



Why this initiative?

- Because there is a need for knowledge and information sharing on IT/OT security solutions.
- Because there is a need for a harmonized and integral application of privacy & security legislation and standards (ISO, IEC, ISA, GDPR etc.)
- Because there is a need for a community that can speak for the agricultural sector on the topic of cyber security.

The initiative started with the collaboration of ForFarmers and Nutreco, followed by Vion, Royal Friesland Campina, Eurofins and De Heus. All providing their cyber security experts to help develop a cyber security sector standard, supported by other stakeholders.



The 'Agrifood Cyberweerbaarheid' project

- Bringing the cyber resilience of the sector to a higher level by:
 - Developing the cyber security baseline
 To be used by small, medium and large companies to determine where they stand with the level of cyber resilience.
 - 2. Cyber Security assessment tool
 A cloud application for performing a cyber security resilience analysis.
 - Cyber Security workshops
 Series of workshops (physical and virtual) for the agricultural sector, for knowledge exchange and dissemination of information in the field of cyber resilience.



Agrifood Cyberweerbaarheid, project team

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Agrofood Cybersecurity, self-assessment tool

Developed by:

- Stark Narrative (Omara Naha) and Berkeley Bridge (Oskar Snijders), supported by Twan van Rhee (Vion, on behalf of the projectteam)
- Test-url: https://agroconnect-test.bridge-to-knowledge.nl/?modelname=agroconnect

Covers:

IDENTIFY → PROTECT → DETECT → RESPOND → RECOVER

Based on the Agrifood Cybersecurity baseline.

Meant for cybersecurity experts in agrifood.



Agrofood Cybersecurity, baseline controls



Agrofood Cybersecurity, selection controls

А	В	С		D		Е	F
Function	Category	Subcategory	Control sele	ection by duo		Risk level	Assessment question
Function	Asset Management (ID.AM): The data, personnel, devices, systems, and facilities that enable the organization to achieve business purposes are identified and managed consistent with their relative importance to organizational objectives and the organization's risk strategy.	Subcategory ID.AM-1: Physical devices and systems within the organization are inventoried ID.AM-2: Software platforms and applications within the organization are inventoried ID.AM-3: Organizational communication and data flows are mapped	Physical Asso Develop and 1. Accurately 2. Includes a 3. Does not i 4. has a le			Low Low	ID1. Is an inventory of system hardware components developed and documented, reflecting the complete IT/OT infrastructure? ID2. Is an inventory of system software components developed and documented, reflecting the complete IT/OT infrastructure? ID3. Is an inventory of data communication components developed and documented, reflecting the complete IT/OT infrastructure interfaces?
			1. Accurat 2. Include 3. Does not system; 4. has a le	and documented, reflecting the complete IT/OT infrastructure?		Medium	
		ID.AM-5: Resources (e.g., hardware, devices, data, time, personnel, and software) are prioritized based on their classification, criticality, and business value	Security C Categoriz a. Identify b. Identify c. Identify d. Docum e. Verify t	ID2. Is an inventory of system software components developed	ı	Medium	ID4. Do the inventoried compone of the IT/OT infrastructure have a security categorization based on classification, criticality and value the business?
		ID.AM-6: Cybersecurity roles and responsibilities for the entire workforce and third-party stakeholders (e.g., suppliers, customers, partners) are established	Security o - Establish implemer - Impleme (prioritizi) - Identify	and documented, reflecting the complete IT/OT infrastructure?	rce force.	Medium	ID5. Is a security organization established including roles & responsibilities for te entire workforce and stakeholders, security awareness and training programs and needed skills and competences?
				ID3. Is an inventory of data communication components developed and documented, reflecting the complete IT/OT infrastructure interfaces?			
				IDA Do the inventoried components			



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Agrifood Cyber Resilience Self-Assessment Tool



How to increase your organization's level of cyber resilience

This self-assessment tool has been developed to help determine your organization's level of cyber resilience. The outcome of the assessment serves as a snapshot of, or insight into the 'as-is' situation of your organization. Having this insight will help establish possible shortcomings, as well as determine what measures are needed for your organization to achieve a higher level of cyber resilience. Required measures will vary from organization to organization. Please first proceed to the classification questions to determine your organization's cyber resilience category High, Medium, or Low.

