

# Digital Forensics in the Context of Pakistan

Dr. Shahzad Saleem  
DSV SU/KTH Sweden  
SEECs-NUST  
Pakistan

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Engineering and Computer Sciences, NUST -  
Islamabad



# Agenda

- What is Digital Forensics
- Importance of Digital Forensics
- Things to Do in the Context of Pakistan

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# What is Digital Forensics

- Digital Forensics (Digital Forensic Science) is a branch of Forensic Science dealing with the recovery and investigation of material found in Digital Devices, often in relation to a Digital Crime.

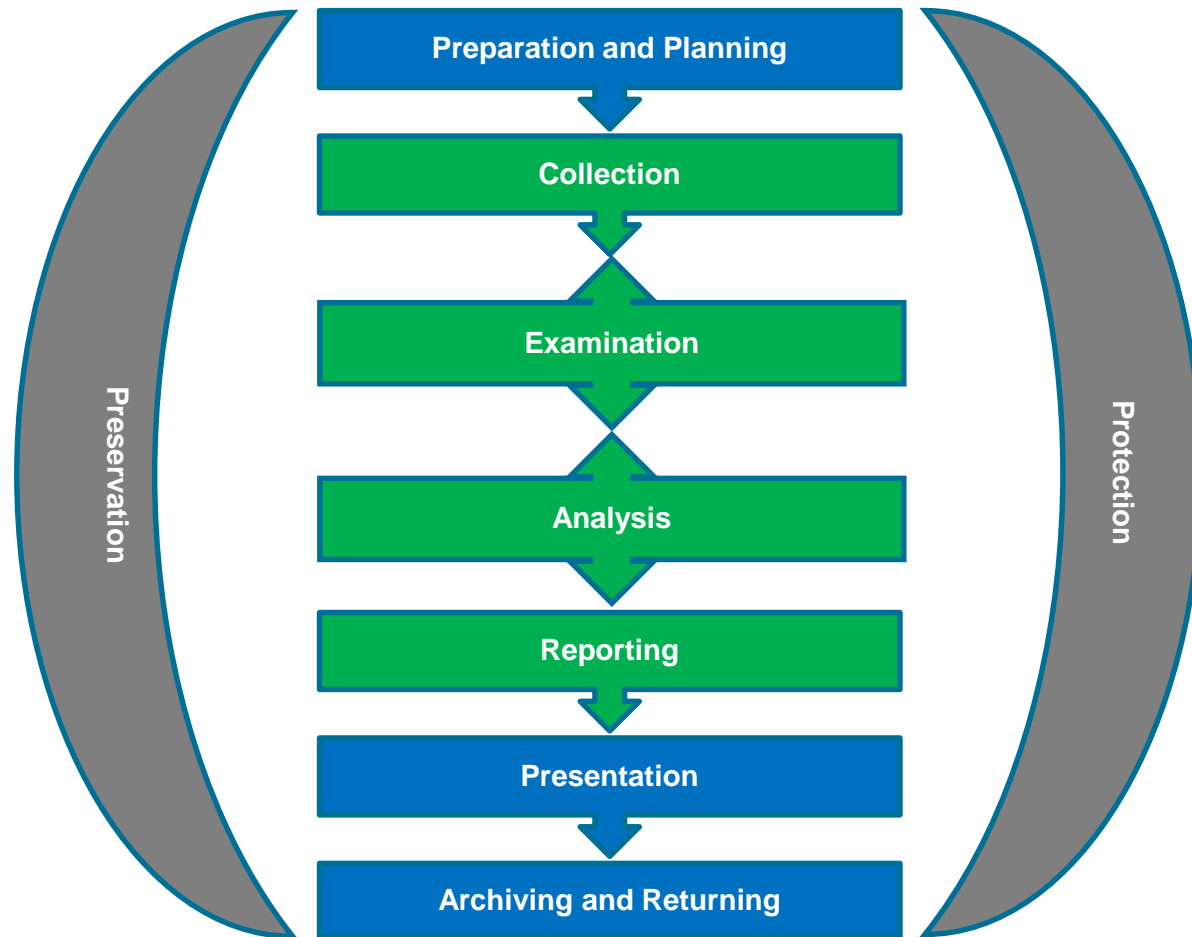
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# Abstract Digital Forensics Model with 2PasU



