



SECS2797 Building threat-driven use cases for the real-world with iDefense intelligence

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Agenda

Use Case Overview

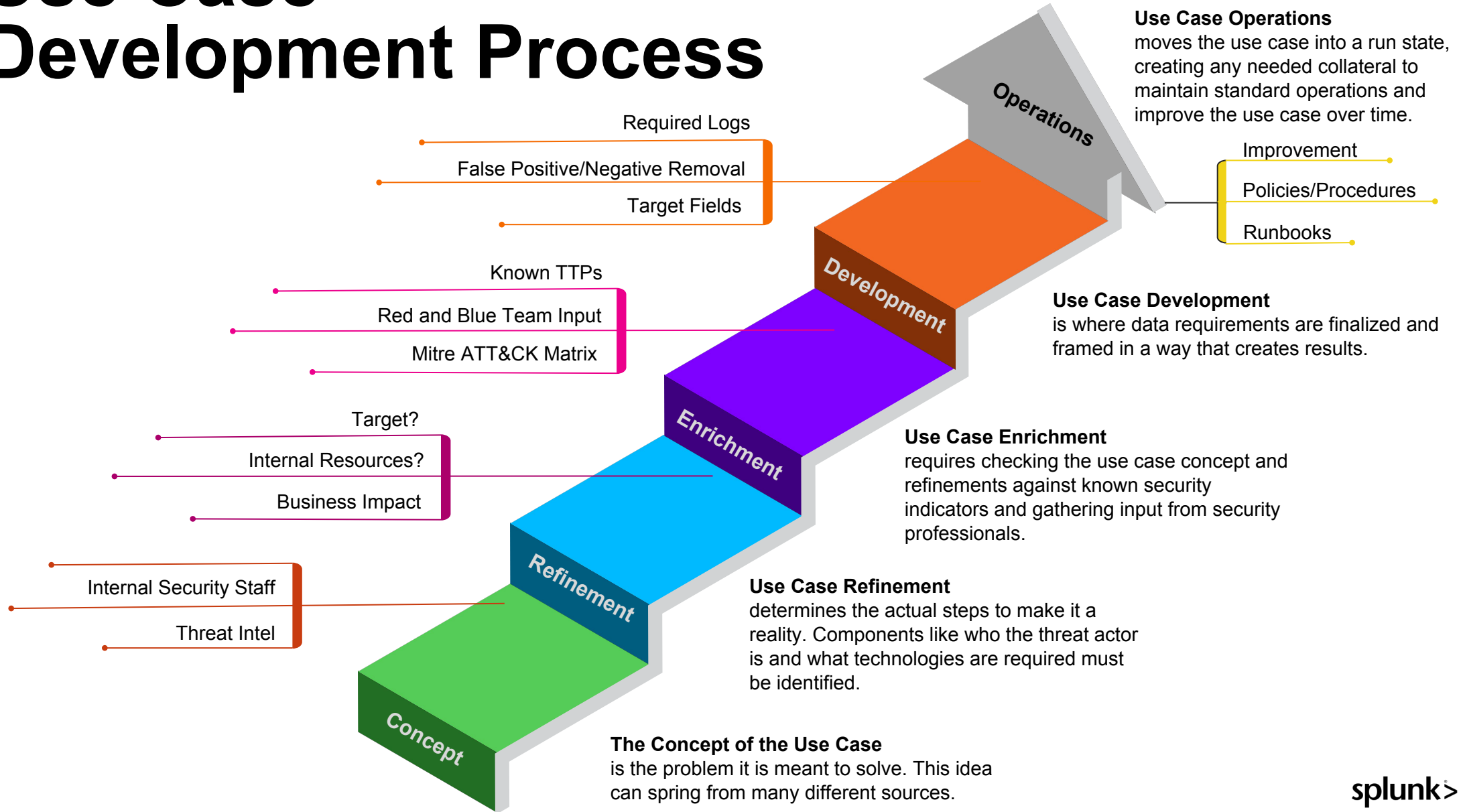
Sample Walkthrough

- Threat Actor Review
- Threat Actor Analysis
- Detailed Use Case Definition
- Use Case Prioritization

