



FASTER, BETTER AND MORE DISRUPTIV THAN EVER! AUDIT CHALLENGE CONFERENCE SERIES 2023

# **Geopolitical influences** change the audit risk landscape





### Stronger together | Successful Digital Transformation



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The Audit Research Center as part of the ARC Institute supports audit departments globally and especially national IIA associations with yearly 1.800+ training days and transformation services along an audit knowledge value chain.



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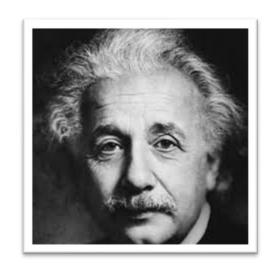




### **Agenda**

- Baseline situation: VUCA is the new BANI
- Audit Methodology Set-up
- 3 Extended risk focus: Gross risk, macro risk influencing factors
- Solution approaches to improve audit risk radar at the speed of risk 4
- 5 Joint conclusion and outlook





## **Key Challenge for Today**

"Everything should be made as simple as possible, but not simpler."

Albert Einstein

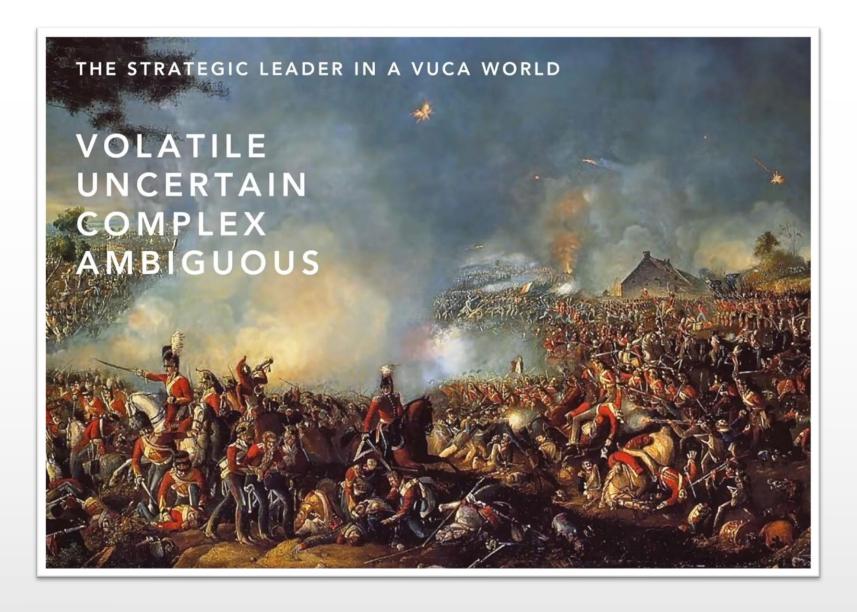


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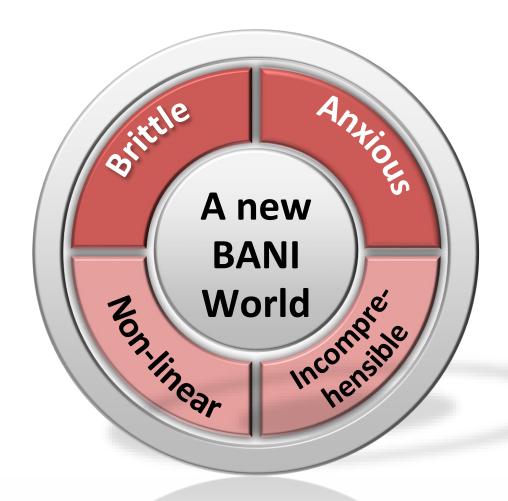
### **Interim Conclusion VUCA Approach:**

- ✓ VUCA already had disruptive elements in focus,
- ✓ but under the premise of agents operating (relatively) rationally

With main focus on win-win situations in the sense of improvement of an original condition

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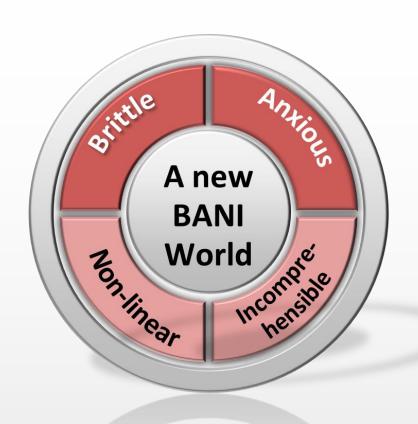






**Jamais Cascio** 





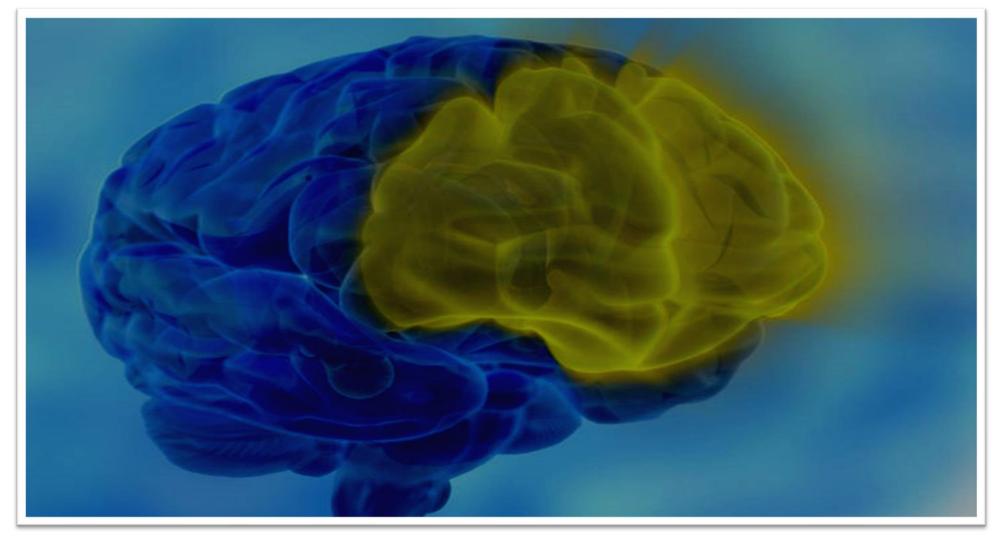
### **Interim Conclusion BANI Approach:**

