



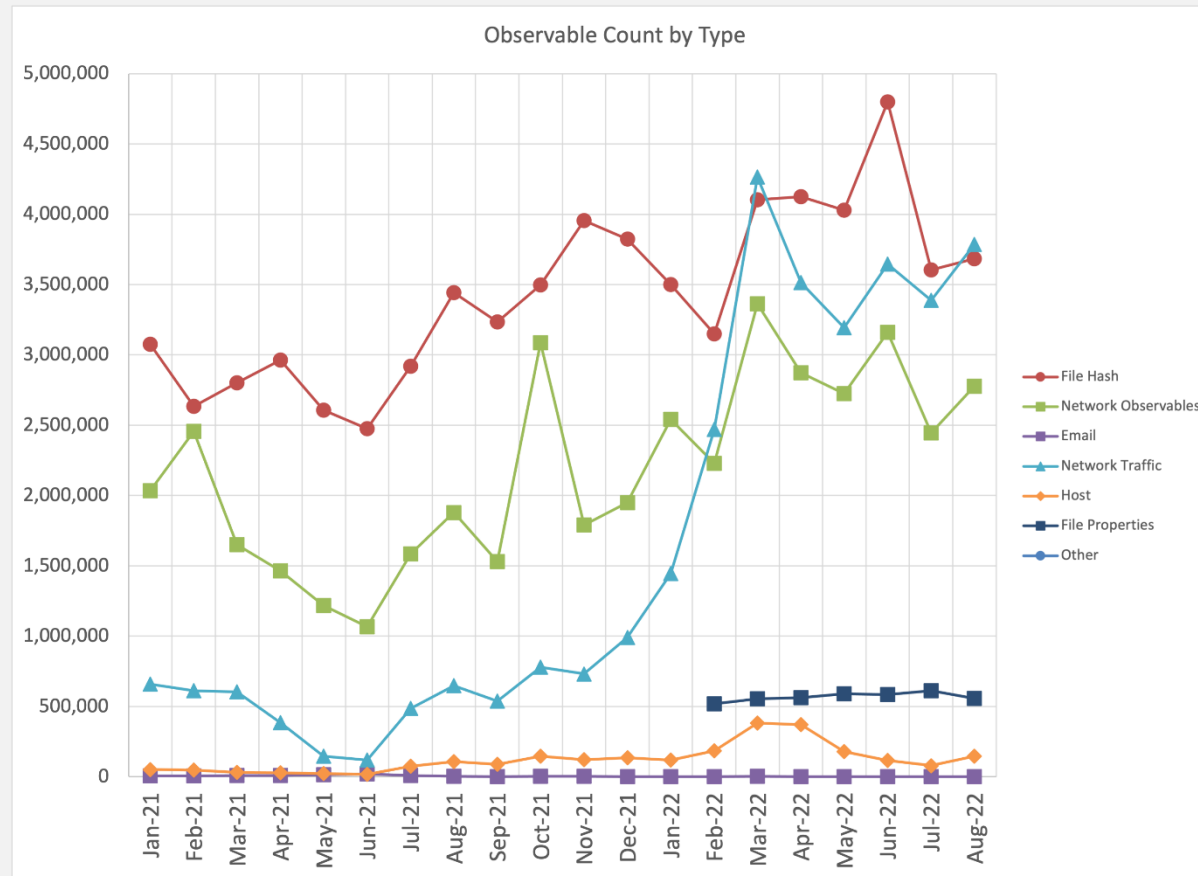
THREAT INTELLIGENCE PRACTITIONERS' SUMMIT

Tips for Vetting and Generating Value in Automated TI

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The Glut



