

Cybersecurity Canvas

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Benefits

Benefits



Simplify strategy



Connect cybersecurity to business goals



Easy collaboration with stakeholders

The canvas stands firm and tall, Free to use to guard us all.

What is the Cybersecurity Canvas?



Cybersecurity Canvas

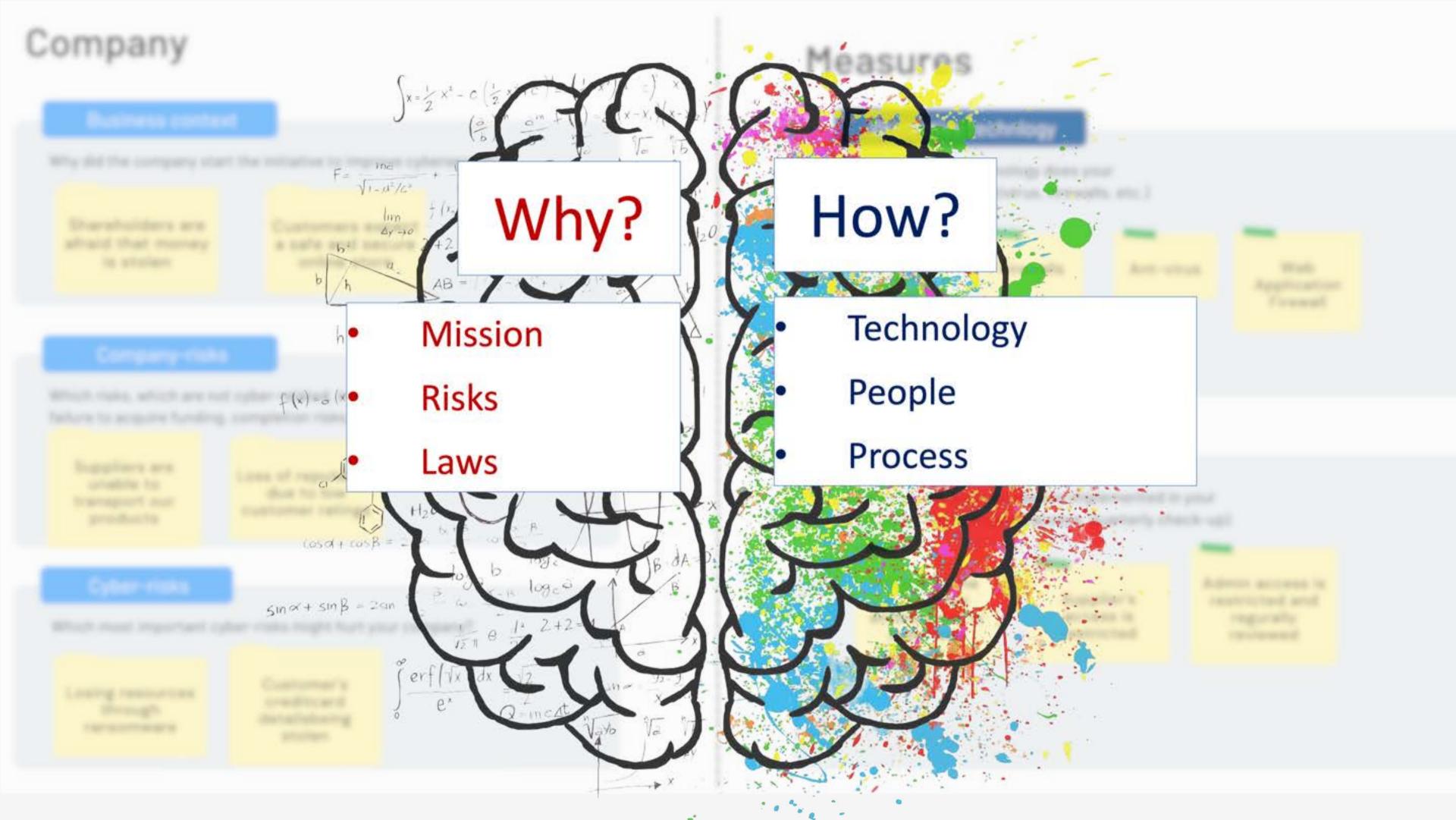
Born out of Scientific Research

Helps to design a single view of the cybersecurity strategy

Works like the well-known Business Model Canvas

Created in collaboration with:





Company $F=\frac{m_0}{\sqrt{r_+\mu^2/c^2}}$ Shareholders are afreid that money a Right Left h=Va,xt f(x) = o(x-x,)(x)Suppliers are cosal+ cosB = = Automor access to Sin x + sin B = 2sin restricted and ertiv 6,



Digital Marketing & Co.



30% increased revenue from new digital efforts



Fundamental security on maturity 2



There is a high risk at suppliers due to outsourcing all development.