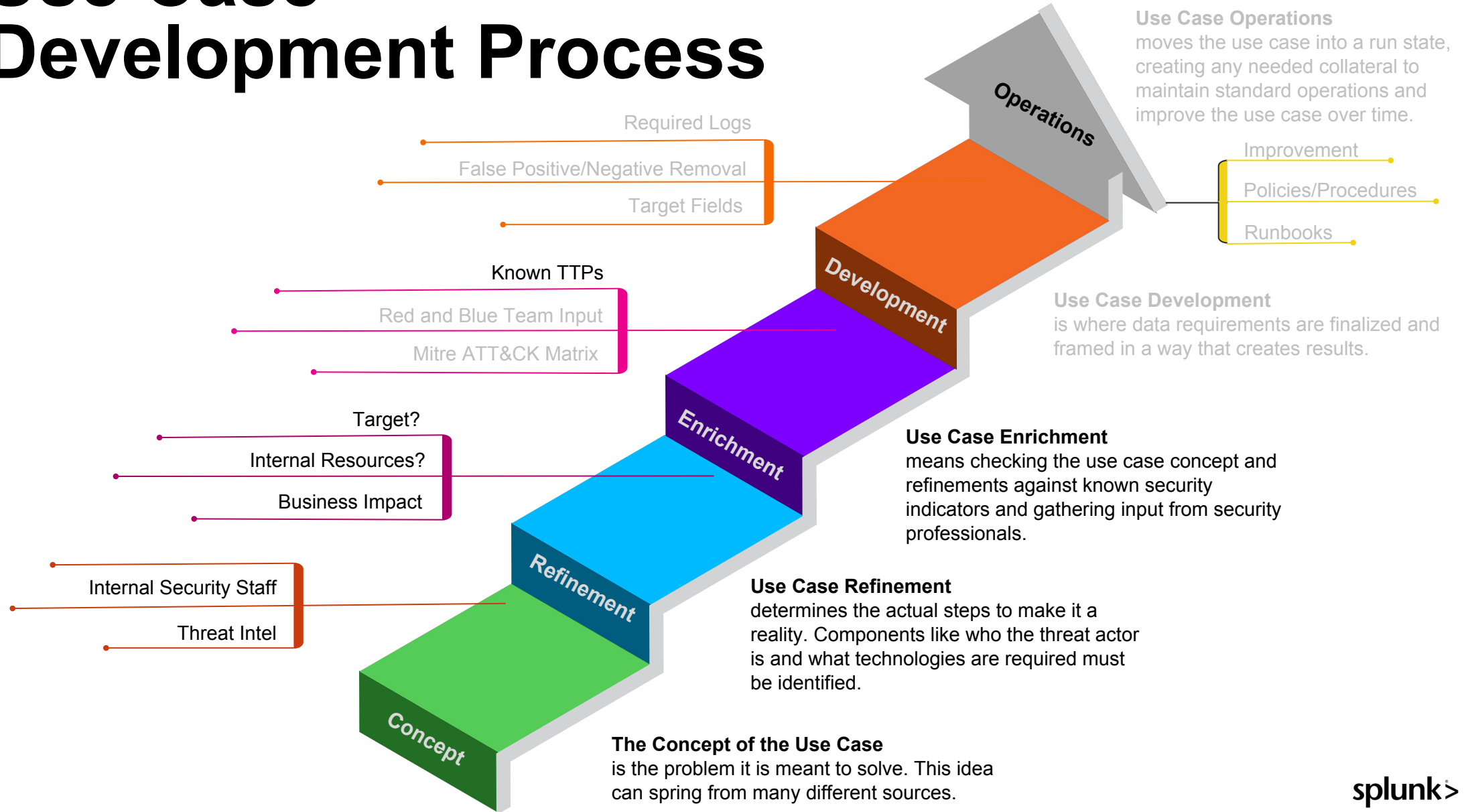


Use Case Overview

Use Case Development Process



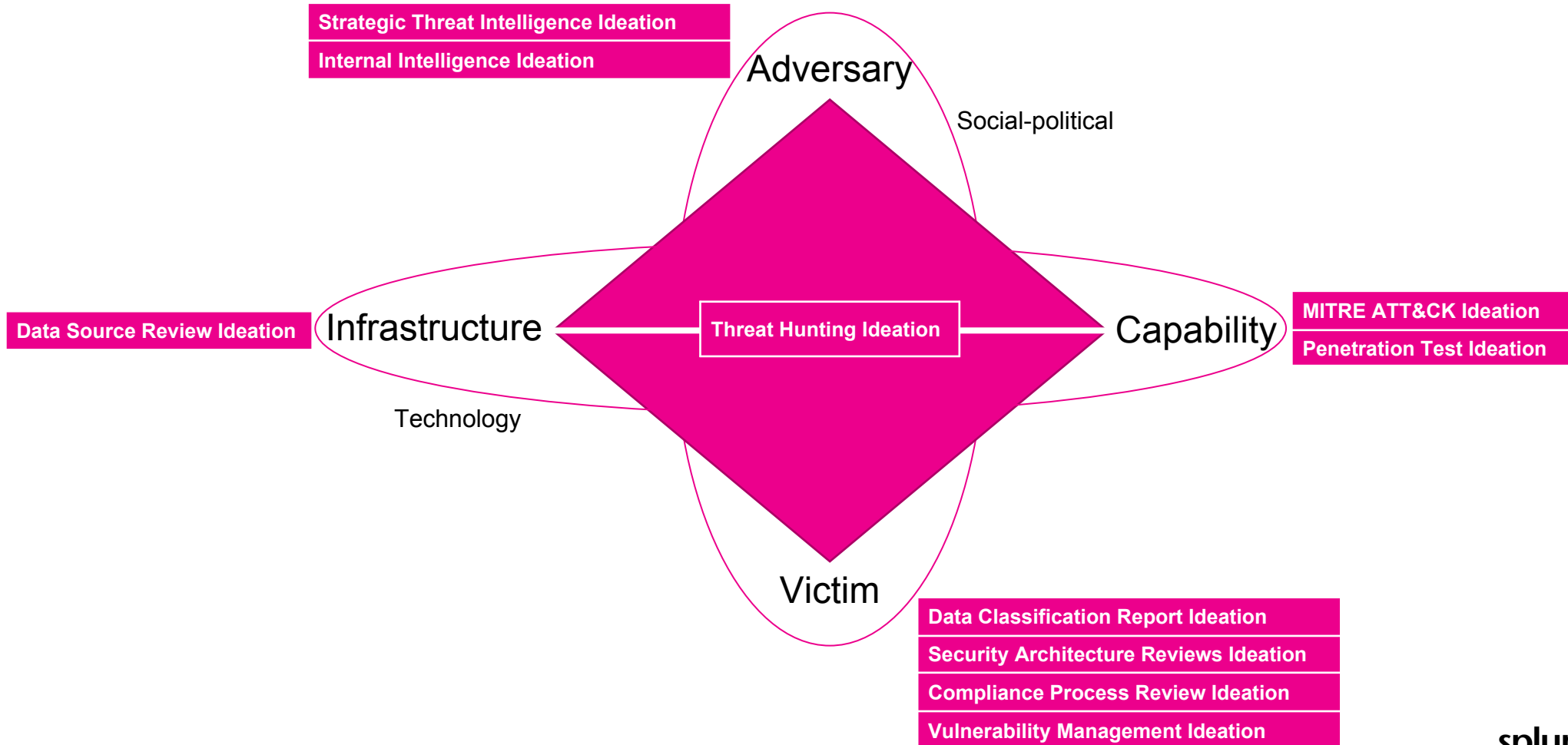
