



Integrated Scenario Analysis and Common Impact Drivers

SPEAKER

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Outline

1. Scenarios: a Must-Have?
2. Simpler than you think: Identifying Common Impact Drivers
3. Standardizing Scenario Assessment: Example of a Uniform Template

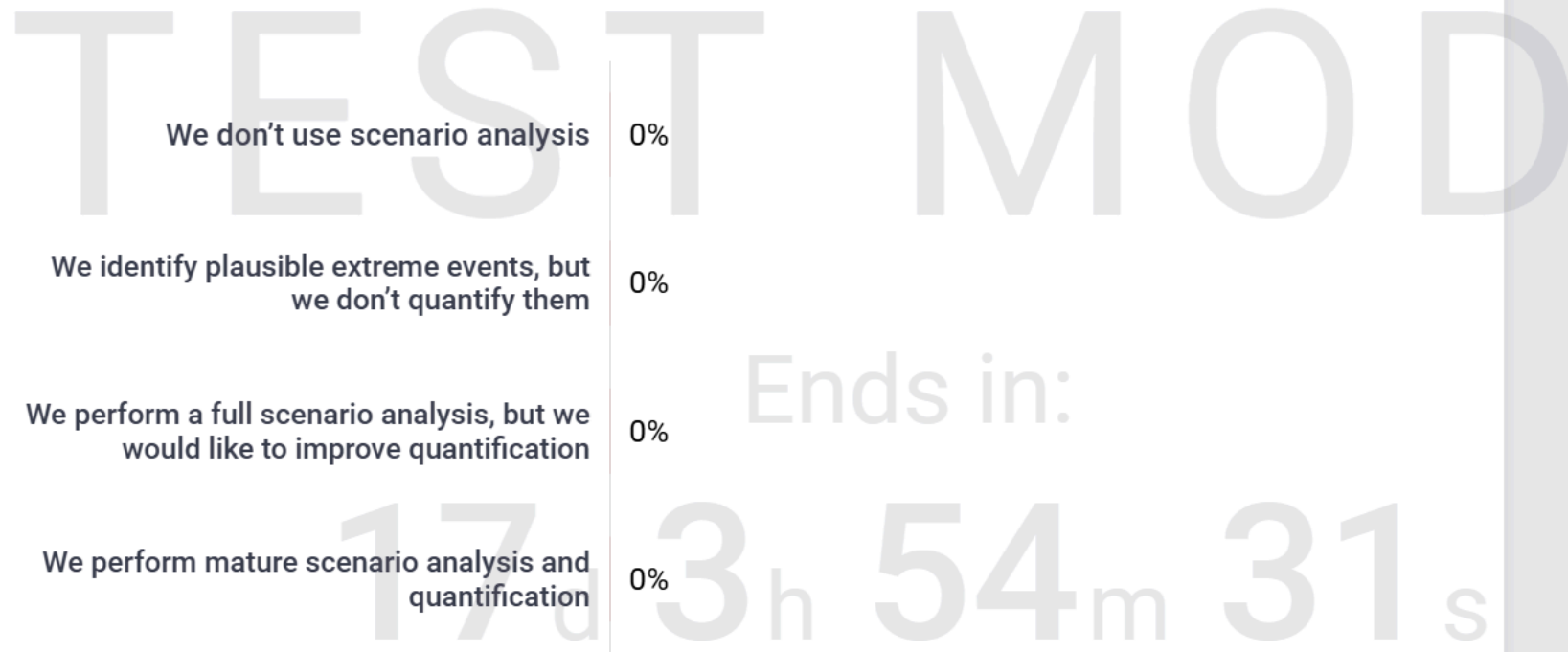




My Short Bio (regarding scenario analysis)



What is the status of Scenario Analyses and Assessments in your organization:



0 total participants | 0 votes

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Scenario Analysis: the reasons to postpone

- *It's a nice-to-have*
- *We'll get to it later; there are more urgent priorities*
- *These are very unlikely events, anyway*
- *It's only for regulatory capital purposes*
- *It's impossible to quantify*
- *We have a BCP / an ICT plan, we're fine*
- *It's depressing to think about catastrophic events*

Does any of these reflections sound familiar?



