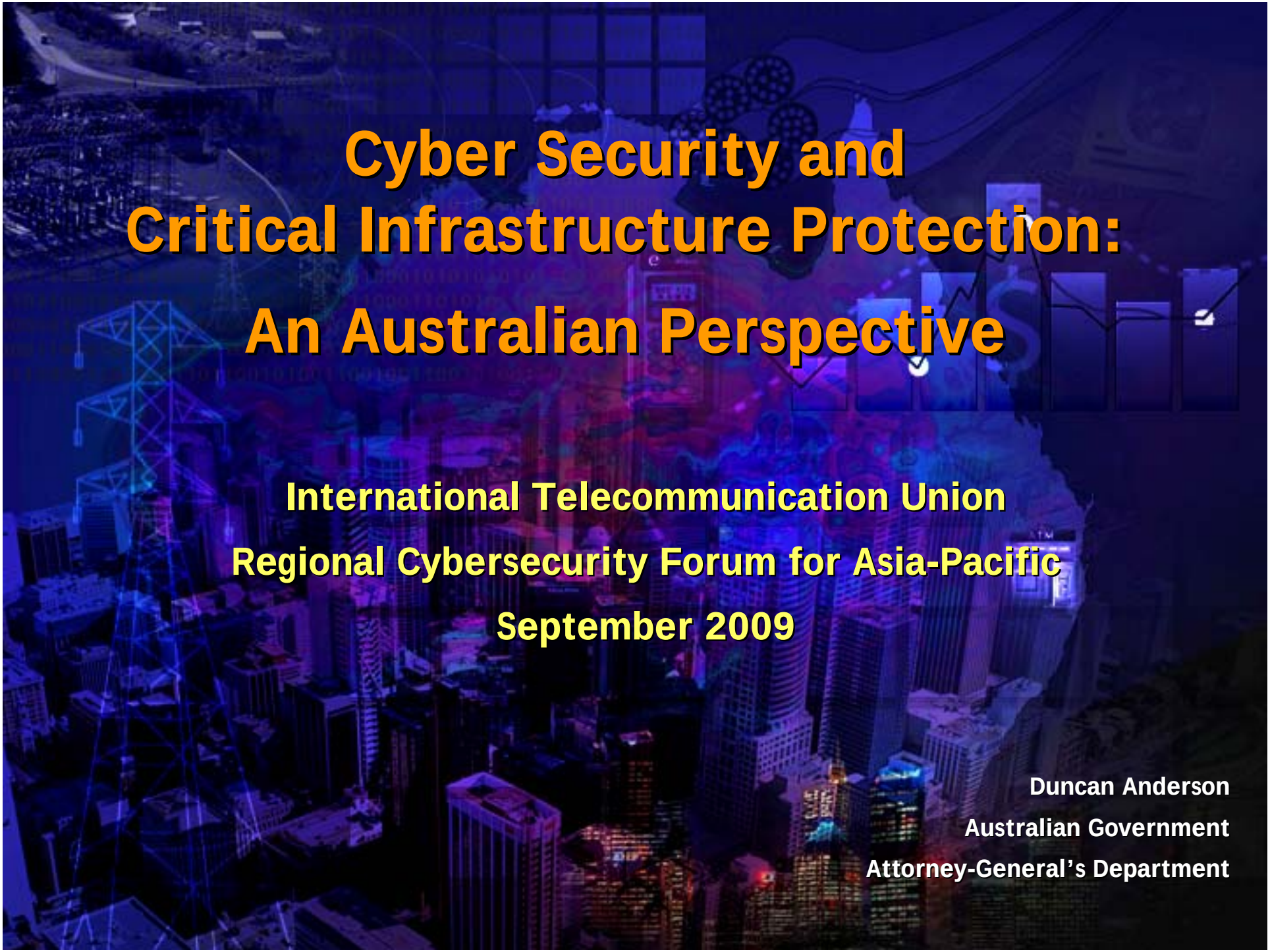


Cyber Security and Critical Infrastructure Protection: An Australian Perspective

International Telecommunication Union

Regional Cybersecurity Forum for Asia-Pacific

September 2009

Duncan Anderson

Australian Government

Attorney-General's Department

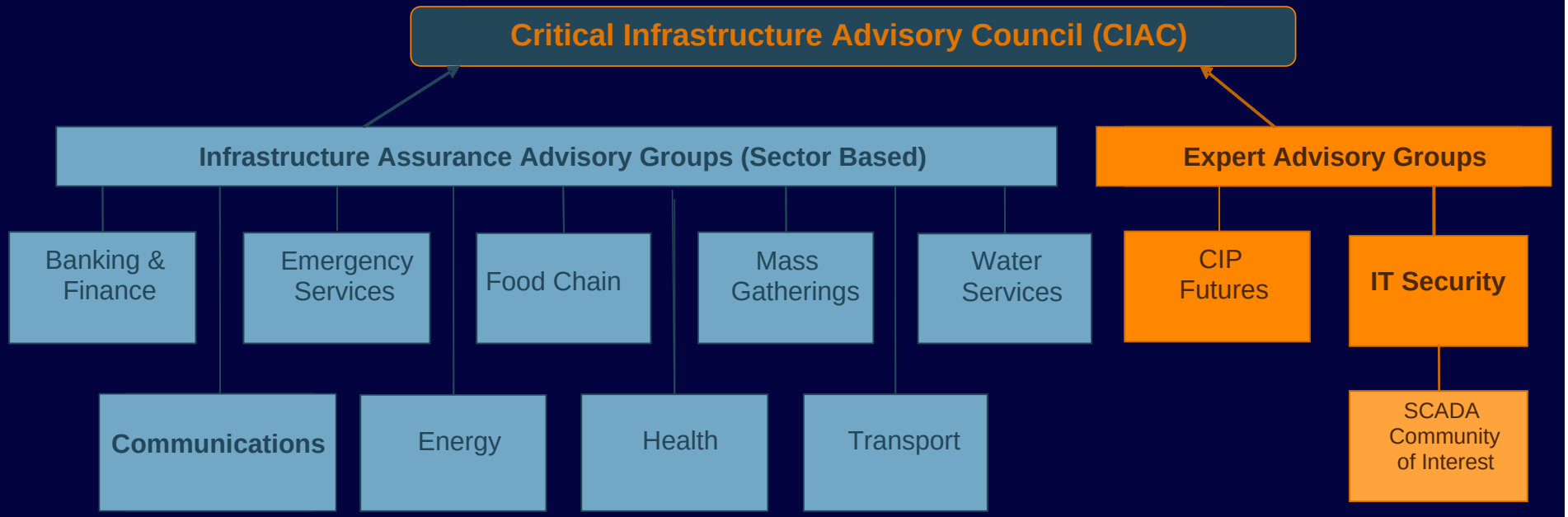
Australia's Digital Landscape: Snapshot

- Australia's digital economy
  - 21.5 million population
  - 8.4 million active Internet subscribers
  - 7.3 million (87%) with 'broadband'
- National Broadband Network
  - 100 mbps to 90% population
- Increasing scale and sophistication of threats
  - 17.7 million malware infections in 2008
  - 3,060 compromised computers per day
  - Annual cost of computer security incidents $595-$649 million
- Top national security priority

