ENISA'S WORK ON ISACS

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THE EU CYBERSECURITY ACT

*With a view to stimulating cooperation between the public and private sector and within the private sector, in particular to support the protection of the critical infrastructures, **ENISA** should **support information sharing** within and among sectors, in particular the **sectors** listed in Annex II to Directive (EU) 2016/1148, by providing best practices and guidance on available tools and on procedure, as well as by providing guidance on how to address regulatory issues related to information sharing, for example through facilitating the establishment of sectoral information sharing and analysis centres.*

2018

Information Sharing and Analysis Centres (ISACs)
Cooperative models

STUDY

2019

15 enisa anniversary

THE EU CYBERSECURITY AGENCY

ENISA'S OPINION PAPER ON ISAC COOPERATION

March 2019

ENISA presents its views on how ISACs strengthen EU cybersecurity and identifies the benefits of ISACs to the Digital Single Market.

INTRODUCTION

As cooperation is a *sine qua non* for ensuring cybersecurity, the European Union is a strong advocate of cooperation models in cybersecurity. The European Commission demonstrates its support through developing EU regulation such as the Cybersecurity Act[1], the recently launched Proposal for a European Cybersecurity Competence Network and Centre[2], and initiatives under the umbrella of the Connected Europe Facility[3]. EU public and private stakeholders look to ENISA, as the EU Agency supporting these EU focused cybersecurity activities.

In this brief paper, ENISA will share its opinion on the ongoing developments and traction of Information Sharing and Analysis Centers (ISACs). The ISAC-model has demonstrated its value to cyber experts, policy advisors and managers in EU Member states such as the Netherlands where the National Cyber Security Centre actively supports ISACs, and in sectors such as finance where ISAC cooperation exists for many years on pan European, international and national level.[4] The EU institutions, Member States and industry are increasing their interest in ISACs as a cooperation model: Organisations such as the European Cyber Security Organisation (ECSO) and the European Commission support the model by exploring financial programmes such as the Connecting Europe facility (CEF), discussing possibilities for cooperation, and suggesting further investment through procurement.

1   https://ec.europa.eu/digital-single-market/en/eu-cybersecurity-certification-framework
2   https://ec.europa.eu/digital-single-market/en/proposal-european-cybersecurity-competence-network-and-centre
3   https://ec.europa.eu/inea/en/connecting-europe-facility
4   https://www.ncsc.nl/samenwerking/_samenwerken/sectorale-samenwerking-isac.html

OPINION PAPERS

MODELS (1/3)

TYPES OF ISACS – COUNTRY FOCUSED

TYPES OF ORGANIZATIONS PARTICIPATING IN ISAC

- 🟠 Cyber security agencies
- ⚪ Service operator private
- ⚪ National competent authorities
- ⚪ Law enforcement
- ⚪ Product manufacturer private
- ⚪ National intelligence authorities

GOVERNANCE STRUCTURE

- ⚪ Management roles
- ⚪ Supporting roles
- 🟠 No structure

SECTORS

- 🟠 Energy
- 🟠 Drinking water supply and distribution
- 🟠 Health sector
- 🟠 Financial market infrastructures
- 🟠 Banking
- 🟠 Rail transport
- 🟠 Air transport
- 🟠 Maritime
- 🟠 Road transport
- 🟠 Food distribution
- 🟠 Other

COLLABORATION STYLES AND TOOLS

- 🟠 Regular meeting
- 🟠 Working groups
- 🟠 Conference and side events
- 🟠 Web portals/platform
- 🟠 Emails and teleconferences

CAPACITY BUILDING

- ⚪ Vulnerability and threat analysis
- ⚪ Training and excercises
- ⚪ Trend analysis

FUNDING OPTIONS

- 🟠 Government subsidies
- 🟠 Mandatory fees
- ⚪ Voluntary contribution

Legend
🟠 Covered ⚪ Uncovered

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MODELS (2/3)

TYPES OF ISACS – SECTOR SPECIFIC

TYPES OF ORGANIZATIONS PARTICIPATING IN ISAC

- 🟢 Cyber security agencies
- 🟢 Service operator private
- ⚪ National competent authorities
- 🟢 Law enforcement
- ⚪ Product manufacturer private
- 🟢 National intelligence authorities

GOVERNANCE STRUCTURE

- 🟢 Management roles
- 🟢 Supporting roles
- ⚪ No structure

SECTORS

- 🟢 Energy
- 🟢 Drinking water supply and distribution
- 🟢 Health sector
- 🟢 Financial market infrastructures
- 🟢 Banking
- ⚪ Rail transport
- 🟢 Air transport
- 🟢 Maritime
- ⚪ Road transport
- ⚪ Food distribution
- 🟢 Other

COLLABORATION STYLES AND TOOLS

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CAPACITY BUILDING

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- ⚪ Training and excercises
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FUNDING OPTIONS

- ⚪ Government subsidies
- 🟢 Mandatory fees
- 🟢 Voluntary contribution

Legend
🟢 Covered ⚪ Uncovered

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MODELS (3/3)

TYPES OF ISACS – INTERNATIONAL ISAC

TYPES OF ORGANIZATIONS PARTICIPATING IN ISAC

- 🔴 Cyber security agencies
- 🔴 Service operator private
- 🔴 National competent authorities
- ⚪ Law enforcement
- 🔴 Product manufacturer private
- ⚪ National intelligence authorities

