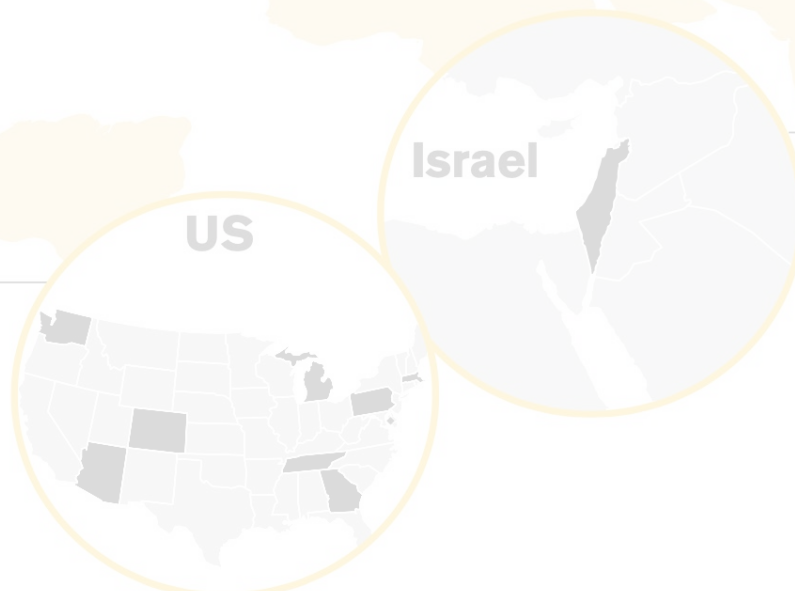


Arizona	  
Colorado	
Georgia	
Tennessee	
Massachusetts	
Michigan	
Pennsylvania	
Washington	
Washington, DC	

