The Cyber Landscape

Ikahan Seminar
Jakarta April 2019

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Scope

- What is cyber – Cyber 101.
- The Conceptual Framework
- The nature of the cyber threat problem.
- Partnership – the key to the future.
Fake news in AEC’s crosshairs

Cybercrime groups raise bar for security

Gangs targeting autistic gamers in bid to recruit new cyber-criminals, police warn

Cybercrime market selling full digital fingerprints of over 60,000 users

Cybercrime: A Major Threat To Trust In The Digital Economy

FBI in Samoa to fight cybercrime

HSBC issues fraud warning as UK farmers targeted by cyber criminals
Conceptual Framework For ADF Cyberspace Operations

- Cyber "fires" - Cyber Ops Teams
- Hunt Teams - Cyber Ops Teams
- Communicators - Administrators - Anomaly detection

Offence
Active Defence
Passive Defence
Self-Defence

Technical
Intelligence
Targeting

Cyber Operations
Cyber Security
Strava Heat Map – Helmand Province
Conceptual Framework For ADF Cyberspace Operations

- Offence
  - Cyber "fires"
  - Cyber Ops Teams

- Active Defence
  - Hunt Teams
  - Cyber Ops Teams

- Passive Defence
  - Communicators
  - Administrators
  - Anomaly detection

- Self-Defence
  - Everyone
  - Awareness
  - Safety

Cyber Operations

Cyber Security
Essential Eight

1. Application whitelisting
2. Patch applications
3. Configure Microsoft Office macro settings
4. User application hardening
5. Restrict administrative privileges
6. Patch operating systems
7. Multi-factor authentication
8. Daily backups
Conceptual Framework For ADF Cyberspace Operations

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Cyber Operations
Cyber Security
Attack and Defence

2015

Attacked
US – 999 times
Hong Kong – 54 times
Portugal – 33 times
UK – 23 times
France – 22 times
Singapore – 18 times.

Location of Attackers
China – 340 attacks
US – 298 attacks
Netherlands – 97 attacks
India – 32 attacks

2017 (AUSTRALIA)

47,000 cyber incidents reported*

*Figures from Australian Cyber Security Centre Threat Report 2017

The figures are less than the whole picture

The trend is upward

The risk is increasing
Partnerships – Key to the Information Environment

The ADF will partner with:

1. Defence and Whole of Government
2. Science and Technology
3. Defence Industry
4. International Partners

... to become masters of the Information Environment.
International Cyber Engagement Strategy 2017

This document, published by the Australian Department of Foreign Affairs and Trade, commits Australia to:

- Maintaining strong cyber security relationships with international partners;
- Encouraging innovative cyber security solutions and delivering world leading cyber security advice;
- Developing regional cyber security capability; and
- Promoting Australia’s cyber security industry.