

Criminal Justice Statistics on Cybercrime & Electronic Evidence

*Ghanaian Private Sector in Perspective &
International Best Practices*

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PRESENTATION OUTLINE

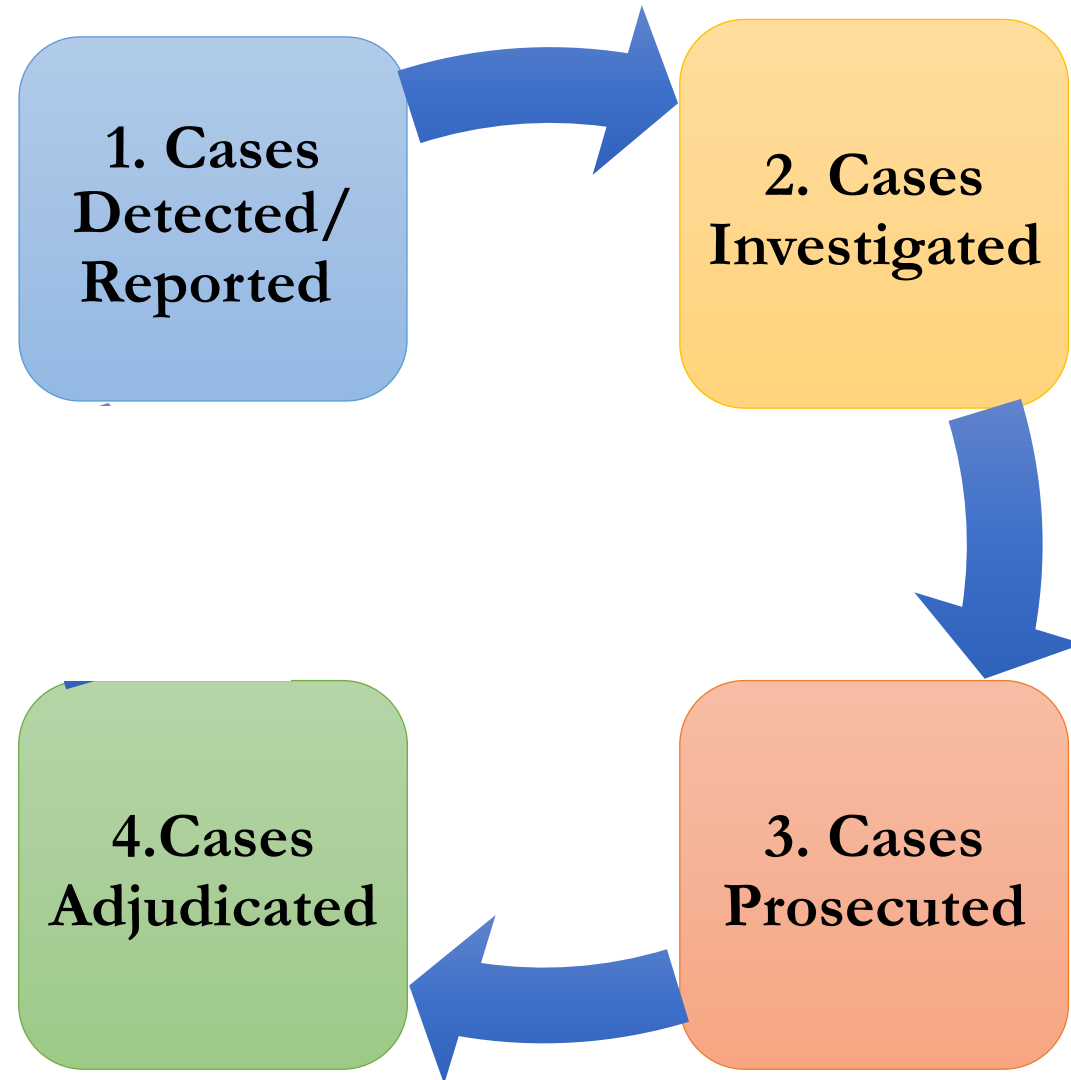
- ☐ Overview – Criminal Justice Statistics on Cybercrimes & Electronic Evidence
- ☐ Criminal Justice Statistics on Cybercrime & Electronic Evidence – Collection & Analysis Cycle
- ☐ Cybercrime Incidents & Electronic Evidence Recording – Ghana in Perspective
- ☐ Collecting Criminal Justice Statistics on Cybercrimes & Electronic Evidence – Key Challenges & Potential Issues
- ☐ Case Studies – Statistics from e-Crime Bureau
- ☐ Best Practices/Recommendations