- ✓ Multidimensional influences affect people's everyday lives
- ✓ Our brain tries to find simple solutions in coherent linear contexts, cause-effect chains

In this context the geopolitical crises show that irrational behavior of agents leads to lose-lose situations.

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### Human brain "infrastructure"

Important: Hardware ~ not changeable @

#### **Prefrontal cortex**

Rational thinking, analytic, problem solving ~ logical computing capacity

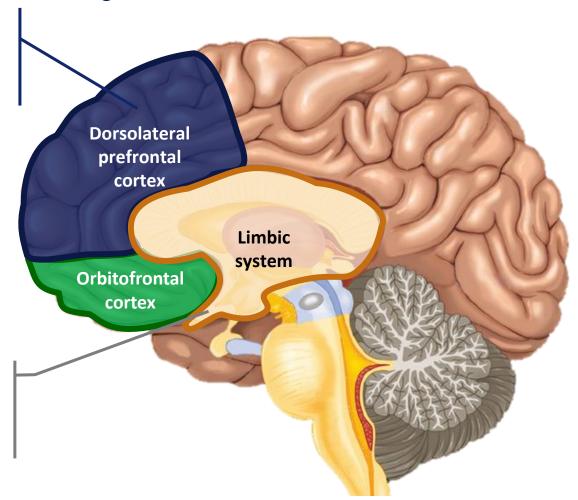


Slows down the evaluation patterns and first impulsive action



#### **Limbic system**

Continuous evaluation of the situation based on childhood experiences and patterns











## Top 5 Risk on a global level 2023 macro risk influencing factors for our audit risk landscape

## Geoeconomic confrontation





Energy supply crisis



Cost-of-living crisis



Rising inflation



Food supply crisis



Source

Risk categories

Economic

Environmental

Geopolitical

Societal

Technological

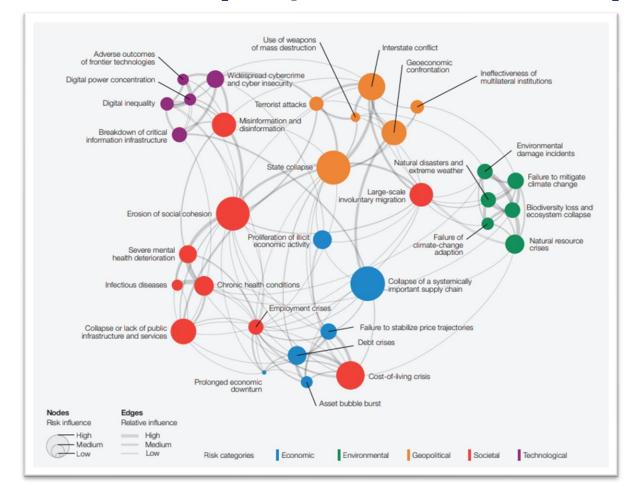
World Economic Forum Global Risks Perception Survey 2022-2023.

