GR be connected



Measuring Security Success: Unveiling the KPIs of Protection

Mrs. Olga Ghincul **EY Financial services**



CYBER SECURITY **COALITION**







Measuring Security Success: Unveiling the KPIs of Protection

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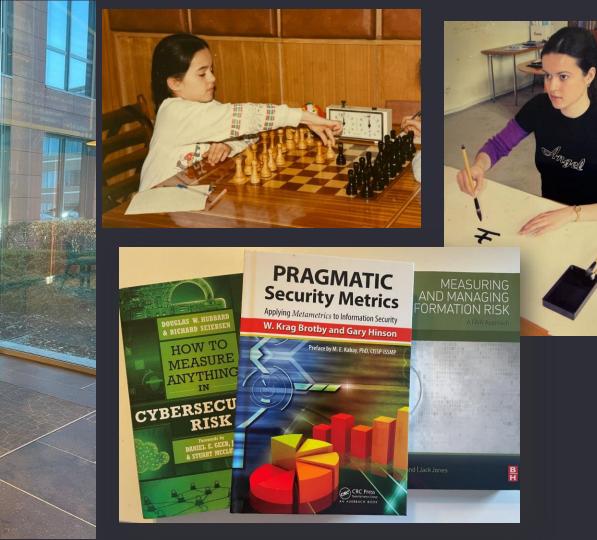








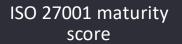
EV Building a bette working world





The Security Dashboard







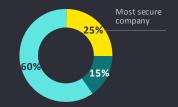
The Security Dashboard



ISO 27001 maturity score

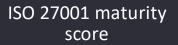


Group targets for information security



The Security Dashboard





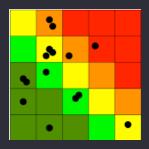


Group targets for information security



The Security Dashboard

Top security risks treatment status





ISO 27001 maturity score

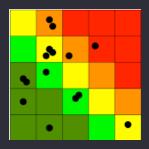


Group targets for information security



The Security Dashboard

Top security risks treatment status



Baseline security controls implementation

Security Baseline controls	Q1	Q2	Q3
	42%	63%	92%



ISO 27001 maturity score

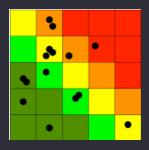


Group targets for information security



The Security Dashboard

Top security risks treatment status



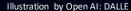
Security control effectiveness



Baseline security controls implementation

Security Baseline controls	Q1	Q2	Q3
	42%	63%	92%





"I need one security KPI..." ĒΥ

Replacing tea uncertainty a

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The Cobra effect

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Domesticating information security risk

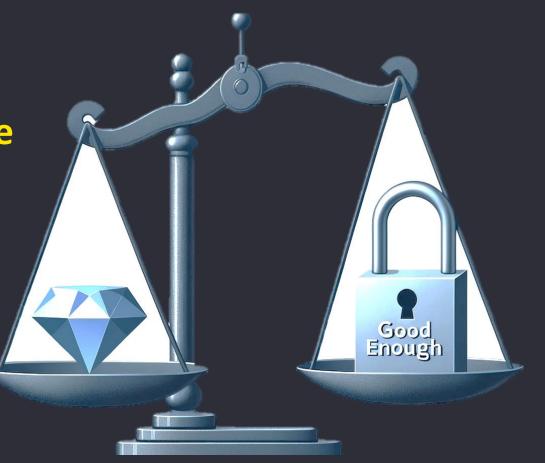
Be careful what to report to management

ΗΟΤ ΡΟΤΑΟ

Auudit report



Striving for perfection can be counterproductive



objective actionable measurable comparable timely reliable achievable understandable quantifiable efficient effective relevant



