



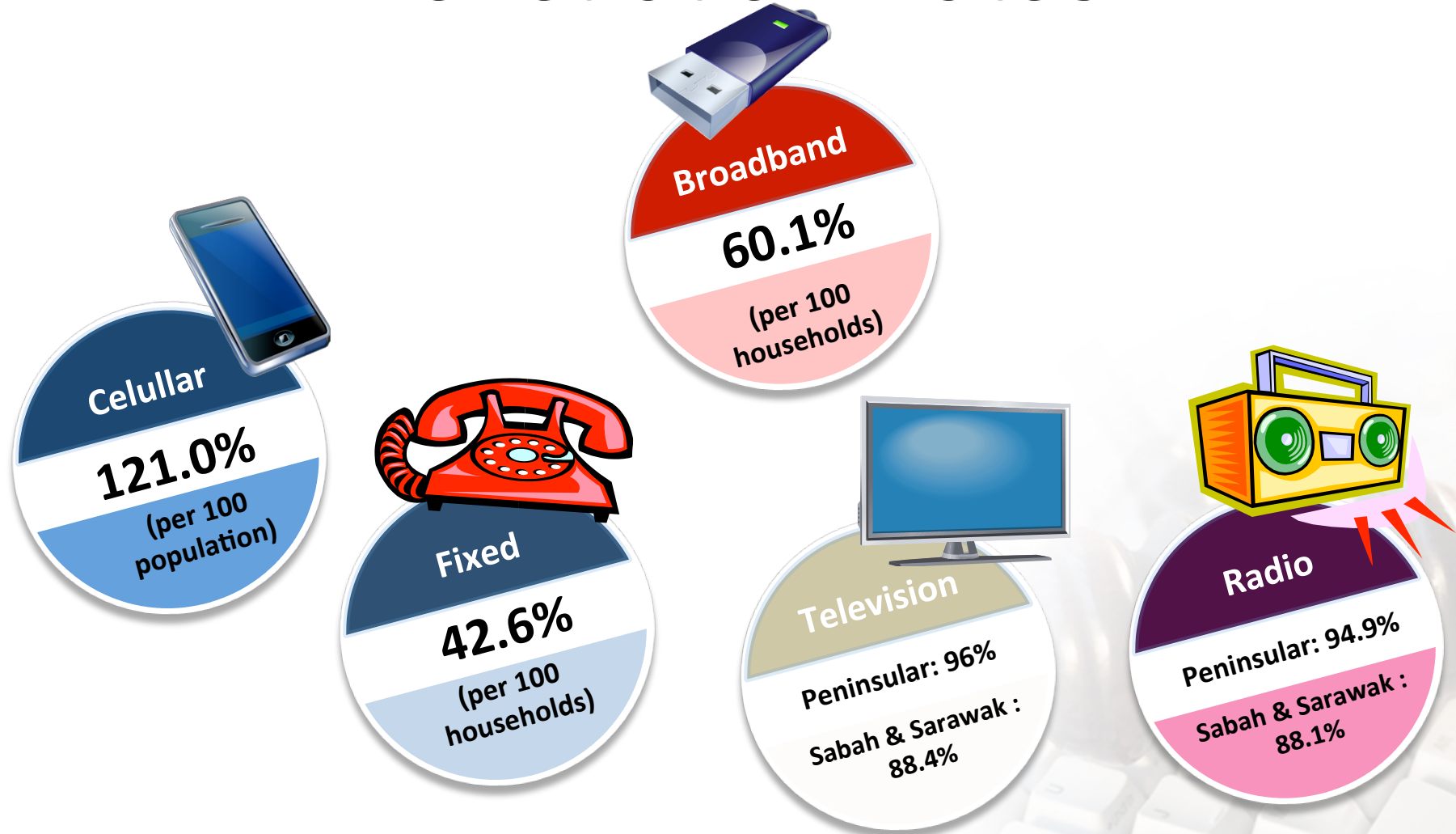
***BRIDGING BARRIERS:***  
**LEGAL AND TECHNICAL OF**  
**CYBERCRIME CASES**

**Bridging Legislation &  
Technical – A Bridge Too Far?**

7 July 2011

*Harme Mohamed*  
*Malaysian Communications and*  
*Multimedia Commission*

# Penetration Rates



# Relevant Legislation

- Penal Code
- Criminal Procedure Code
- Sedition Act 1948
- Evidence Act 1950
- Dangerous Drugs Act 1952
- Copyright Act 1987
- Banking and Financial Institutions Act 1989
- Extradition Act 1992
- Computer Crimes Act 1997
- Communications and Multimedia Act 1998
- Mutual Assistance in Criminal Matters Act 2002

Organizer:



AGOSM



Endorsed by:

