

DIGITAL GOVERNMENT

CYBER SECURITY AS AN IMPORTANT ROLE

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AGENDA

- STATE- SPONSORED CYBER WARFARE
- DIGITAL DEPENDENCY
- NATIONAL CYBERSECURITY STRATEGIES
- EMBEDDING SECURITY IN DIGITAL SERVICES
- CASE STUDY: PROTECTING DATA



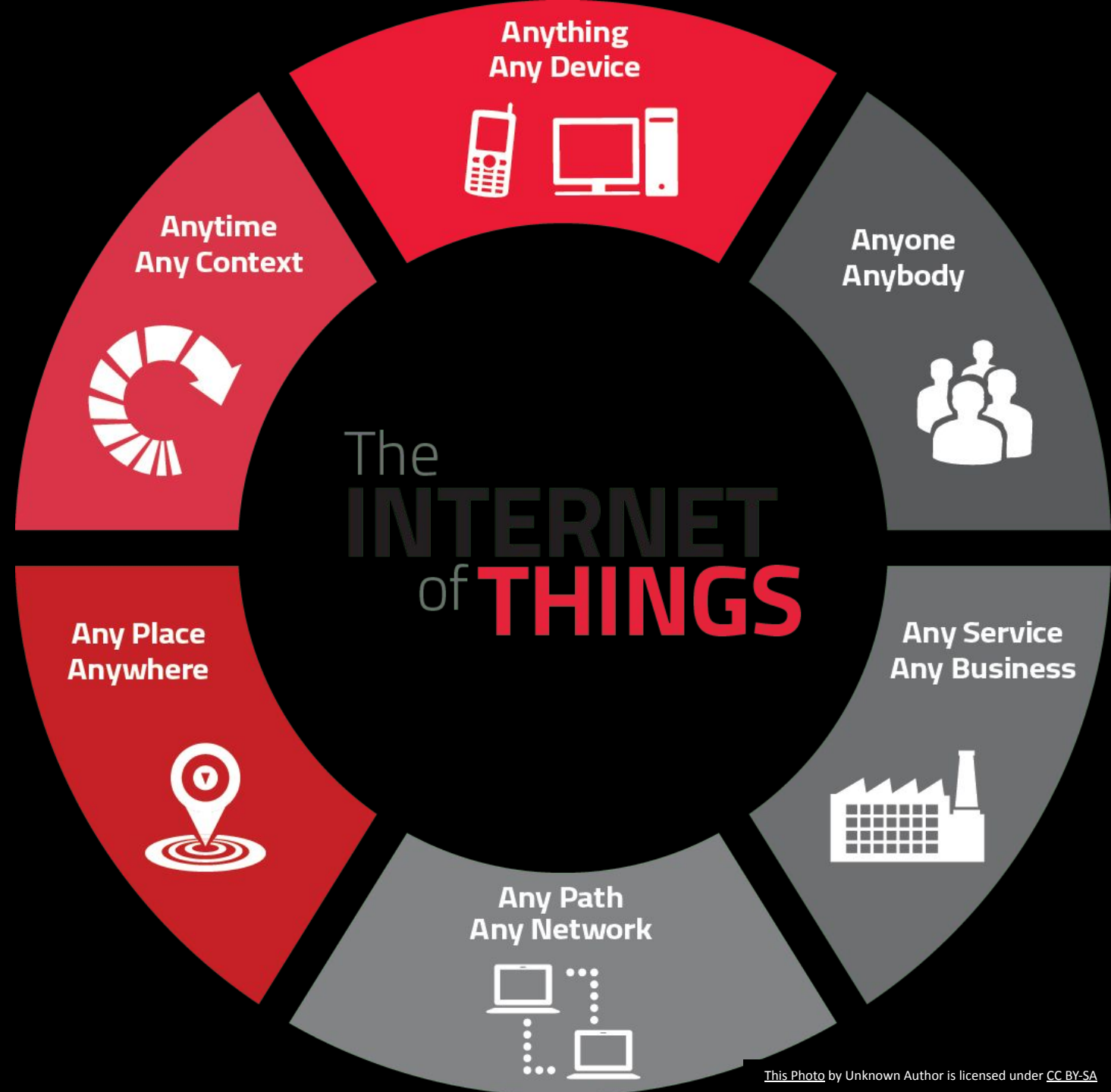


STATE SPONSORED CYBER-WARFARE

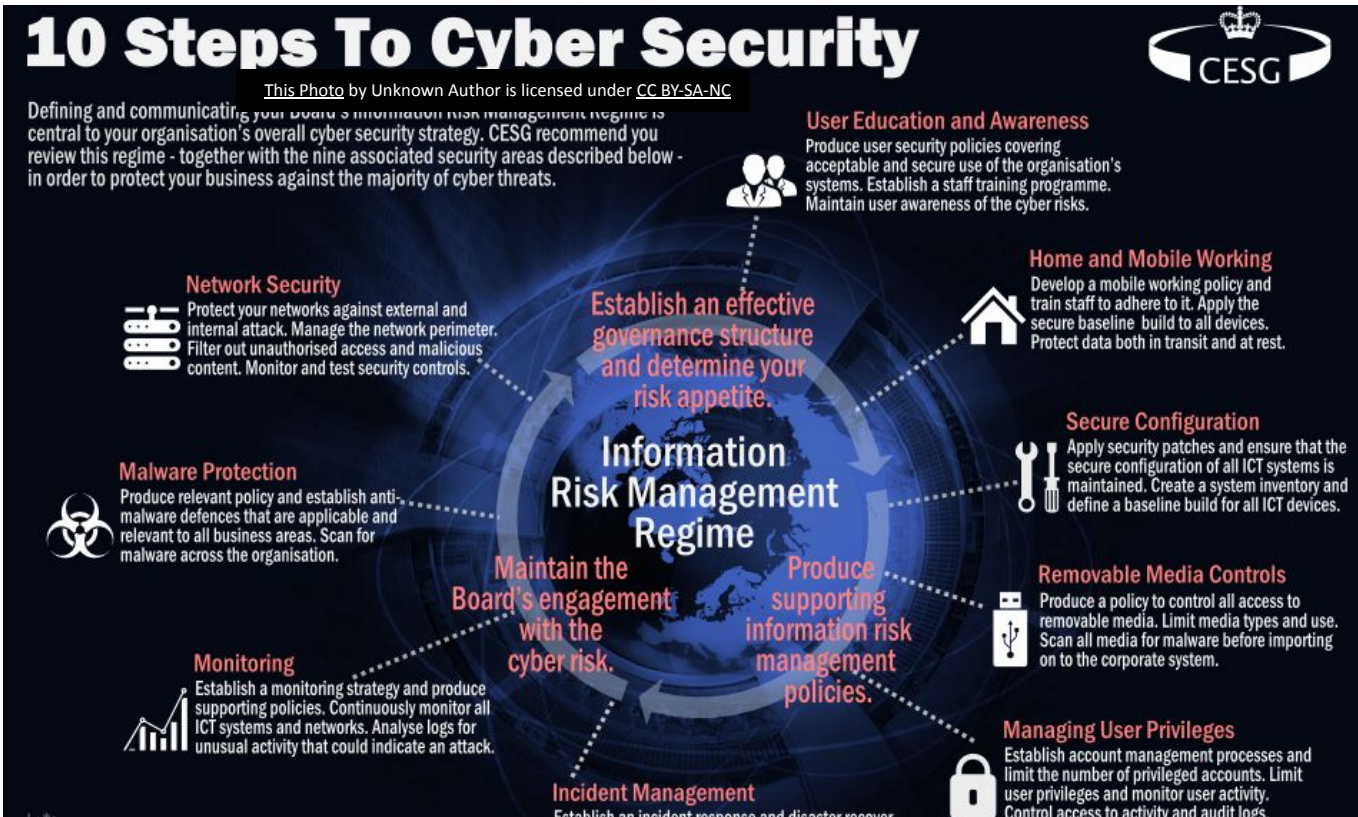
- Escalating geopolitical tensions have led to an increase in state-sponsored cyberattacks.
- These attacks target critical infrastructure, from election interference to alleged theft of sensitive COVID-19 vaccine research.
- Nonstate actors also possess technical prowess and resources to disrupt a country's infrastructure

DIGITAL DEPENDENCY

- Individuals and businesses rely heavily on digital connectivity for daily activities.
- Our dependence on the internet has grown exponentially, with new devices connecting globally every second.
- Disruptions in digital connectivity hinder progress and economic growth



NATIONAL CYBERSECURITY STRATEGIES



- Over 100 governments have developed national cybersecurity defense strategies.
- Successful strategies share common elements:
 - **Dedicated National Cybersecurity Agency (NCA):** A central authority to coordinate efforts.
 - **National Critical Infrastructure Protection Program:** Safeguarding critical systems.
 - **National Incident Response and Recovery Plans**
Preparedness for cyber incidents

EURASIP Journal on

Embedded Systems

EMBEDDING SECURITY IN DIGITAL SERVICES

1. To enhance security, project teams must make it everyone's responsibility.
 2. Cultivating a strong security culture ensure risks are understood and managed throughout the digital delivery lifecycle
- In summary robust cybersecurity measures are essential for delivering digital public services effectively and protecting citizens, businesses, and critical infrastructure

CASE STUDY: DATA PROTECTION



DATA PROTECTION

Safeguarding citizen data is of utmost importance for digital governments. Here are some key strategies to enhance data protection:

- 1. Encryption and Access Controls**
- 2. Secure Authentication**
- 3. Regular Security Audits**
- 4. Data Minimization**

CASE STUDY: DATA PROTECTION

5. Incident Response Plan

6. Secure Cloud Services

7. Privacy by Design

8. User Education

Remember, protecting citizen data is not just a legal obligation—it's a fundamental right! 🛡️🔒

THANK YOU



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