



INSTITUT LUXEMBOURGEOIS  
DE RÉGULATION

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# SECTORIAL THREAT LANDSCAPE

NIS Cooperation Group - WS on Health  
Task Group 3

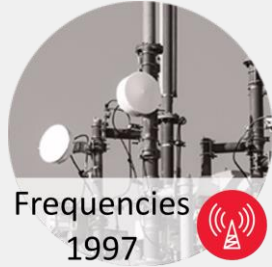


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# ILR Competencies



Telecom  
1997



Frequencies  
1997



Electricity  
2000



Postal  
2000



Airport  
2012



Railway  
2010



Gaz  
2001

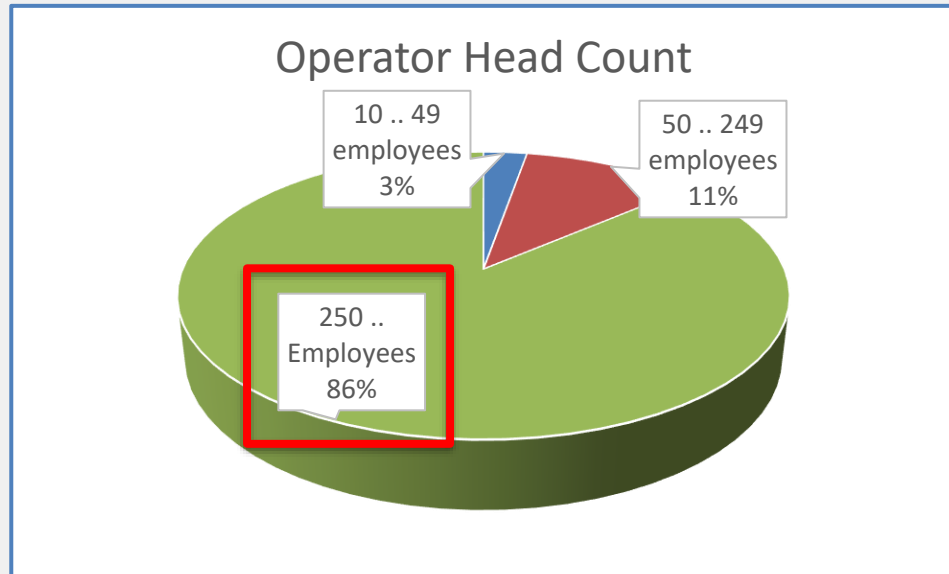
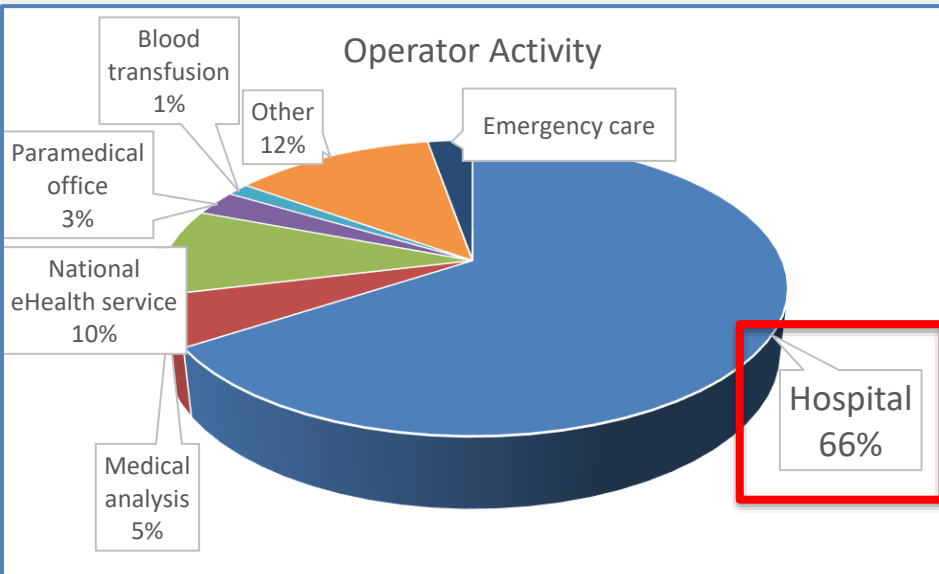


NISS  
2019

# Health Sector Threat Landscape

- Interim results of a survey to health sector
- 21 questions Survey sent to health operators
- Identify, mitigate and manage health sector cyber risks
- NIS Cooperation Group - WS on Health
- Task Group 3: Portugal, Denmark, **ENISA, Luxembourg**

