Technology-Enabled Investigations: Beyond Digital Forensics

Rami Nasreddine – Investigations Specialist

Office of Audit & Investigations, UNDP

Regional Workshop: Preventing and Combating Corruption Through Technology

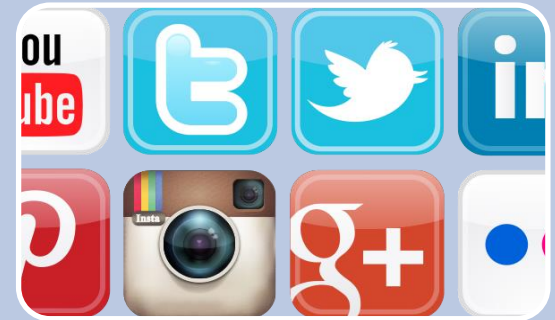*Amman, Jordan 15-16 June 2022*

UNDP – JIACC - KOICA

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 ACCROSS 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?

TECH

- 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)
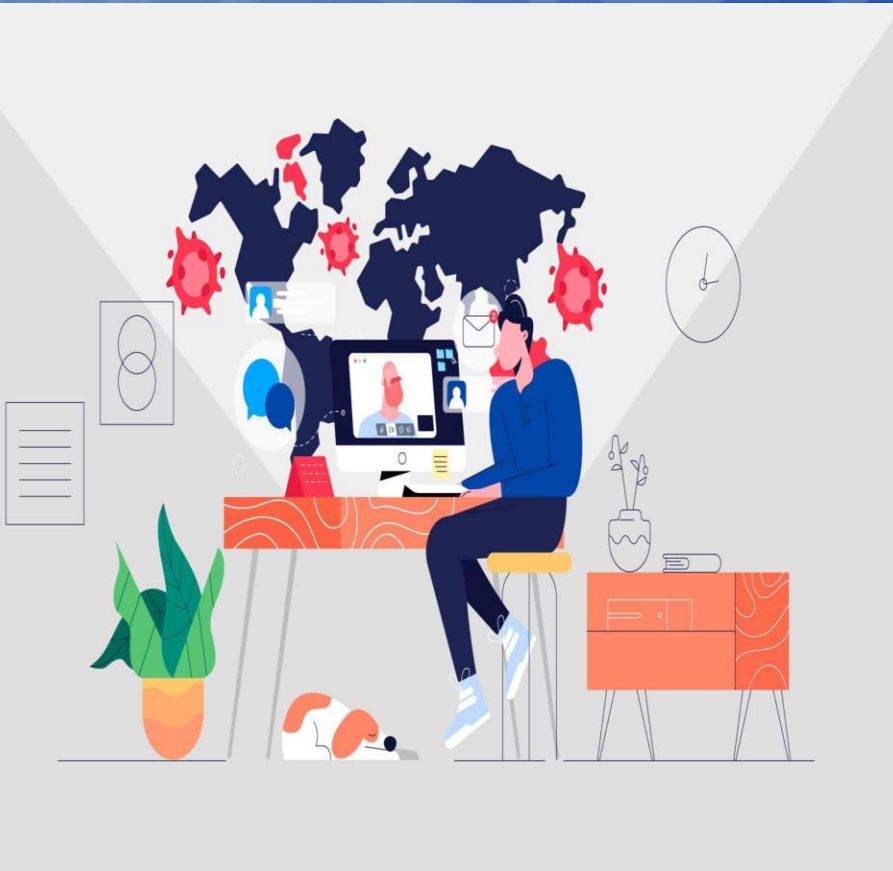
WHAT FACTORS ARE DRIVING TECH-ENABLED INVESTIGATIONS?

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

POLTICAL

- 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

- Hotline / Reporting
- CMS

-

Reporting

Assessment

Collection

Analysis

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

- Data Analytics
- Machine Learning
- AI
- Blockchain

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?

شكرا

Thank you

Merci