Why the need for Criminal Justice Statistics on Cybercrimes and Electronic Evidence?

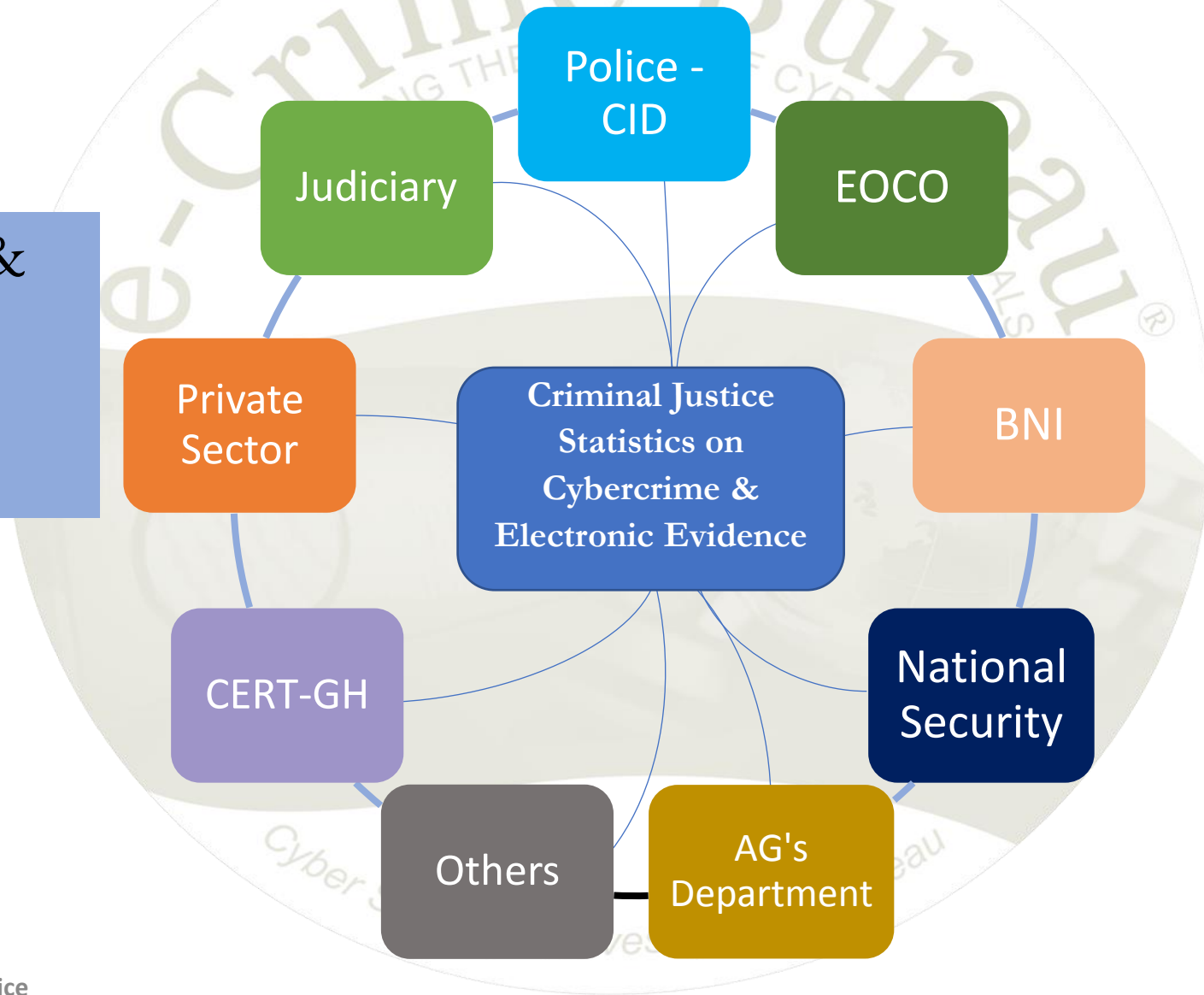
- ☐ analysis of cybercrime incidents;
- ☐ intelligence analysis;
- ☐ response to cybercrime incidents;
- ☐ long term interventions and capacity building, etc.