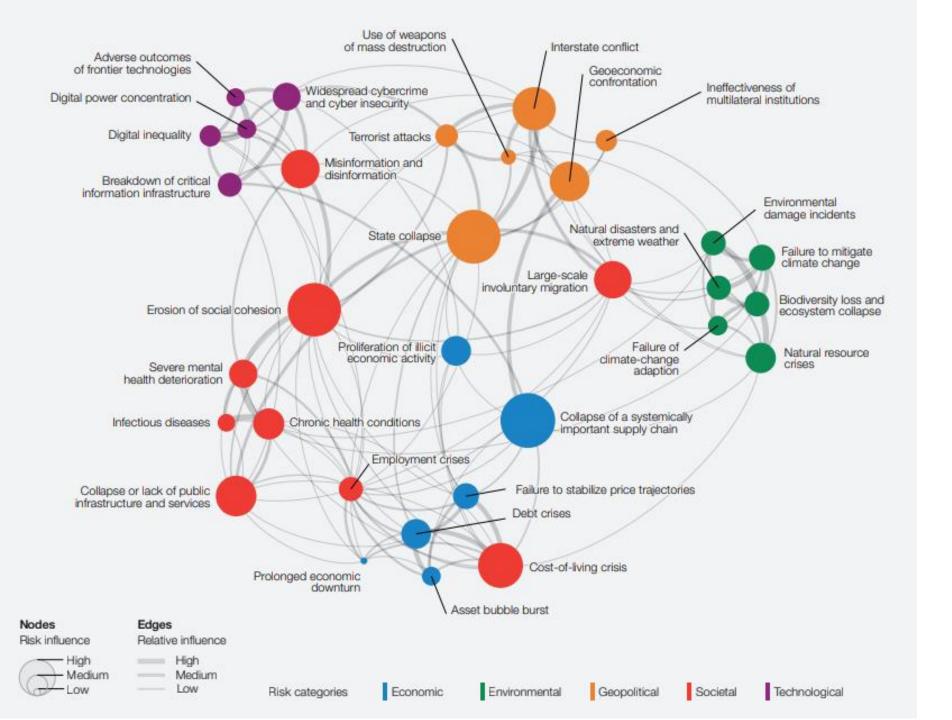




## **Global Risk Landscape | ESG Audit in Spotlight**

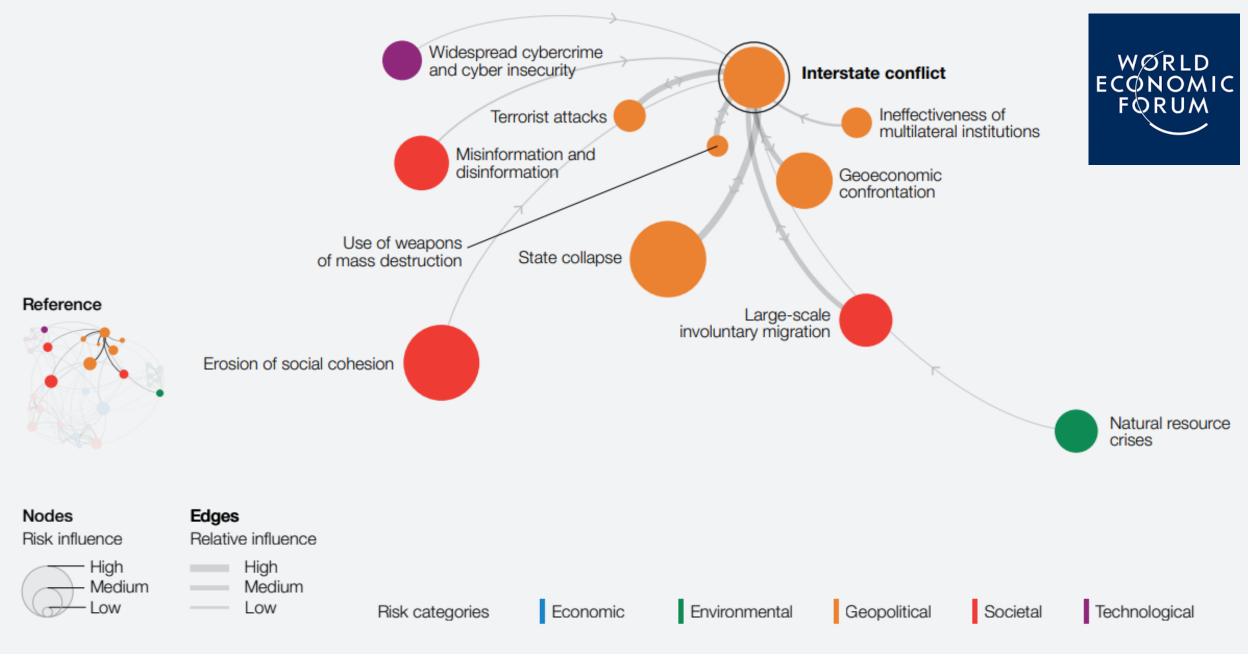














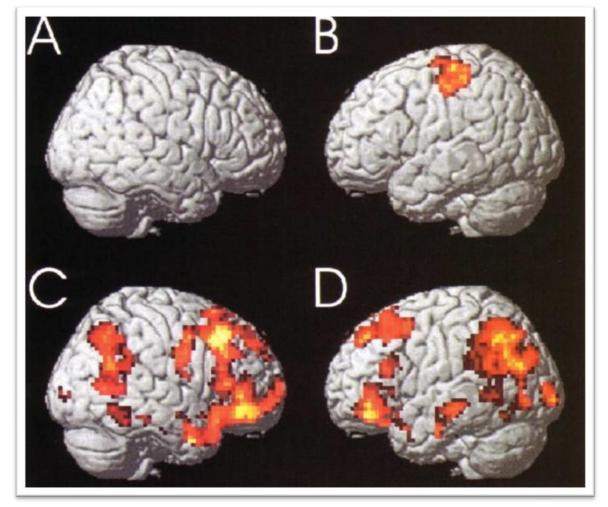
## What happens to the brain when learning occurs...

#### **Brains A & B**

- Low energy expenditure, applying what has already been learned
- Narrow focus and attention

#### Brains C & D

- Conscious involvement, new concepts are being considered
- Higher energy as new new links are formed
- New perspectives evolve, knowledge is acquired



Translated based on original concepts from: Gehirn&Geist 2/2002, Seite 57; © Manfred Spitzer

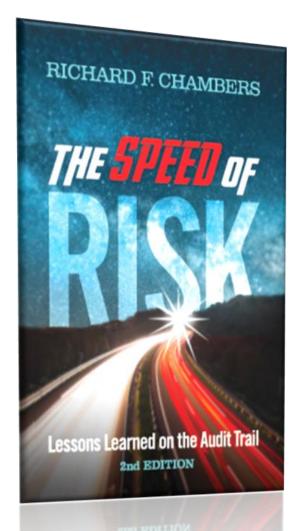


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### **Auditing at the Speed of Risk**





- The imperative to audit at the speed of risk
- ⇒ How internal audit must leverage innovation in the face of disruption
- ⇒ Internal audit's role in auditing culture, artificial intelligence, and new technologies
- ⇒ The idea that internal auditors can audit anything—but not everything
- ⇒ The skills future trailblazers will need in internal audit

https://www.accountingtoday.com/news/longtime-iia-ceo-richard-chambers-plans-to-step-down-in-march



