



## Financial Pilot: Assessing Cyber Risks and Threat Intelligence for the Finance Sector

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# Threat Intelligence Challenges and Opportunities in Financial Sector



The digital transformation and technological development bring with them new **cyber-threats and risks** in the **financial sector** but...

*Are you seeing the whole elephant?*



# Threat Intelligence Challenges and Opportunities in Financial Sector



- The scale and complexity of these cyber-threats require organizations **to collaborate to help build resilience and leads to collective action.**

## *What makes Cyber-Threat Intelligence in Financial Services special?*

- Cyber-Threat Intelligence (CTI) sharing allows banks and CERTs react and properly respond to:
  - Potential cybersecurity attacks.
  - Financial fraud & crime information.





# Threat Intelligence Challenges and Opportunities in Financial Sector

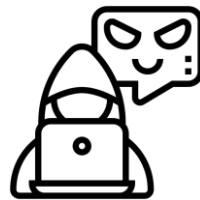
*Is it a potential phishing?*

*Is it part of a ransomware?*



*Is this customer trustworthy?*

*Is this transaction fraudulent?*



# Threat Intelligence Challenges and Opportunities in Financial Sector

## *From Data to Intelligence*

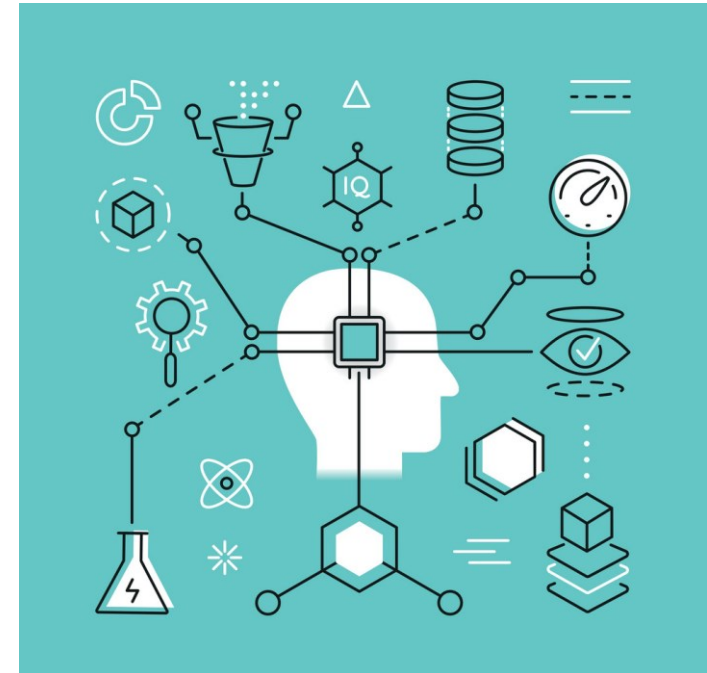


High volume of data needs to be stored, processed, analysed and used to react.



*We need to automate it*

Heterogeneous data, formats and sources, even regulation.



# Threat Intelligence Challenges and Opportunities in Financial Sector

*Do you trust me?*

Financial institutions save very sensitive information and are especially reluctant to share data.

*How can we built something that those stakeholders trust and engage with?*

Even if we trust you...

*Should we trust your data?*





# Threat Intelligence Challenges and Opportunities in Financial Sector



**Threat Information Platforms (TIPs)** are proposed to enable CTI sharing among involved financial entities.

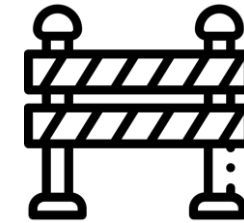
*Who will manage it?*

- Centralised or distributed control?
- Role-based control at entity level?
- Federated authentication?
- Specific and granular sharing groups?





# Threat Intelligence Challenges and Opportunities in Financial Sector



- Build more secure financial institutions:
    - Secure our infrastructure.
    - Secure our clients.
    - Build on collaborative experience and knowledge:
      - More data → more secure.
      - Identify earlier and react faster.
  - Be a player in the threat intelligence market.
    - Potential additional revenues.
- Trust
  - Heterogeneity
  - Data sensitivity
  - Highly regulated sector
  - Data volume





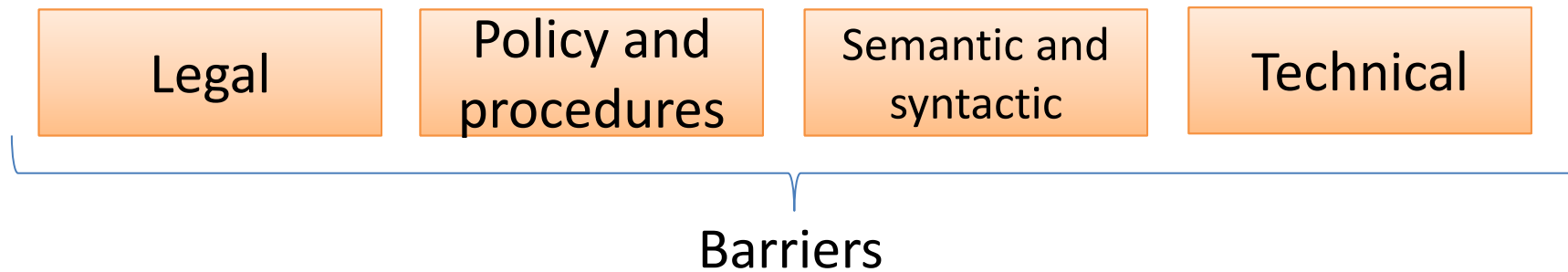
# Cyber-Threat Information Interoperability

- CTI can be defined as “any information that can help an organization to identify, assess, monitor and respond to cyber threats”
- The type of information that is shared includes, among others:
  - Log entries and alerts
  - Measurable actions
  - Identified vulnerabilities
- Number of CTI sources is increasingly yearly as do the number of tools that can consume the data
- Information sharing uses multiple actors, ranging from public institutions to industry-focused groups



# Cyber-Threat Information Interoperability

- What is the final goal?
  - To share and process information automatically
- Why can't we share easily and open between us all?
  - What information is shared, how it is shared and legal issues (globalization)
- From the technical point of view there is not a single approach for sharing data due to multiple technical standards, policies, etc.





# Cyber-Threat Information Interoperability

- One objective, several ways to achieve it
- We are moving from static and independent approaches to a distributed European one
- EC aims to have an European network for information sharing
- Benefits public and private organizations
- Protects against known and unknown attacks



# Cyber-Threat Information Interoperability

- CTI allows for entities to react better to zero-day attacks, APT, etc.
- The more information is shared, the more prepared against cyberattacks
- Data of financial institutions is sensible, so a solution that can support data security and privacy needs is mandatory
- Support of policies at European, national and company level
- Need for tools for managing with whom and how information is shared



# Cyber-Threat Information Interoperability

- The digital transformation and technological development bring with them new **cyber-threats and risks** in the **financial sector**
- The scale and complexity of these cyber-threats require financial organizations **to collaborate to help build resilience and leads to collective action**
- **Threat Information Platforms (TIPs)** are proposed to enable CTI sharing among involved financial entities

Cyber-Threat Intelligence (CTI) sharing allows banks and CERTs react and properly respond to potential cybersecurity attacks (e.g. phishing sites, malware campaigns, 0-day vulnerabilities or OSINT reports regarding the financial sector)



# Demo

