

# **Fighting Next-Generation Adversaries with Shared Threat Intelligence**



**Jacob West**

Chief Technology Officer  
HP Enterprise Security Products



**we started shipping software in the 1960s**





**\$46 BILLION**

Global Spend on Cyber Security



**20%**

increase in  
**NUMBER OF  
BREACHES**

**30%**

increase in cost  
of a single  
**BREACH**

A photograph of a server room with rows of server racks, overlaid with a red tint. The text "They only need to be right" is written in white, sans-serif font across the upper portion of the image.

They only need to be right

**ONE TIME**

A server room with a red overlay. A line of diamond-shaped lights runs across the top of the server racks. The text "We need to be right" is written in white, sans-serif font, positioned above the main title.

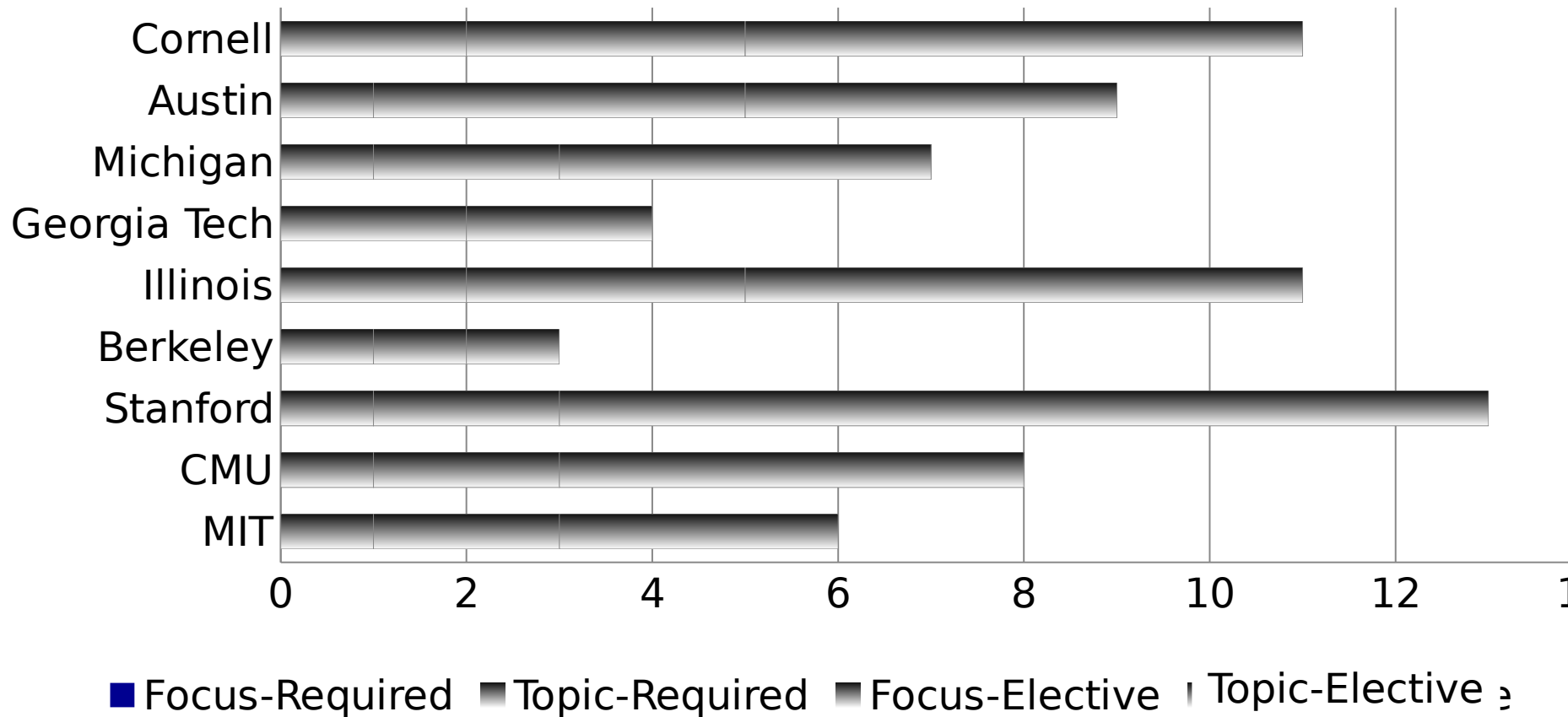
We need to be right

**EVERY TIME**

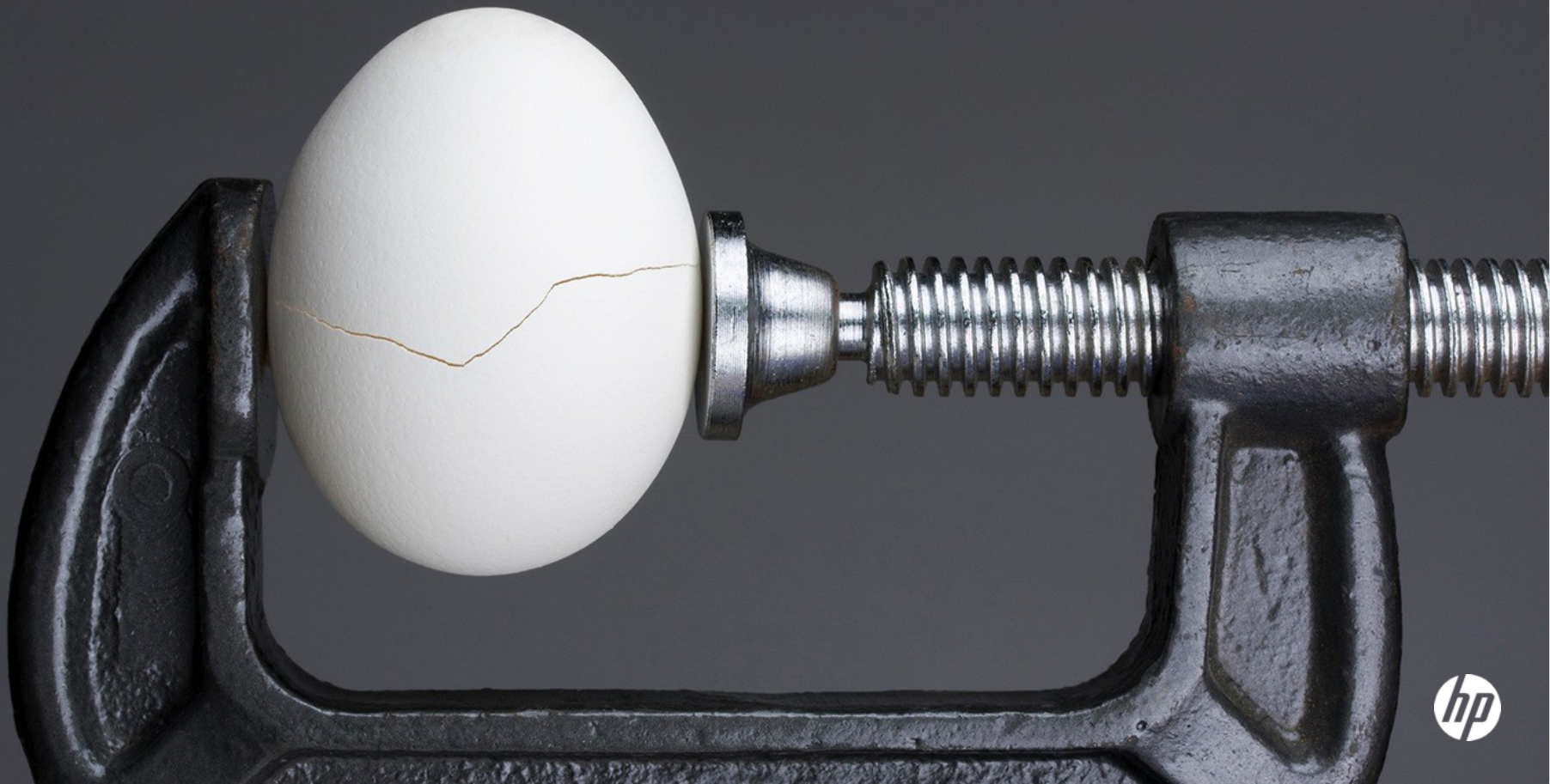
**40 of IT security  
positions predicted  
vacant in 2014**