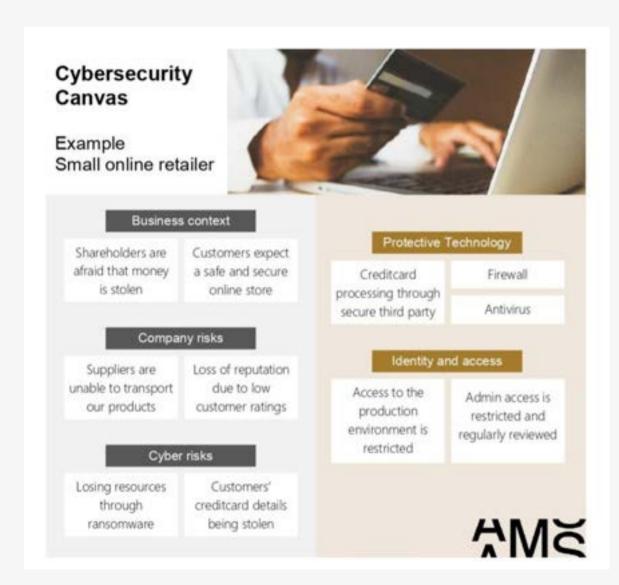


Supplier Management on maturity 4

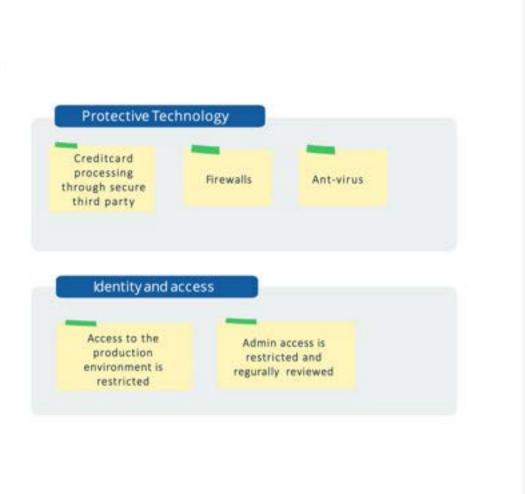
The Cybersecurity Canvas is

A tool to visualize, discuss and compare cybersecurity strategy

Shape & Design









Origin

Researchnto SMB



Small to medium sizes companies (SMB)



99%

Economic activities



60%

Global workforce

Small to medium sizes companies (SMB)