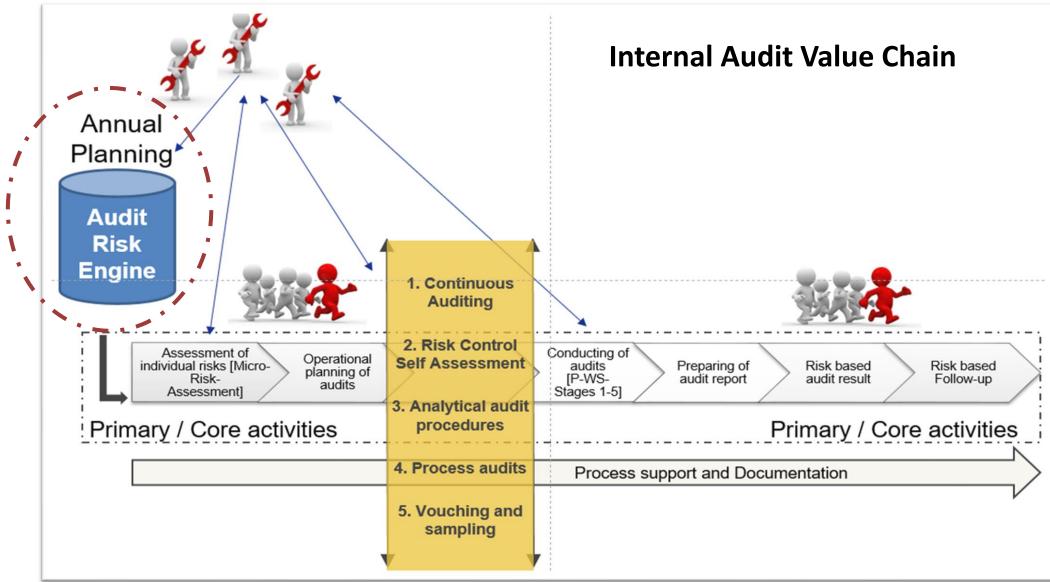


How is that now again **today** in internal audit?

... about the speed?









### From gross risk to net risk

How good is our Enterprise Supervisory System?



#### Inherent or Gross Risk

- Internal Control System
- Governance System
- Risk Management System
- = Residual- or Net-Risk

The audit risk analysis relates in each case to a specific audit object within the audit universe

Each audit object in the audit universe includes various inherent risks and their sub-risks



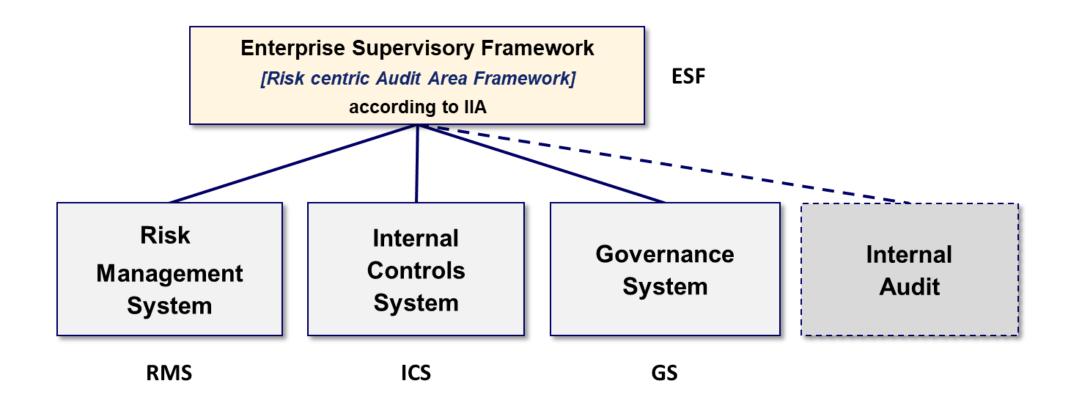
### IIA – Definition of Internal Auditing Providing a Globally Uniform Understanding



"Internal auditing is an independent, objective assurance and consulting activity designed to add value and improve an organization's operations. It helps an organization accomplish its objectives by bringing a systematic, disciplined approach to evaluate and improve the effectiveness of **risk** management, control, and governance processes."



### The Enterprise Supervisory Framework





#### From gross risk to net risk

How good is our Enterprise Supervisory System?



#### Inherent or Gross Risk

- Internal Control System
- Governance System
- Risk Management System
- = Residual- or Net-Risk

- How can we get better at measuring macro risk impacts early on?
  - To get even better at assessing gross risk and its impact level?

- So that we can audit and improve the components of the ESF in a more purposeful way according to the new insights of the macro risk impacts,
- enabling us to better establish the resilience of our corporate business models in this respect.



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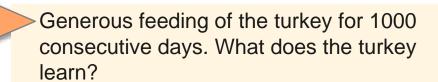






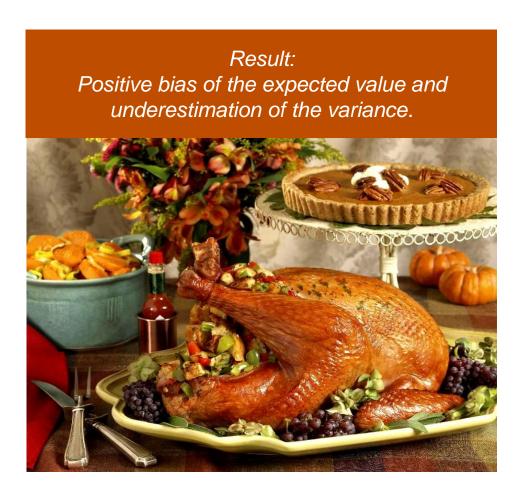
## A good visual example is the turkey dilemma







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Generous feeding of the turkey for 1000 consecutive days. What does the turkey learn?

