

**nc3.lu**

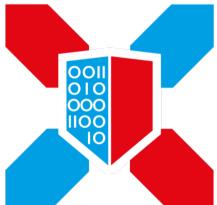
National Cybersecurity  
Competence Center  
**LUXEMBOURG**

# WORKSHOP MONARC

**OPTIMIZED RISK  
ASSESSMENT METHOD  
CASES**

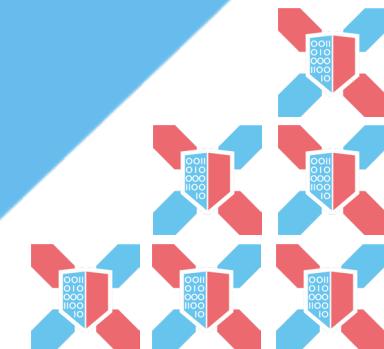
MONARC TRAINING

*info@monarc.lu*



**LHC**

Luxembourg House  
of Cybersecurity



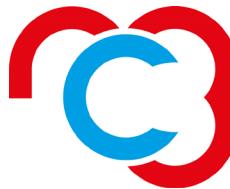
# LUXEMBOURG HOUSE OF CYBERSECURITY



**Legal form: G.I.E (Groupement d'Intérêt Economique)**



**circl.lu**  
Computer Incident  
Response Center  
LUXEMBOURG



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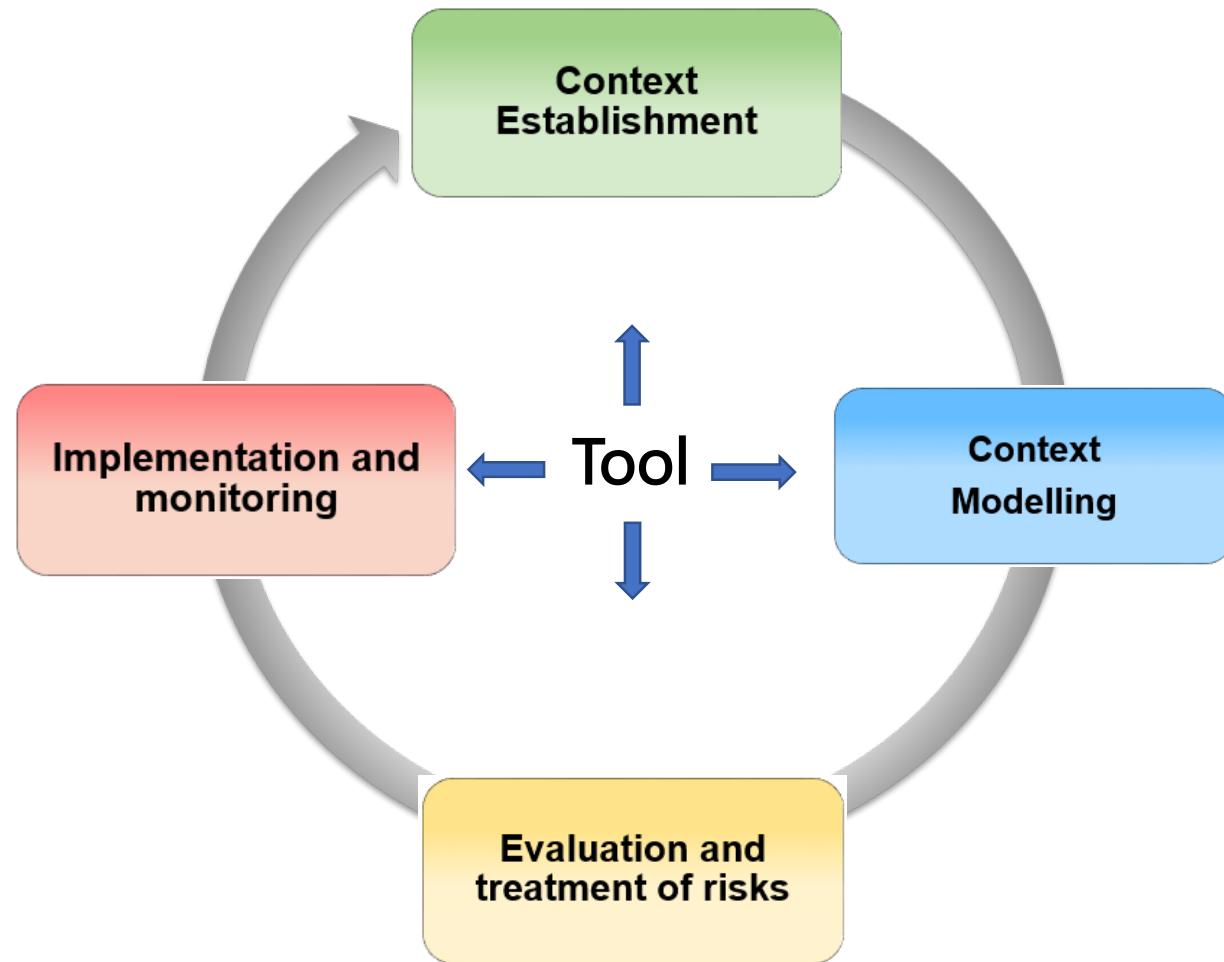
[www.lhc.lu](http://www.lhc.lu)  
[www.nc3.lu](http://www.nc3.lu)