Courtesy: Cyber Threat Alliance

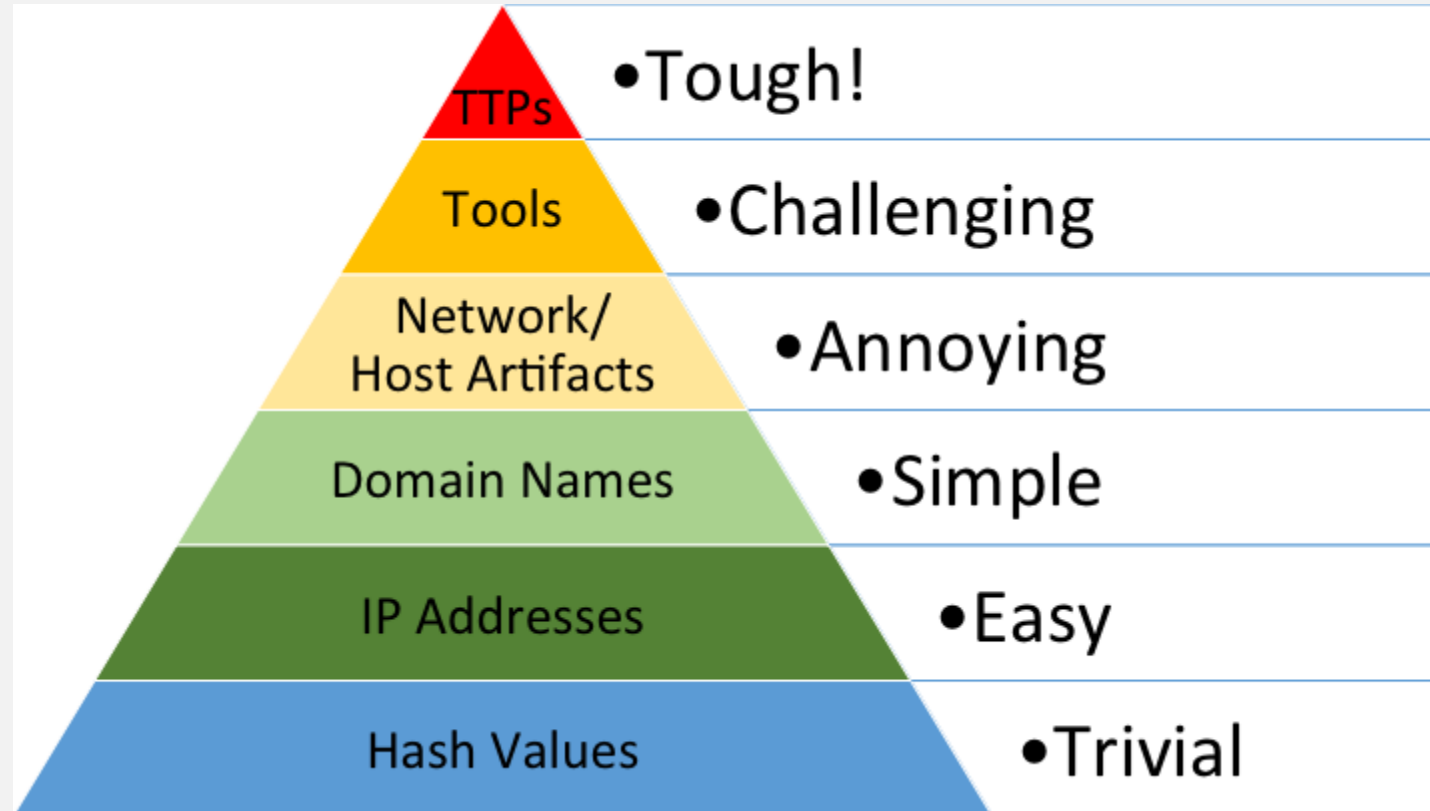


Fundamental Principles of TI Efficacy

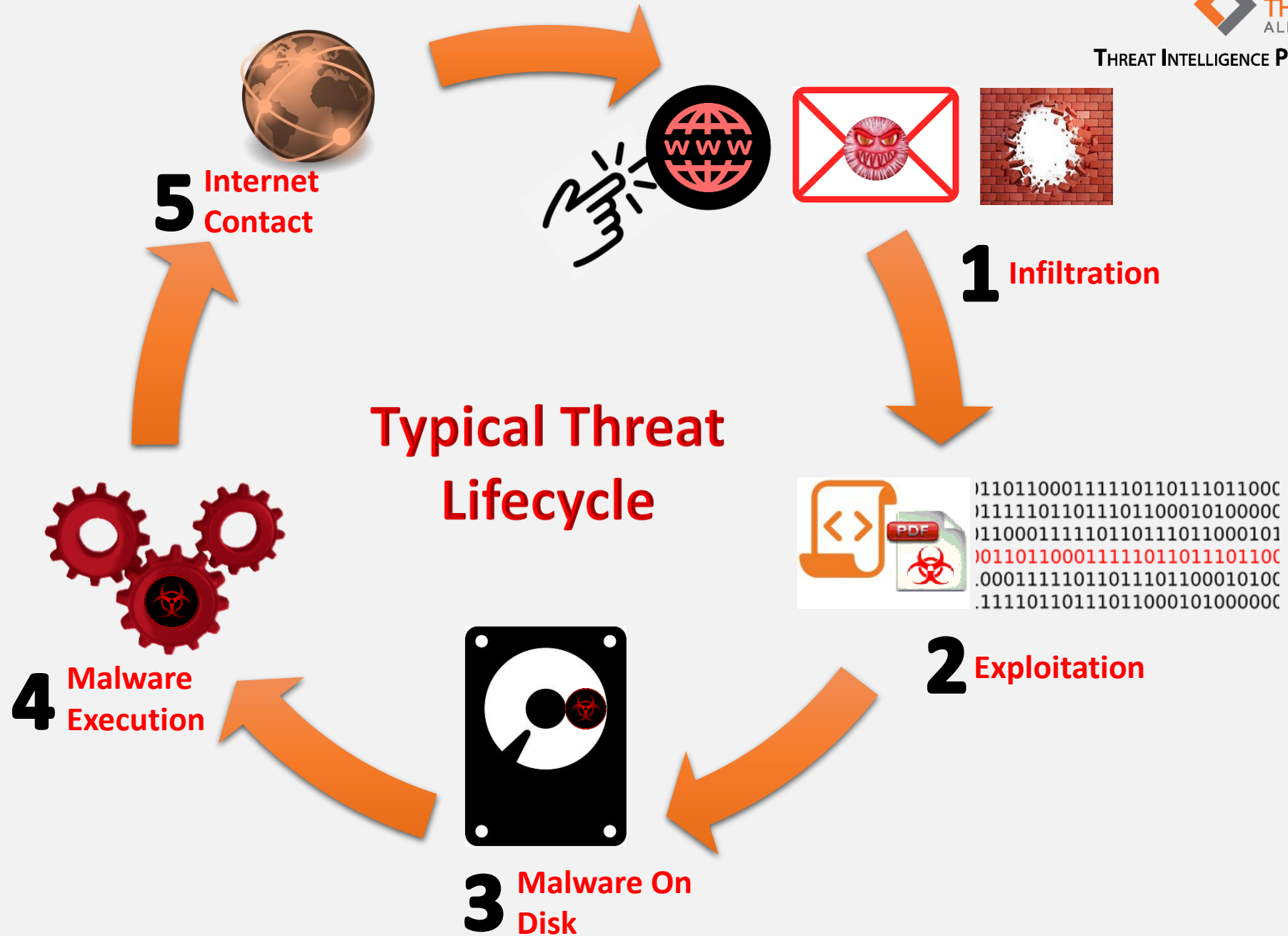
1. **Relevant:** Give the recipient only useful data
2. **Actionable:** Give the recipient only data which can be acted upon
3. **Timely:** Give the recipient the relevant and actionable data ASAP