Butchering the turkey on day 1001 preparing for Thanksgiving.



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Generous feeding of the turkey for 1000 consecutive days. What does the turkey learn?

Butchering the turkey on day 1001 preparing for Thanksgiving.

From a finite set of observations, the generality of the facts can never be concluded.

Very significant extreme but rare events may never have occurred in the past period under consideration. Or never occurred in this combination.



...for future success



#### Johari Window

It was developed in 1955 by the American social psychologists Joseph Luft and Harry Ingham. With the help of the Johari Window the so-called "blind spot" in the self-image of a person is illustrated.

Knowledge		
٥	Knowns	Unknowns
Nown known	known Knowns	known Unknowns
Metakn	unknown Knowns	unknown Unknowns

made popular again by US Secretary of Defense Donald Rumsfeld

#### Geopolitical influences change the audit risk landscape





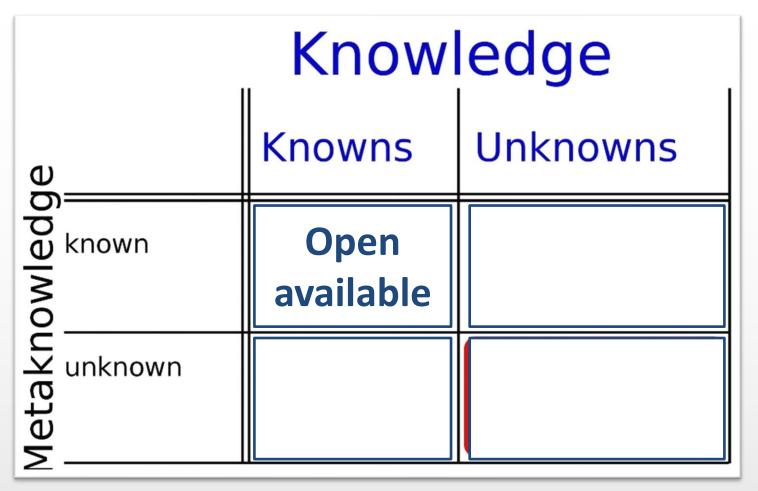
	Knowledge		
٥	Knowns	Unknowns	
Metaknowledge uwouyun uwouy	known Knowns	known Unknowns	
Metakn uwouyun	unknown Knowns	unknown Unknowns	





...for future success

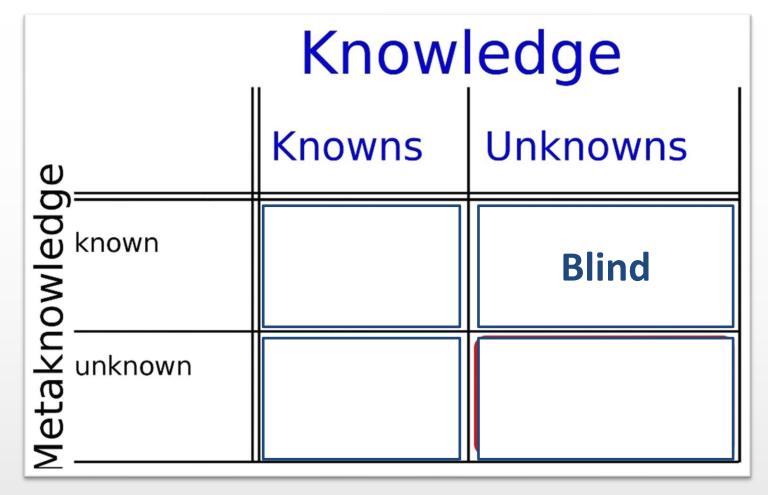
Things that are known by you and also seen and acknowledged by others.





...for future success

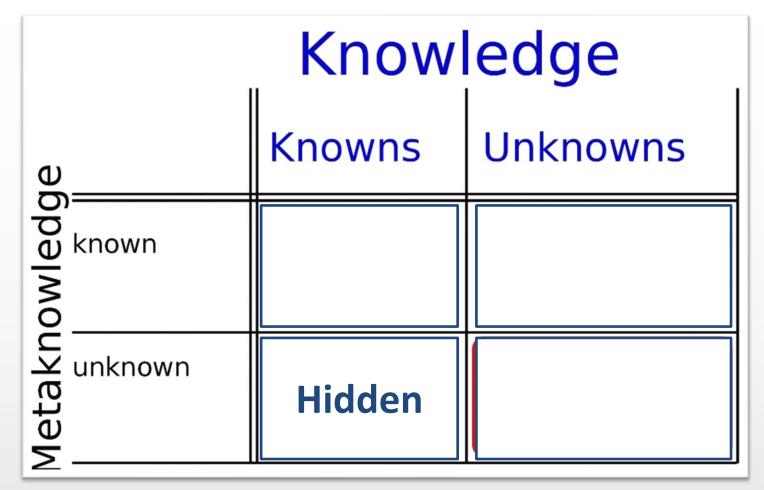
Things that are unknown by you but seen and acknowledged by others.