 Support effective decision making

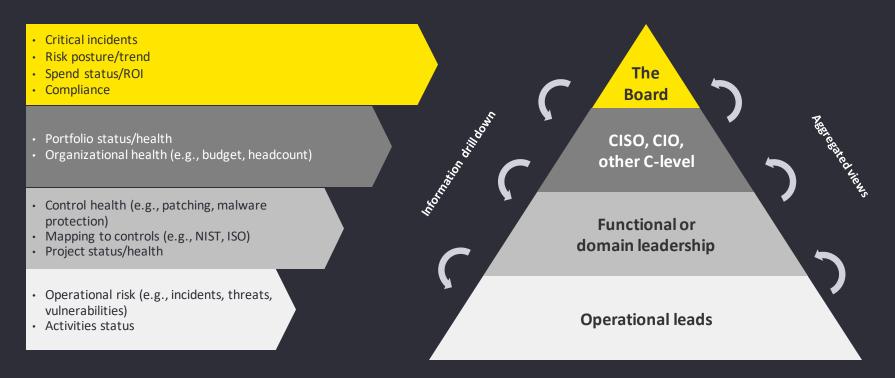
✓ Decrease uncertainly

Highlight issues
 that matter

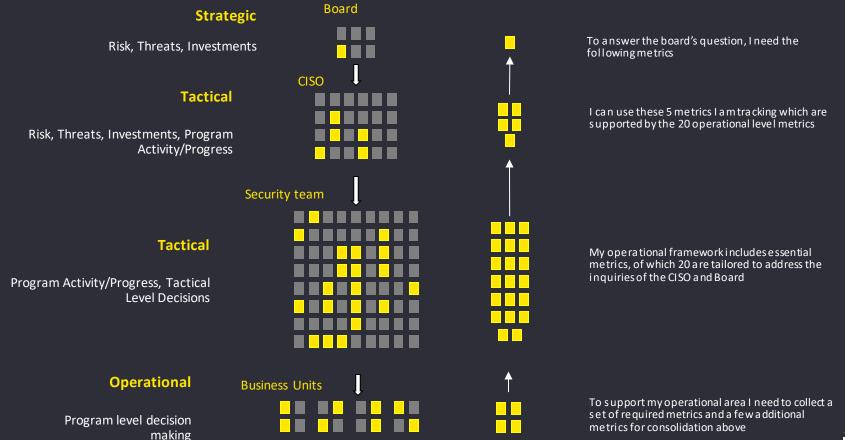


objective actionable measurable comparable timely reliable achievable understandable quantifiable efficient effective relevant

Change the message for your audience



Top down approach to select metrics



What is board really interested in?

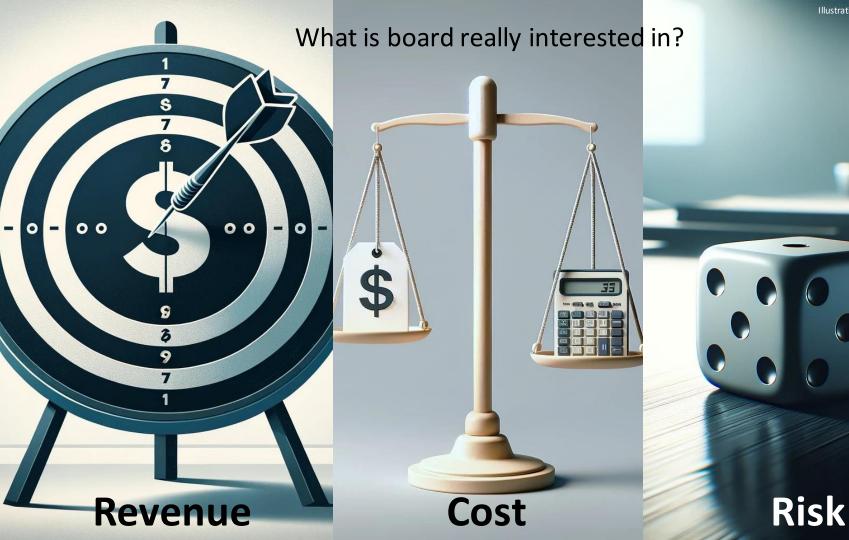








EY EY







Executives are advised to...

- ✓ Target level 5 maturity
- ✓ Spend x% of revenue on security
- ✓ Be accountable for incidents
- ✓ Use benchmarks
- ✓ Follow a checklist

Executives are advised to...

- ✓ Target level 5 maturity
- ✓ Spend x% of revenue on security
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We advise CISOs to ask...

- ✓ What is the board's background?
- ✓ What role do they serve on the board?
- ✓ Is there a cybersecurity expert in the board?
- ✓ What are their biases?
- ✓ What are their passions?

Once upon a time...

