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# Cybersecurity

In een Europees speelveld

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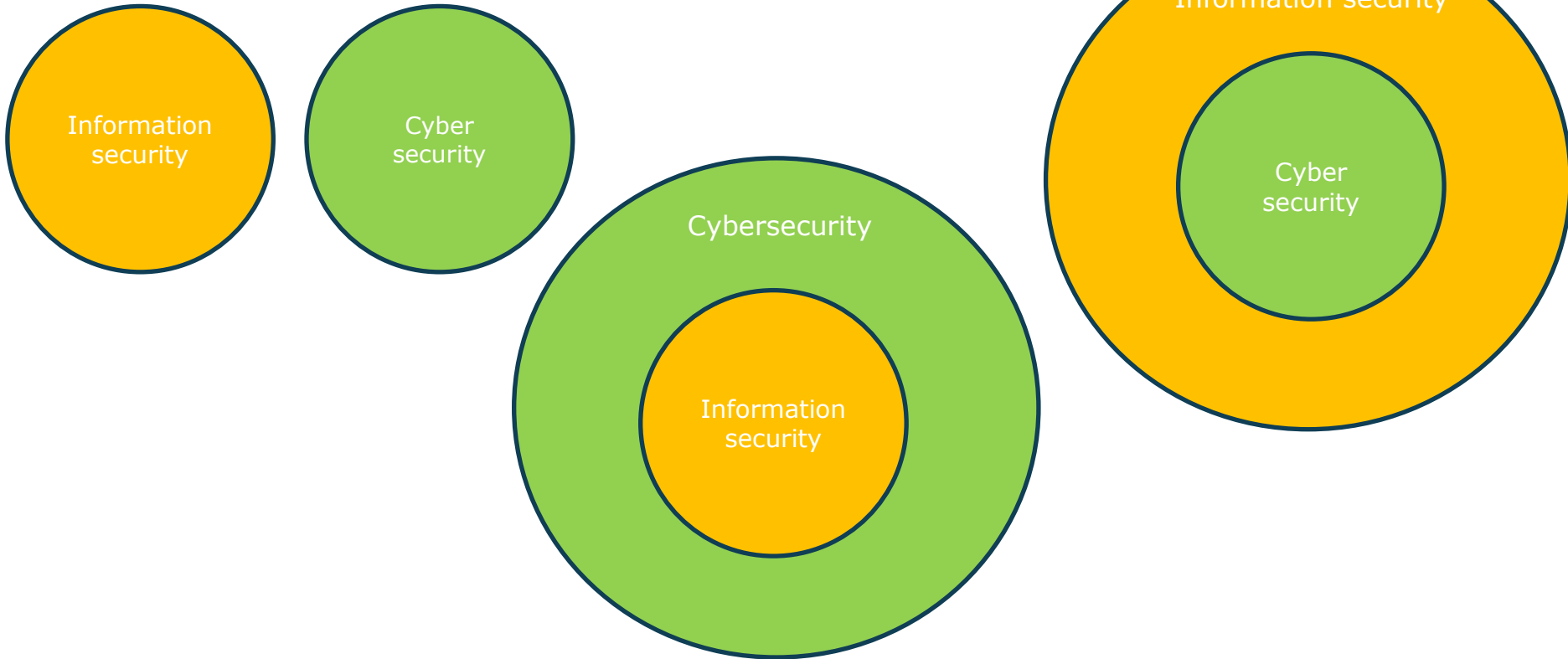
23 september 2024

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# Cybersecurity?

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# Information security versus Cybersecurity



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# Definities

## Information security [ISO 27000:2020]

reservation of confidentiality (3.10), integrity (3.36) and availability (3.7) of information.

- *Note 1 to entry: In addition, other properties, such as authenticity (3.6), accountability, non-repudiation (3.48), and reliability (3.55) can also be involved.*

## Cybersecurity [# ISO 27000! → ISO/IEC TS 27100:2020 Cybersecurity — Overview and concepts]

The objective of adequate cybersecurity is to maintain an acceptable level of stability, continuity and safety of entities operating in cyberspace.

