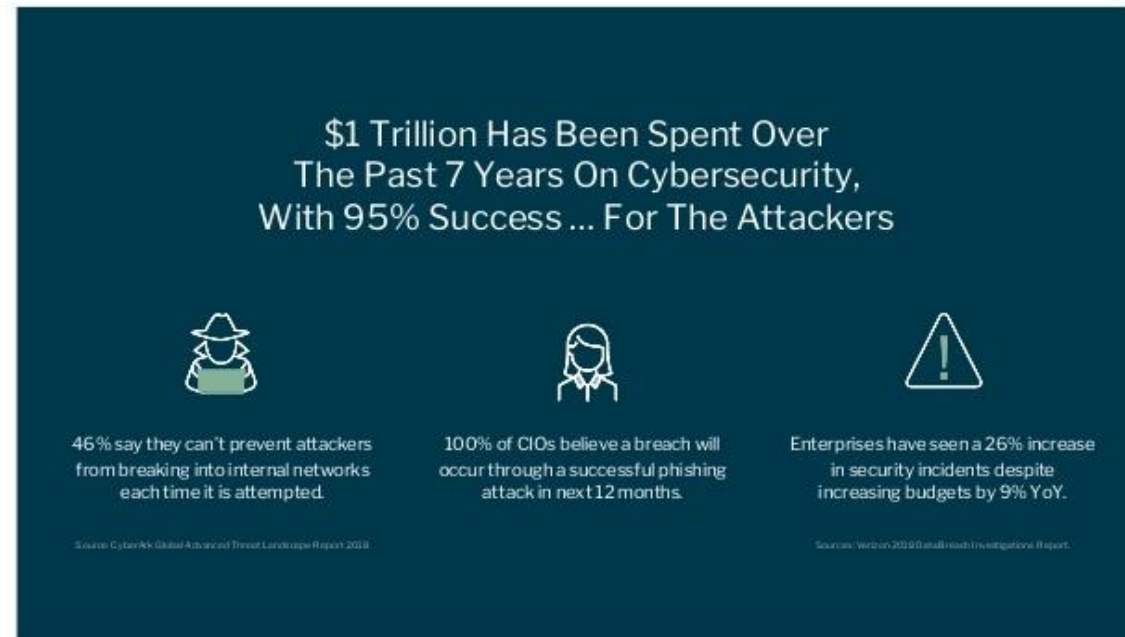


- Based on the ideas of simplicity and restriction.
- J. Saltzer and M. Schroeder Proceeding of IEEE 1975 describes 8 principles for security mechanism
 - Least Privileges
 - Fail-Safe Defaults
 - Economy of Mechanism
 - Complete Mediation
 - Open Design
 - Separation of Privilege
 - Least Common Mechanism
 - Psychological Acceptability

NIST Cyber Security Framework



Latent design considerations



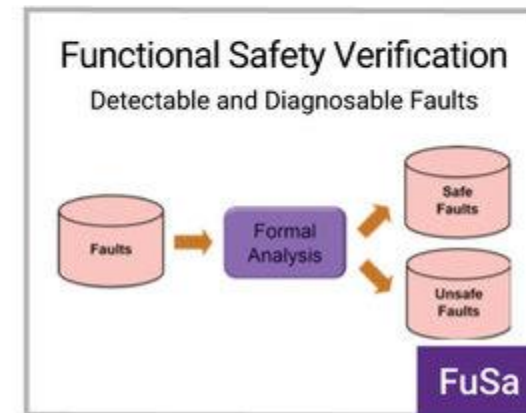
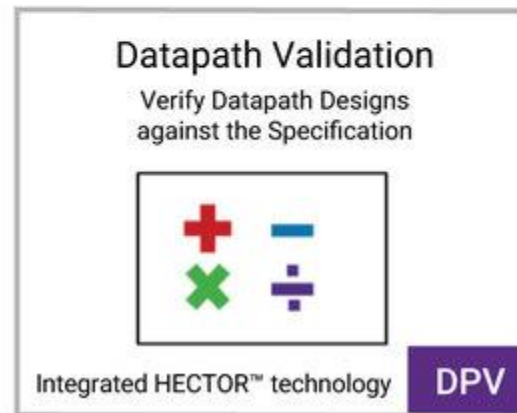
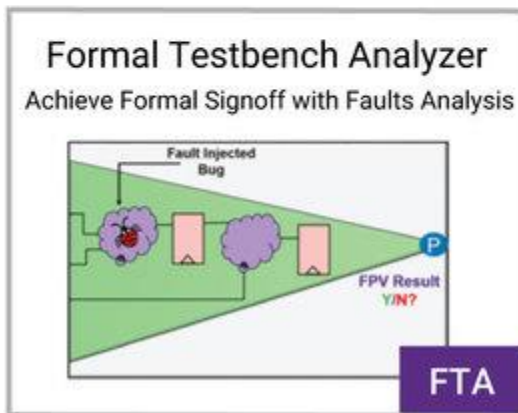
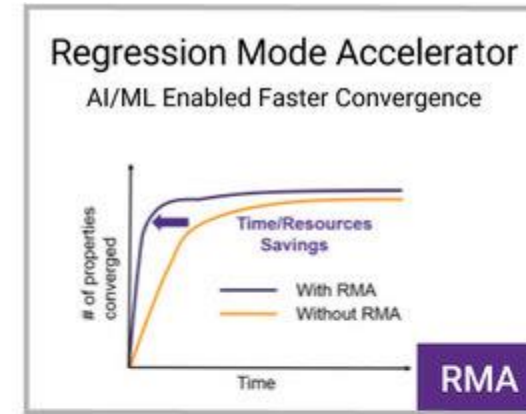
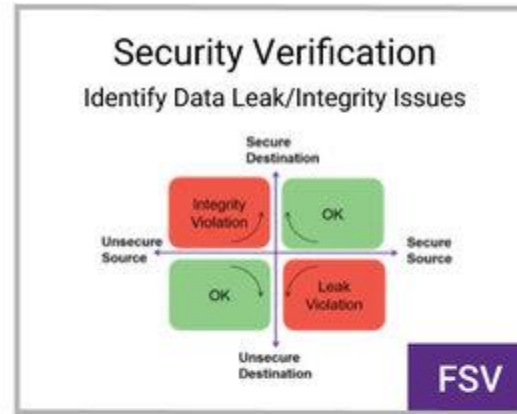
The Precautionary Principle