Scenarios: a Must-Have?

The Benefits of Scenario Analysis

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Are “Rare Events” so Rare?

The asymmetry of operational losses

The most frequent incidents are not the ones causing damage (Banking sector, 2016-2021)

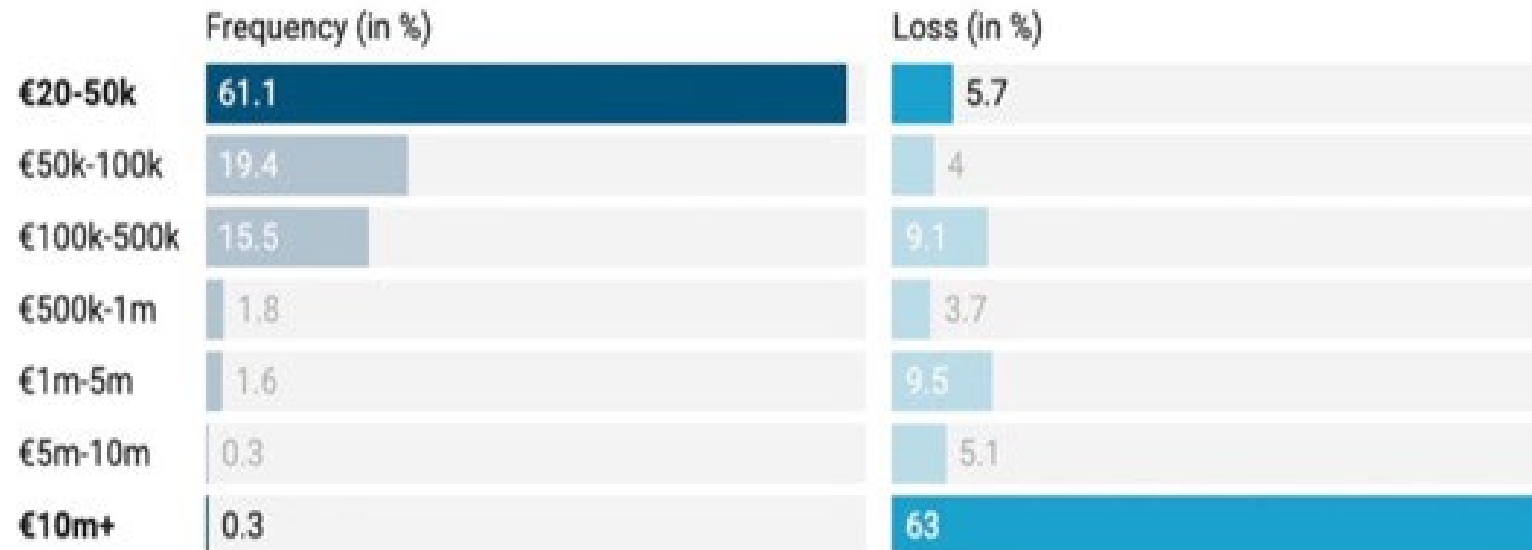


Chart: Ariane Chapelle • Source: Annual Banking Loss Report, ORX, April 2022 • [Get the data](#) • Created with [Datawrapper](#)

- Disruptions
- Data breaches
- Ransomware
- Fires
- Frauds
- Fines
- Accidents
- ...

0.3% of 65,000 incidents collected per year = about 200 incidents of €10m+ per year, for 100 members = 2 scenario events per organisation and per year, on average.





**Rarity of incidents
depends on control
effectiveness**





Scenario Analysis: a Must-Have!