...for future success

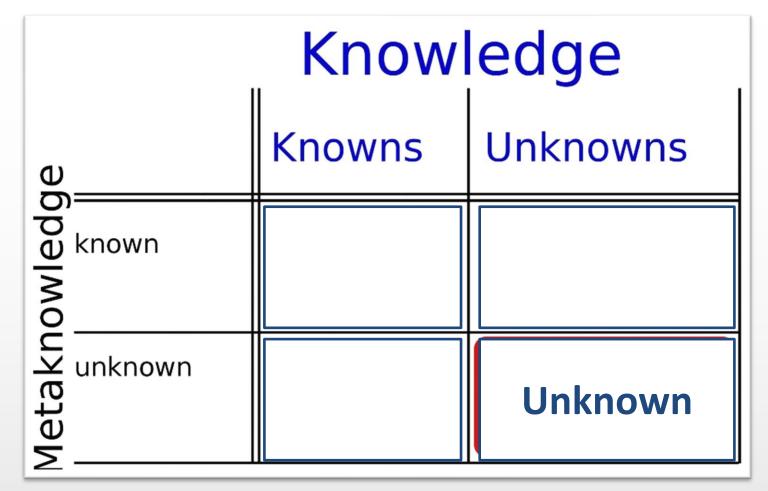
Things that are known by you but things that are not known to you in terms of content.





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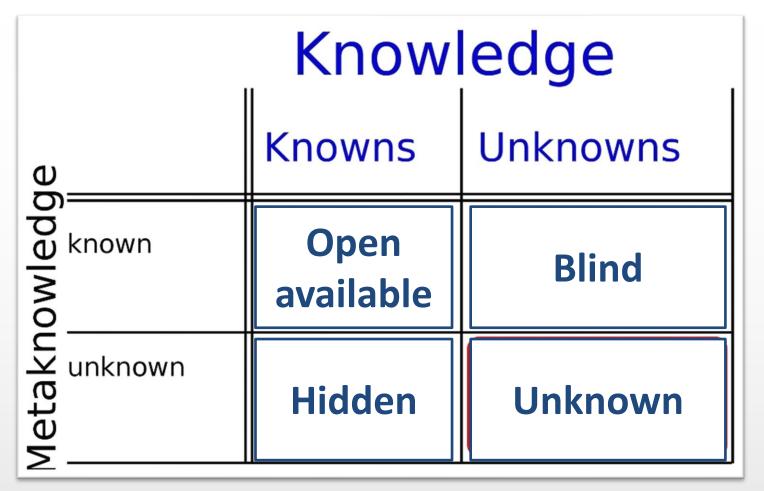
Things that are unknown by you but which also do not appear on our risk radar screen.





...for future success

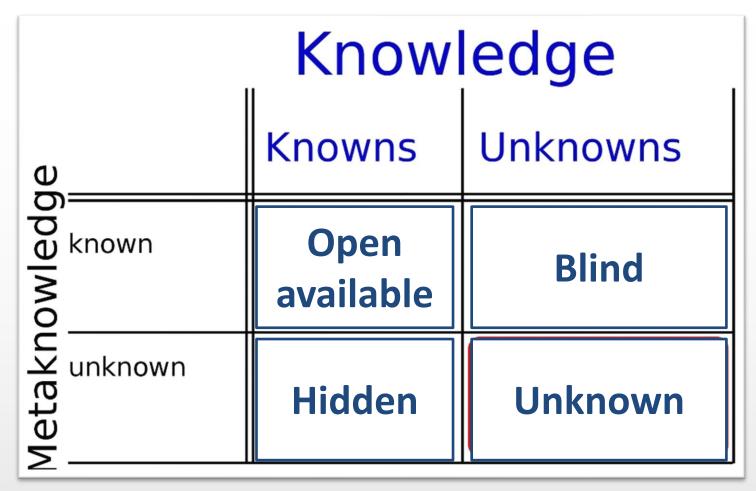
This means we have to make ourselves even more aware of where our blind spots are.





...for future success

This means we need to get better at identifying weak risk signals earlier.





...for future success

1986

2004

2011







**Fukushima** 



...for future success

2022 2021









## Create a better macro risk radar

...for future success

- ✓ No brainers: Short-term impactful trends that should be embedded in the current audit risk planing cycle
- ✓ **Speed-ups:** Trends evolving faster than thought, which may demand immediate audit action.
- ✓ Alarms: Trends for which further investigation may be urgently required.
- ✓ **Observatory:** Trends with considerable impact, but only to materialize mid/long-term.
- ✓ Parking: Trends with low impact on the company business model.

