

Cybersecurity - a few thoughts

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THE GOVERNMENT
OF THE GRAND DUCHY OF LUXEMBOURG
Ministry of the Economy

Agenda



- Major challenges in cybersecurity
- Focus of the Ministry of the Economy
- Examples; next steps
- "Best practice" approach

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Cybersecurity needs a transversal and cross-sectorial approach

Behaviour

Awareness

Organisation

- Policies
- Compliance

Technology

- Protection
- Detection

Challenge: implement effective and efficient internal collaboration

Layman language



Management language



Technical language

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Challenge: to implement all proportionate and necessary measures

Behaviour

Organisation

Technology

- Security charter
- Risk management
- Desk Instructions

- Incident Response
- Human Resources

Challenge: to reach a high level of maturity

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Challenge: to implement a multi-stakeholder governance:

Risk management in the perspective of citizens

Risk management in the perspective of customers

Risk management in the perspective of yourself

Challenge: to be objective and create comparable results

- Scope
- Impacts
- Scenarios and granularity
- Probabilities of threats
- Exploitability of vulnerabilities
- Choice of measures
- Effectiveness of measures
- Risk acceptance matrix

Cybersecurity is not an individual, but a collective challenge

- Cybersecurity is a fast moving target, increasing in complexity
- The regulatory framework becomes more and more demanding
- Lack of skilled people

Cybersecurity has become a differentiating factor for

- companies
- whole sectors
- and even countries!

Focus of the Ministry of the Economy



Cybersecurity has become a factor of attractiveness and can provide a competitive advantage.

Cybersecurity is an economic opportunity for Luxembourg.

Focus of the Ministry of the Economy



To democratise cybersecurity by

Reducing costs and **complexity** for everybody & fostering **collaboration**

- Provide taxonomies, methods and tools for everyone
- Collaborate, Cooperate, Coordinate
- Capitalise on synergies and mutualise



Incident Coordination and Incident Handling



Publications and Presentations

CIRCL







SECURITY KIT







R : Risque - I : Impact - M : Menace - V : Vulnérabilité









BGP Ranking



The next level — Cybersecurity Competence Center



Link cybersecurity to business in a PPP approach

Threat Intel

- Open TI
- Contextual TI
- Metrics for RA and governance

Training

- Technical
- Multi-disciplinary
- Teams
- Simulators
- Exercises

Testing

- Due Diligence
- ISMS
- Start-Ups
- Label
- Certificates



- Separate business and cybersecurity requirements link them by providing the right impacts and scope
- Harmonize cybersecurity requirements; define scopes, define the right granularity for risk scenarios; follow threats and vulns.

This « best practice » approach:

- is scalable and agile and respects the principles of necessity and proportionality
- fosters a structured and comparable reporting in cybersecurity
- fosters collaboration and exchange
- Object oriented risk management allows the implementation of multiples views
- Reduces the effort of multi-compliance



Thank you for your attention

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