# Security Courses at Top U.S. Undergraduate CS Program







# HACKTIVIS' CYBERCRIMINAL NATION STATE



**ORGANIZE**

**ORGANIZE**  
**SPECIALIZE**

**ORGANIZE**

**SPECIALIZE**

**MONETIZE**

**ADVERSARY**



**ADVERSARY**



**RESEARCH**



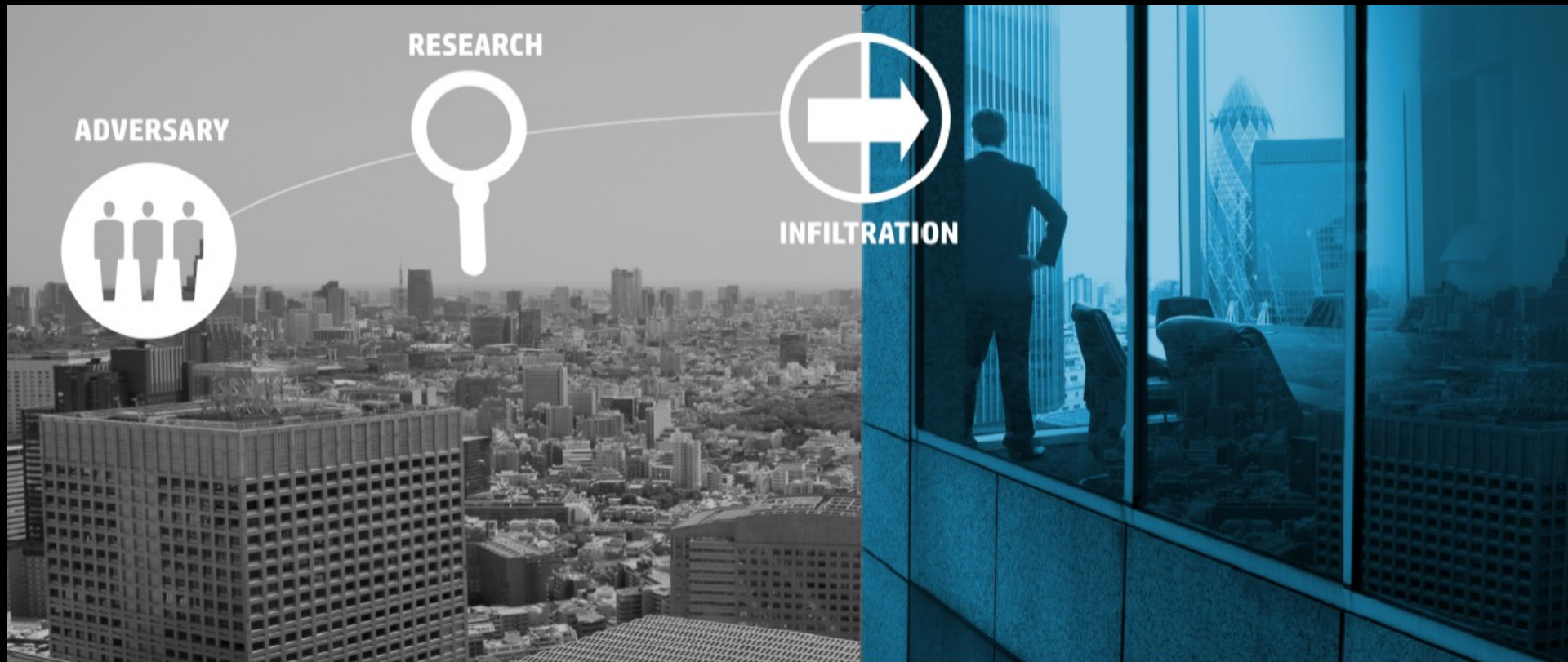