# AGENDA

1. What is MONARC ?
2. Discovery and usage of the tool
3. Services

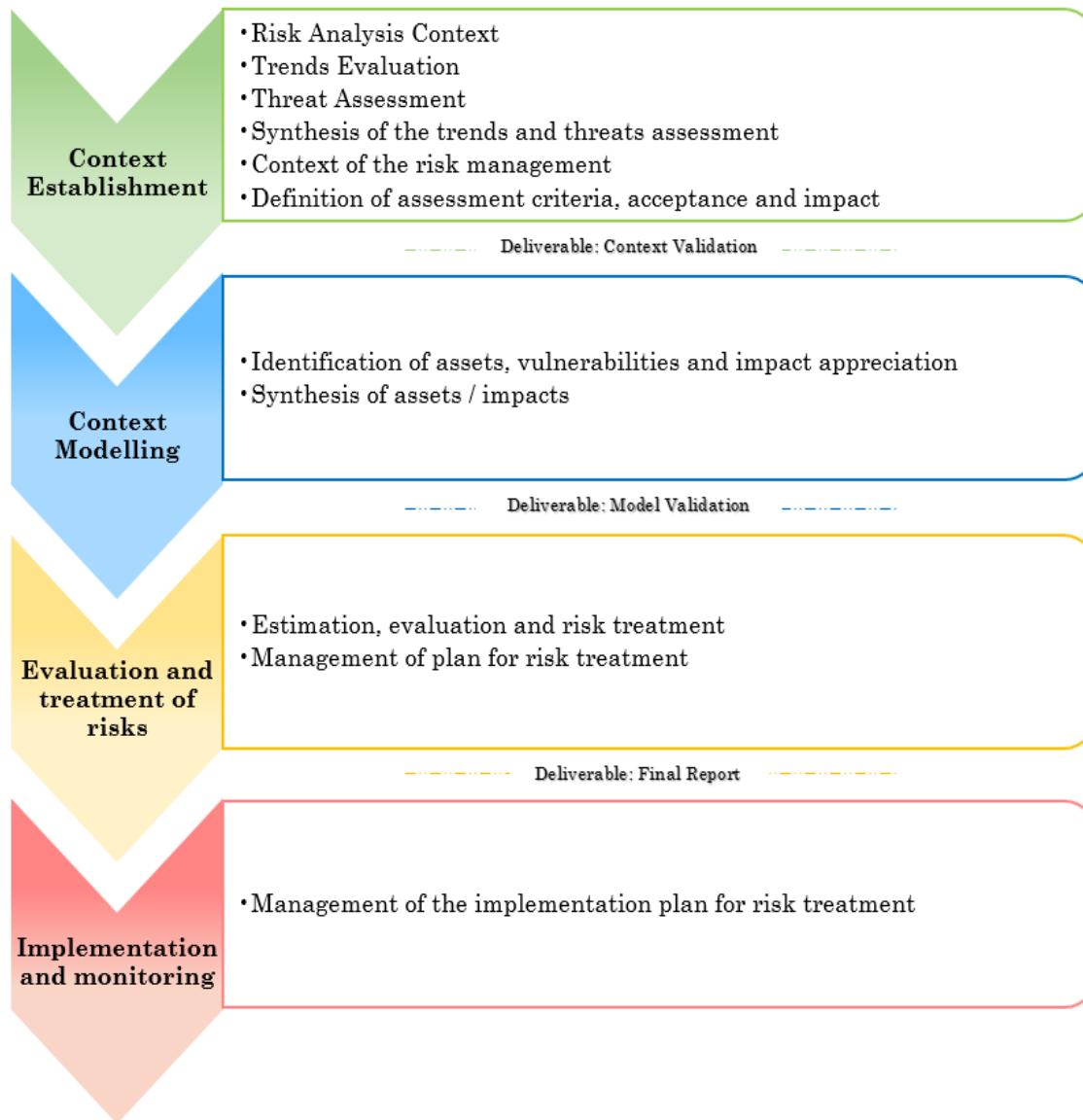
# MONARC : OPTIMISED RISK ANALYSIS METHOD