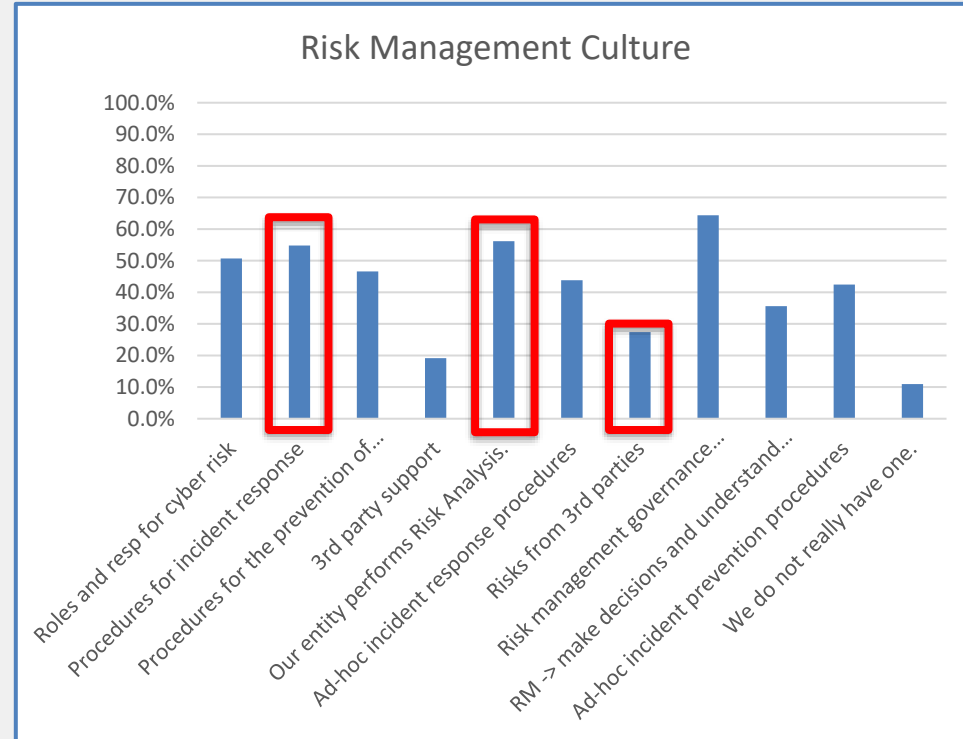
# Health Survey - Participants



Answers from 73 operators  
94% active only in 1 EU country

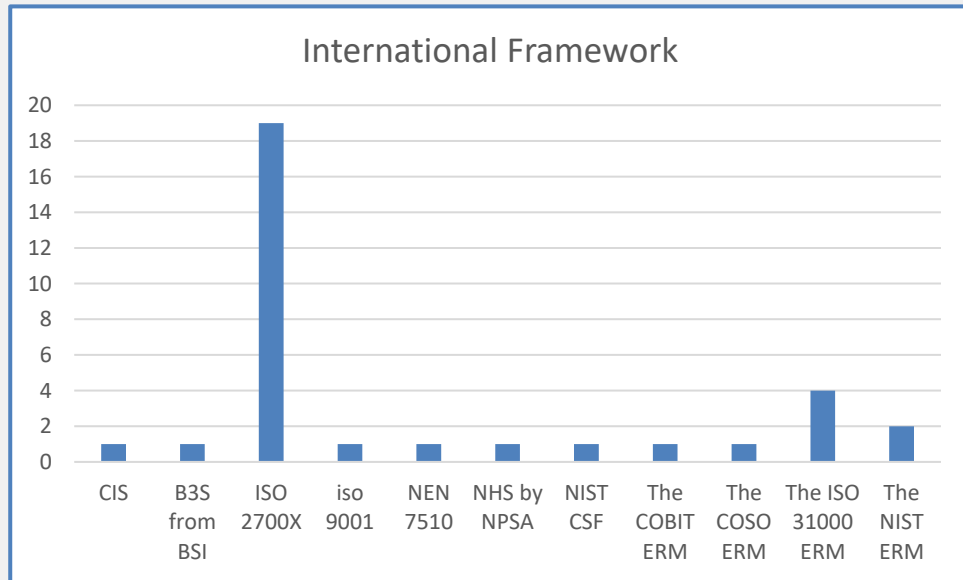
# Health Survey – Risk Management Culture