Task 6

Threat hunting

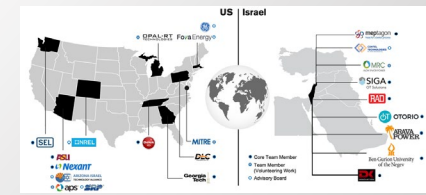


Q1 - Jan. 24, 2022

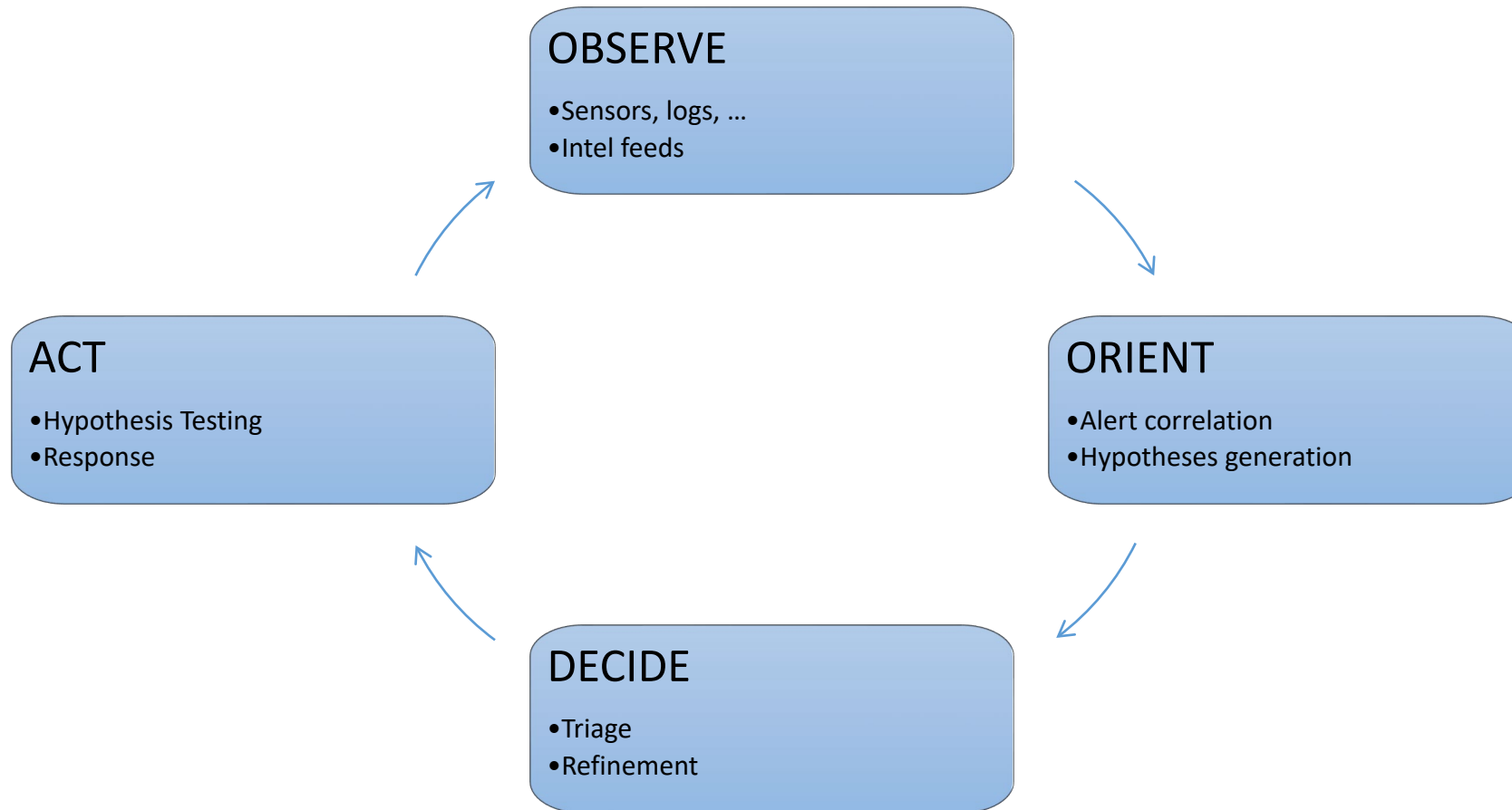
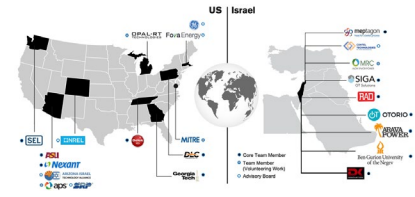


Cyber threat intelligence (CTI)