- *Areas of concern for cybersecurity include:*
  - a) stability and continuity of society, organizations and nations;*
  - b) property (including information) of people and organizations; and*
  - c) human lives and health.*

# Wat betreft “Safety”?



ISO/IEC Guide 51:2014(en) **Safety aspects** — Guidelines for their inclusion in standards

- Safety = freedom from risk (3.9) which is not tolerable
- Tolerable risk – level of risk (3.9) that is accepted in a given context based on the current values of society
- (3.9) Risk – combination of the probability of occurrence of **harm** (3.1) and the severity of that **harm**

Midden-Oostenblog

Onrust Midden-Oosten

NOS Nieuws • Maandag, 09:57 • Aangepast vandaag, 09:15

## **Dodental explosies gisteren naar 20 • Fabrikant: portfoon al 10 jaar uit productie**

In dit blog houden we je op de hoogte van de laatste ontwikkelingen in het Midden-Oosten.

- Opnieuw explosies van communicatie-apparatuur van [Hezbollah](#).
- Dodental portfoonexplosies opgelopen naar 20, zeker 450 gewonden.
- 3500 gewonden en 12 doden bij pieperexplosies op woensdag in Libanon.

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# En wat zegt de cybersecurity regelgeving?



REGULATION (EU) 2019/881 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 April 2019 on ENISA .... and on information and communications technology cybersecurity certification and repealing Regulation (EU) No 526/2013 (Cybersecurity Act) – Article 2 (a)

**'cybersecurity'** means the activities necessary to protect network and information systems, *the users* of such systems, *and other persons* affected by *cyber threats*,

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# Eenduidig



NIS2



CER



AI Act



eIDAS (update)



DORA



Machine Directive



CRA (Cyber Resilience Act)



Cyber Solidarity Act



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# Relatie informatiebeveiliging en cybersecurity?



## ISO/IEC TS 27100:2020 Cybersecurity — Overview and concepts

- Breach of information security in cyberspace can cause a cybersecurity incident. This means that the information security risks are viewed as cyber risks in the context of cybersecurity.
- Relationship:
  - Cyberspace as a field of risk sources for an ISMS;
  - ISMS in support of cybersecurity;
  - Cybersecurity framework (ISO 27110);
  - Cybersecurity and safety;
  - Cyber insurance.



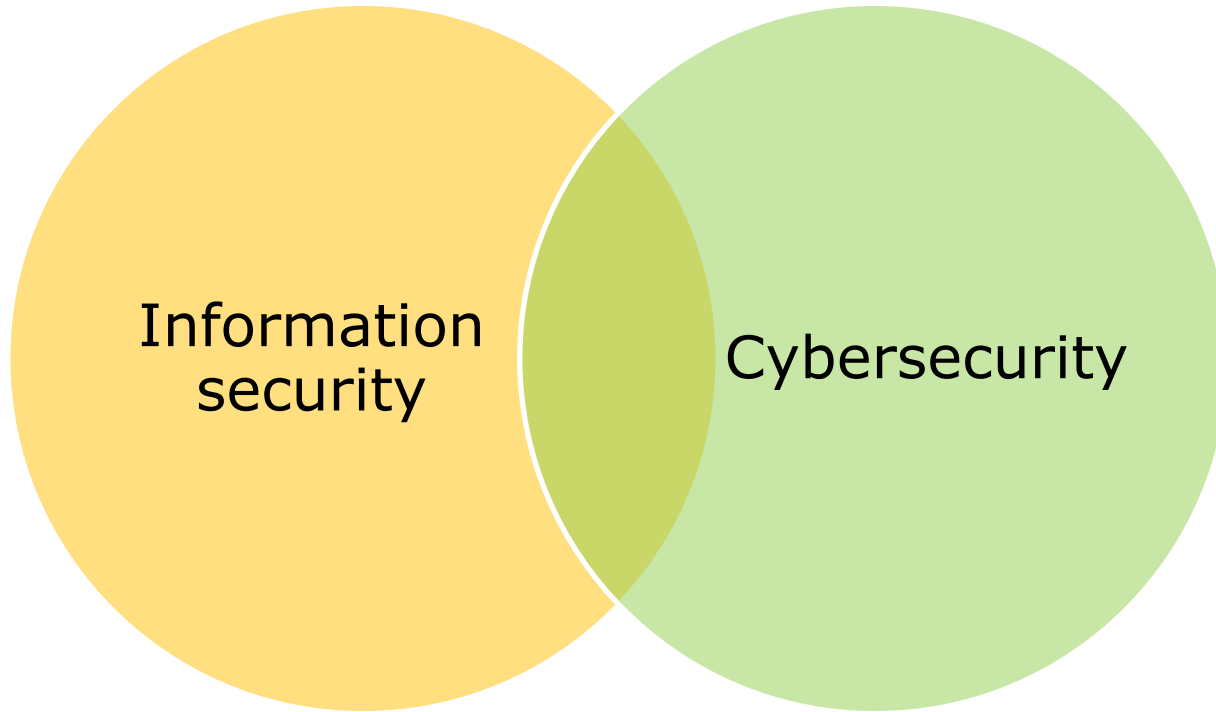
## Cybersecurity framework development guidelines (ISO/IEC TS 27110:2021, IDT)