99%

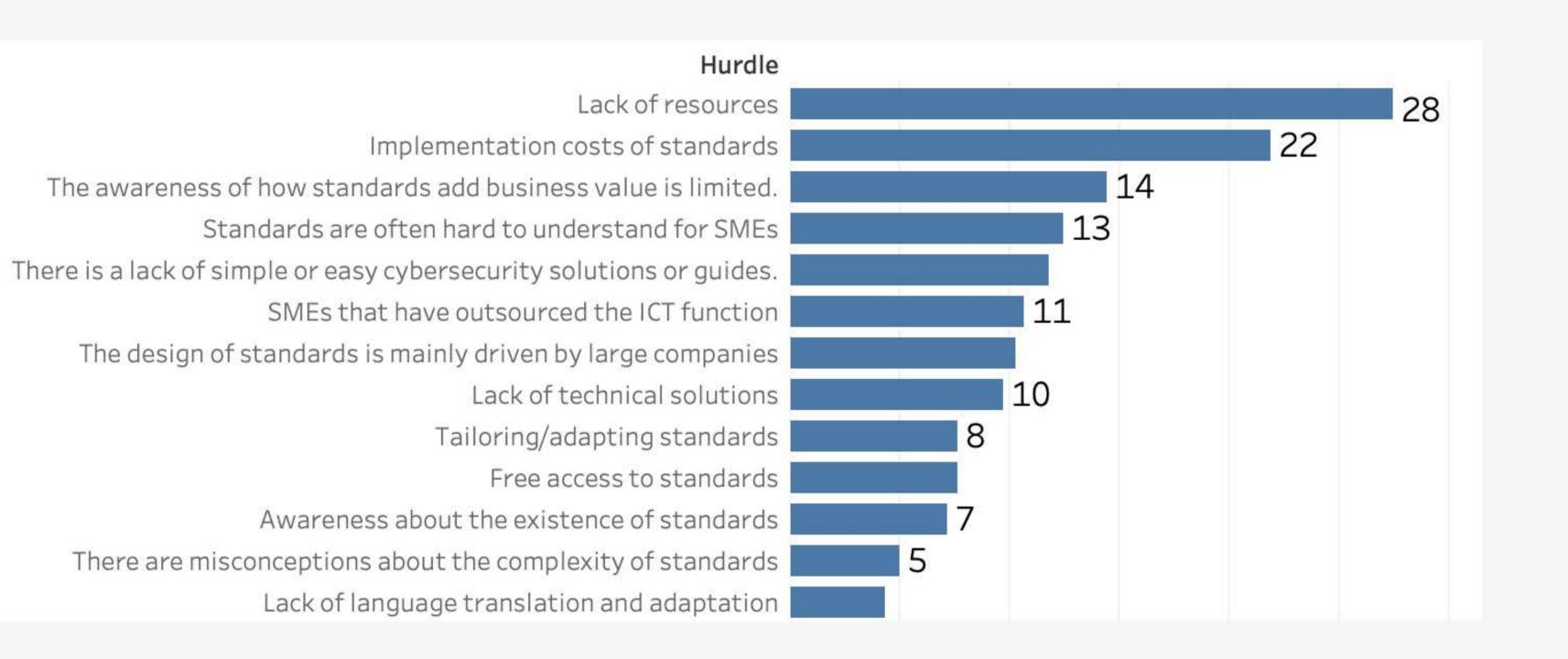
Economic activities



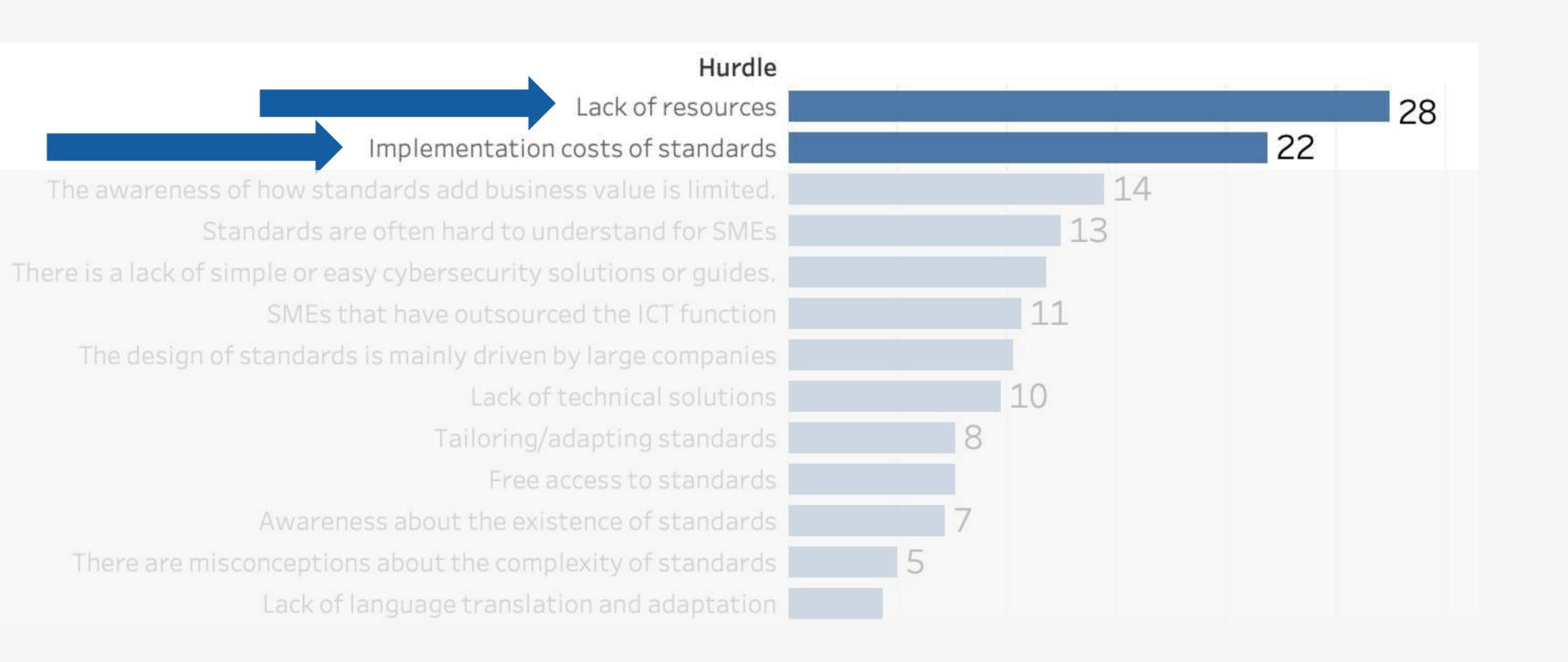
60%
Global workforce



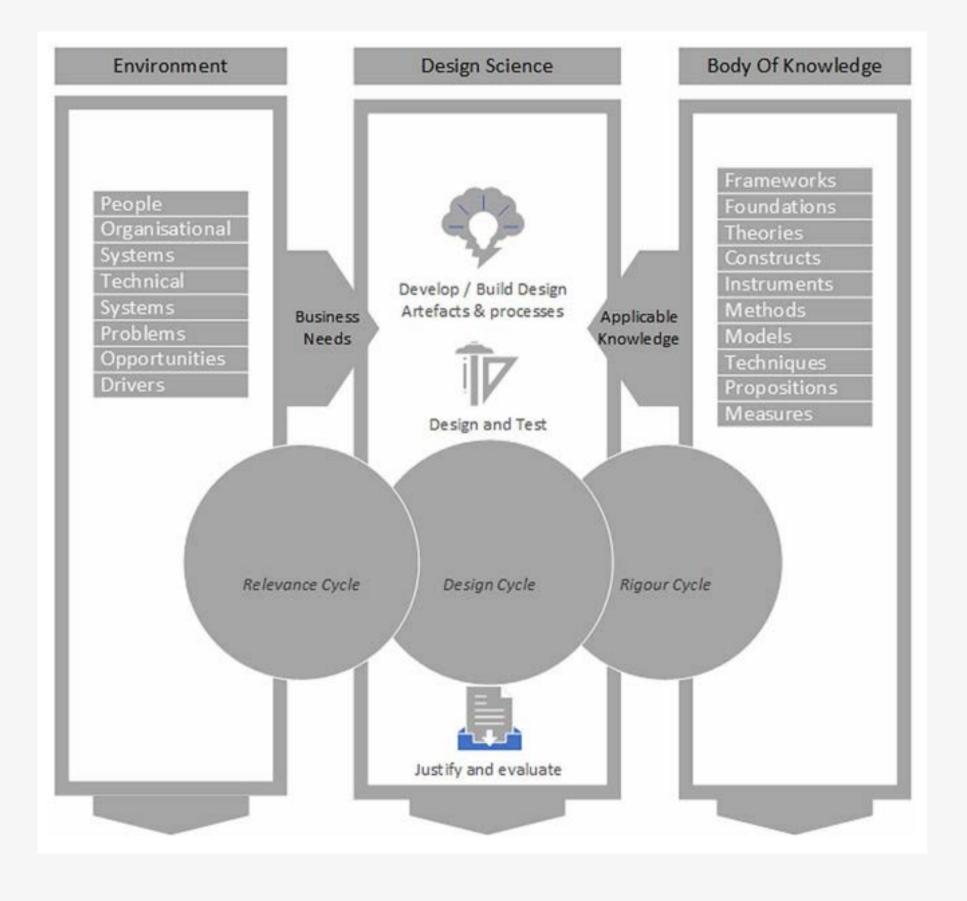
The problem



The problem



Research



Using a scientific approach to design a product :