■ Benefits

- Awareness
- Control assessment and testing
- Preparedness
- Operational Resilience (with proper plans)
- Financial Resilience (with proper capital levels)
- Compliance



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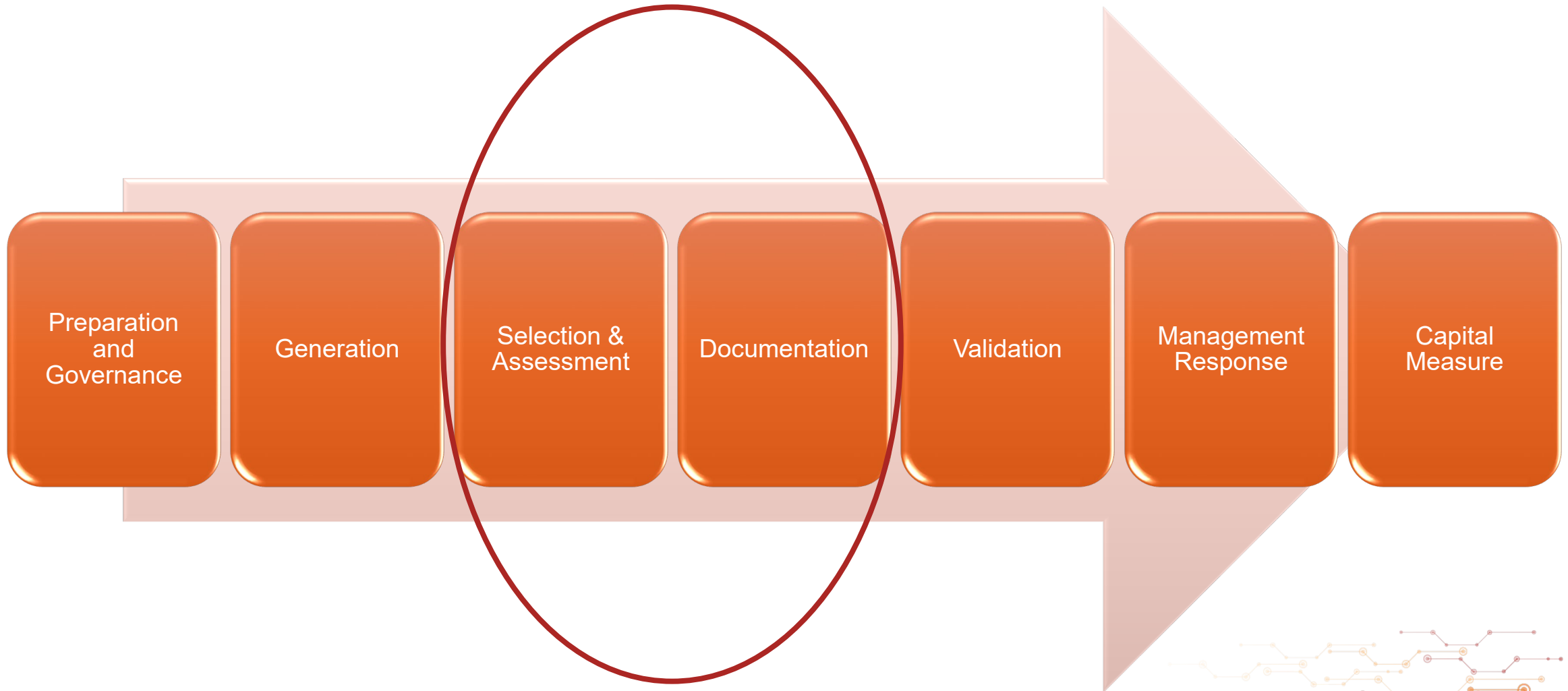
Simpler than you think

Identifying Common Impact Drivers

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Seven Steps of Scenario Analysis





Structured Scenario Analysis

- Most scenarios can be decomposed into the same impact types
- Similar assessment structures allow for
 - Comparison, for prioritisation
 - Explanability of results, for action plans if needed
 - Assessment of losses at higher probabilities :50%, 20%, 10% for instance





Impact types for most scenarios

1. **Damage to material or immaterial assets** (data centre, building, IP...)
 - % destruction * replacement value
2. **Loss of business due to disruption**
 - Revenue per unit of time * duration of the event (detection + duration)
3. **Remediation costs** (crisis management, investigation & repair, monitoring & reporting),
 - Internal man-days (\$1k/day) + external services + further remediation programs
4. **Stakeholder impacts**
 - Customers & staff attrition, regulatory sanctions, suppliers' changes in prices and services, reputation damage, legal costs



Standardizing Scenario Assessment

Example of a Uniform Template

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Simple and Structured Scenario Assessment

= Decomposing a scenario (Example: Data Breach)

1. Into impact factors or drivers, such as:

- Time to detection * volume of data leaked / time * value per data / vol.
- + remediation cost (repairs, consultants, management time)
- + communication and stakeholders' impacts (customers, regulators,...)