Illustration by Open AI: DALLE

Security can be simple

Focus on credentials that control systems

Focus on people that use your critical assets

Focus on your critical assets (errors in configuration, software)

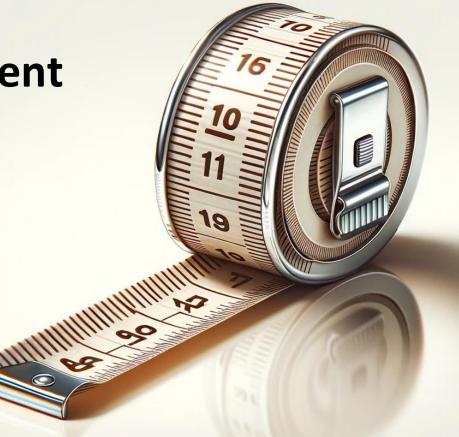






NIST CSF – a management-friendly framework

The measurement cycle



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Measure the maturity of the controls

Design a control framework

The measurement cycle

1. Define

- Metric Owner
- Data Owner

Assumptions

- Data Sources
- Description o Thresholds
 - - Frequency

Calculation

Status

2. Collect

- $\circ~$ Iterative process
- \circ Continual improvements
- $\circ~{\sf A}~{\sf set}~{\sf framework}$
- Methodology

3. Validate

- \circ Clear steps to validate
- o Responsibility of the collector, initially
- \circ Over time, moves to metric and data owner
- o Brings confidence level of the data collected

4. Manage

- o Begin with manual collection and analysis
- o Gradually moving towards automation
- $\circ~$ Not take resources away from their main tasks



- Top 5 threats
- Top 5 threat actors



Assets and business at risk

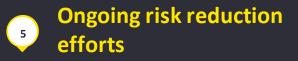
- Top 5 Crown Jewels aligned with business
- Financial value and value at risk



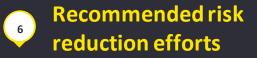
- Health
- Effectiveness
- Defensibility
- Recoverability
- External security ratings



- Risk scenarios
- Risk exposure



- Ongoing Initiatives
- Risk reduction value



- Recommended initiative
- Initiative cost
- Initiative risk reduction value
- Initiative return on security investment

Threat actors & threats

The company is in the news, threat actors are highly motivated and well financed





• ATP1

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- Lazarus
- Cobalt
- Ransomware
- Spearphishing
- Supply chain attacks



1 Thre	eat actors & threats	Assets & business at risk					
	s in the news, threat actors are otivated and well financed	Los	ss amount is t	based on productiv fines, reputat		acement,	
• ATP1 • Lazarus • Cobalt	 Ransomware Spear phishing Supply chain attacks 	Pil Data	IP	E-commerce	Data centers		
		€500 m	<u> </u>	€200 m	[0]0]0 €300 m	€600 m	





^{3b}—Security Posture (Frameworks)⁻

MITRE ATT&CK

	Initial access	Gain control	Lateral mov.	Data access	Data transf.
Coverage	25%	25%	25%	25%	25%
Tested	15%	15%	15%	15%	15%
Detection	65%	65%	65%	25%	25%

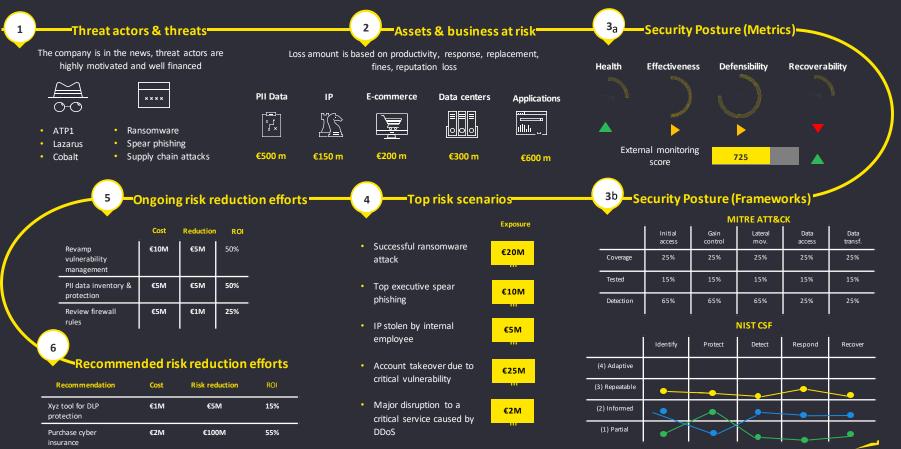
NIST CSF











Thank you!

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Community

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