Design Science



Data collection

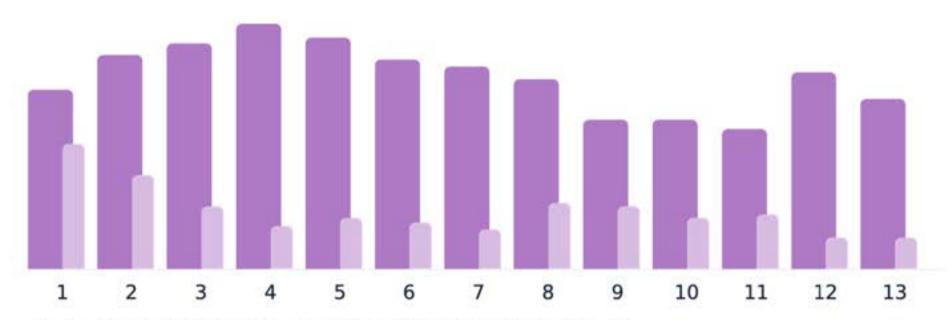
A total of 130 years of expert experience

Three main components

- 1. Obstacles
- 2. Controls
- 3. Design

13. Obstacles for the adoption of standards

Allocate 100 points to the most important obstacles for adoption



Evaluation method: Allocate points adding to 100 | Votes: 10

Table view

| Item | Rating | A | Variability |
|--|--------|---|-------------|
| 1. Lack of resources | 27.5 | 2 | 32% |
| 2. Implementation costs of standards | 21.9 | 2 | 24% |
| The awareness of how standards add business value is limited. | 14.4 | 5 | 16% |
| 4. Standards are often hard to understand for SMEs which do not have the inhouse expertise for translating standards into specific tasks and activities. | 12.5 | 2 | 11% |
| There is a lack of simple or easy cybersecurity solutions or guides. | 11.8 | 5 | 13% |