Overview – Criminal Justice Statistics on Cybercrimes & Electronic Evidence

Criminal Justice Statistics on Cybercrimes & Electronic Evidence – Collection & Analysis Cycle



Cybercrime Incidents & Electronic Evidence Recording – Ghana in Perspective



Collecting Criminal Justice
Statistics on Cybercrimes
& Electronic Evidence –
Key Challenges & Potential
Issues (1)

1. Defining cybercrime – technical definitions or legal definitions?
2. Collection methodology – legal or technical?
3. Focus of collection – criminal prosecutions or litigations support?
4. Collection protocols – automated or manual?

Collecting Criminal Justice
Statistics on Cybercrimes
& Electronic Evidence –
Key Challenges & Potential
Issues (2)

5. Potential legal & technical conflicts -
What is this?

6. Sources of data – multiple data sources,
reliability of data, etc.

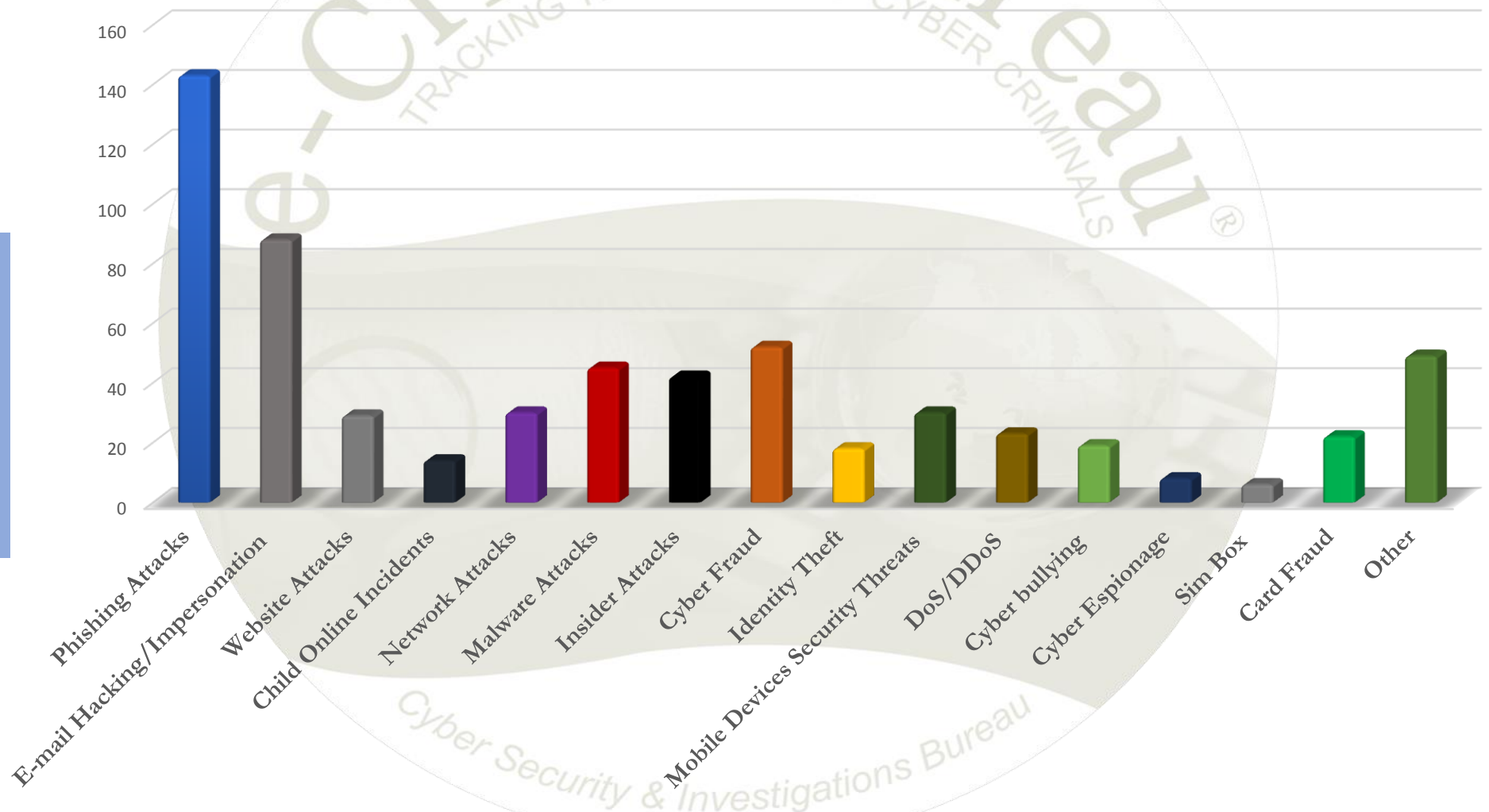
7. Validation of data source

8. Analysis – scope, benchmarks, etc.

9. Other potential issues -

Case Studies – Statistics from e-Crime Bureau

DISTRIBUTION OF CYBERCRIME INCIDENTS REPORTED TO E-CRIME BUREAU - 2016



Cybercrime Incidents Reported	Number of Reported Cases
Phishing Attacks	143
E-mail Hacking/Impersonation	88
Website Attacks	29
Child Online Incidents	14
Network Attacks	30
Malware Attacks	45
Insider Attacks	42
Cyber Fraud	52
Identity Theft	18
Mobile Devices Security Threats	30
DoS/DDoS	23
Cyber bullying	19
Cyber Espionage	8
Sim Box	6
Card Fraud	22
Other	49
TOTAL	618

S/N	Incidents	No. of Incidents Detected/ Reported	No. of Incidents Investigated	No. of Incidents Prosecuted	No. of Incidents Adjudicated	Remarks