*Annex A (informative) Considerations in the creation of a cybersecurity framework*



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# Cybersecurity



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# Cybersecurity als maatregel

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# Cybersecurity framework



ISO/IEC TR 27103:2018(E) Security techniques — Cybersecurity and ISO and IEC Standards  
*functions, or high-level descriptions of desired outcomes, which are concurrent and continuous*

- *Identify;*
- *Protect;*
- *Detect;*
- *Respond;*
- *Recover.*



NIST : Framework for Improving Critical Infrastructure Cybersecurity (version 1.1)

- *Identify;*
- *Protect;*
- *Detect;*
- *Respond;*
- *Recover.*

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# Developments



The NIST Cybersecurity Framework (CSF) 2.0 [26 February 2024]

- *Govern*: *The organization's cybersecurity risk management strategy, expectations, and policy are established, communicated, and monitored.*
- *Identify*: *The organization's current cybersecurity risks are understood.*
- *Protect*: *Safeguards to manage the organization's cybersecurity risks are used.*
- *Detect*: *Possible cybersecurity attacks and compromises are found and analyzed.*
- *Respond*: *Actions regarding a detected cybersecurity incident are taken.*
- *Recover*: *Assets and operations affected by a cybersecurity incident are restored.*

**Remark: Where is risk management?**

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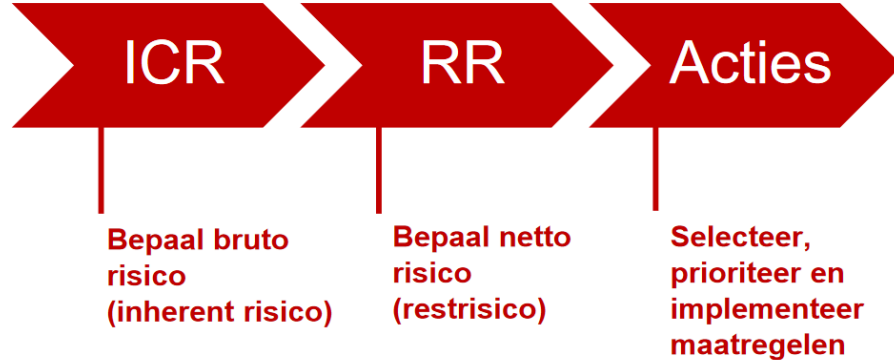
# Developments