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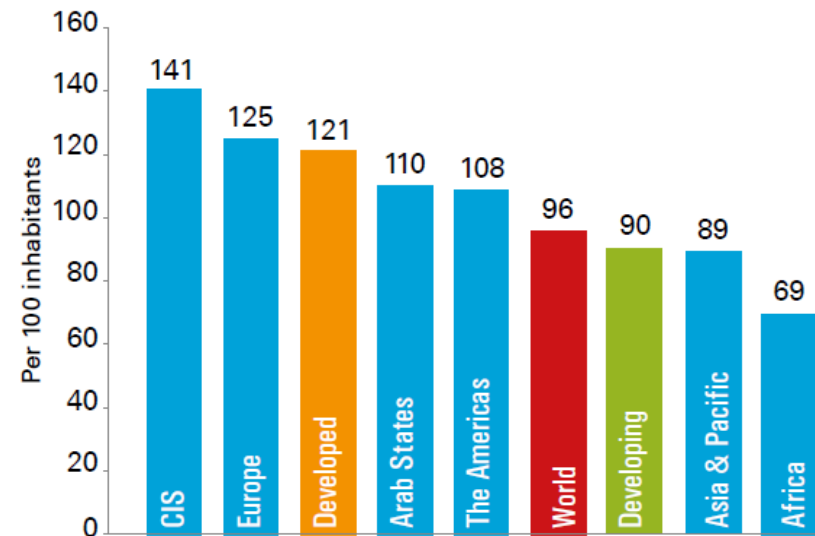
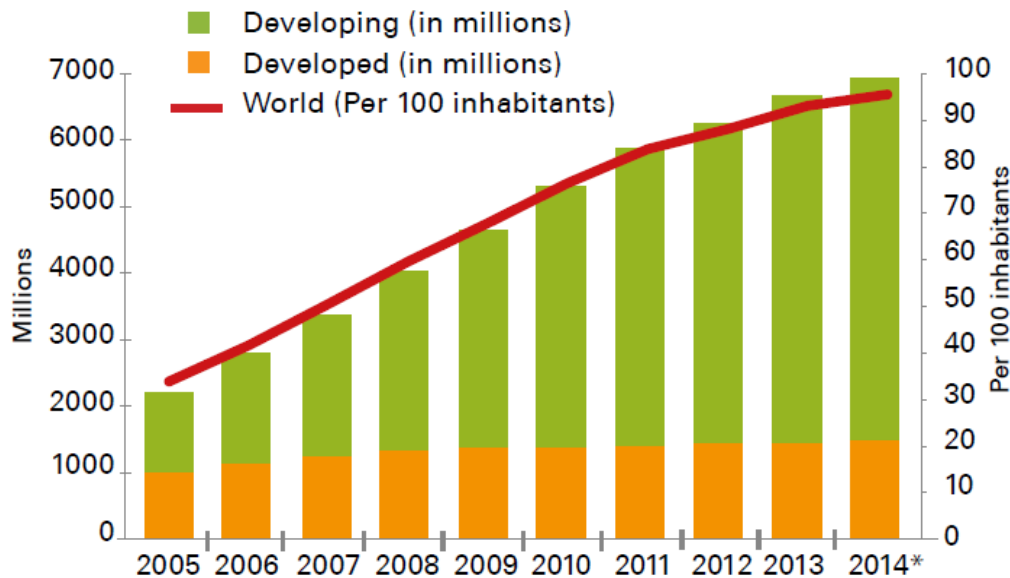
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# Importance of Digital Forensics

- ITU Statistics

- Penetration 7 Billions (Total) 3.6 Billions (Asia & Pacific)
- Growth Rate 1.5% (Developed Countries) and 3.1% (Developing Countries)