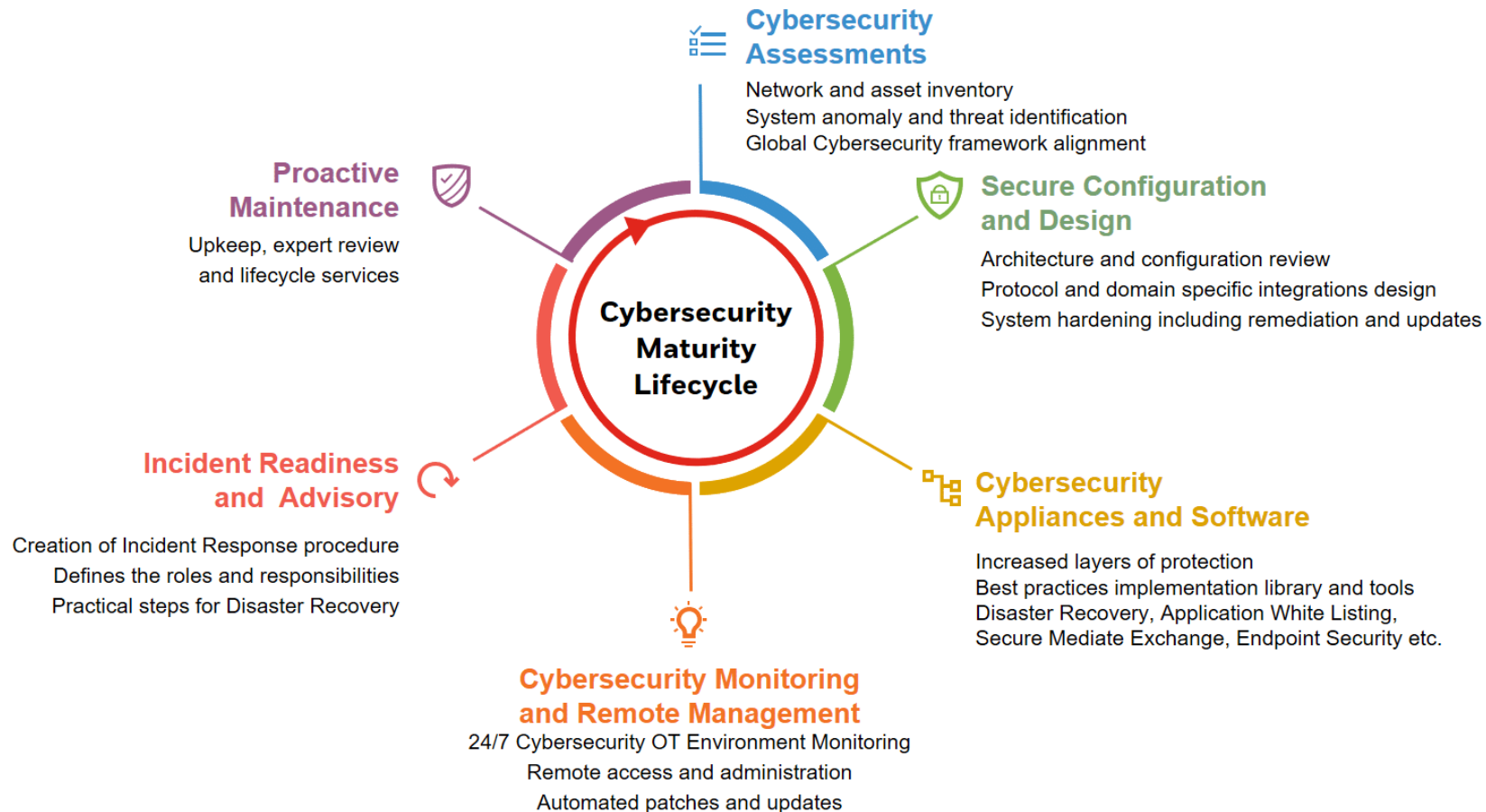
Security Economics



Verification and Formal Methods



Security Architecture and Lifecycle



جزاك الله

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(This group is only for members to ask questions)