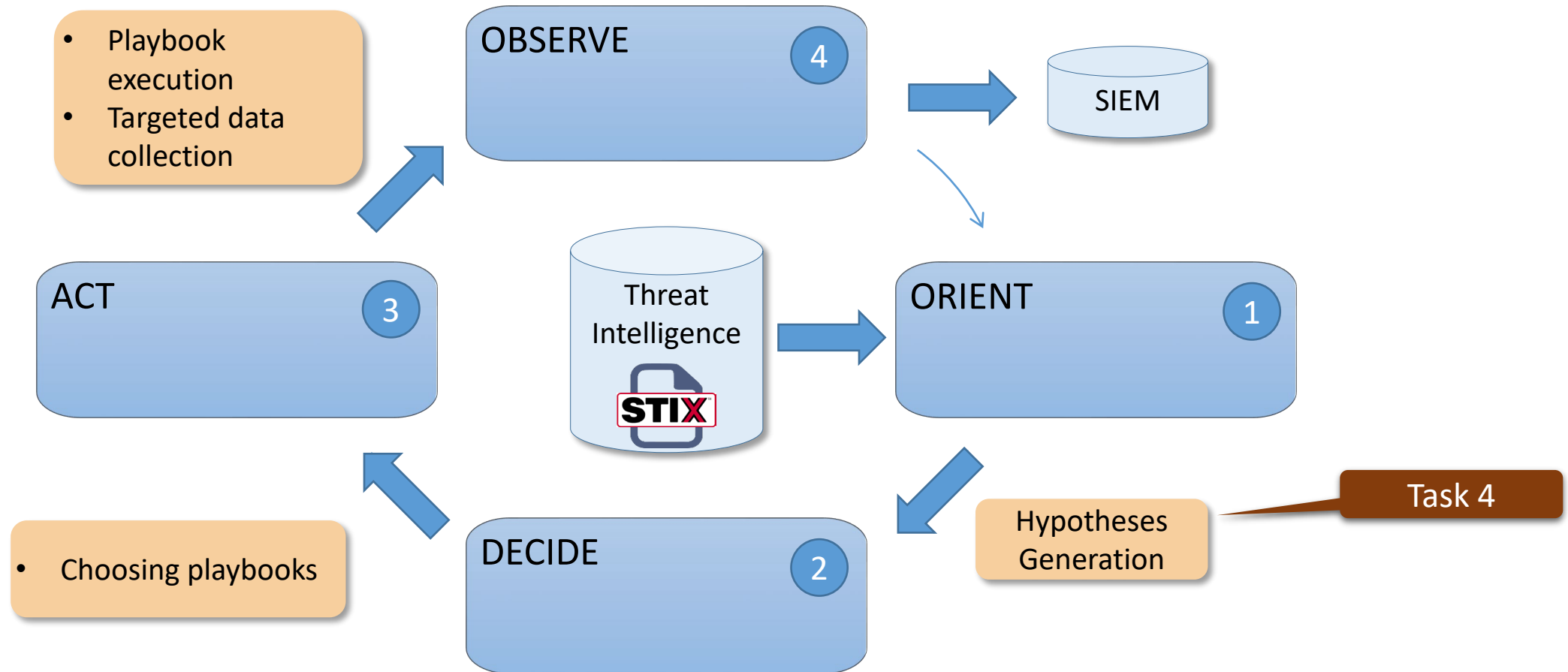


- **Structured and actionable** information for identifying adversaries and their motives, goals, capabilities, resources, and tactics
- **Evidence-based knowledge** in the form of measurable events and the context for the events' interpretation.

