

Cybersecurity & Cybercrimes: Overview (of some) of the Issues

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Introductory remarks

- State response to cybercrime
 - Harmonisation of criminal justice systems
 - Council of Europe Convention on Cybercrime (2001)
 - 57 signatories, including 11 non-members (e.g. Chile & Senegal)
 - Regularization of criminal justice relationships
- Policing cyberspace
 - Evolving policing strategies
 - Prevention & disruption *not* prosecution
 - ‘Third party policing’
 - Service providers, e.g. registries & registrars
- Cybersecurity strategies
 - Prevention being better than cure...
 - Cultural shift, target hardening, standards-making

Evolving environment

- From POTS to the Internet
 - IPv6 & the ‘Internet of Things’
 - e.g. hacking the fridge
- From the desktop to apps & the Cloud
 - Shifting locus of data and applications
 - Data ‘at rest’ or ‘in transmission’
- Shifting threats & harms
 - From ‘script-kiddies’ to ‘Crime-as-a-Service’ to State-sponsored actors
 - Critical national infrastructures
- Policy concerns
 - Economic development
 - National security
 - Identifying cyberwarfare

Legal & regulatory responses

- Criminalizing conduct
 - Computer-related, computer integrity, content-related & contact crimes
 - Sanctions: ‘Effective, proportionate and dissuasive’?
- Enhancing law enforcement powers
 - Facilitating cross-border access to evidence
 - Data retention & encryption policy
 - Safeguarding rights: privacy, expression & fair trial
- Cybersecurity framework
 - Prevention regimes
 - Privatizing the costs, e.g. product liability
 - Breach notification & vulnerability disclosure obligations
 - Disruption regimes
 - Permitting ‘active defence’
 - Notice & take-down (intermediary liability)