Agrifood Cyber Resilience

Reducing the vulnerability of the agrifood chain to cyber-attacks requires a sector-wide approach. Seven leading agribusiness organizations have taken the lead in setting up an agrifood cybers supervision of sector organization AgroConnect. Separate initiatives by individual companies are now being combined and reinforced into a network and joint approach of measures to establis

One of the aids the network is pleased to provide is a Self-Assessment Tool, which can be used to determine an organization's level of cyber resilience - on a strategic as well as a tactical and op





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Agrifood Cyber Resilience Self-Assessment Tool





IT/OT systems

How much damage is done if the IT/OT systems are down for 2-3 days due to a cyber-attack?

- O No or very limited damage
- O Serious damage with financial losses we can sustain
- O The continued existence of the company may be threatened

< Prior

Next >

Low

None of the organization's identified cyber resilience risks classify as category Medium or High

Medium

There is a risk that the security of the organization is not fully effective. As a result, and in the worst-case scenario, a cyber incident could result in:

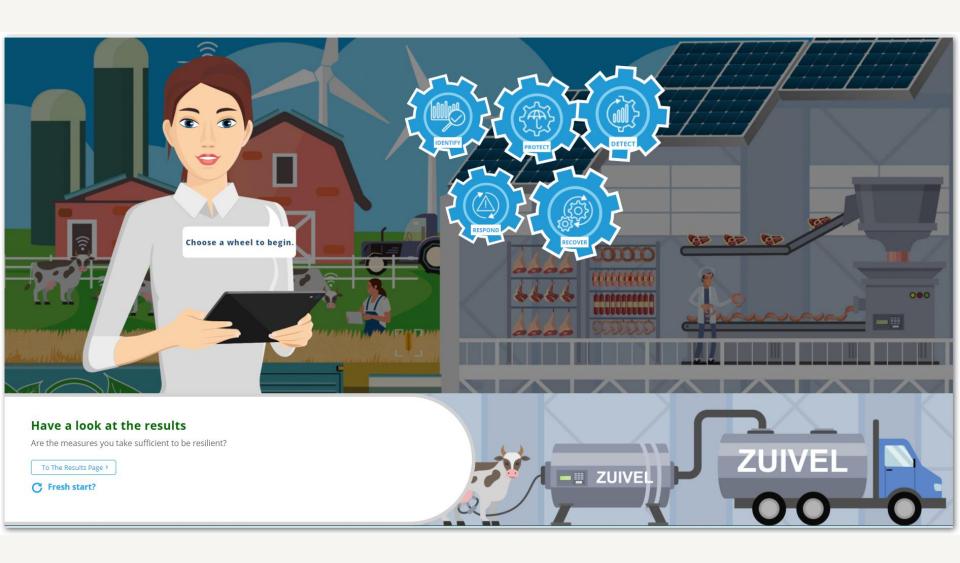
- Financial consequences, which can still be absorbed by your company;
 AND/OR
- Violation of company policy or ethics with limited consequences;
 AND/OR
- Unsafe situations that may lead to hospitalization; AND/OR
- Failure to achieve business objectives; AND/OR
- · Moderate or minor damage to the environment.