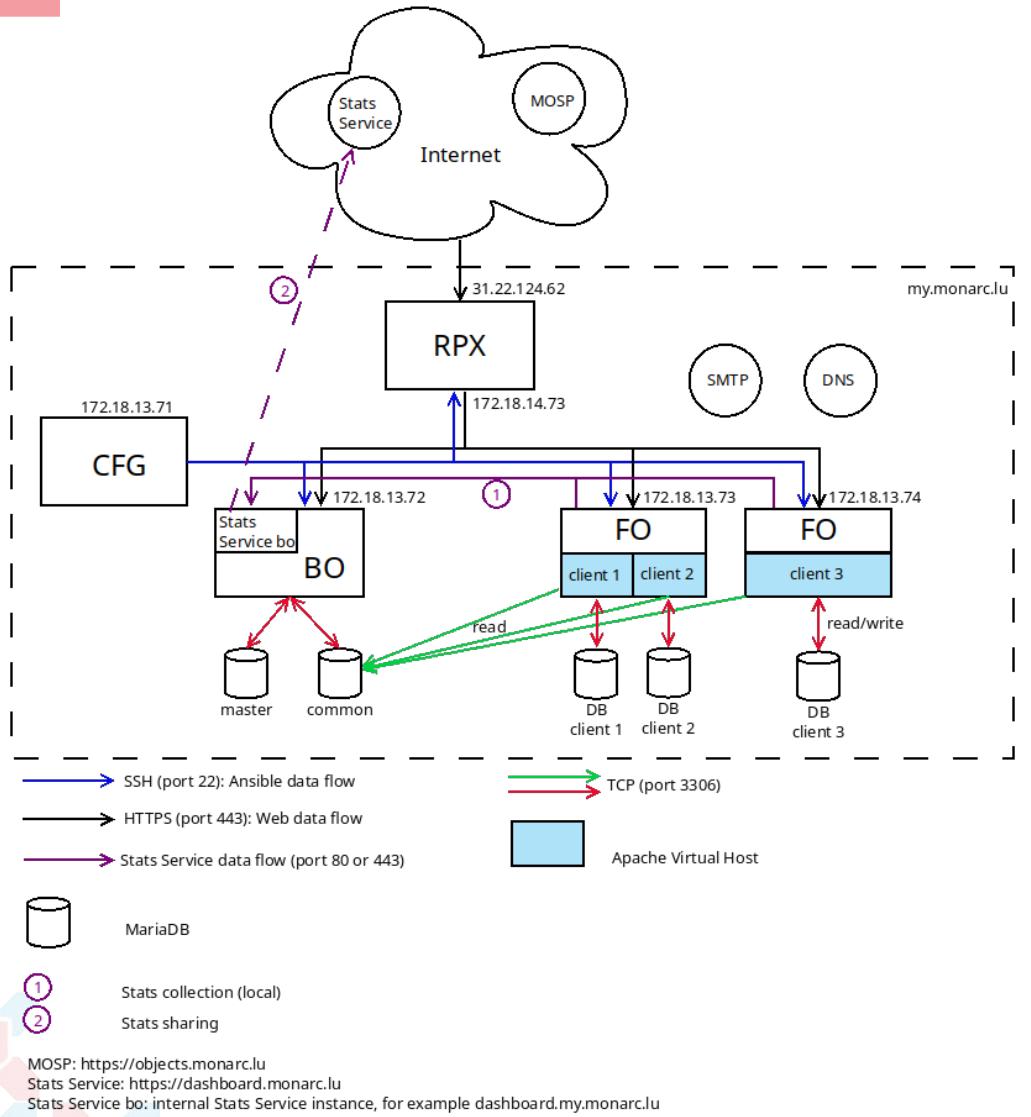
## Risk Analysis Method

- Structured
  - 1. ...
  - 2. ...
  - n. ...
- Iterative
  - Plan
  - Do
  - Check
  - Act
- Qualitative :
  - Impact / Consequences
  - Threat
  - Vulnerability

# MONARC : THE METHOD IN DETAIL



# ARCHITECTURE



## Back-Office [BO]

Administration of DB Common,  
servers FO, Models an users

## Front -Office [FO]

Client interface Administration of  
DB Client and users

## Stats Service

Global dashboard

## MOSP

Public library of MONARC objects

# MONARC : TO REMEMBER

## ✖ Open source

[www.github.com/monarc-project](http://www.github.com/monarc-project)

AGPL v3.0 (GNU Affero General Public License version 3)

## ✖ Risk Management (ISO/IEC 27005)

Information Risks ( $R = I \times M \times V$ )

Impact on the CIA

Secondary Assets

Operational Risks ( $R = I \times P$ )

