



Integrating Strategic Threat Intelligence and FAIR at Fannie Mae

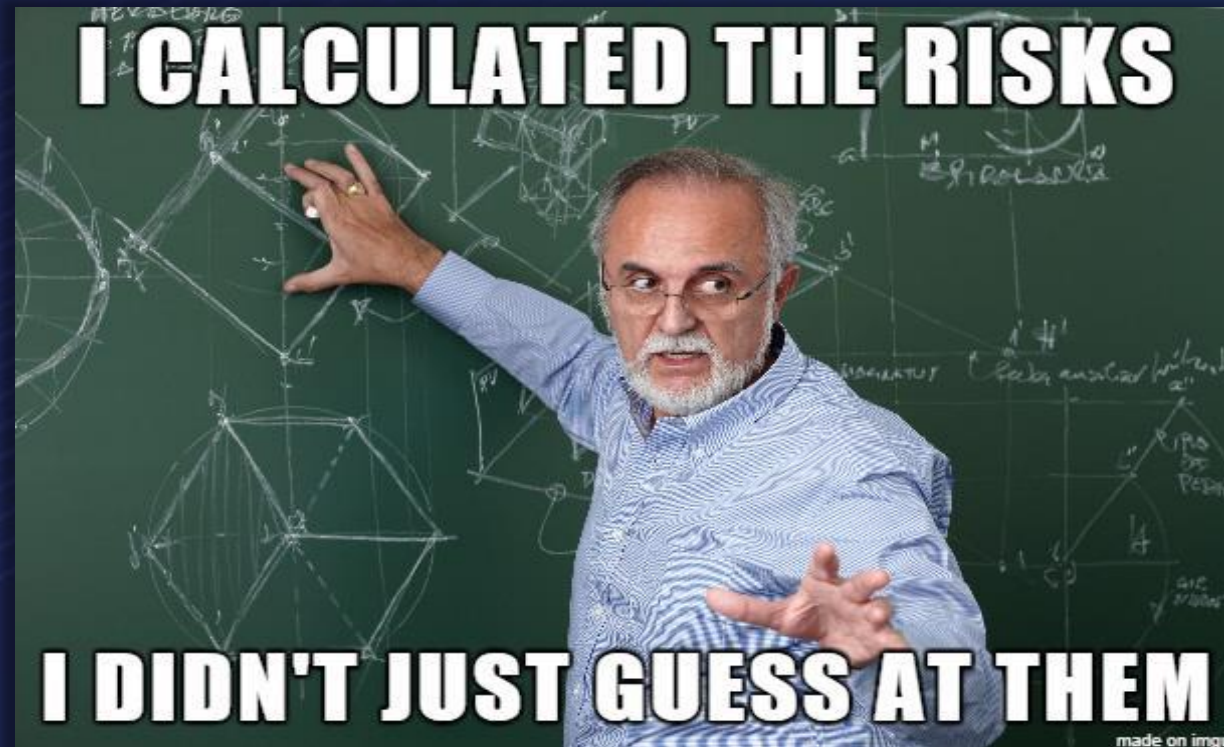
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Establishing a FAIR Program



Establishing a FAIR Program

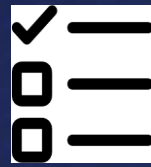
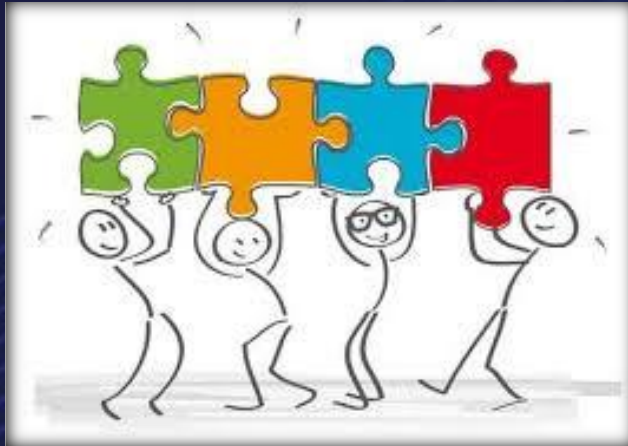