Note: \* Estimate

Source: ITU World Telecommunication/ICT Indicators database



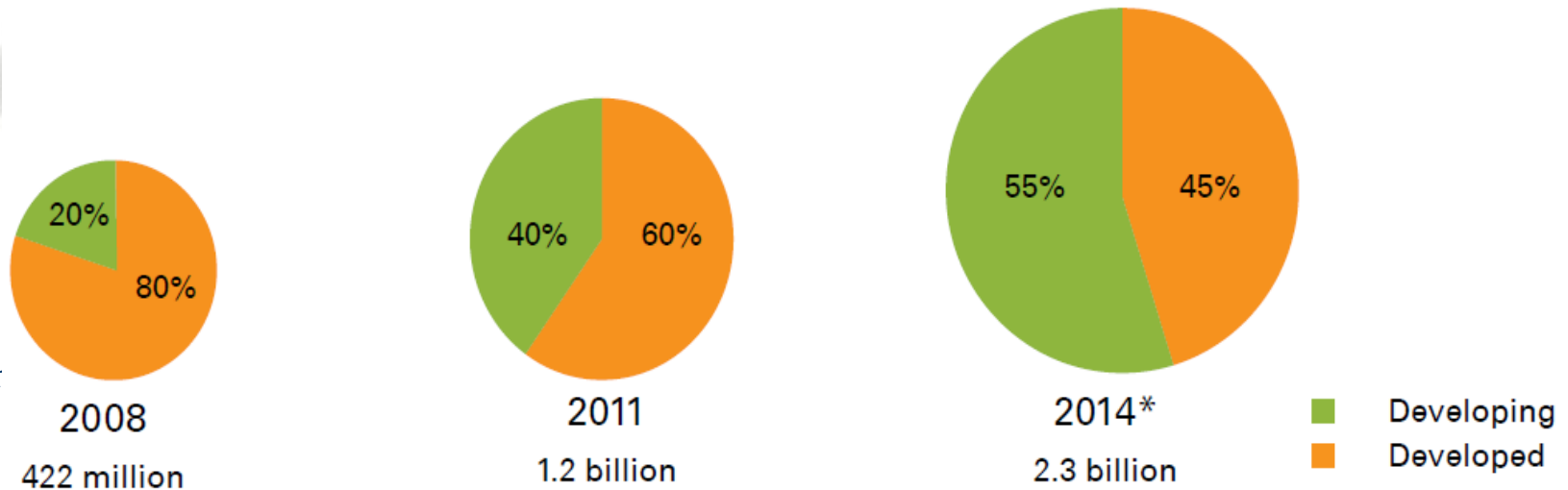
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# Importance of Digital Forensics

- ITU Statistics

- Active Mobile Broadband Subscriptions
- Personal Behavioral Digital Archives.
- More than 80% of Court Cases in the US
- e-Discovery 10.67 Billion Dollars in 2010 , Growth Rate of 15.4% (2010-2017)



Note: \* Estimate

Source: ITU World Telecommunication/ICT Indicators database

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# Things to Do in the Context of Pakistan

- Legal Context
  - Computer Fraud and Abuse Act
  - Electronic Transactions Act
  - Electronic Communications Privacy Act
  - Cyber Security Enhancement Act
  - Digital Millennium Copyright Act
  - Economic Espionage Act
  - Fraudulent Online Identity Sanctions Act
  - Computer Software Privacy and Control Act
  - Electronic Transactions Ordinance, 2002
  - Prevention of Electronic Crimes Ordinance, 2007

# Things To Do in the Context of Pakistan

- Digital Forensics Management Context
  - Uniform Crime Report [ <http://www.fbi.gov/about-us/cjis/ucr/ucr> ]
  - American Society of Crime Laboratory Directors
    - Guidelines
    - Auditing and Certification
  - Tool Testing and Validation
- National Response Centre for Cyber Crime (FIA)
- Cyber Investigation Unit (CIU) and Computer Forensic Lab (FIA)
- National Forensic Science Agency
- Punjab Forensic Science Agency



# Things To Do in the Context of Pakistan

- Technical Context
  - Need of Indigenous Tools Development
  - FORnsic device for the acquisition and Subsequent chain of custody of digital Evidence with guaranTee for the culprIt (FORSETI)

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# Thanks



Dr. Shahzad Saleem ([shahzad.saleem@seecs.edu.pk](mailto:shahzad.saleem@seecs.edu.pk))

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