- Only **56%** perform risk analysis
- Risk analysis frequency: once a year – 64% out of **56%**
- Only 55% have procedures for incident response
- Only 27% consider risks from 3<sup>rd</sup> party



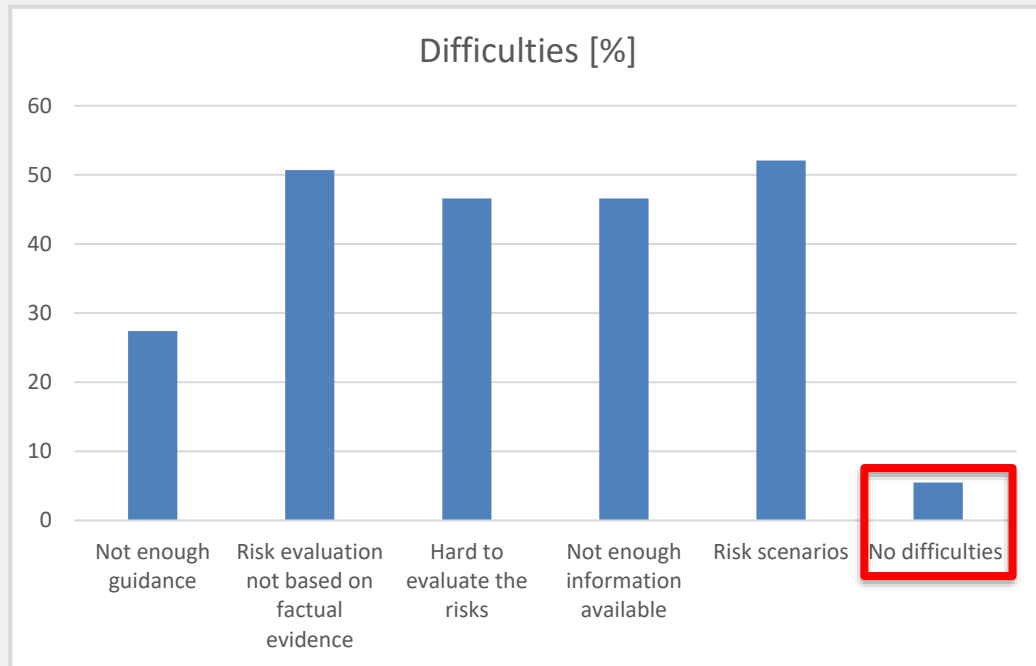
# Health Survey – Risk Assessment Process

- ISO 2700X is the most used framework
- Only 56% report cyber risks to the board