GOVERNANCE STRUCTURE

- ⚪ Management roles
- ⚪ Supporting roles
- ⚪ No structure

SECTORS

- 🔴 Energy
- ⚪ Drinking water supply and distribution
- ⚪ Health sector
- 🔴 Financial market infrastructures
- 🔴 Banking
- ⚪ Rail transport
- 🔴 Air transport
- ⚪ Maritime
- ⚪ Road transport
- ⚪ Food distribution
- ⚪ Other

COLLABORATION STYLES AND TOOLS

- 🔴 Regular meeting
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CAPACITY BUILDING

- 🔴 Vulnerability and threat analysis
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FUNDING OPTIONS

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Legend

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COMMON CAPABILITIES

- Trust building

- Information sharing

  Incidents, threats, vulnerabilities, situational awareness, mitigation measures, best practices, strategic analysis

- Analysis

  Trend analysis, early warnings

  Pre mature task – need for resources

- Capacity building

  Training and exercises

ENISA SUPPORTS **COLLABORATION**

- European Rail ER ISAC
  - Already launched – specific activities to be formalised
  - ENISA supports the activities

- European Aviation EA ISAC
  - Cooperation agreement signed
  - ENISA doesn't participate currently due to legal restrictions

- European Finance FI ISAC
  - ENISA to provide secretariat
  - Organizing physical meetings on request

- European Energy EE ISAC
  - Webinars (3 times per year) and trainings
  - ENISA is working on the development of a threat landscape for the energy sector
  - Organizing physical meetings on request
    - Back to back meeting with NIS Directive CG WS8 (March 2019)
    - Next EE ISAC meeting on 26 November, Athens

Under Consideration
European Healthcare ISAC
European Maritime ISAC?

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FUTURE WORK
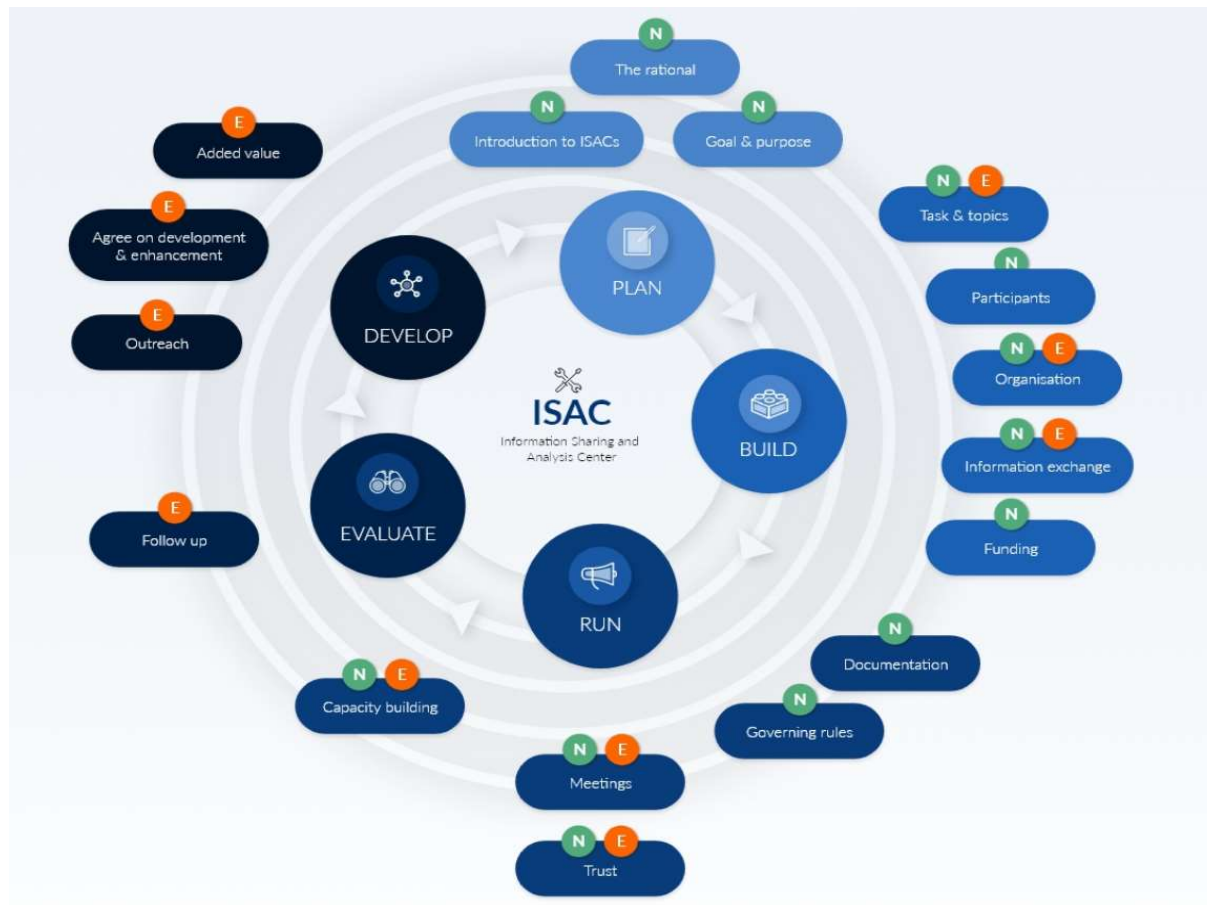
THANK YOU FOR YOUR ATTENTION

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