Use Case Development Process



10 Sources of Use Case Inspiration

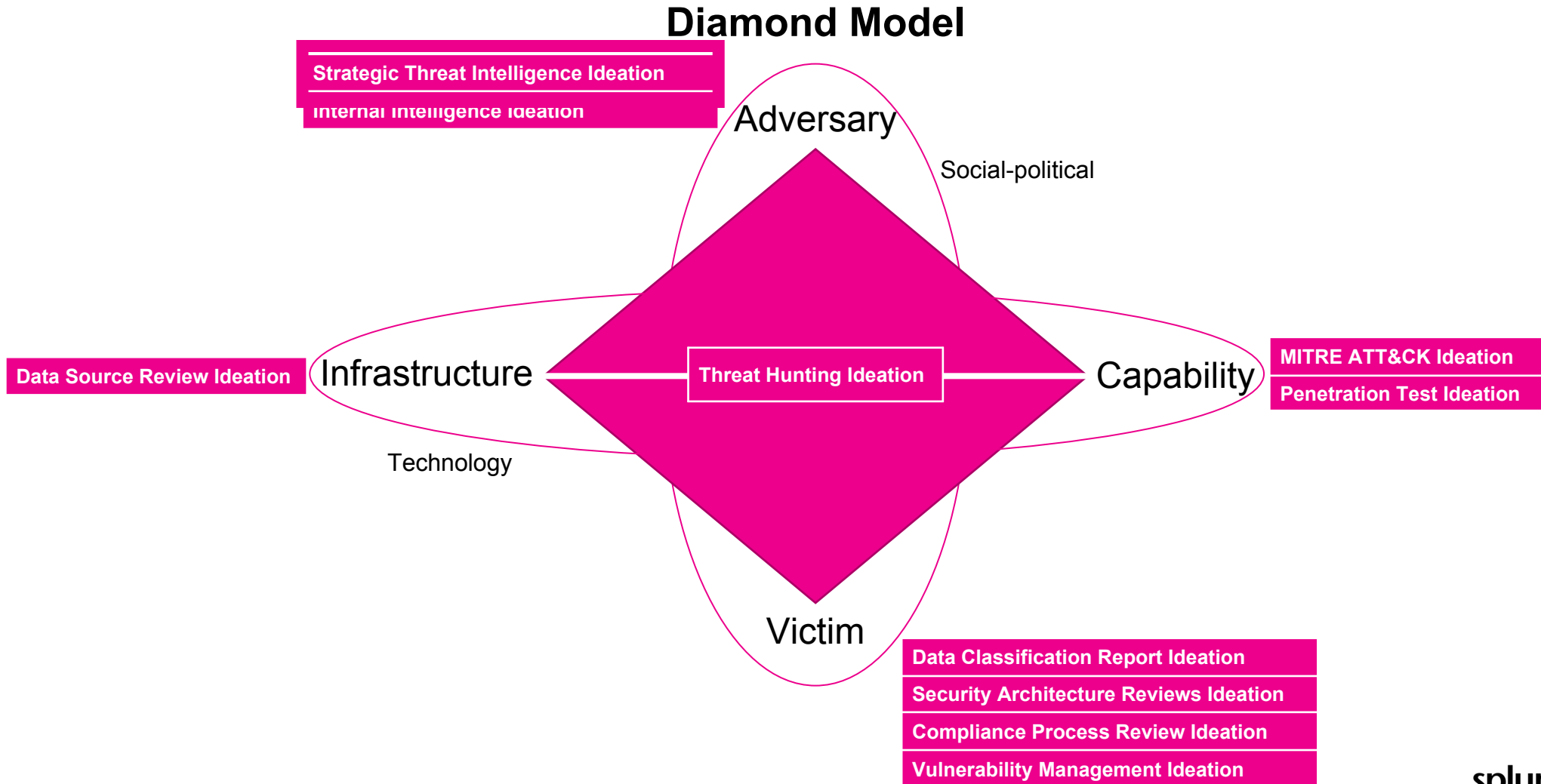
Look to understand the vertices of the Diamond Model within your organization to find sources of inspiration of your use case ideation.