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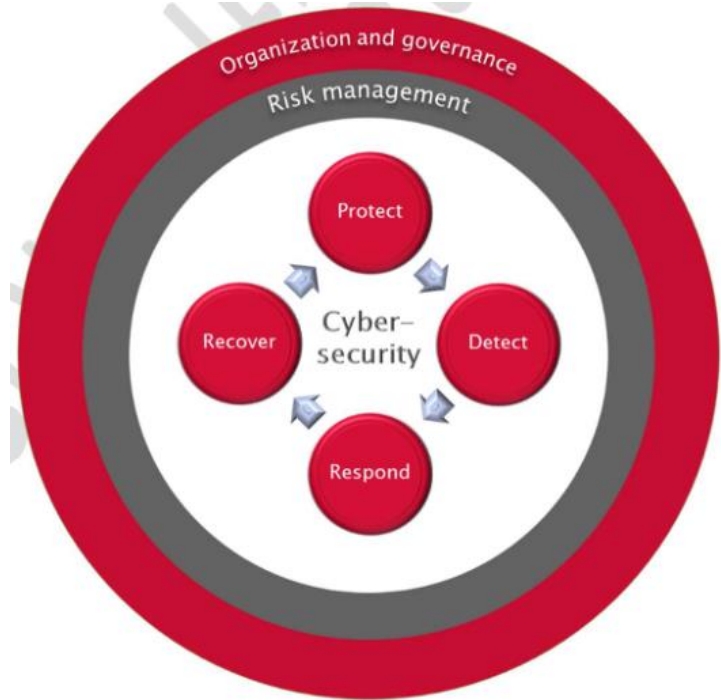
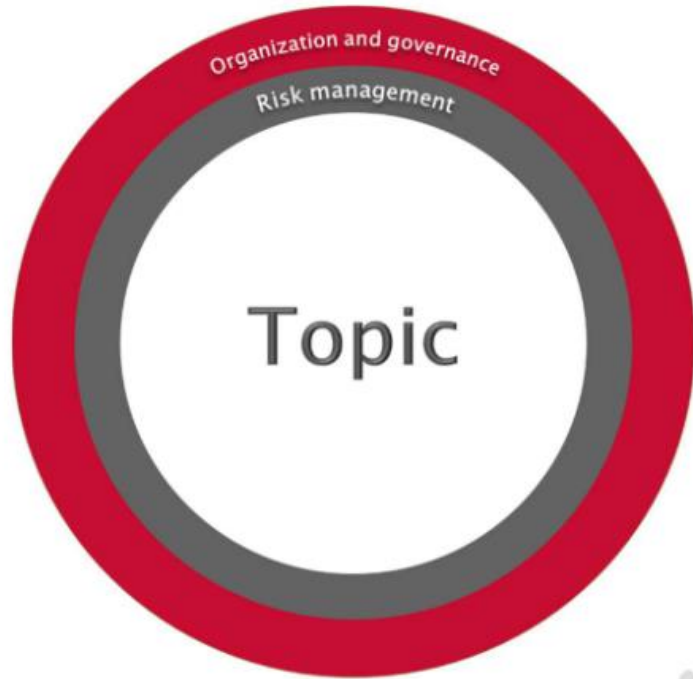
# NOREA Cybersecurity Assessment



Update vragenlijst en handreiking:

1. De vragen zijn aangepast zowel voor de ICR (bepaling impact) als de CSA (bepaling beheersing).
2. De Excel tool bevat nu 7 standaarden zoals ISO27002, NIST CSF, Cobit en DNB GP IB. Diverse standaarden zijn bijgewerkt naar de nieuwste versie, oude en niet meer relevante standaarden zijn verwijderd.
3. Het toevoegen van een dashboard in de spreadsheet:
4. Diverse berekeningen voor het bepalen van de scores.

# NOREA Reporting Initiative - NRI



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# Impact



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# Uitdagingen in het managen van cybersecurity



## Scope bepaling

- Nieuwe assets of andere weging mate van kritiek zijn;
- Beperking tot “cyberspace” of uitbreiding met “cyberspace”;
- Interactie met andere organisaties in de keten.



## Nieuwe kwaliteitscriteria?:

- Safety component in “Cybersecurity” = information security met een plus;
- Ander beeld voor “continuïteit”?