Impact on the ROLFP

Gross/Net

Primary Assets

## ✖ Optimised (models, deliverables, inheritance, globalisation)

## ✖ Multilingual (EN, FR, DE, NL, ES, IT, ...)

## ✖ GDPR (Checklist and record)

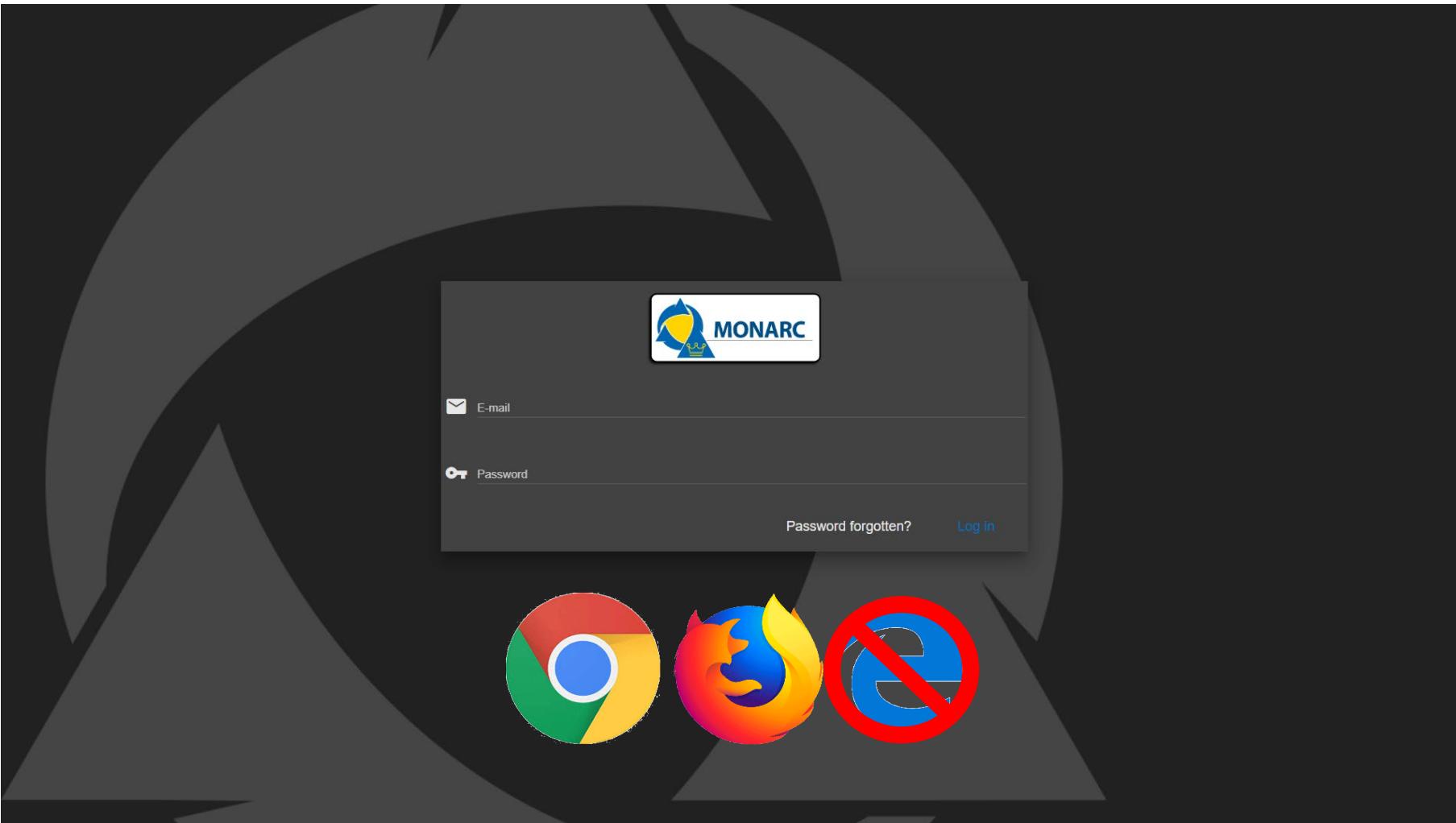


# AGENDA

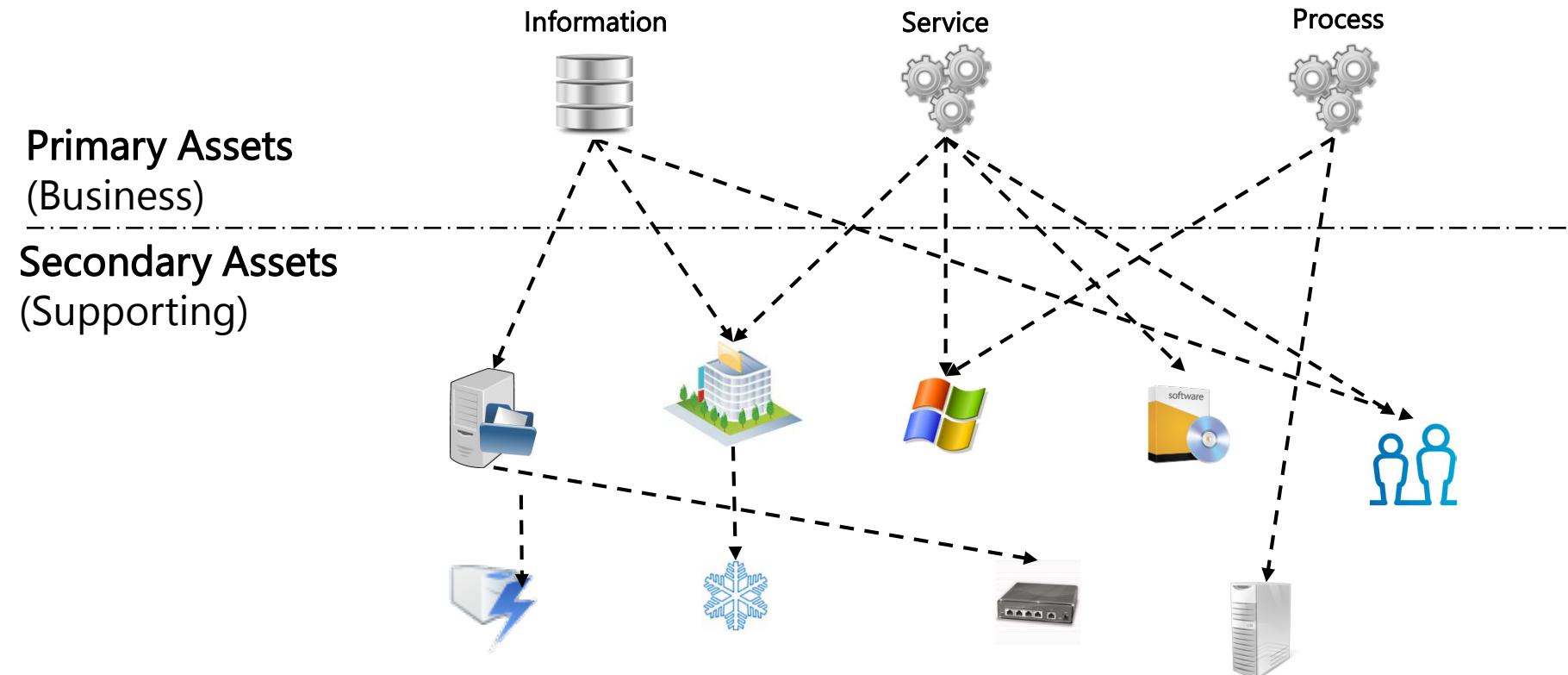
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# DISCOVERY AND USAGE OF THE TOOL