Australia's Cyber Security Policy

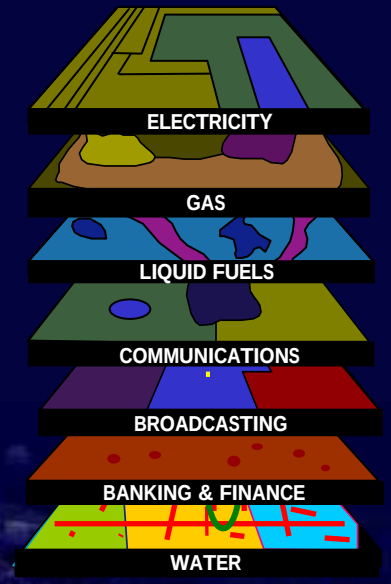
- E-Security National Agenda
  - Secure and trusted operating environment for public and private sectors
- Priorities
  - Government systems
  - Critical infrastructure
  - Home users and small to medium enterprises
- Integrated with critical infrastructure protection strategy
  - Electronic, physical, personnel and procedural security

Trusted Information Sharing Network for Critical Infrastructure Protection (TISN)

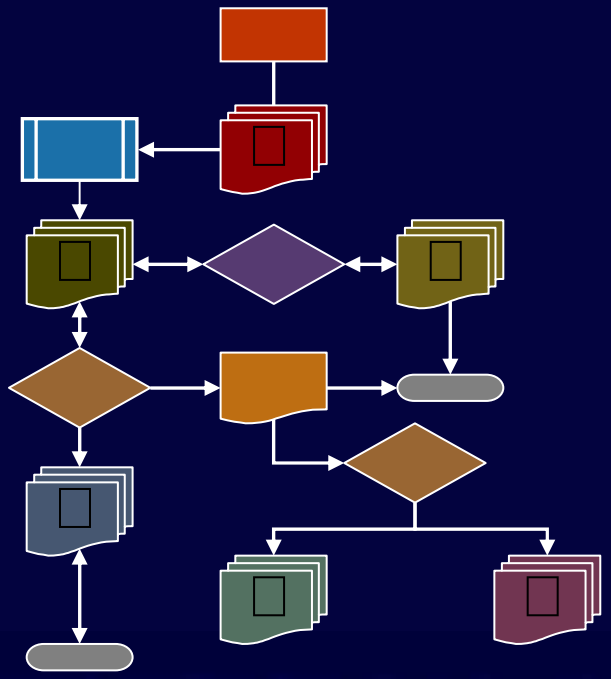


Critical Infrastructure Protection Modelling and Analysis (CIPMA)

INFORMATION & DATA



SYSTEM MODELLING



DECISION SUPPORT

- ECONOMIC
- SOCIAL
- INVESTMENT
- BUSINESS CONTINUITY
- SECURITY
- RESILIENCE

E-Security Review: Key Outcomes

- Cyber Security Operations Centre
  - Consolidated situational awareness
  - Coordinated operational response
  - Located within Defence Signals Directorate, with multi-agency expertise
  - Operational mid 2009

- New National CERT
  - Primary interface with private sector (systems of national interest)
  - Trusted information exchanges (communications, banking, SCADA)
  - Primary Australian contact in global CERT community
  - Amalgamating GovCERT.au and (selected) AusCERT functions
  - Operational early 2010