## Geeft nieuwe perspectieven op risico's die een plaats moeten krijgen in risicomanagement!

- Cyber risks # cybersecurity risks;
- Focus op impact op personen, organisaties en/of landen, maar tot hoever? ;
- Welke bedreigingen en kwetsbaarheden waarvoor nieuwe of aanvullende maatregelen;
- Aanpassen en/of aanvullen op ISMS of een Cybersecurity management systeem?



## Producten versus diensten? Of diensten versus producten?

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# Kansen



## Adresseren van cybersecurity:

- Organisaties meer aandacht voor impact op maatschappij;
- Cyber Risico's raakt individuen : “meer vertrouwen” als er aandacht voor is en transparantie wordt betracht;
- Security by design;
- Onderstrepen van het ketenperspectief;
- “bridging safety and security”.



## Verantwoorden over:

- Opties voor een meer geïntegreerde benadering van security;
- Handvat voor horizontale verantwoordingen;
- Management krijgt meer houvast voor haar governance / risk / compliance taken;
- Kleinere communicatiekloof tussen maatschappij en organisaties.



## Bevestiging vertrouwen (audit + conformity assessment)

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# EU regelgeving?

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# 1. Rol van “presumption of compliance” New Legislative Framework (NLF)

- improves market surveillance
- rules to better protect both consumers and professionals from unsafe products, including those imported from outside the EU. In particular, **this applies to procedures for products which can pose danger to health or the environment**;
- sets clear and transparent rules for the accreditation of conformity assessment bodies;
- boosts the quality of and confidence in the conformity assessment of products through stronger and clearer rules on the requirements for the notification of conformity assessment bodies;
- clarifies the meaning of **CE marking** and enhances its credibility;
- establishes a common legal framework for industrial **products** in the form of a toolbox of measures for use in future legislation. This includes definitions of terms commonly used in product legislation, and procedures to allow future sectorial legislation to become more consistent and easier to implement.

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[https://single-market-economy.ec.europa.eu/single-market/goods/new-legislative-framework\\_en](https://single-market-economy.ec.europa.eu/single-market/goods/new-legislative-framework_en)

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# 1<sup>st</sup> implementatie : Cybersecurity + NLF!

 Radio Equipment Directive (RED) vraagt om standaarden met requirements

 Standaardisatie verzoek (SR) van EC naar ...

 Resultaat:

*NEN-EN 18031-1:2024 Common security requirements for radio equipment : delen 1 tot en met 3*

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# Gevolgd door standaarden voor



Cyber Resilience Act



AI Act



Machine directive



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## 2. Cybersecurity certification framework

 Vastgelegd in de Cybersecurity Act (update is onderhanden) 2019/881

 “Voluntary”

 Maar heeft / krijgt referenties (Machine Directive / Cyber Resilience Act / AI Act / NIS2) voor high risk certificeringsoptie met “presumption of compliance”

 Komt op stoom:

- EUCC (Common Criteria) [februari 2024 / reeks van standaarden]
- EUCS (Cloud services) [verwacht Q4 2024 / CEN TS 18027:2024]
- Onderhanden EU5G (meerdere)

 URWP (Union Rolling Working Plan) geeft plan en prioriteiten

 Update CSA moet proces efficiënter gaan maken

 EUCC momenteel erkent als de “trust” voor “high risk” producten

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# Highlights Cybersecurity regulatory approach

 Standards!!!!