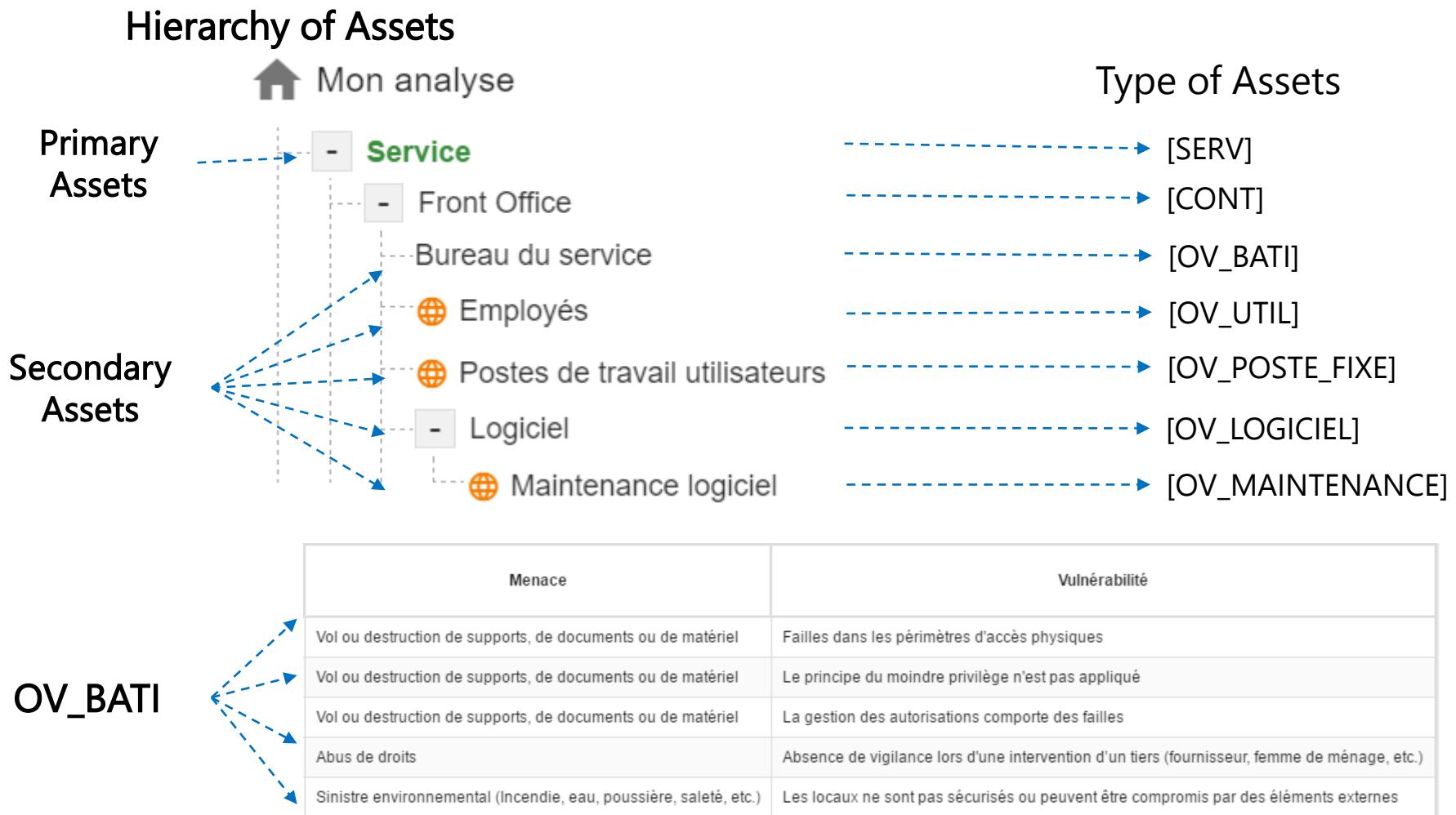


# IDENTIFICATION OF ASSETS



The combination of risks of an supporting asset is transmitted to the business asset through inheritance of the CIA evaluation

# FORMALISATION OF THE MODELLING



# « GLOBAL » OR « LOCAL » ASSET

## “Local”

### Mon analyse

- Base de données N°1
  - Logiciel
  - Backup NAS
  - Salle informatique.
- Base de données N°2
  - Logiciel
  - Backup NAS
  - Salle informatique.

**30**  
Risks

Base de données N°1



Base de données N°2



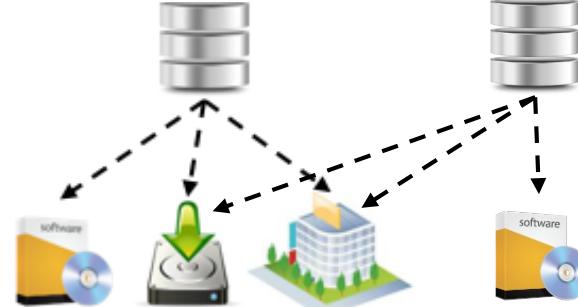
## “Global”

### Mon analyse

- Base de données N°1
  - Logiciel
  - Backup NAS
  - Salle informatique
- Base de données N°2
  - Logiciel
  - Backup NAS
  - Salle informatique

**21**  
Risks

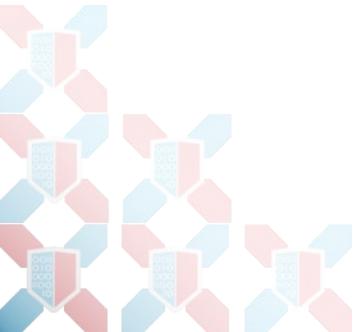
Base de données N°1 Base de données N°2





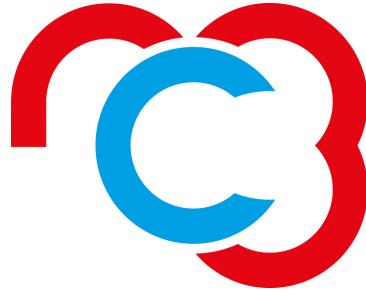
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# SERVICES

- ☒ Personalized installation
- ☒ On demand trainings
- ☒ Assistance working with MONARC
- ☒ Customized developments



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# CONTACT US



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[monarc-project](#)