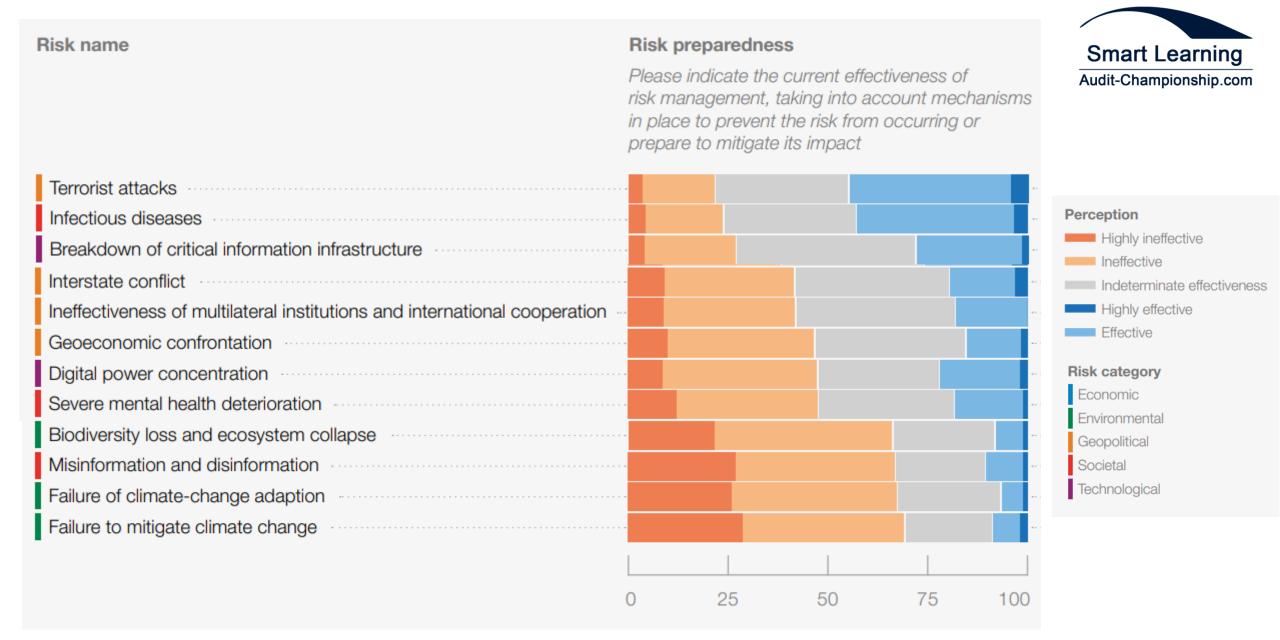




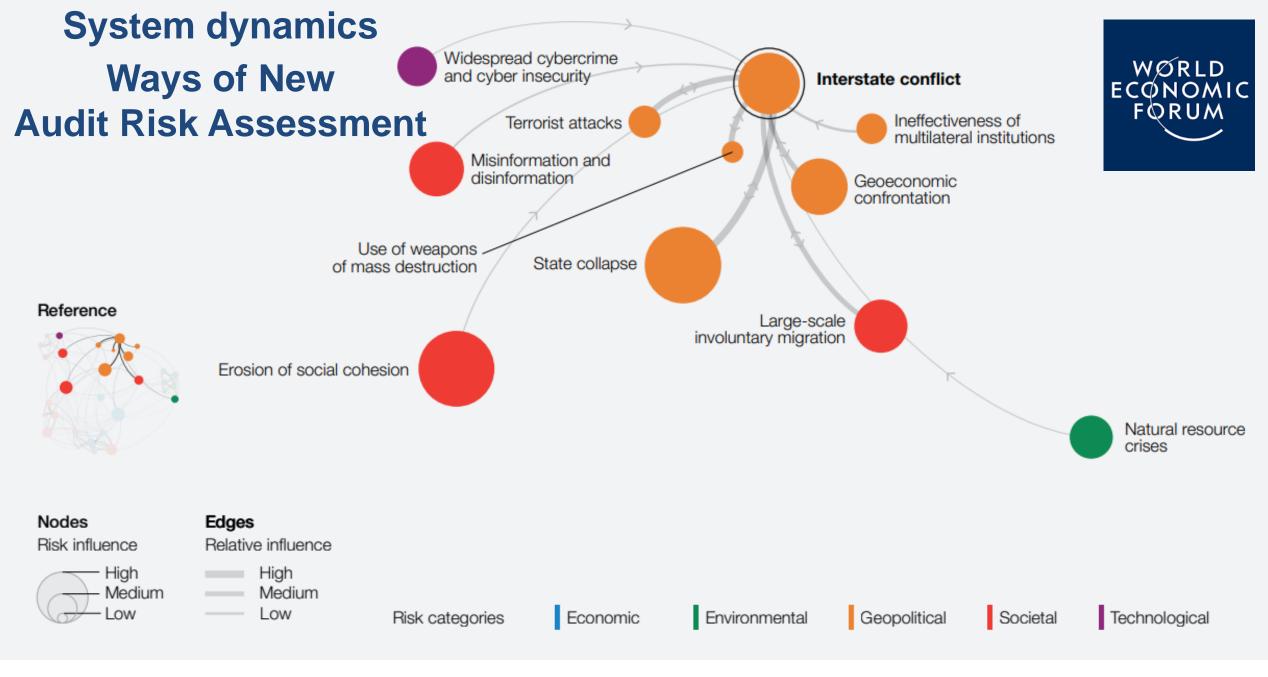
## Build an enhanced macro risk radar

....to better assess inherent risks.