2. At a range of values (Low – Medium – High – Extreme)

3. For different likelihood levels (60% - 30% - 8% - 2%), with values dependent on the controls in place and their effectiveness





Standardized Template

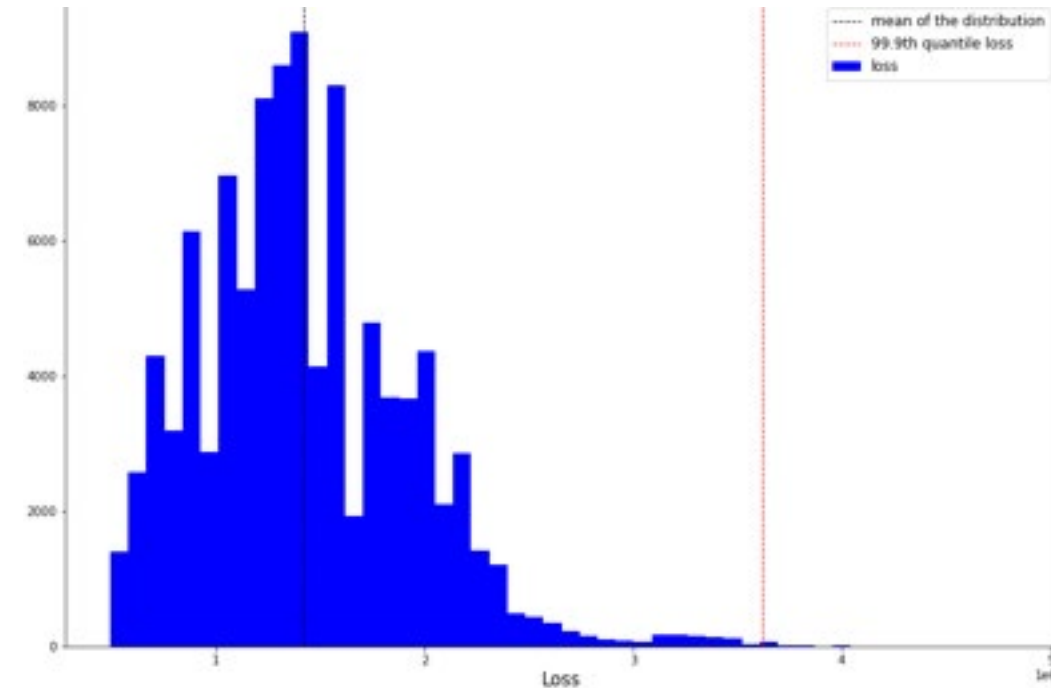
Text Presentation
Scenario Title Ex: Data breach
Rationale Why selected
Scenario Exposure Data type held & value
Control Environment Key controls and responses

Quantification	L	M	H	E
Direct value loss	\$	\$	\$	\$
Time (detection + disruption)				
Volume per time				
Value per volume (physical / digital assets)				
Remediation cost	\$	\$	\$	\$
Investigation time				
Communication time				
Man-day value				
External services				
Stakeholders impact	\$	\$	\$	\$
Customers attrition				
Customer value				
Regulatory sanctions				

Assessment and Quantification – Example



Quantification	L	M	H	E
Direct value loss (k\$)	40	600	14,400	80,000
Time (detection + disruption) (in hours)	2	8	72	400
Volume per time (Gb / m3)	20	50	100	100
Value per volume (physical / digital assets)	1,000	1,500	2,000	2,000
Repair cost (k\$)	-	210	1,000	2,750
Investigation time (in days)	0	100	400	600
Communication time	0	10	100	150
Man-day value (\$)	1,000	1,000	1,000	1,000
External services (k\$)	0	100	500	2,000
Stakeholder impact	-	350	7,000	25,000
Customer attrition	0	100	2,000	5,000
Customer value	3000	3000	3000	3000
Regulatory sanction (k\$)	0	50	1,000	10,000
Total	40	1,160	22,400	107,750