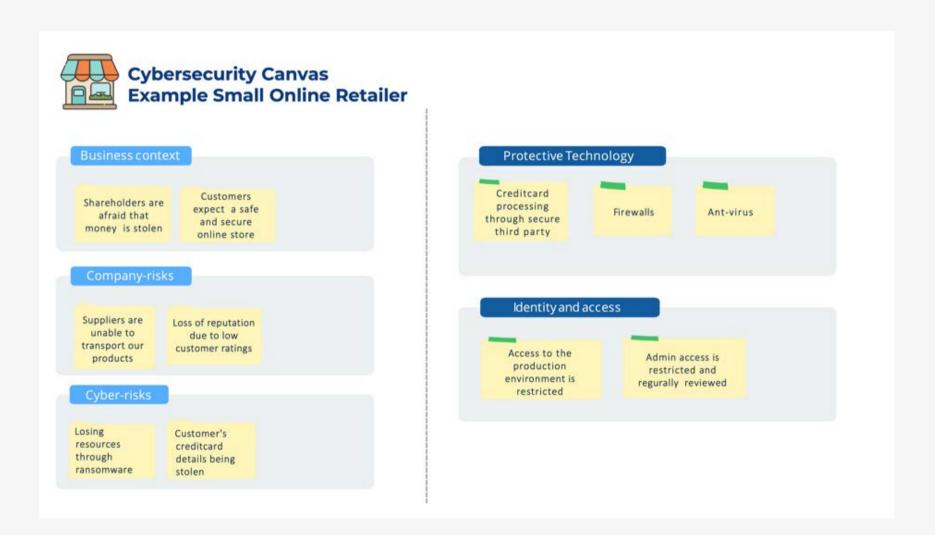
Resulting requirements

8 requirements

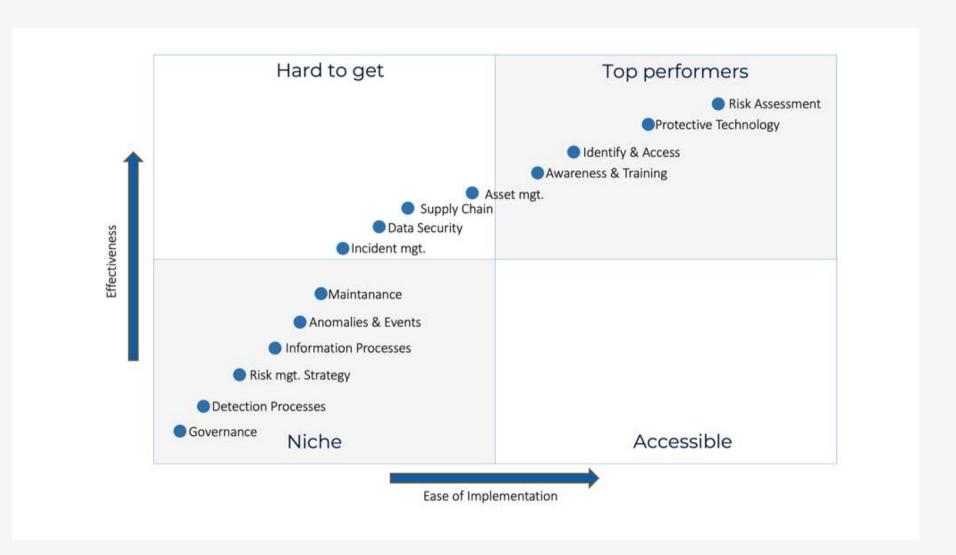
1. Flexibility

- 2. Include risk
- 3. Easy to understand

Results



Cybersecurity Canvas



SMB Cybersecurity Quadrant

Canvas



Prioritized NIST CSF categories



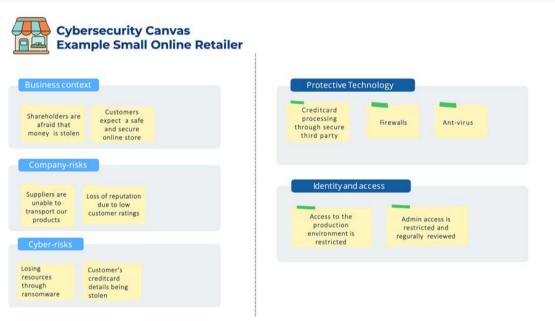
Summary

130 years of experience



8 requirements





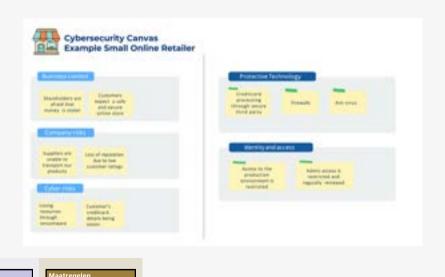
Further changes

- 1. Focus on the connection between left and right side rather than the components
- 2. Removal of the need for the NIST CSF categories
- 3. Increased flexibility in defining the left-side