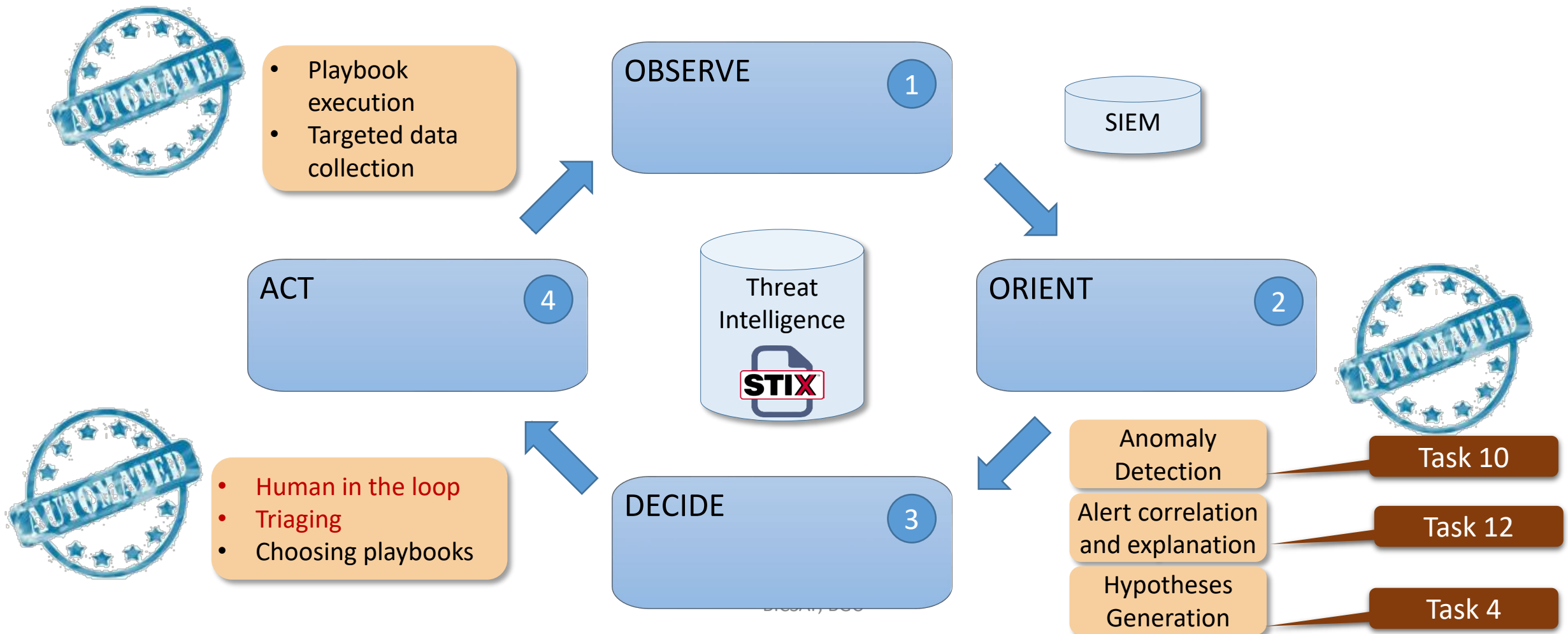
The OODA loop in Threat Hunting