What good looks like

- Quarterly TDRA: *Top-Down-Risk-Analysis* at Executive level
- Active business implications in the assessment process
- Reporting at all levels of likelihood (not only 99.9)
- Linked to strategic decisions (key projects, expansions, etc.) and budgeting (mitigation costs, expected losses and capital needs)



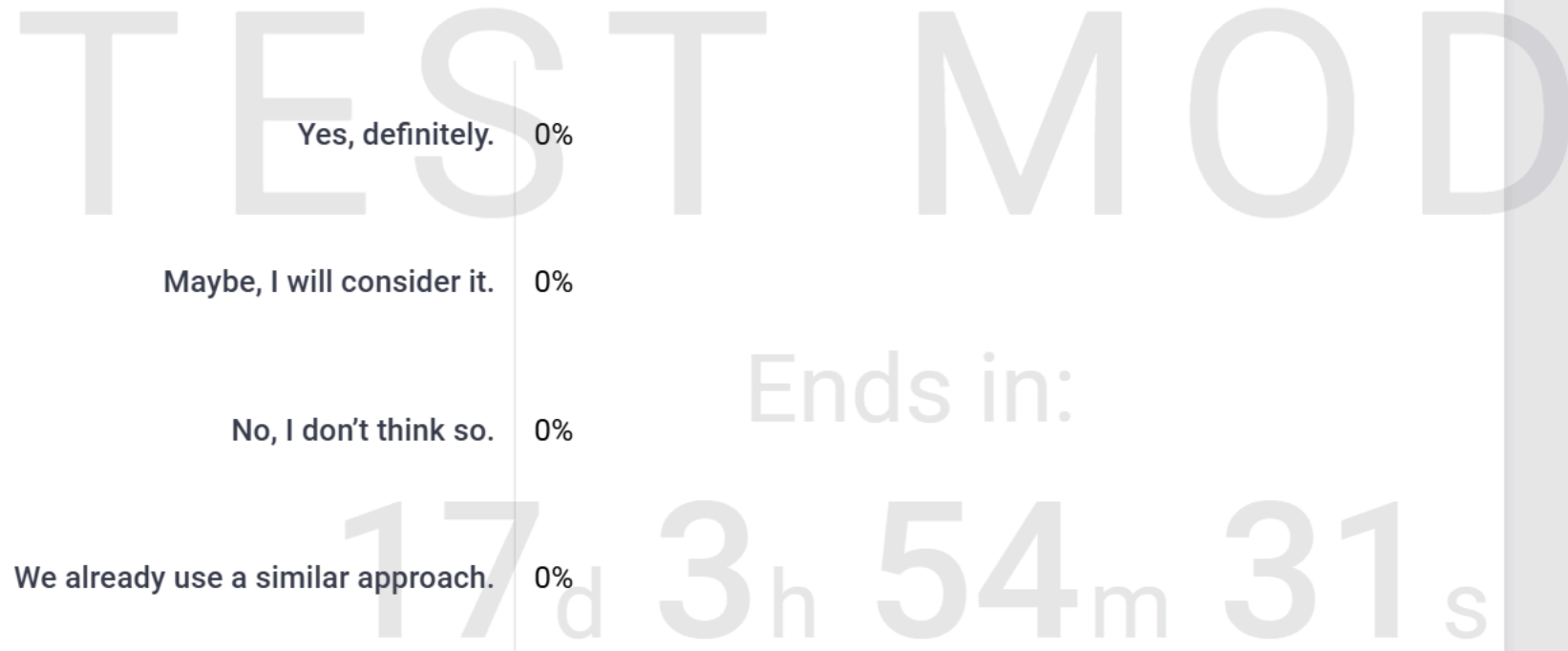


Conclusion and Summary

- Scenario identification and assessment are essential components of a risk management framework.
- “Rare” events are more common than many believe, and they are brewing certainties in weak control environments.
- Structured scenario assessments are effective methods to identify common impact drivers and heightened risk exposures.



After this talk, are you more likely to revisit your scenario analysis practice?



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Questions?

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