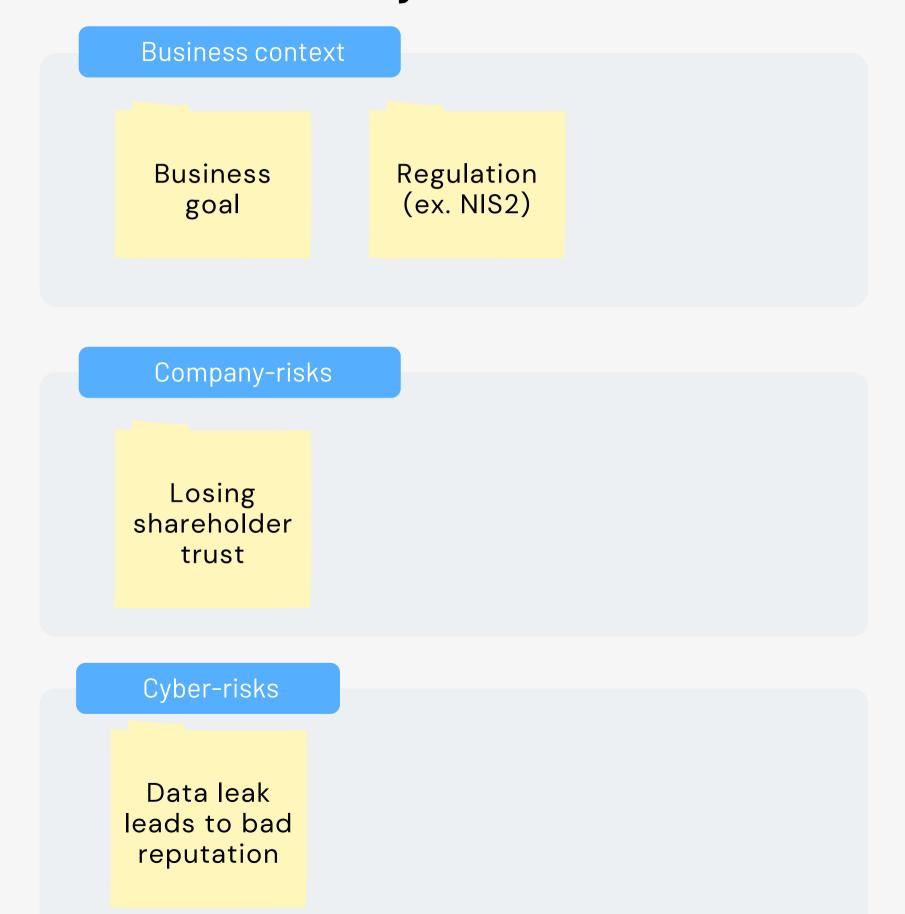


How to use

Cybersecurity Canvas



1. Define the "why"



Wisely plan your objectives
Have a strong sense of risk
Yield to regulations

2. Design the "how"

Harness creative thinking Observe for opportunities Weigh risks against costs

Protective technlogy

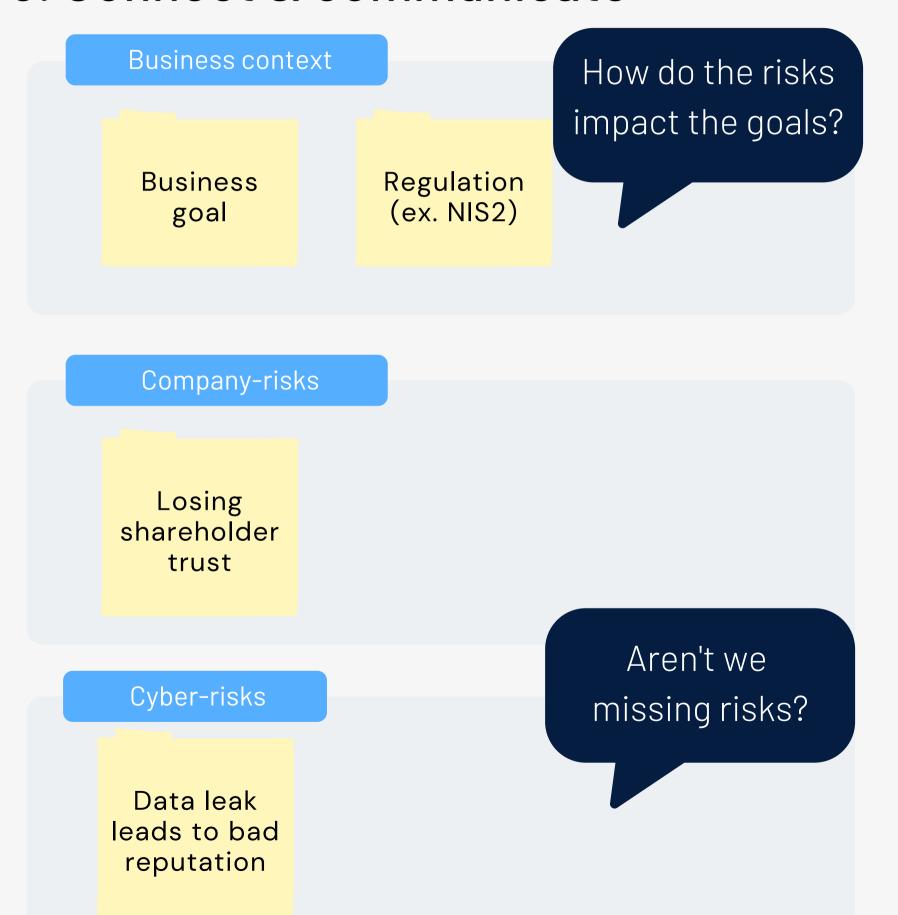
Data Loss prevention

Identity and access

Access to the production environment is restricted

Admin access is restricted and regularly reviewed

3. Connect & communicate



Protective technlogy

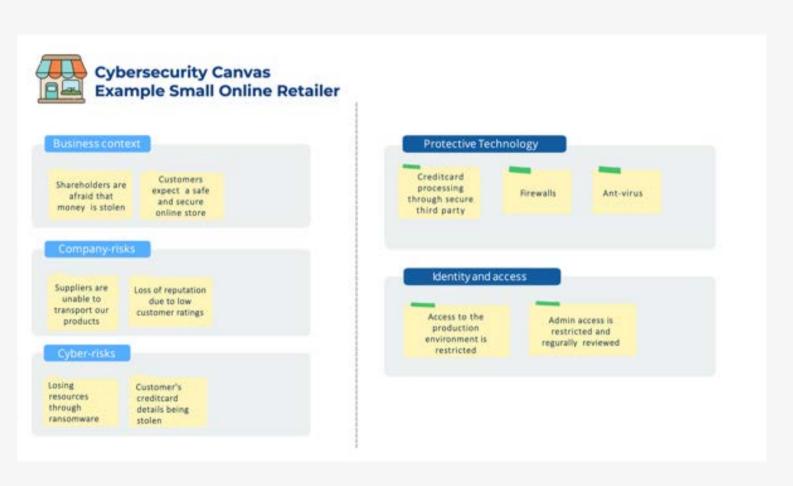
Data Loss prevention

Too expensive for the risk it recudes?