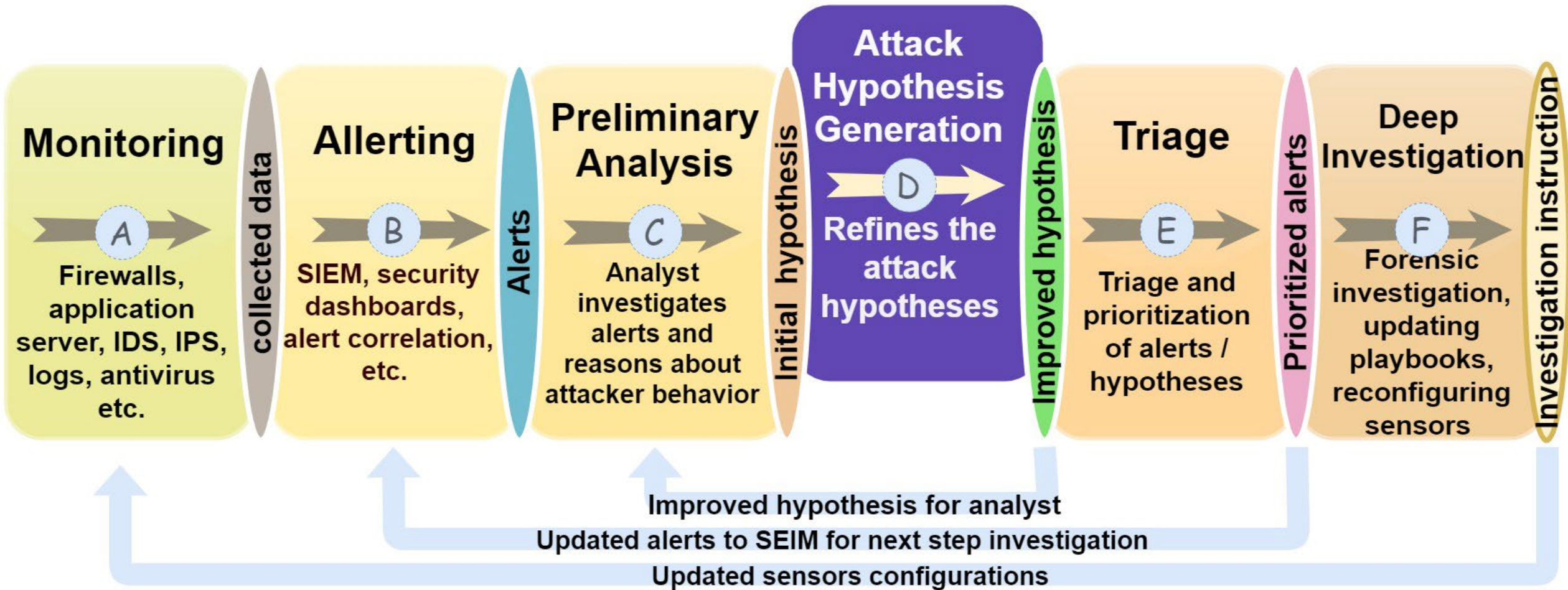
The OODA loop in Threat Hunting – Proactive



