

NCSC Roles Responsibilities

Incident Response

• Lead national response to major cyber security incidents

Resilience

• Building capacity and resilience

Information Sharing and Support

• Enhance situational awareness amongst constituents and the general public in regard to relevant cyber security threats





Operational Tasks

Notification

- Victims
- Constituents
- General Public
- Partners

Analysis

- Malware
- Forensics
- Email
- Threat Actor Groups

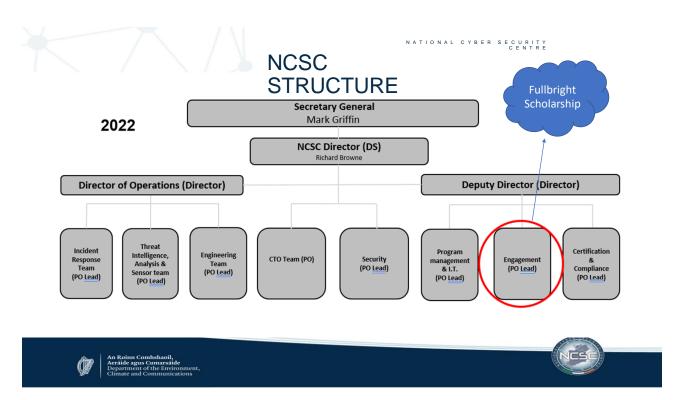
Monitoring

NATIONAL CYBER SECURITY CENTRE

- Threat Intel Database
- External Channels
- Partner Orgs







Cyber Security Baseline Standards NATIONAL CYBER SECURITY

https://assets.gov.ie/205834/1727388a-02d6-47d4-bebe-38774da2f321.pdf

NIS Compliance Guidelines for OES

https://assets.gov.ie/76729/ea0bcd3b-0161-41d2-8c51-df00e558689c.pdf

NCSC NL – Benefit more from your ISAC

 ${\color{blue} https://english.ncsc.nl/binaries/ncsc-en/documenten/publications/2020/february/24/apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-from-your-apractical-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-benefit-more-guide-b$

isac/200206+NCSC+Next+Gen+ISACs+EN+A4+web.pdf

Includes a checklist to determine ISAC Level for each capability:

- strategy and action plan
- working method
- information structure and information management
- situational awareness and lessons learned
- action





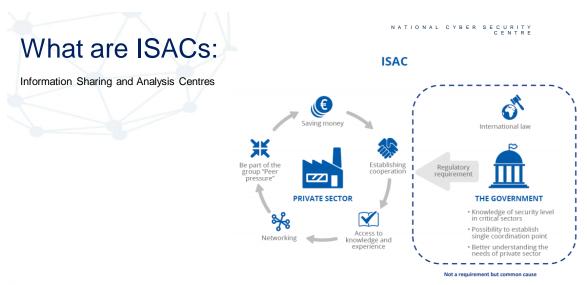


Figure 1: Reasons for the creation of ISACs





Types of ISACs

FNISA

Information Sharing and Analysis Centres (ISACs) models

- ☐ Country Focused
- Sector Specific
- International ISACs

CENTRI







Examples of sectors that have created ISACs:

> Financial



> Energy

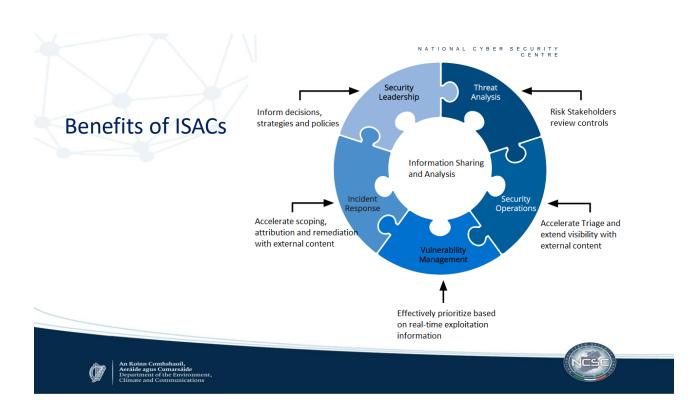


➤ Aviation











Building trust

Securely share information between organisations with different levels of cybersecurity maturity