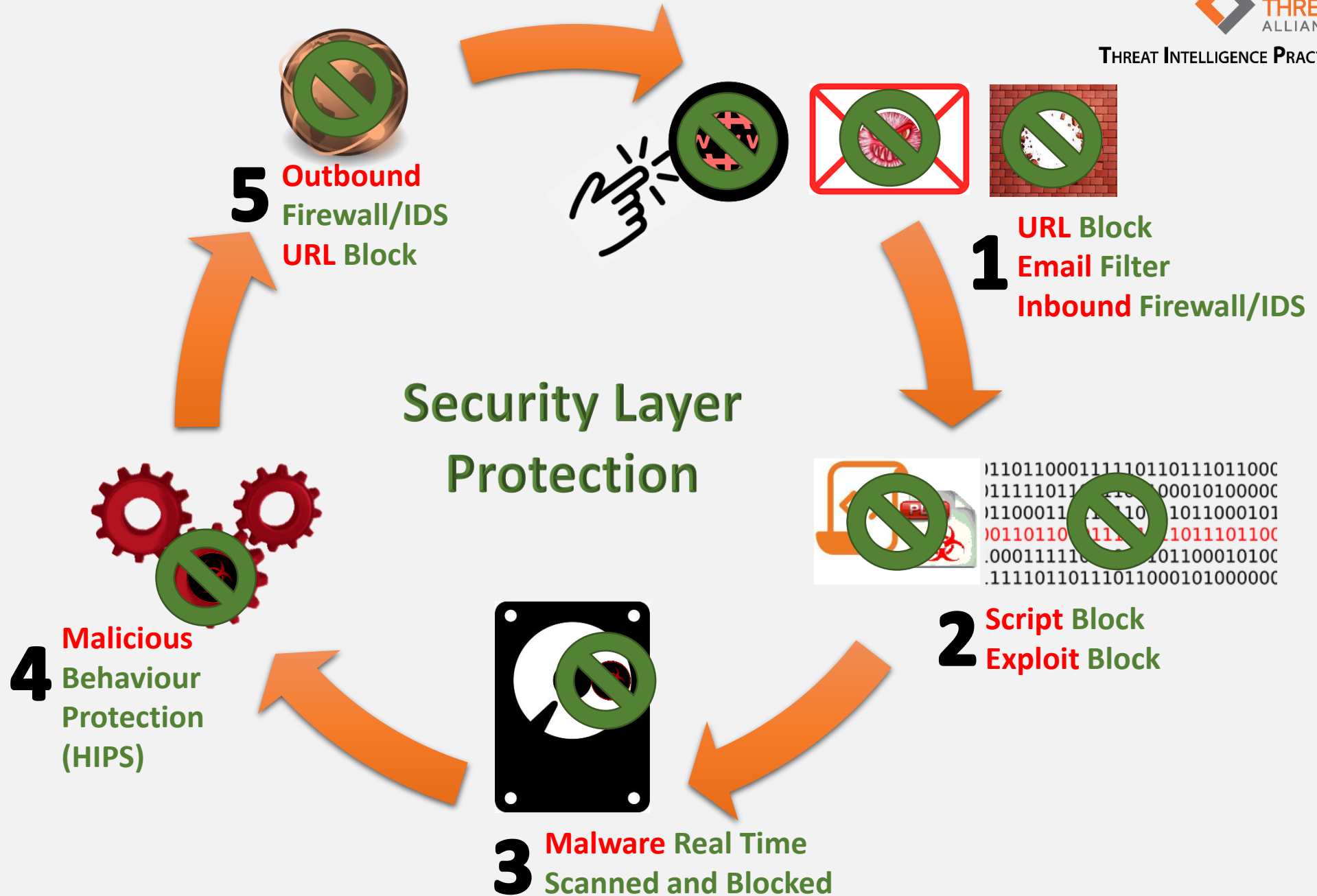


Pyramid of Pain



Courtesy: David J Bianco







C2s/Payloads

- URLs
- Domains
- IPs & Ports

5 Outbound Firewall/IDS URL Block



1 URL Block Email Filter Inbound Firewall/IDS

URLs
Domains
Sender@Email
IPs & Ports
Snort Rules?

Valuable Threat Intel

Artefact Filepaths
Registry Entries
Mutexes
ATT&CK IDs

4 Malicious Behaviour Protection (HIPS)



2 Script Block Exploit Block

Artefacts
CVEs (know-how /mitigations)