Diamond Model



10 Sources of Use Case Inspiration

Look to understand the vertices of the Diamond Model within your organization to find sources of inspiration of your use case ideation.





Example Walkthrough

Process Overview

Develop industry-threat focused use cases

- Identify the threat actors relevant to industry
- Review threat actor-specific tactics, techniques, and procedures
- Identify use cases relevant to the business
- Map use cases to both existing and new data sources
- Prioritize implementation based on the specific threats

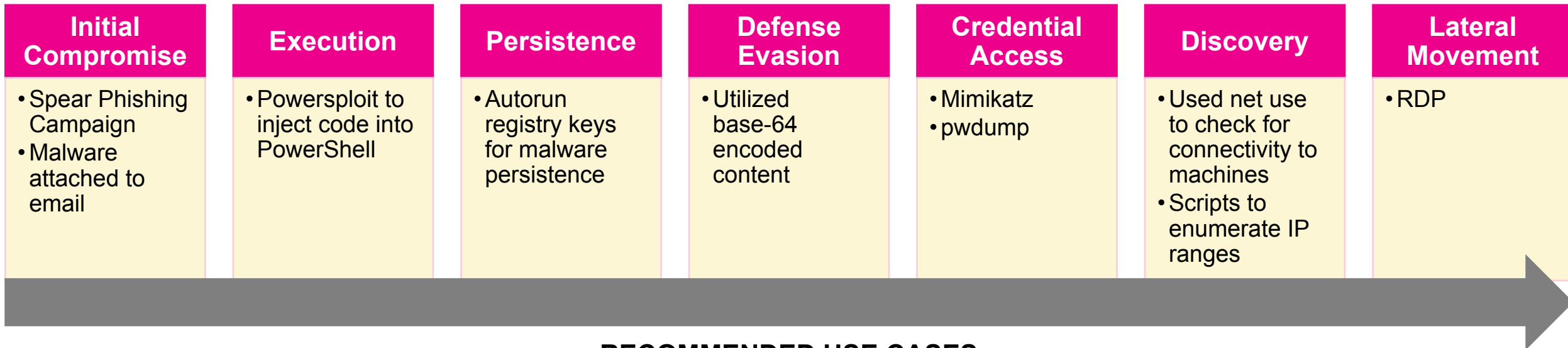




HOGFISH Threat Actor

Sample threat actor analysis

The HOGFISH threat group has been operational since 2009. HOGFISH actors have conducted supply-chain focused attacks, where the initial action on objective is to compromise an MSP in order to subsequently gain access via legitimate, compromised user credentials to their client's networks for exfiltration of sensitive information.



RECOMMENDED USE CASES

1

Monitor for malicious start-up tasks

2

Monitor for external emails from unknown domains with attachments

3

Monitor for common hacker tools

Use Case Sample

Sample use case for HOGFISH Persistence

Use Case Name:	Malicious Start-up Tasks
Threat Scenario	Threat establishes scheduled tasks, startup items or cronjobs to maintain persistence
Objective	Prevent competitors and malicious entities from creating malicious start-up tasks to establish malware persistence
Stakeholders	SOC
Tools	Splunk, Cylance, Carbon Black
Data Requirements	Windows, CrowdStrike, Cylance, Carbon Black, CyberArk
Logic	Alert on: <ul style="list-style-type: none">• Unknown startup items• Unknown cron jobs• schtasks usage• Run registry key changes