# ANATOMY OF CYBERCRIME



# Cybercrime

- Crimes performed in and with computers, computer networks and increasing mobile communications (smart phones)
- Computers, and data stored in them are:
  - Targets (hacking, DDoS-attacks, defacements, etc.)
  - Tools (host and create undesirable content, fraud, forgery, originate attacks, etc.)
  - Device that contains evidence of crimes (drug trades, terrorism)
- International, not bound by territorial borders

# Investigation

- Investigation and analysis of ‘hardcore’ cybercrimes, such as botnets, hacking and malwares
- Investigation and analysis of the role and use of computers in the combat against crime in general, such as frauds and undesirable contents
- No single crime scene to process and combination of attacks to be analyzed
- Changing requirements of an Investigating Officer
- Requires new methods of surveillance and investigations

# Evidence Gathering

- Sometimes still need tried and tested methods
- The discipline is very much the same, statement taking etc. but need to know what to ask etc. (criminal conduct and exploited technology)
- Importance of analysis & forensics capabilities
- Usage of appropriate tools which are available



Organizer:



AGOSM

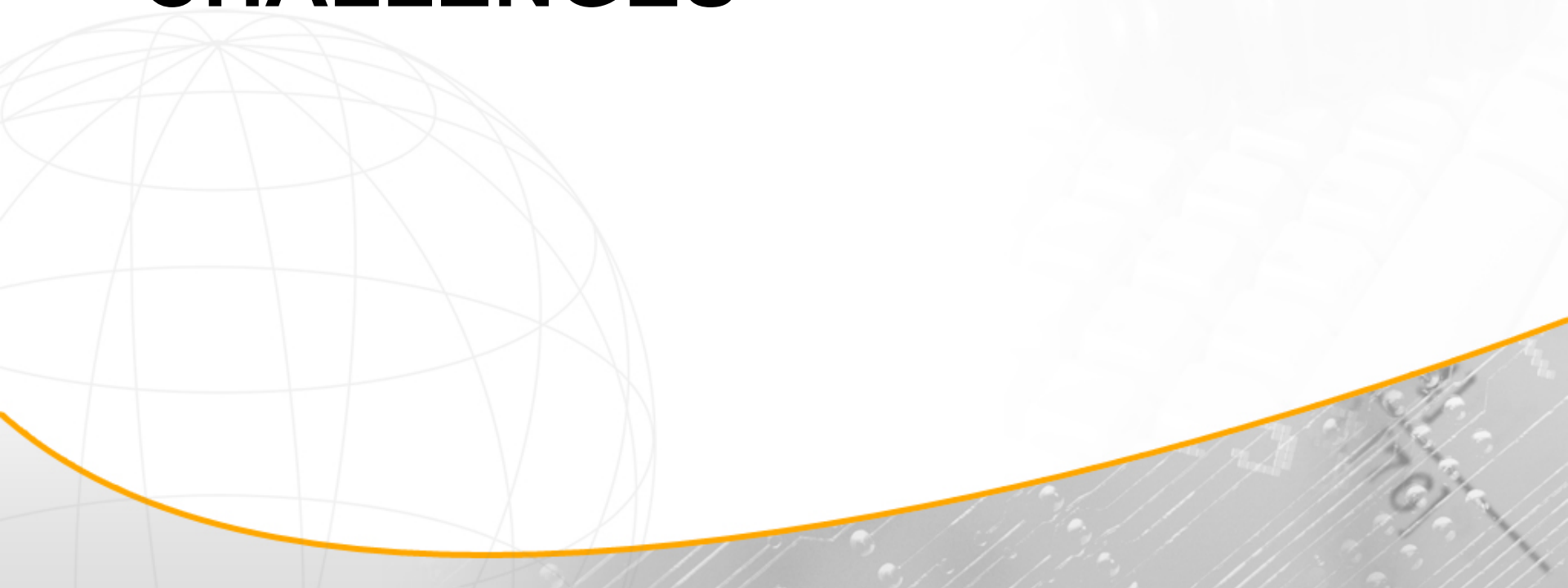


People First,  
Performance Now



Ministry of Science,  
Technology and Innovation

# CHALLENGES





# Key Considerations

- Balance between the privacy of citizens and effectiveness of law enforcement
  - Preventive measure – put in technological infrastructure to combat cybercrime
- Classification of techniques (social engineering, malware, network breaches) – are the current laws able to identify and deal with these techniques?
- International cooperation
- Anti-forensic tools and anonymization technologies

Organizer:



AGOSM



People First,  
Performance Now

mosti  
Ministry of Science,  
Technology and Innovation

# CONCLUSION

# Conclusion

- Existing laws need to be reviewed to keep abreast of new technologies but not to stifle innovation of new technologies and services
- Need clear process and procedures and empowerment to law enforcement agencies
- Need to encourage home-grown technologies to assist investigations and evidence gathering