3 Malware Real Time Scanned and Blocked

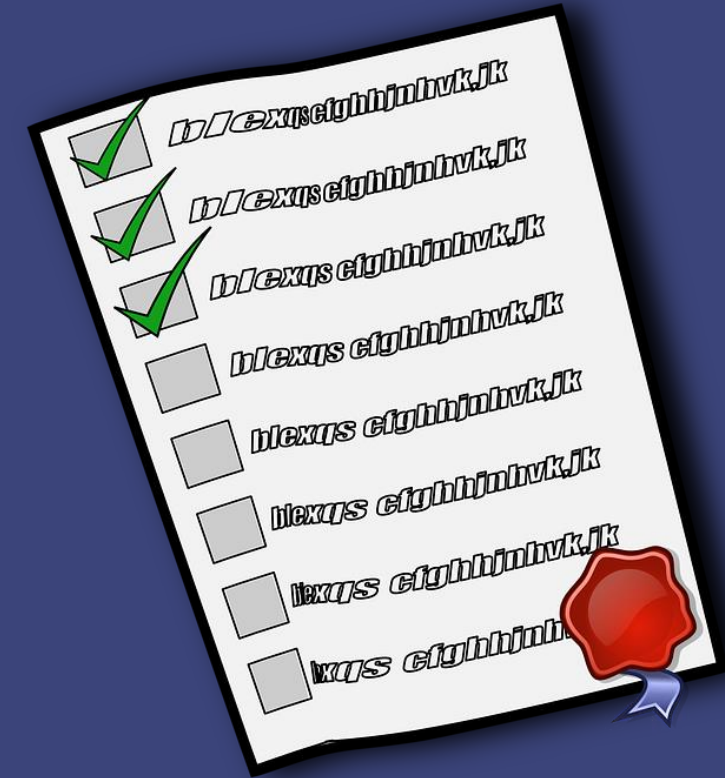
Artefacts
Hashes
Yara Rules?





Vetting External TI Feeds

Fundamental Principles	Criterion
Actionability Relevance	What types of objects?
Relevance	Do we already have the same samples?
Timeliness	When did we first know about them?
Relevance	Do we have any of the samples in our whitelists?
Relevance	Are they already detected?
Relevance	How many detections created post evaluation?
Relevance Actionability	How many samples submitted in total?



Generating Valuable Automated TI

Telemetry

Real-world

Threat events (malware context)

Unique (geo, timestamp)

Real-time (almost)