Chinese walls

Ensure sharing does not impact compliance or law enforcement

Start slow

Build trust, define ToR, outline roles, responsibilities, information sharing protocols, establish links with other ISACs

Bottom up

Commission advocates a voluntary bottom up approach, rather than through Directives





Different perspectives

Atomic

What threat activity are we seeing?

Tactical

What threats should I look for on my networks and systems and why?

Operational

Where has this threat
What can I do about it?

What weaknesses does this threat exploit?

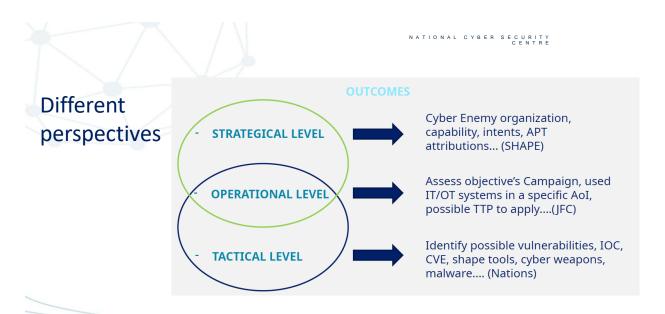
Why do they do this?

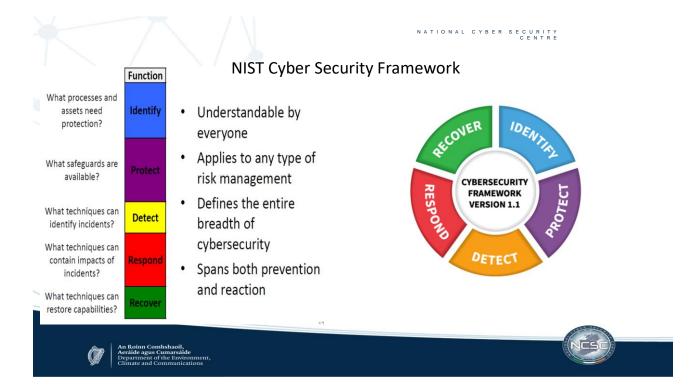
for this threat?

Source: https://forums.soltra.com/index.php?/fopic/266-soltra-intro-pdf-deck/











IDENTIFY

Risk Assessment (ID.RA):

Cybersecurity risk to organisational operations, assets, and individuals are identified and understood.

ID.RA-2:

Cyber threat (strategic, operational and tactical) and vulnerability information is received from information sharing forums and sources.

ID.RA-3:

Threats, both internal and external, are identified and documented.

ID.RA-5:

Threats, vulnerabilities, likelihoods, and impacts are used to determine risk. Risk assessments are dynamic and are updated in light of system or service changes, or changes to the threat environment.





ENISA

ENISA

Information Sharing and Analysis Centres (ISACs) models and good practice

https://www.enisa.europa.eu/topics/national-cyber-security-strategies/information-sharing

NIST

SP 800-150, Guide to Cyber Threat Information Sharing Guidelines for establishing and participating in cyber threat information sharing relationships

https://csrc.nist.gov/publications/detail/sp/800-150/final





NIST SP 800-53 R4

SI-5 SECURITY ALERTS, ADVISORIES, AND DIRECTIVES Control: The organization:

 Receives /Disseminates information system security alerts, advisories, and directives to/from [Assignment: organization-defined external organizations] on an ongoing basis

PM-15 CONTACTS WITH SECURITY GROUPS AND ASSOCIATIONS

Control: The organization establishes and institutionalizes contact with selected groups and associations within the security community:

- security education and training
- maintain currency with recommended security practices
- share current security-related information







Q & A