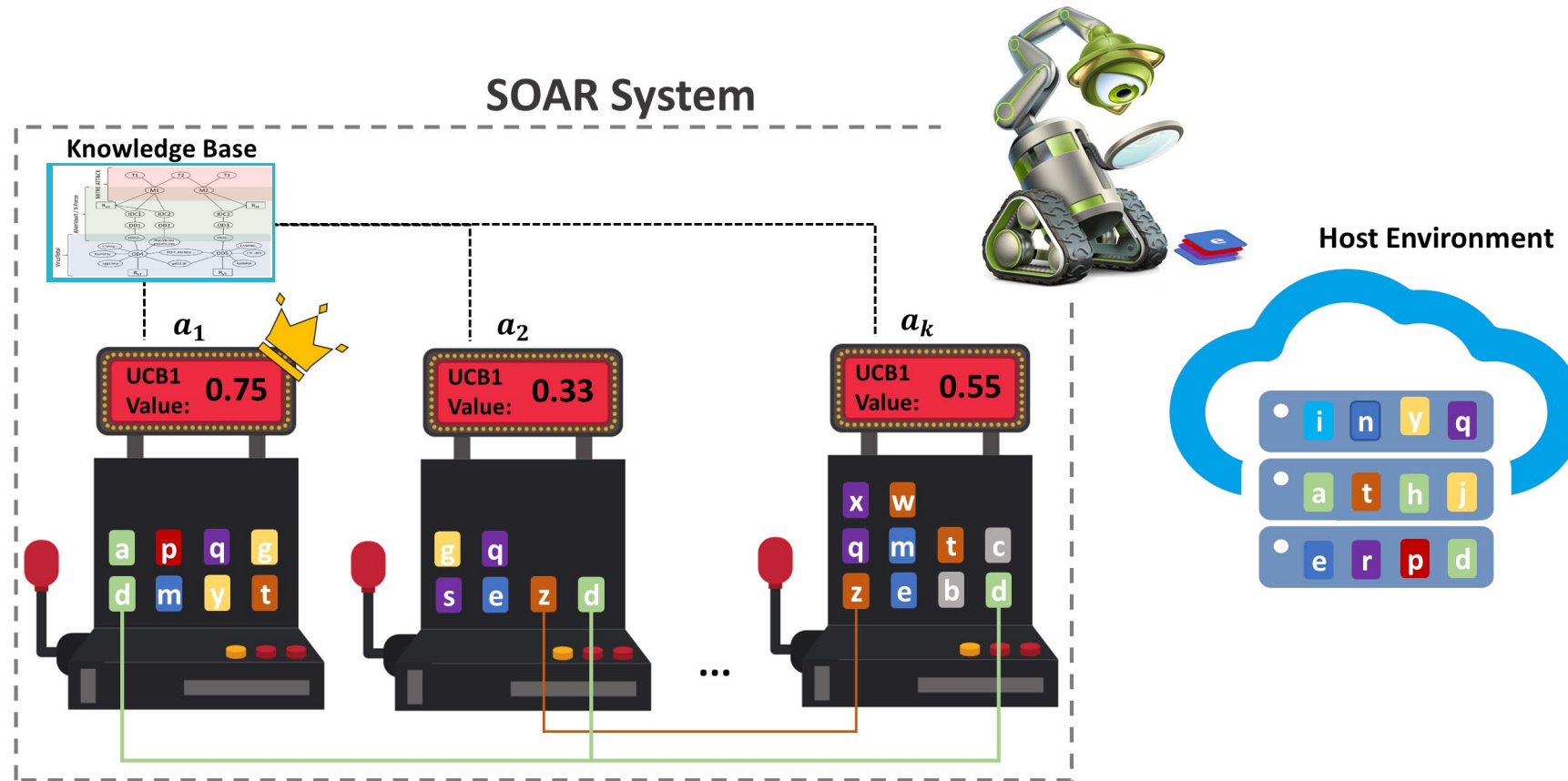
The OODA loop in Threat Hunting – Reactive