High

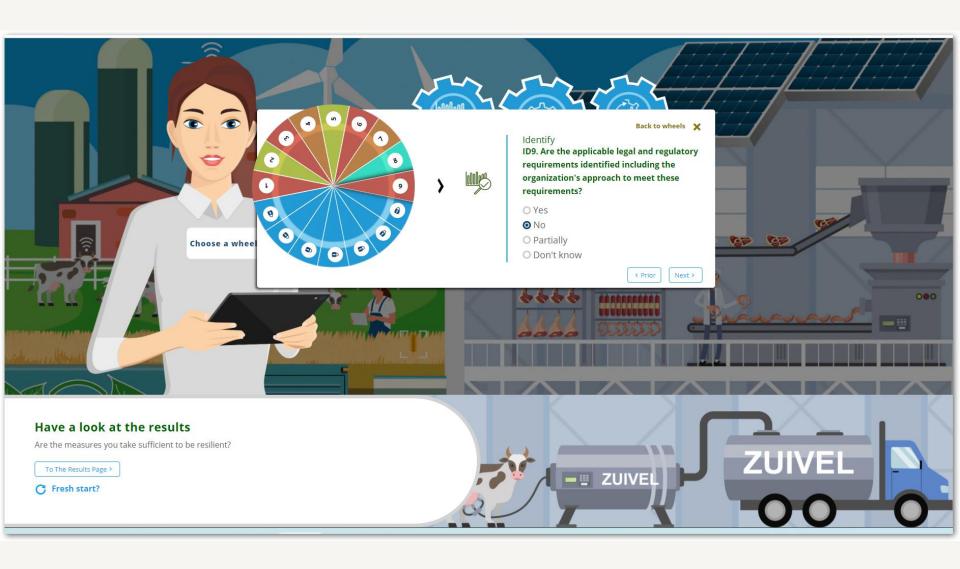
There is a significant risk - that in the worst-case scenario - a cyber inc will result in:

- Serious financial consequences, possibly leading to redundancy or bankruptcy; OR
- Unsafe, life-threatening situations; AND/OR
- Failure to achieve key business objectives; AND/OR
- Serious damage to the environment; AND/OR
- Failure to comply with laws and regulations.







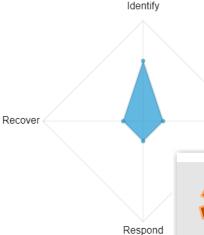




Agrifood Cyber Resilience Self-Assessment Tool

Result

You need to answer more assessment questions to determine your score.





Protect

Identify

You are doing well, but there is

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Agrifood Cyber Resilience Self-Assessment Tool

How to increase your organization's level of cyber resilience

This self-assessment tool has been developed to help determine your organization's level of cyber resilience. The outcome of the assessment serves as a snapshot of, or insight into the 'as-is' situation of your organization. Having this insight will help establish possible shortcomings, as well as determine what measures are needed for your organization to achieve a higher level of cyber resilience. Required measures will vary from organization to organization. Please first proceed to the classification questions to determine your organization's cyber resilience category High, Medium, or Low.

IT/OT systems

How much damage is done if the IT/OT systems are down for 2-3 days due to a cyber-attack?

Intellectual Property (IP)

How severe is the damage if business critical information or intellectual property is stolen due to a cyber attack?

Serious damage with financial losses we can sustain

The impact is so significant that corrective measures are hardly sufficient



Protect

You need to answer more questions in this section to determine your score.

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Respond

You need to answer more questions in this section to determine your score. $\label{eq:constraint}$

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Recover

You need to answer more questions in this section to determine your score.

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Identify



Please proceed and answer further questions to see what could be improved.

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- ✓ ID1. Is an inventory of system hardware components developed and documented, reflecting the complete IT/OT infrastructure?
- ✓ ID2. Is an inventory of system software components developed and documented, reflecting the complete IT/OT infrastructure?
- ✓ ID3. Is an inventory of data communication components developed and documented, reflecting the complete IT/OT infrastructure interfaces?
- ✓ ID4. Do the inventoried components of the IT/OT infrastructure have a security categorization based on e.g. classification, criticality and value to the business?
- ✓ ID5. Is a security organization established including roles & responsibilities for the entire workforce and stakeholders, security awareness and training programs and needed skills and competences?
- ✓ ID6. Is the organization's role towards security in the business supply chain identified?
- Cyber security policy

 A set of policies for cyber security shall be defined, approved by management, published and communicated to employees and relevant external parties.
- Legal and Regulatory requirements

 Identify all relevant legislative statutory, regulatory, contractual requirements and the organization's approach to meet these requirements shall be explicitly identified, documented and kept up to date for each information system and the organization.

Privacy & Protection of Personally Identifiable Information

Privacy and protection of personally identifiable information shall be ensured as required in relevant legislation and regulation where applicable.