 Products versus Services

- Lifecycle management (intended use)
- Operating effectiveness

 Risk based

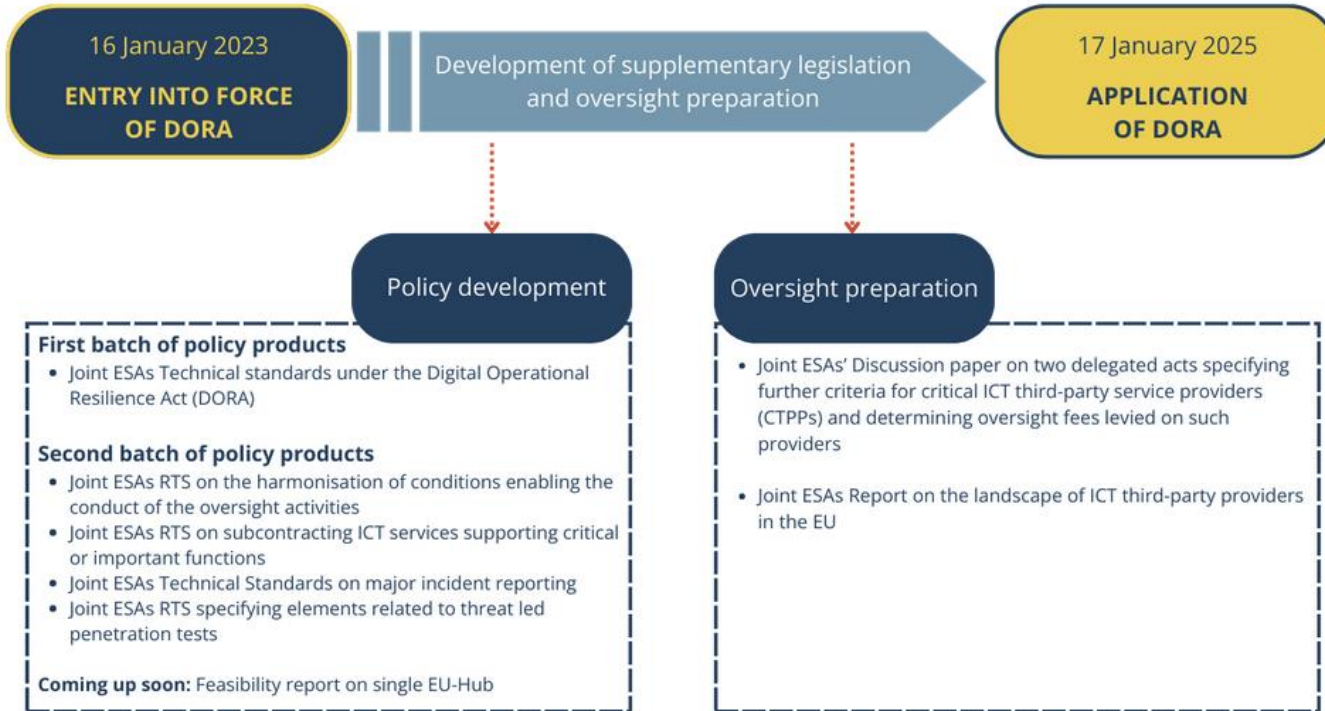
 Issues

- Incident handling
- Vulnerability management
- SBOM (Software Bill of Materials)
- (Cyber)security by design
- Reporting / responsibilities / communication with supervisory authorities
- Competencies and Education
- Interplay

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# 3. Supplementary regulation



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# Wat zijn hieruit de “take aways”?

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# Aandacht voor:

## Volg de ontwikkelingen rond (EU) regelgeving!

- Actuele ontwikkelingen op het terrein van cybersecurity en aanpalende domeinen Jaargang (onder redactie van Rob Bouman) – NOREA Kennisgroep Cybersecurity
- Wetgevingsoverzicht Online Trust Coalitie (<https://onlinetrustcoalitie.nl/publicaties/>)

## Volg de standaardisatie!

## Implementatie

- Vergroot de scope en inhoud van het ISMS met een cybersecurity framework implementatie;
- Actualiseer de governance en verantwoordingsstructuur;
- Speciale aandacht voor de (potentiële) impact van cyber risico's binnen risicomanagement;
- Doorvertalen naar “attack surfaces” en “threats”, “vulnerabilities” (attack types).

## Samenwerking en verantwoording

- Werk aan relatie met toezichthouders;
- Heb aandacht voor de ketenbenadering en ga samenwerken voor cyberweerbaarheid;
- Maak Cyberweerbaarheid aantoonbaar.

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# Bedankt

Voor meer informatie kun je contact opnemen met:

**Ruud Kerssens RE RA CISA CRISC**

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23 september 2024]