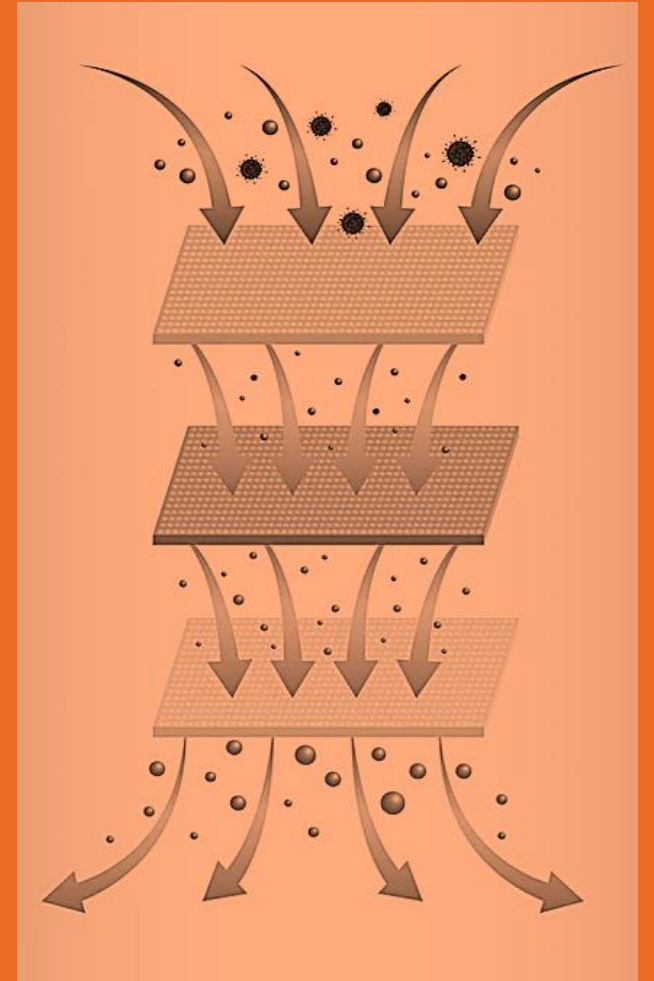
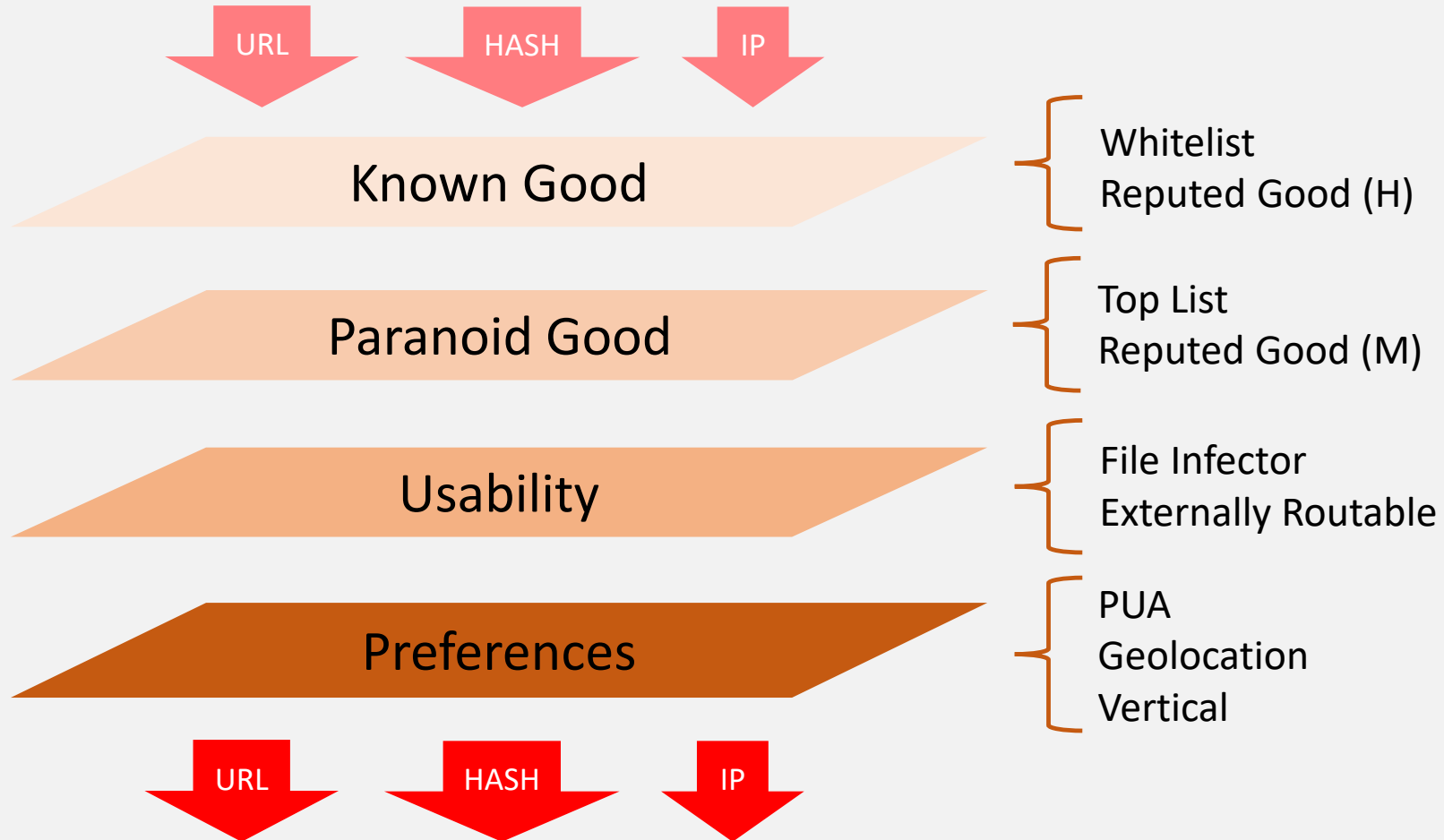
Purified Telemetry

We know the use cases. We want to be able to provide TI to match those contexts.