Access to the production environment is restricted

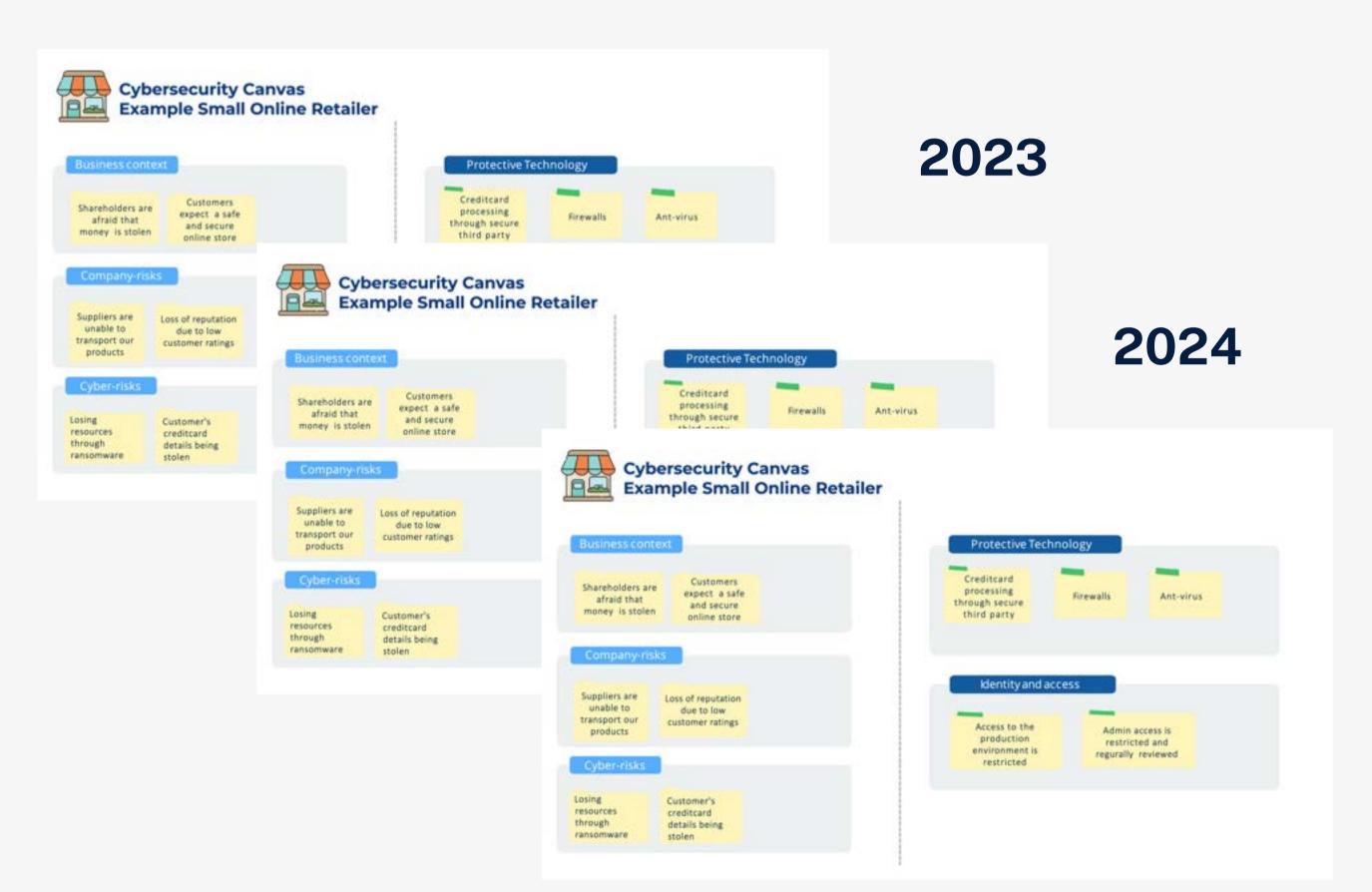
Admin access is restricted and regularly reviewed

Current VS future





Per year



2025

Examples

Workshop



A workshop is a great way to set up a shared cybersecurity design.

In this workshop, I used meetingwizard.nl to collaborate.

Other tools such as Miro can also work great

Result

Doelstellingen

Snelle en goede dienstverlening aan de burger

Cyber Risico's

Cybersecurity hack

Datalekken

Menselijke fouten

Maatregelen

MFA

Bewustwording medewerkers

Beperking van toegang

Maturity approach

- In collaboration with MeetingWizard
- Higher level of abstraction
- Great for larger organizations

However, difficult to get to the right level of abstraction

Cybersecurity Canvas

Example
Small online retailer



Business context

Shareholders are afraid that money is stolen

Customers expect a safe and secure online store

Company risks

Suppliers are unable to transport our products Loss of reputation due to low customer ratings

Cyber risks

Losing resources through ransomware Customers' creditcard details being stolen

Fundamentals

Implement all fundamental controls (CIS Controls to IG1)

Company risk

Secure applications with Application Software Security controls (to IG2)

Manage providers better with increased Service
Provider
Management (to IG2)



IT Service Provider



CUSTOMEXAMPLE —Small IT Service Provider

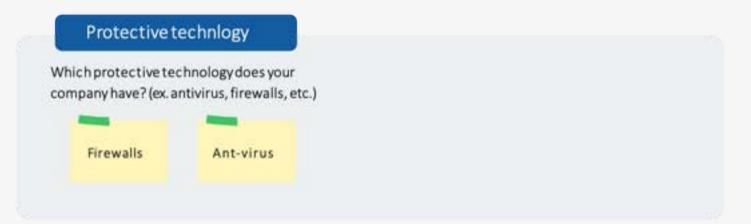
Company







Measures





Awareness and training The company personal has admin access to customer's sensitive data, the access is required and cannot be further restricted. Training is required. On-demand cybersecurity training Montly cyber training

Integration with standards

How does the Cybersecurity Canvas integrate

Protective technlogy

Data Loss prevention

Identity and access

Access to the production environment is restricted

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How does the Cybersecurity Canvas integrate