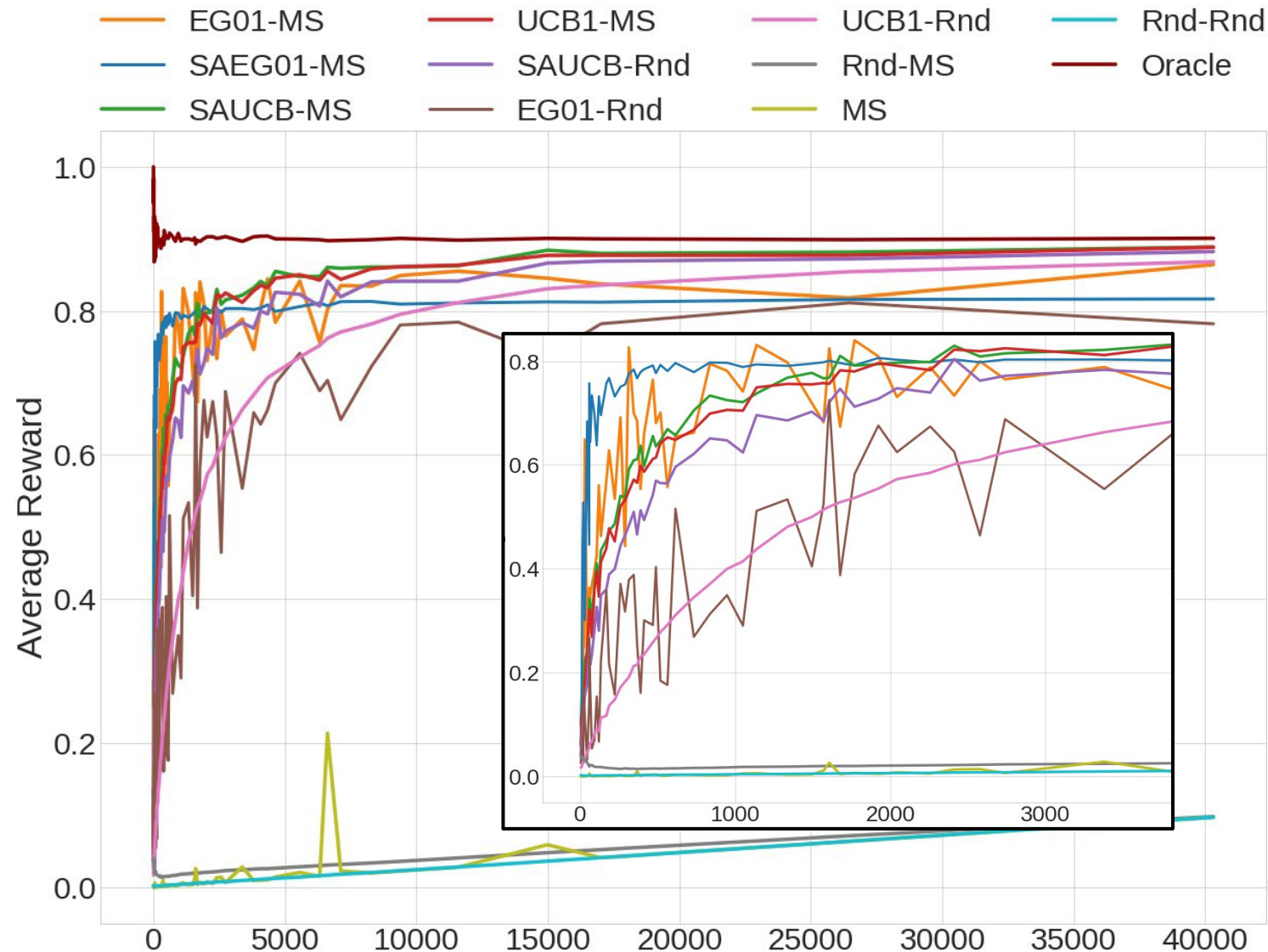
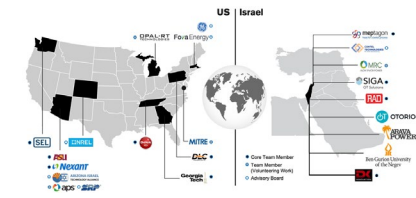
Attack Hypotheses Generation