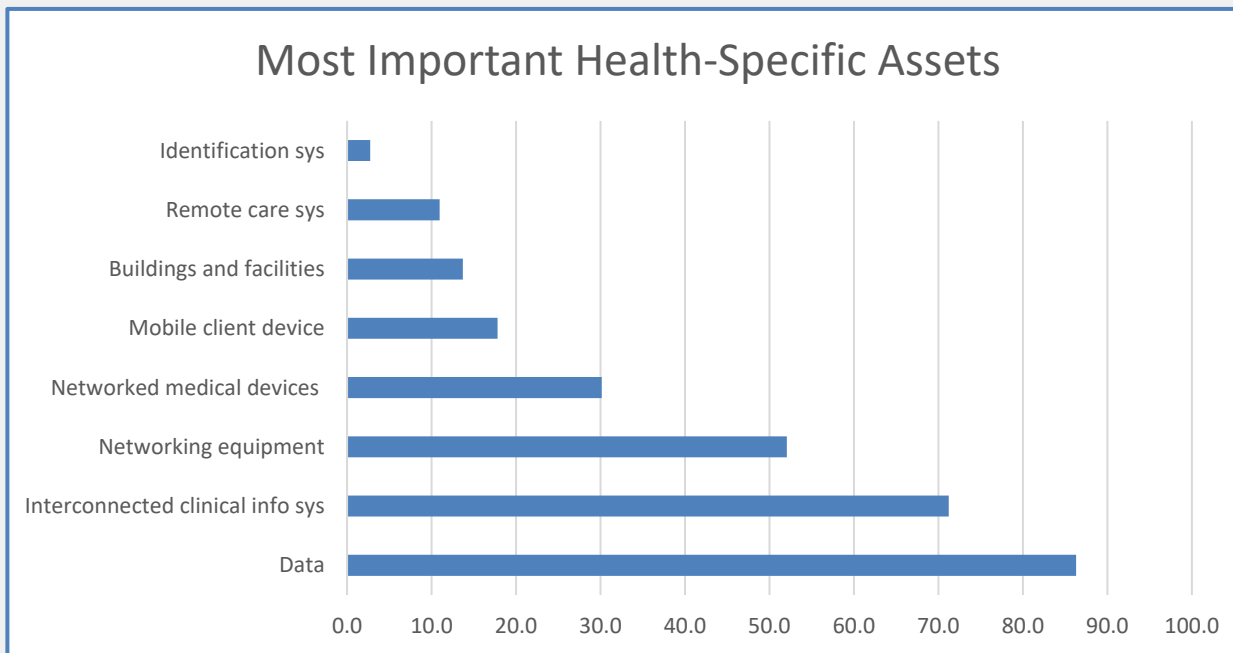


# Health Survey – Risk Analysis Difficulties

- 95% face difficulties
- Need for:
  - Information
  - Guidance
  - Training
  - Informed governance...