- 2019** **Maturing FAIR Program**
Establishing Risk as a Service
- 2018** **Relaunched FAIR program**
Coupled Cyber Risk and Cyber Intelligence
- 2017** **Risk Management with FAIR**
Leveraged RiskLens platform with goal of assisting project prioritization.
- 2016** **Risk Management without FAIR**
Primarily Compliance based risk responses

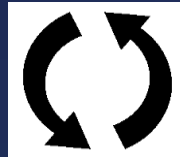
Cyber Risk & Cyber Intelligence: The Perfect Match



Cyber Risk & Cyber Intelligence



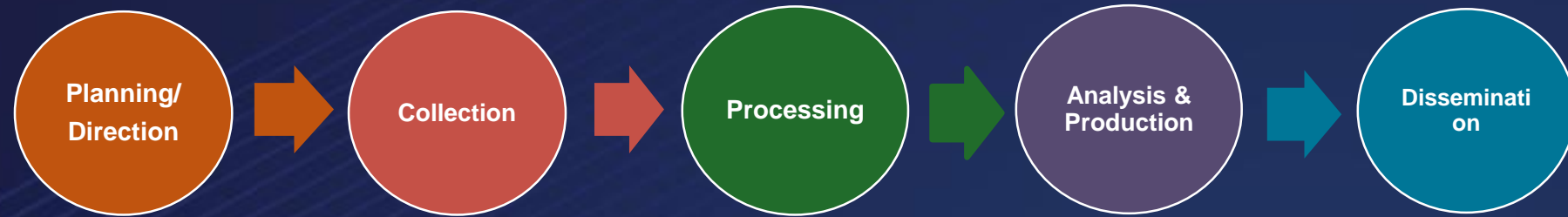
Parallel Lifecycles



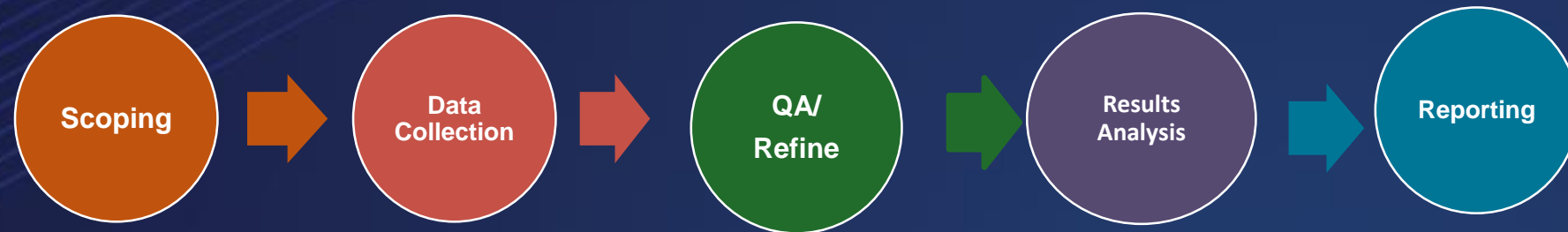
Reciprocal Relationship

Parallel Lifecycles

Intelligence



Scenario Analysis



Reciprocal Relationship

What does Cyber Intelligence entail?

- Monitor threat landscape - geopolitical tensions & potential shifts victimology
- Identify & Assess TTPs (tools, tactics, and procedures)
- Analyze IOCs (indicators of compromise)
- Partner with Incident Detection & Response teams to respond to active incidents

How does this assist with FAIR work?

1. Supports prioritization of analyses based on current and emerging cyber activity trends
2. Helps identify feasible and/or likely attack paths for scenario development
3. Informs a more in depth understanding of threat communities/TCAP



Reciprocal Relationship

What does FAIR work entail?

- Cross functional dialogue across the enterprise for data collection
- Identifies gaps in the control environment impacting security posture
- Supports a continuous monitoring and risk management function

How does this assist with Cyber Intelligence work?