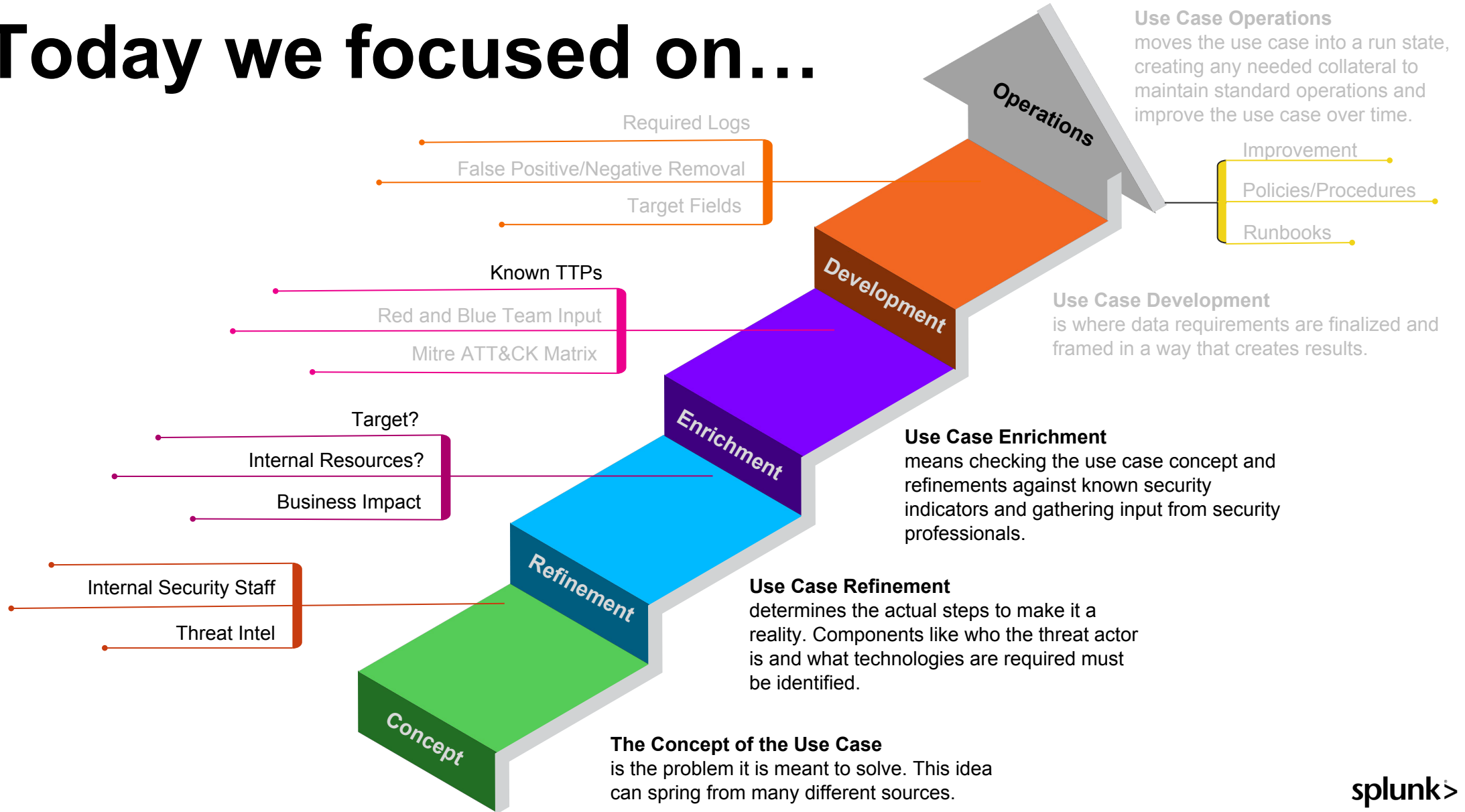
Prioritize Use Cases

- How severe is the threat? What is the impact to the business?
- Is the required data already available? How difficult will it be to get the required data?
- Are there existing compensating controls to prevent this activity?
- Do you have existing detection content for similar TTPs?
- Are there clear actions to investigate and respond to the use case?