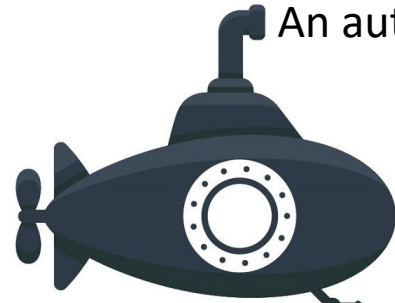
Exploration exploitation tradeoff in security orchestration automation and response (SOAR)



Multi-armed bandit policies for threat hunting



An autonomous deep dive into for advanced cyber-security forensics

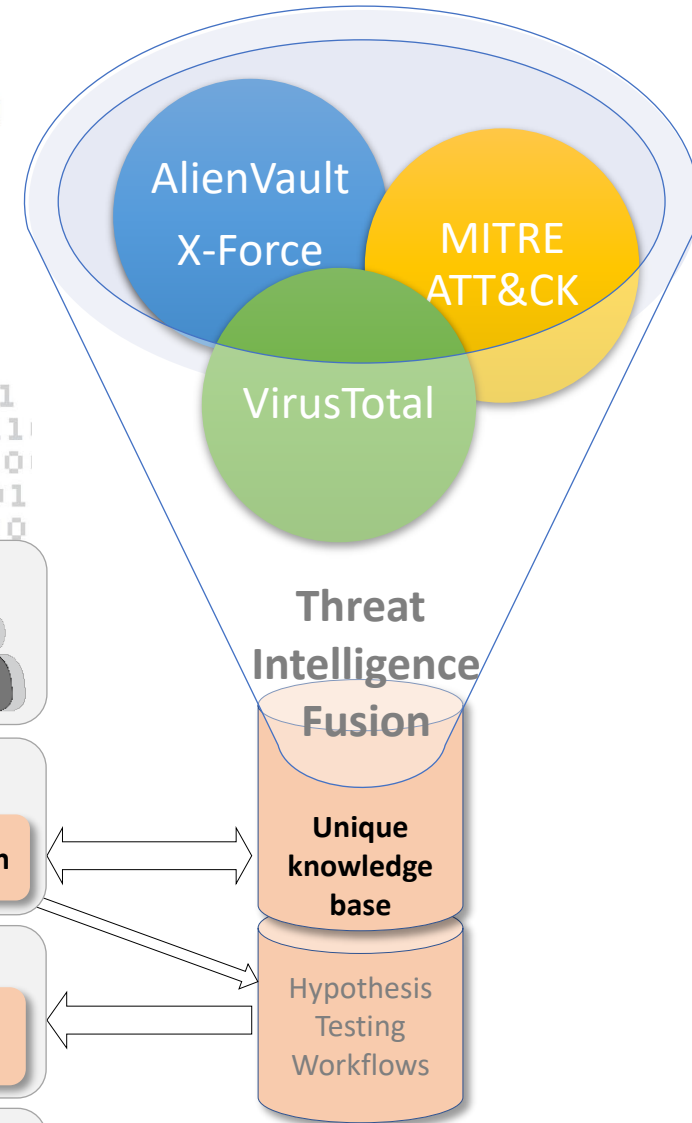
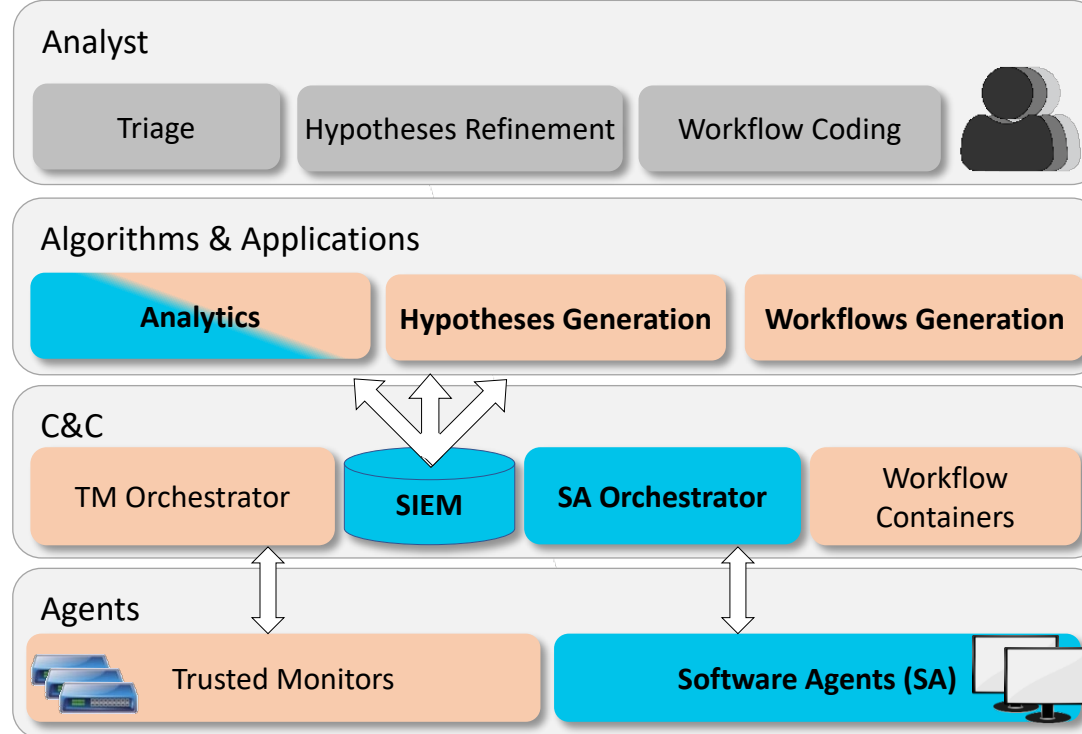


BICSAF

Do not sit back and wait for the Intrusion Detection Systems to raise alerts.

Actively hunt down artifacts that will lead to the attacker.

Agile and adaptive data collection process feeds on **attack hypotheses** constantly generated by BICSAF. **Hunting workflows** (a.k.a. playbooks) are **automatically generated** relaying on a **unique knowledge base** constructed relying on multiple threat intelligence sources.



BICSAF distributed architecture for managed security services

