Technology-Enabled Investigations: Beyond Digital Forensics

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DIGITAL FORENSICS / ANALYTICS

Computer & Mobile: Forensics concerned with retrieval of digital evidence from computers and phones

Network, Cloud & Database: Analysis of data, metadata and data traffic from networks, cloud services and in-house systems

Social Media: Investigations and Digital Analysis of social network platforms
WHAT IS TECH-ENABLED INVESTIGATIONS?

• ... IT IS TECH LEVERAGED ACROSS THE WHOLE INVESTIGATIVE CAPACITY

• Complaint Handling
• Data Handling and Privacy
• Stakeholder Engagement
• Proactive Investigations
  • Training needs
  • And more
WHAT FACTORS ARE DRIVING TECH-ENABLED INVESTIGATIONS?

• Diversity and Proliferation of Data and Digital Devices

• Hyper-Connectivity of Networks and Digitized Transactions

• Tech-Enabled Wrongdoing (e.g. BEC; Digitally Forged Docs; E-Tendering; and Digital Manipulation of Internal Systems)
WHAT FACTORS ARE DRIVING TECH-ENABLED INVESTIGATIONS?

OPERATIONAL NEEDS

• To Respond Faster to a Growing List of Stakeholders
• Proactive Investigations
• Improve Business Decisions and Delivery
• Integrity and Confidentiality
WHAT FACTORS ARE DRIVING TECH-ENABLED INVESTIGATIONS?

ENVIRONMENTAL

• COVID-19 – Accelerator in Remote Investigations

POLITICAL

• War in Ukraine

LEGAL / POLICY

• Court Jurisprudence
• Data Privacy and Handling & Classification Regulations
• Investigation SOPs Revised
LEVERAGING TECH ACROSS THE INVESTIGATION PROCESS

- Data Exchanges
- Reporting / Visualization of Investigative Findings

- Digital Forensics
- Digital Tools (Other)
- OSINT
- Data Security / Confidentiality

- Hotline / Reporting
- CMS

- Data Analytics
- Machine Learning
- AI
- Blockchain

Reporting → Assessment

Collection → Analysis
TAKE AWAYS

Cross-Functionality – bringing data, technology, and traditional investigative skills together

Gradual & Custom approach – internal capabilities through to technological investments – customized to the agency and operational environment

Communication and Collaboration - with partners. No organization, however large, has all the data it needs.
QUESTIONS?

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Thank you
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