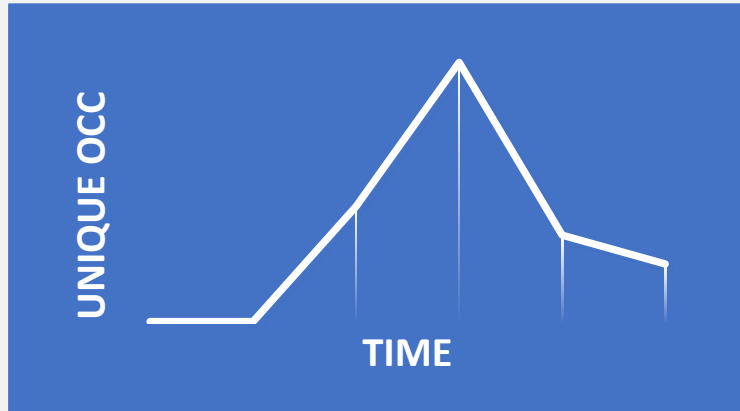


Validation of Telemetry Data (Obvious)





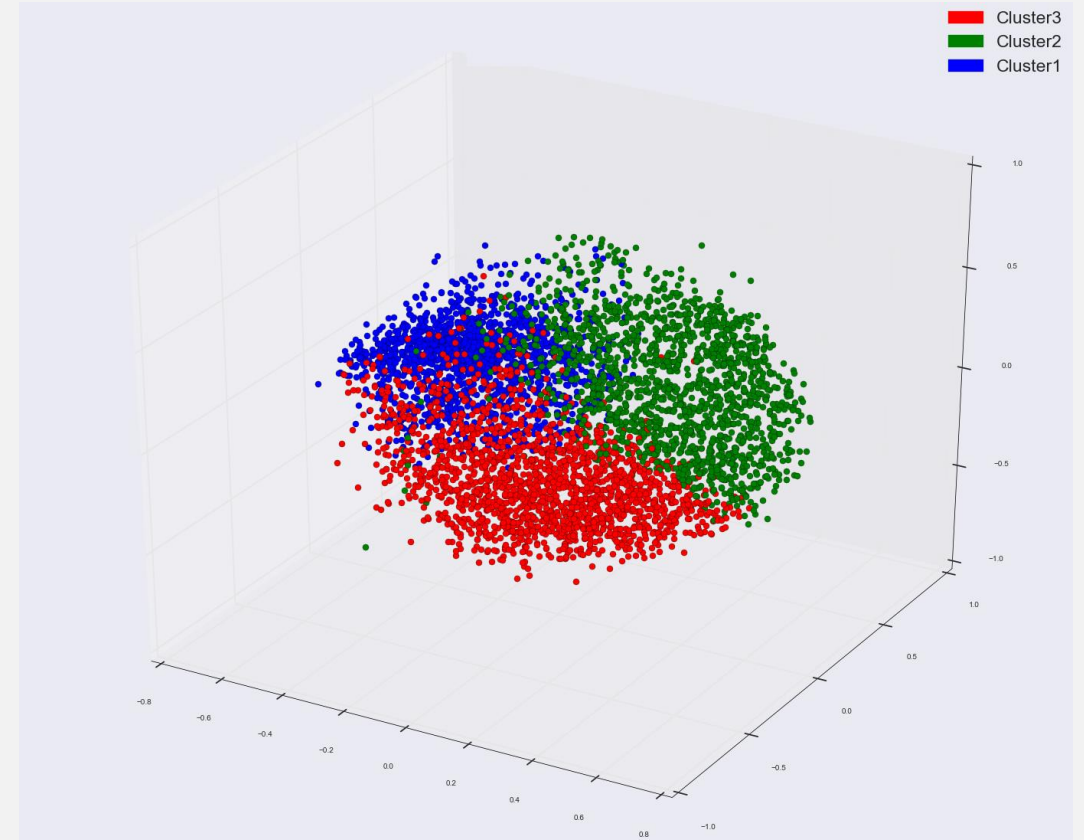
Correlation of Telemetry Data (Subtle)



Upstream



Downstream





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Questions ?

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