**ADVERSARY**



**RESEARCH**



**INFILTRATION**





**ADVERSARY**

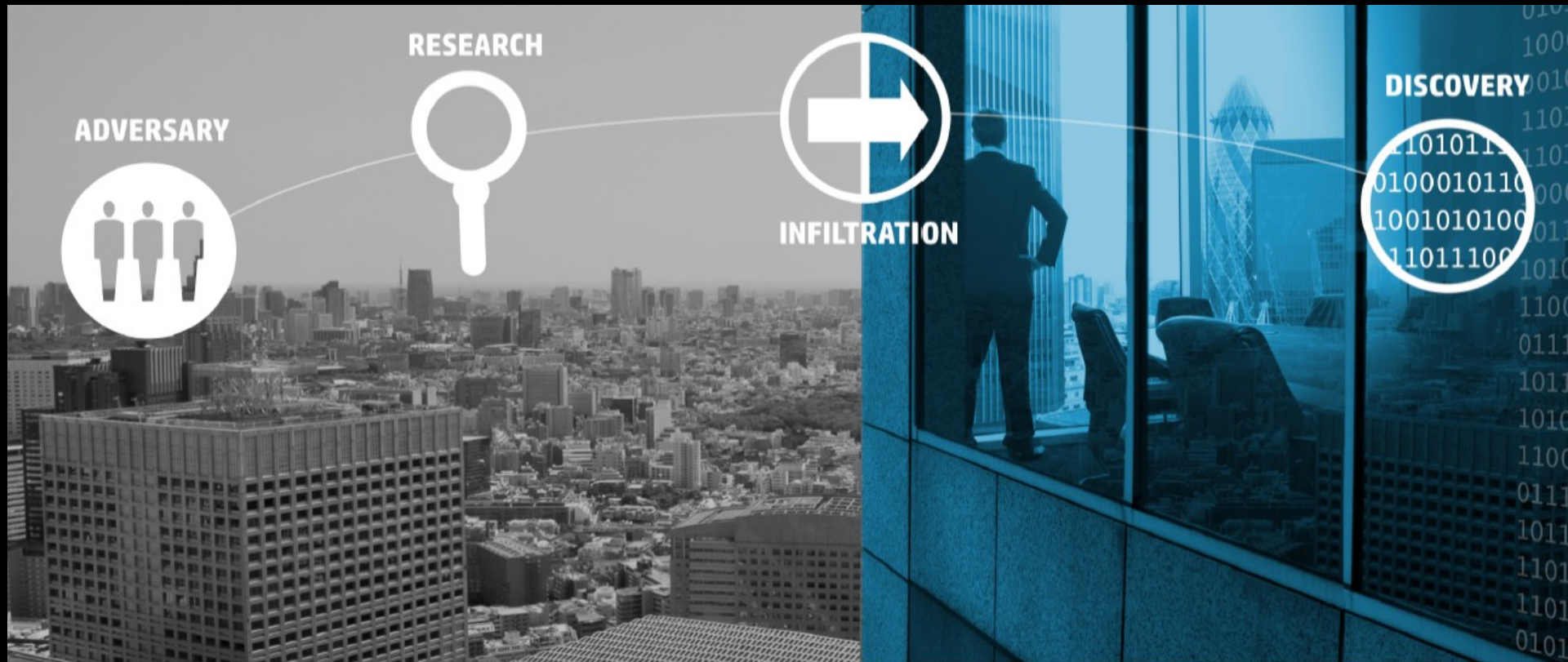


**RESEARCH**



**INFILTRATION**

**DISCOVERY**



**ADVERSARY**



**RESEARCH**



**INFILTRATION**

**DISCOVERY**



**CAPTURE**



**ADVERSARY**



**RESEARCH**



**INFILTRATION**

**EXFILTRATION**



**DISCOVERY**



**CAPTURE**