1	Phishing	143	100	0	0	-
2	E-mail Hacking/ Impersonation	88	70	4	0	Criminal prosecutions on-going
3	Network Attacks	30	28	3	0	Criminal prosecutions on-going
4	Insider Attacks	42	40	3	0	Criminal prosecutions on-going
5	Sim Box	6	6	4	2	The Bureau has 4 criminal prosecutions still on-going
6	Cyber Fraud	52	39	2	0	Criminal prosecutions on-going

Analysis of Incidents:
**E-mail
Hacking/Impersonation**

E-MAIL HACKING/IMPERSONATION	
No. of Incidents Detected/Reported	88
Percentage of Incidents Investigated	80%
Percentage of Incidents Prosecuted	4.5%
Percentage of cases Adjudicated	0%
Remarks	Criminal prosecution on-going

Analysis of Incidents: **SIM Box Fraud**

SIM BOX FRAUD	
No. of Incidents Detected/Reported	6
Percentage of Incidents Investigated	100%
Percentage of Incidents Prosecuted	66.7%
Percentage of Incidents Adjudicated	33.3%
Remarks	The Bureau has 4 prosecution cases on-going

Best Practices/ Recommendations (1)

1. A national framework for collection /recording of criminal justice statistics on cybercrimes required;
2. Definition of cybercrimes – at both technical and legal levels;
3. Establish scope of collection for various stakeholders;

Best Practices/ Recommendations (2)

4. Collaboration with the private sector
– through cyber security governance framework
5. Criminal justice statistics Information Management System (IMS)
6. Budapest Convention guidelines on cybercrime and electronic evidence reporting, etc.

QUESTIONS



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