E-Security Review: Other Outcomes

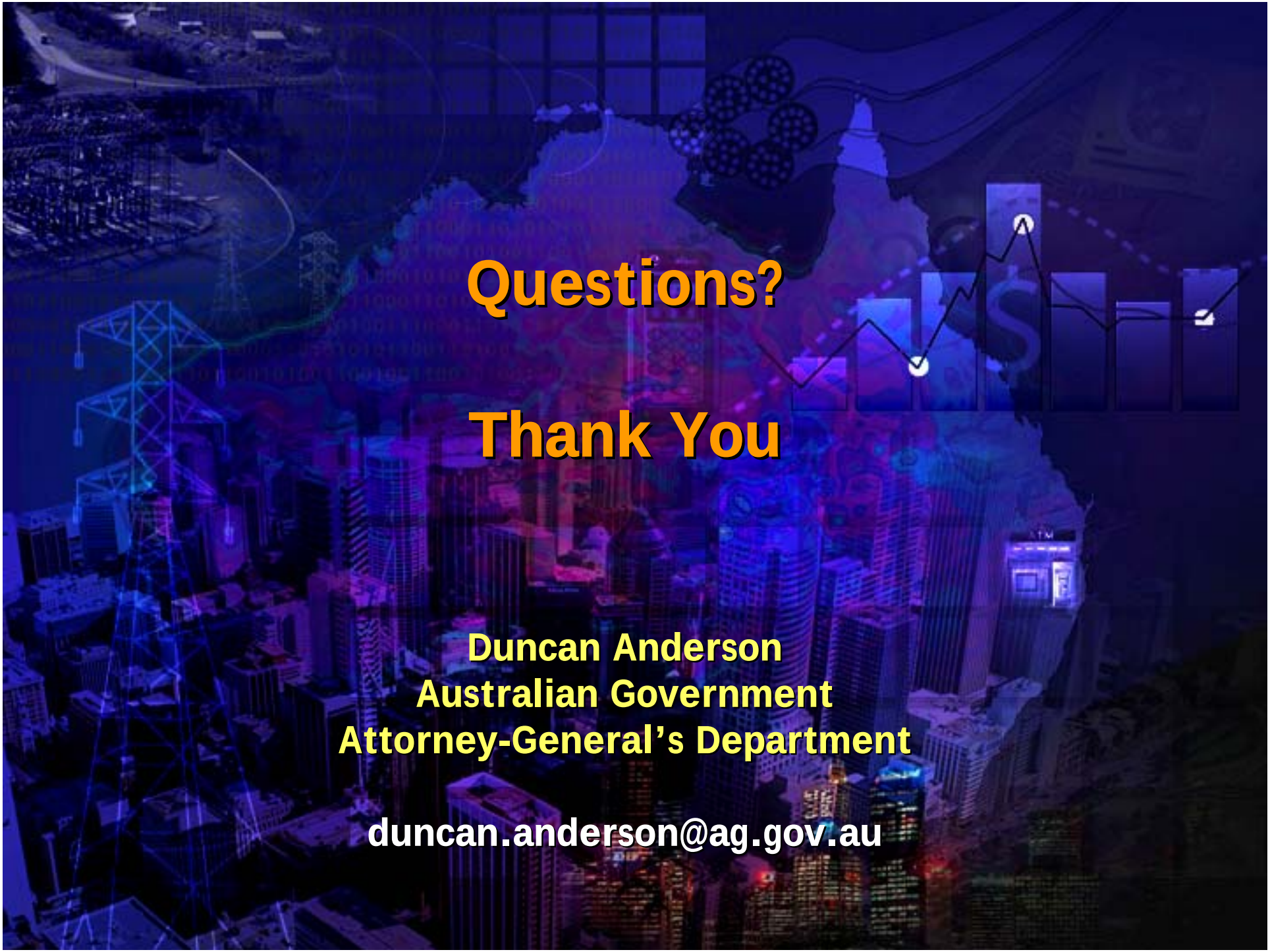
- Internet Gateway Consolidation
  - Enhance security while maintaining redundancy
  - Broader work on security of government systems
- Internet Service Provider Code of Practice
  - Educate and protect users
- International Engagement Strategy
  - Incident response, legal frameworks and law enforcement cooperation, critical infrastructure protection, capacity building
  - Bilateral, regional, multilateral institutions

Future Directions

- New Policy Framework
  - Released later in 2009
- Research and Development
  - National Security Science and Innovation Strategy
- Crisis Management Plan
  - Cyber security incidents of national significance
  - Exercise Cyber Storm III

Conclusions

- Government leadership role, in partnership with business and the community (domestically and internationally)
- Integrated approach against ‘all hazards’ and interdependenices
- Security is an enabler to providing **trusted** and **resilient** systems


Questions?
Thank You
Duncan Anderson
Australian Government
Attorney-General's Department
duncan.anderson@ag.gov.au