**ADVERSARY**



**RESEARCH**



**INFILTRATION**



**EXFILTRATION**



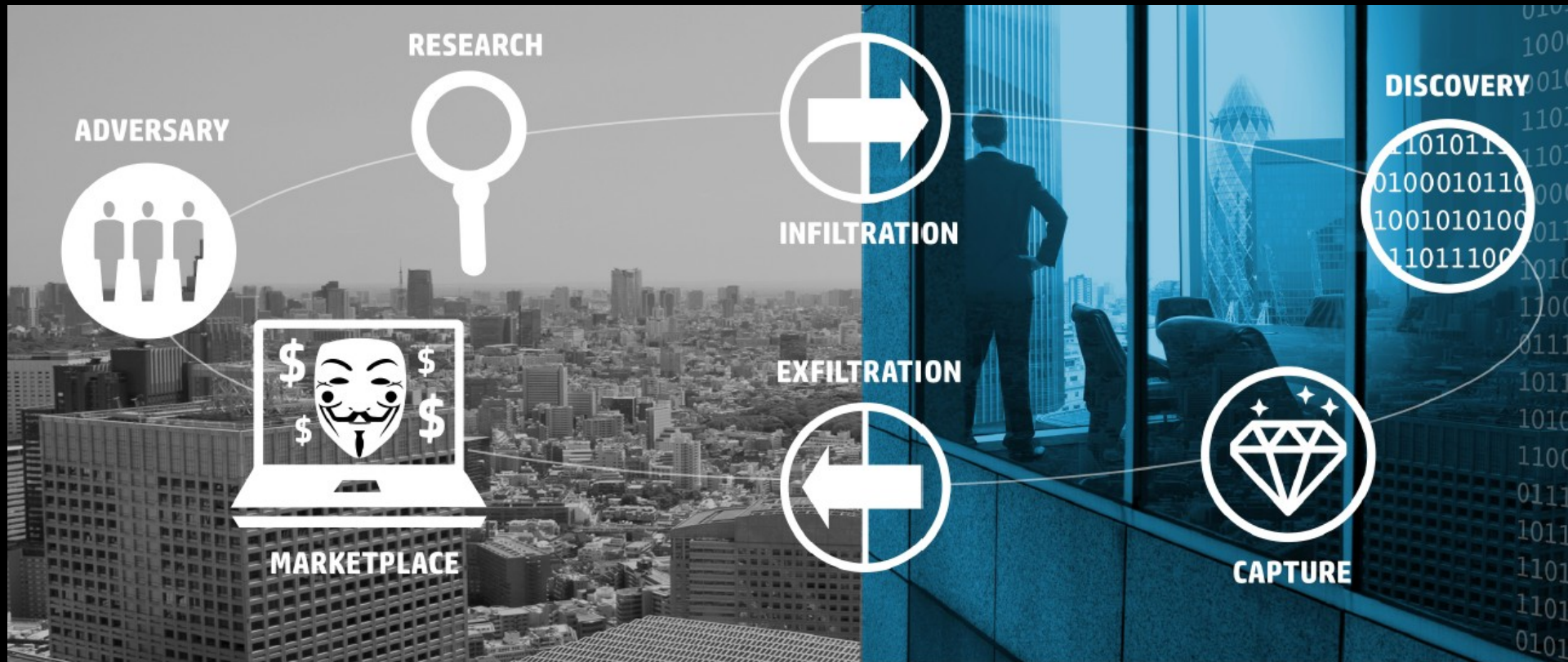
**MARKETPLACE**



**DISCOVERY**



**CAPTURE**





**Manual and slow**

**Limited participation**

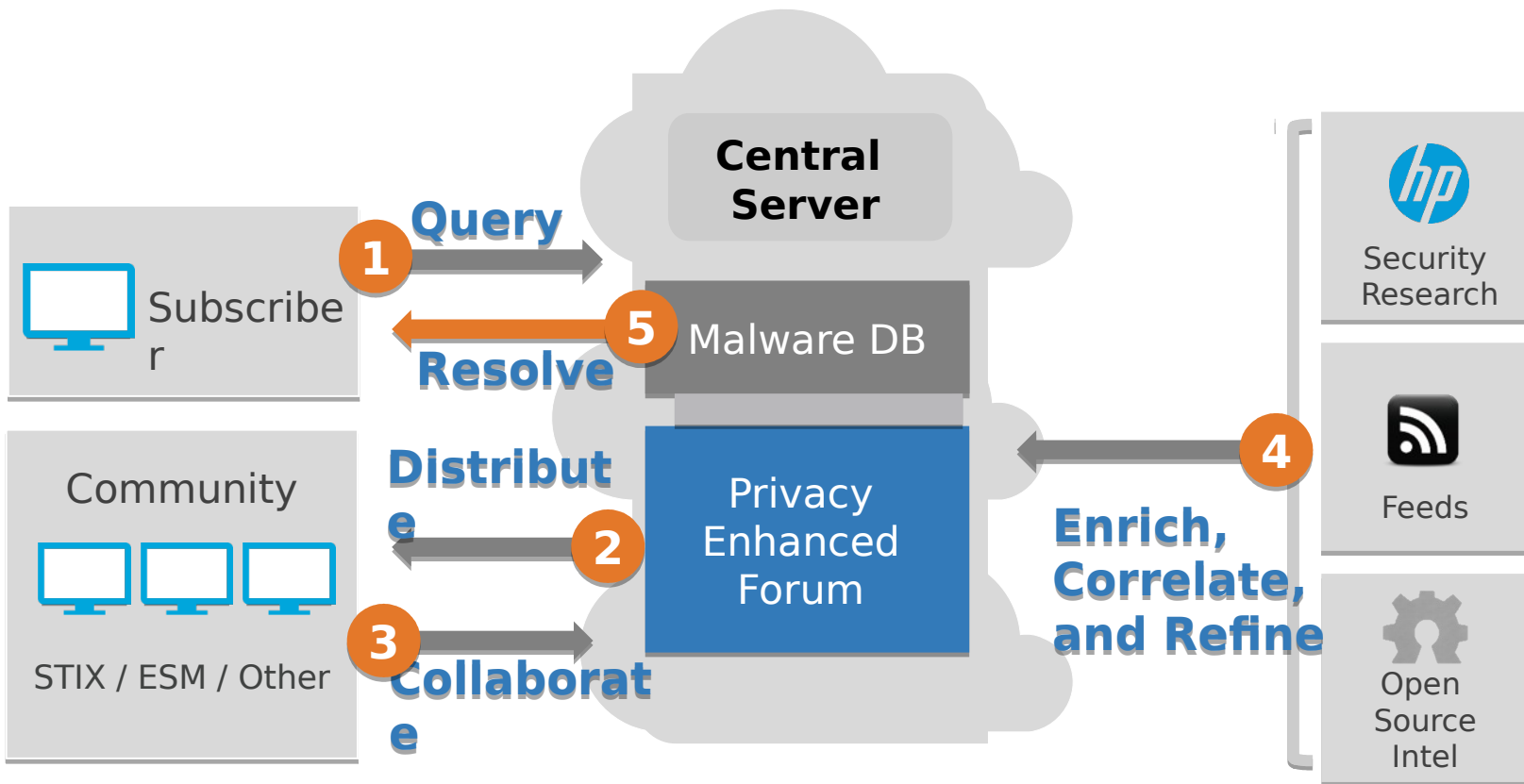
**Intelligence is not actionable**



 Automated

 Relevant

 Open



**community  
value**

**=**

**community  
participation**

**STIX™**

**TAXII™**  




**I E T F®**



***“We must all hang together,  
or  
we shall all hang separately.”***

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# Questions?

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