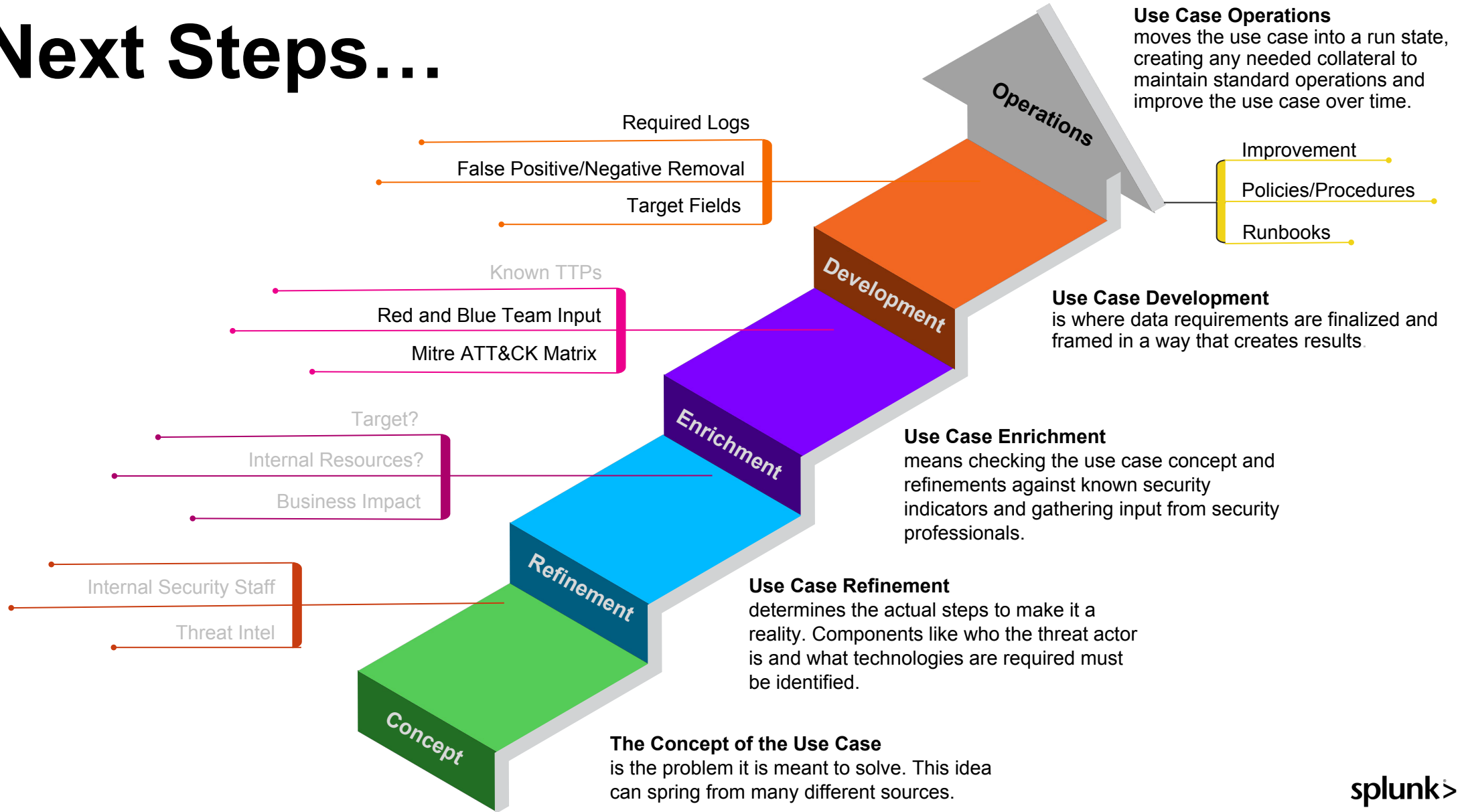


Recap

Today we focused on...



Next Steps...



Key Takeaways

1. There are multiple sources of use case ideation to proactively detect threats
 - ACTION: review your current ideation processes for additional use case sources
2. Threat intelligence serves as a valuable source of detection content beyond simple indicator matching
 - ACTION: review your latest threat intel briefs to identify attacker TTPs for potential use cases
3. Security use cases require response to be effective
 - ACTION: validate your current detection rules are aligned to response processes



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Thank

You



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