1. Facilitates stronger internal collaboration amongst teams that are traditionally external focused.
2. Provides the lexicon of terms to convey potential impacts from cyber events that resonate with leadership.
3. Enhances the trusted advisory role expectation of this function.



Maturing the FAIR Program



The Next Frontier

Quantify the risks associated with assets that support strategic investments using finite resources in the pursuit of business objectives.

Foundational Elements

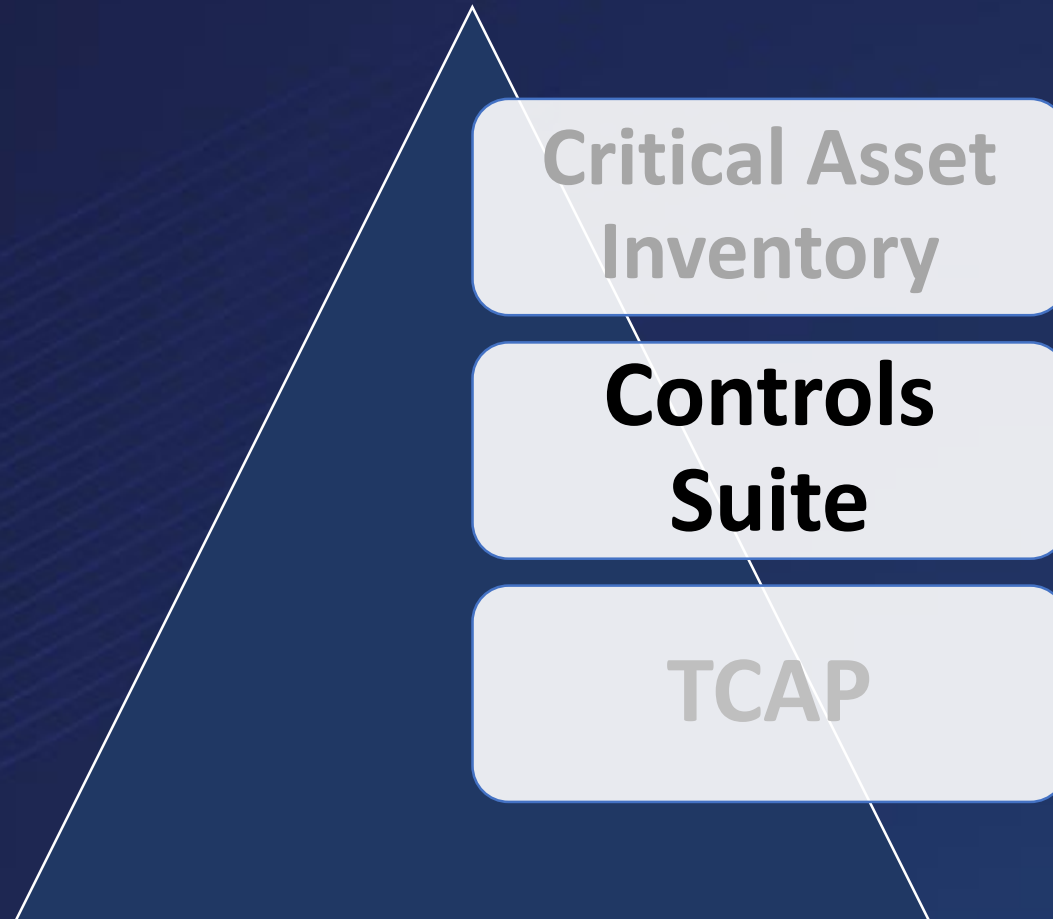


Foundational Elements



Do you have comprehensive visibility into the assets that are mission critical to the enterprise?

Foundational Elements



Are you measuring the efficacy of your suite of controls protecting those assets?

How are you monitoring those controls for real-time anomalies?

Foundational Elements



Do you have insight into the TTPs employed by Threat Actors that could penetrate your controls suite and cause damage to your critical assets?

Questions?