# Health Survey – Most Important Assets

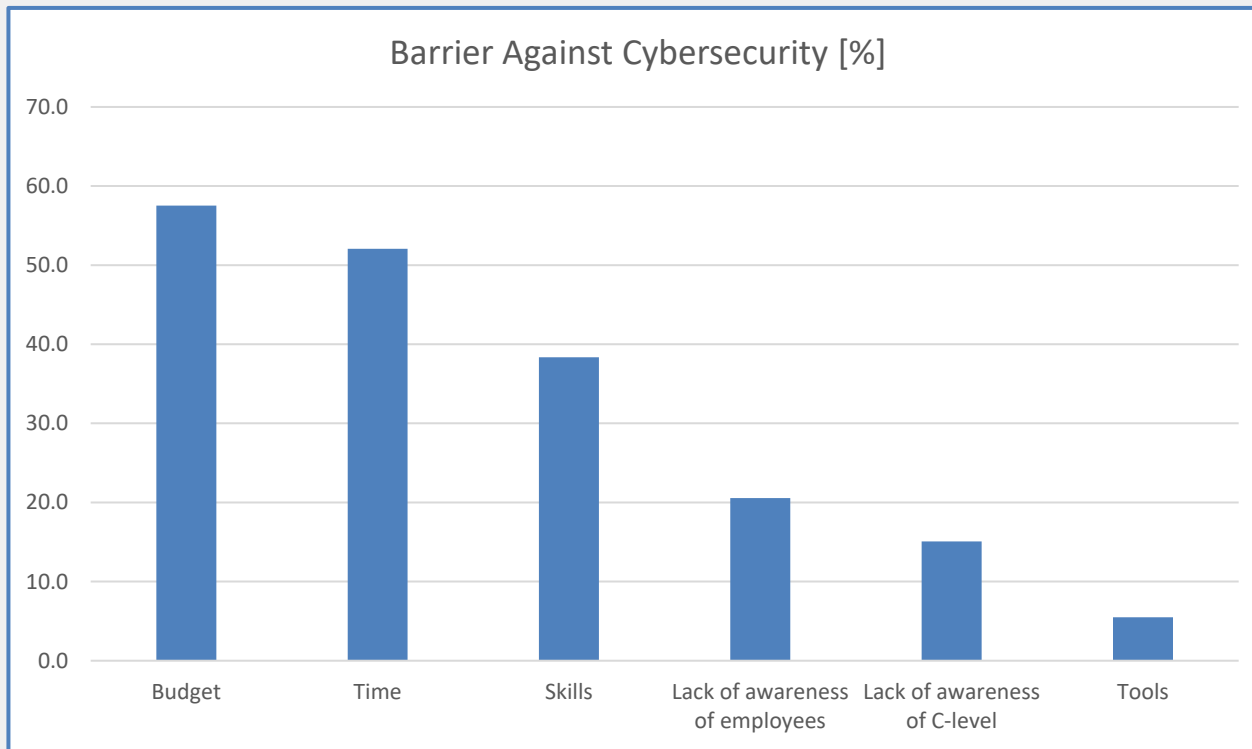




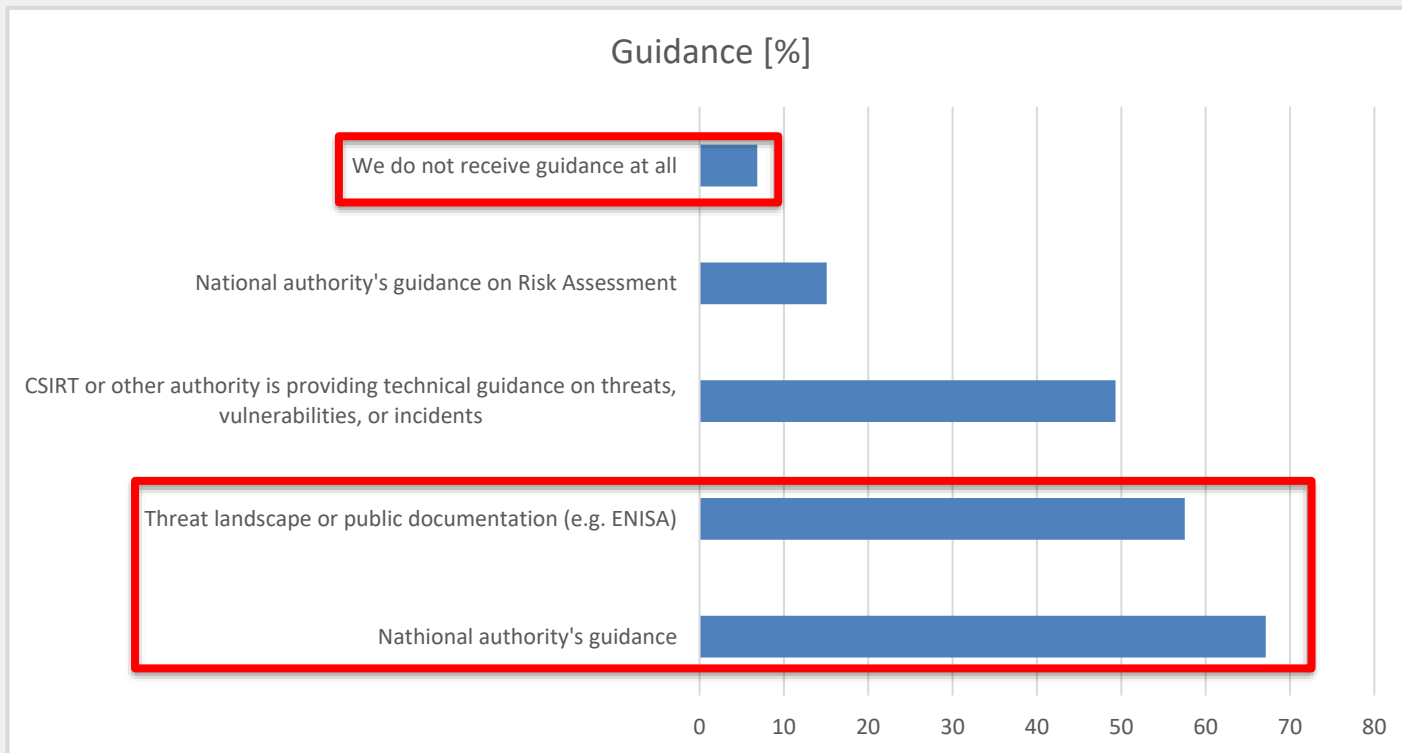
# Health Survey – Health Sector Threats

Top 8	Threats
1	Ransomware
2	E-mail related threats
3	Malware
4	Threats against data
5	Threats against availability and integrity
6	Cryptojacking
7	Disinformation – misinformation
8	Non-malicious threats

# Health Survey – Barrier Against Cybersecurity



# Health Survey – Guidance

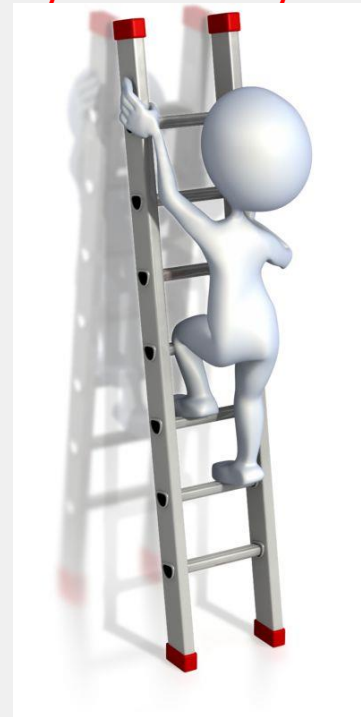


## Conclusion

Still a lot to do...

- Awareness
- Risk analysis
- Guidance
- Training
- Support

High level of  
cyber security







# Back-up

# Health Survey – Health Sector Threats

Top 5	Threats
1	Compromise of information
2	Loss of essential services
3	Unauthorized actions
4	Technical failures
5	Compromise of functions

# Health Survey – Risk Management Activities