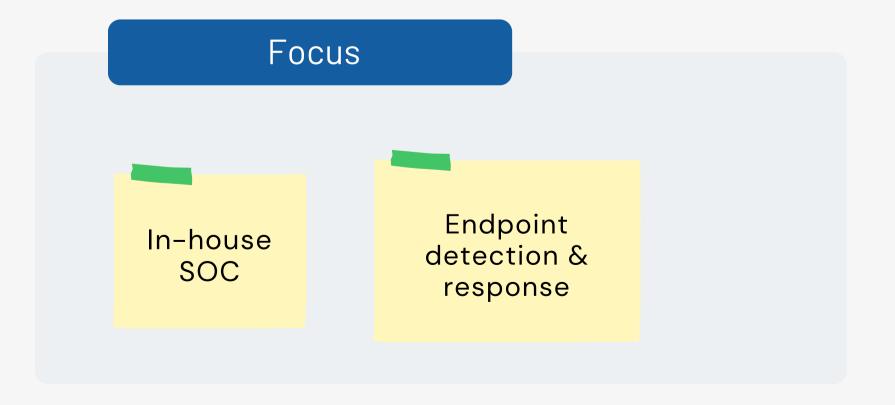


Access to the production environment is restricted

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ISO27001

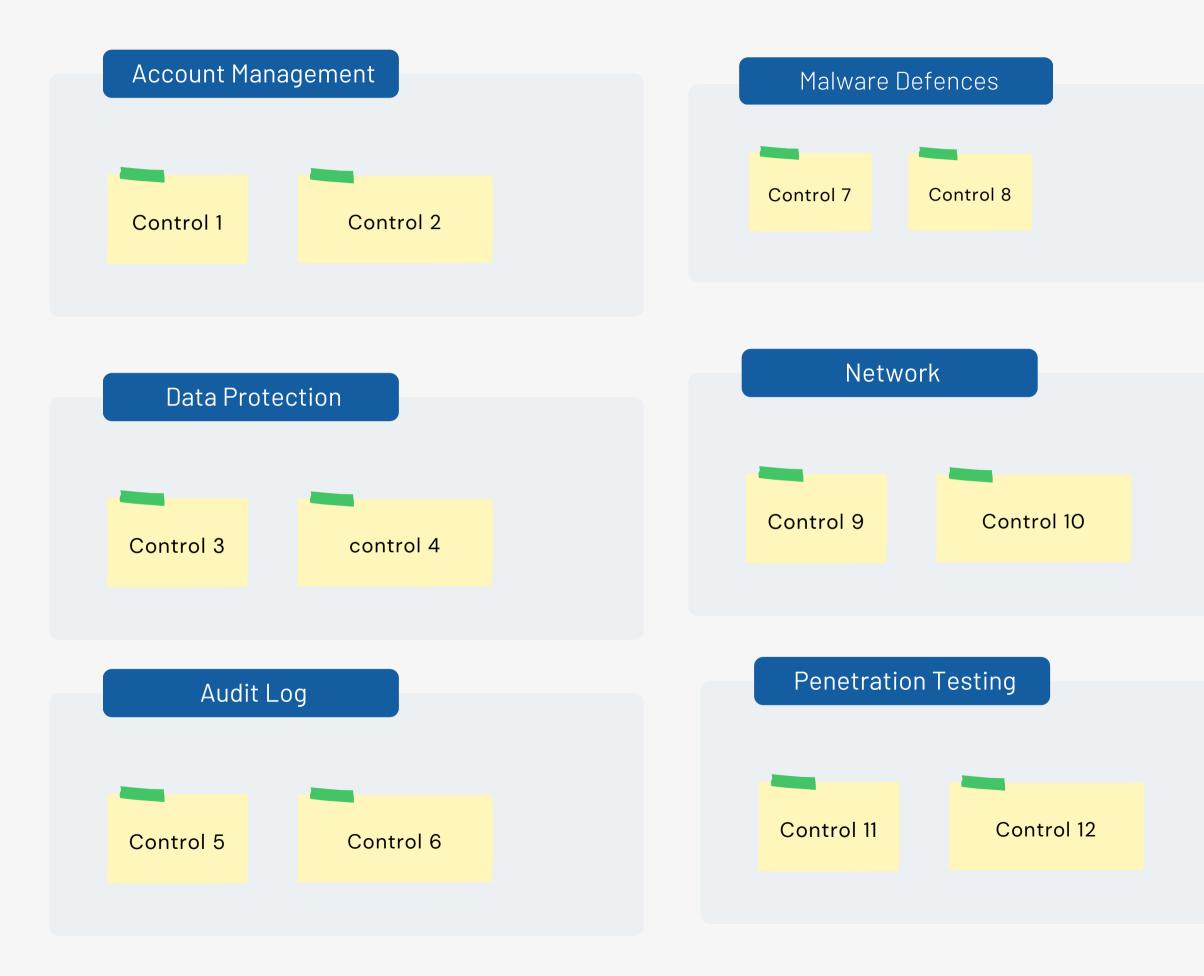




CIS Controls

You can make the canvas larger.

It's up to you



NIST CSF

NIST CSF is included in the original.

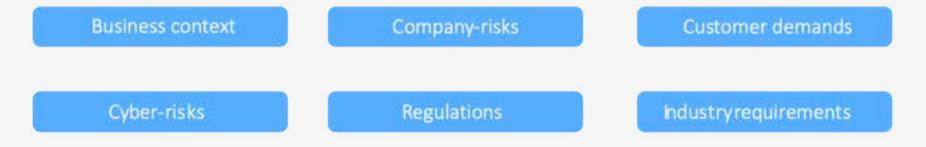
Even with a catalog of components

Catalog

The catalog provides you with pre-defined components you can use in your canvas.

Company

Components you can use to organize the business side of the canvas. These components are examples. It is promoted to create your own components if it helps you better express the business's context.



Measures

The measure categories are sorted based on the perceived effectiveness and ease of implementation from research among experts. You can use these categories or create your own. All the categories are based on the NIST Cybersecurity Framework.



Q&A

Extra's

The complete research

https://www.securityscientist.net/blog/research-a-cybersecurity-standard-for-sme/

Cybersecurity Strategy guide with the Cybersecurity Canvas

https://www.securityscientist.net/blog/complete-cybersecurity-strategy-guide/

Editable PowerPoint of the Cybersecurity canvas + examples

https://www.securityscientist.net/content/files/2022/11/Cybersecurity-Canvas.pptx