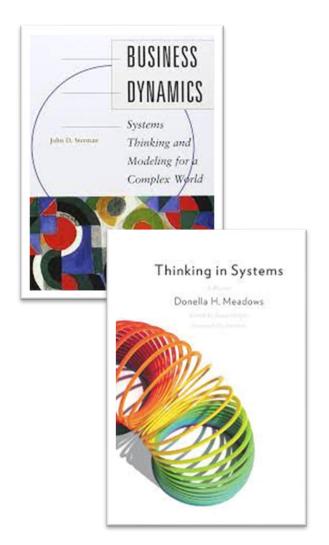


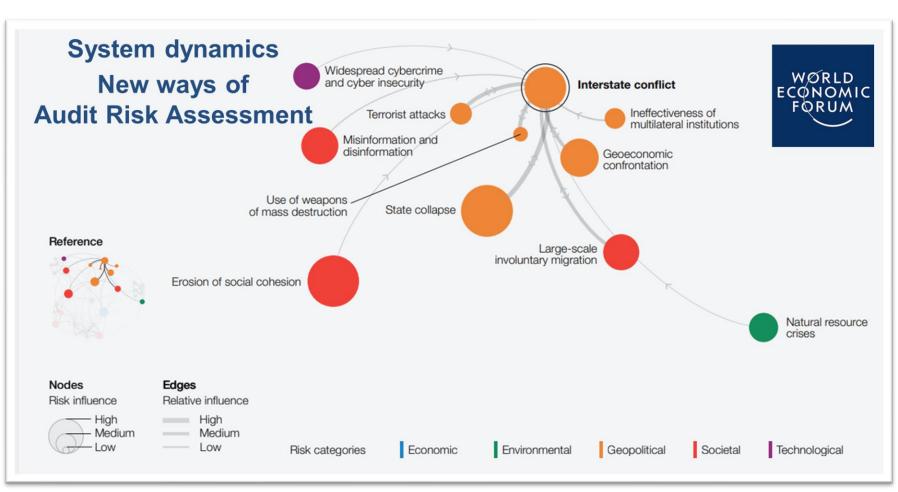




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Business Dynamics: Systems Thinking and Modeling for a Complex World, John D. Sterman





## **Interim Conclusion enhanced Macro Audit Risk Radar:**

- ✓ Pre: Internal audit must learn to better interpret weak signals, and learn to understand their potential effectiveness
- ✓ Post: Internal Audit must create technical and competency-based resources to be able to perform direct event and impact analysis, depending on the occurrence of the events.

The really interesting and challenging part of this is: To understand the dynamic links between the potential or occurred macro risk events and the own company business model as well as the audit objects in the audit universe.



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The Idea

behind Speed of Risk | velocity is to include a time element in the risk assessment.

**Auditing @the Speed of Risk** 

Typically, this is referred to as either **Time to Cause** or Time to Impact.





**Auditing @the Speed of Risk** 

- **> Dynamics** is the rate at which risk changes over time.
- **×** Take, for example, the spread of COVID-19:
  - ⇒ **Time to Cause** would measure the rate at which the virus spreads from person to person,
- ⇒ while **Time to Impact** is the velocity at which people get sick or when businesses are affected.

By doing this, you could focus on one or both of these measurements.



# **Option 1: Likelihood and** Velocity "added"

Time to Cause	Time to Impact
When and how quickly can this happen to us?	At what point will we feel the impact of the risk event?
(Likelihood + Velocity) x Impact = Audit Risk Score	(Impact + Velocity) x Likelihood = Audit Risk Score



Option 1b: Likelihood and Velocity "added", multiplied each by a weighting factor

Time to Cause	Time to Impact
When and how quickly can this happen to us?	At what point will we feel the impact of the risk event?
(Likelihood x w1 + Velocity x w2) x Impact = Audit Risk Score	(Impact x w1 + Velocity x w2) x Likelihood = Audit Risk Score



# **Option 2: Likelihood and** velocity "multiplied"

Time to Cause	Time to Impact
When and how quickly can this happen to us?	At what point will we feel the impact of the risk event?
(Likelihood x Velocity) x Impact = Audit Risk Score	(Impact x Velocity) x Likelihood = Audit Risk Score



Option 2b: Likelihood and velocity "multiplied" as well as multiplied each by a weighting factor

Time to Cause	Time to Impact
When and how quickly can this happen to us?	At what point will we feel the impact of the risk event?
[(Likelihood x g1) x (Velocity x g2)] x Impact = Audit Risk Score	[(Impact x g1) x (Velocity x g2)] x Likelihood = Audit Risk Score



# Example: **Auditing @ the Speed of Risk Unauthorized IT system access**

- Let's now apply this idea to a risk assessment.
- \* Risk is calculated as impact and probability, but this risk also passes through an organization at a certain speed.
- ➤ Let's take a simple example like "Unauthorized IT System Access" as a risk and use the new metrics Time to Cause and Time to Impact.
- For the following example, let's assume that all metrics use a CMMi 5-point inverse risk scale, where 1 = Low Risk and 5 = High Risk.





Time to Cause	Time to Impact
When and how quickly can this happen to us?	At what point will we feel the impact of the risk event?
[(Likelihood x g1) + (Velocity x g2)] x Impact = Audit Risk Score	[(Impact x g1) + (Velocity x g2)] x Likelihood = Audit Risk Score
[3 x 0,5 + 5 x 0,5] x 4 = 16	[4 x 0,5 + 5 x 0,5] x 3 = 13,5



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## TYPES OF DRIVING FORCES



**MEGATRENDS** 

Drive paradigm shift. While they often take time to form, they have strong, deep and long-lasting impact (e.g. climate change, urbanization)



TRENDS

Gradual and long-term shift in the forces shaping the future of a nation, region, industry or society (e.g. decentralization of energy grids, increasing use of biointerfaces, geopolitical fragmentation)



WEAK SIGNALS

First symptoms of change that may become significant in the future. While difficult to see now, it will have a big impact (e.g. ice free arctic oceans)



**WILDCARDS** 

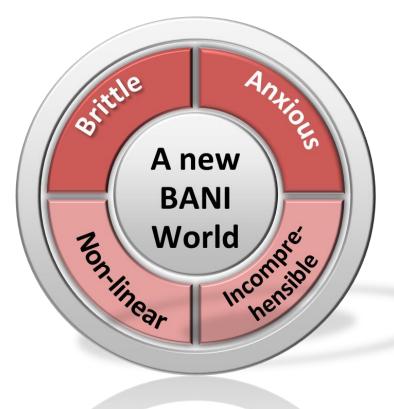
Discontinuities and sudden events with a low probability of occurrence, high impact and unexpected character (e.g. 9/11. COVID19)



**UNCERTAINTIES** 

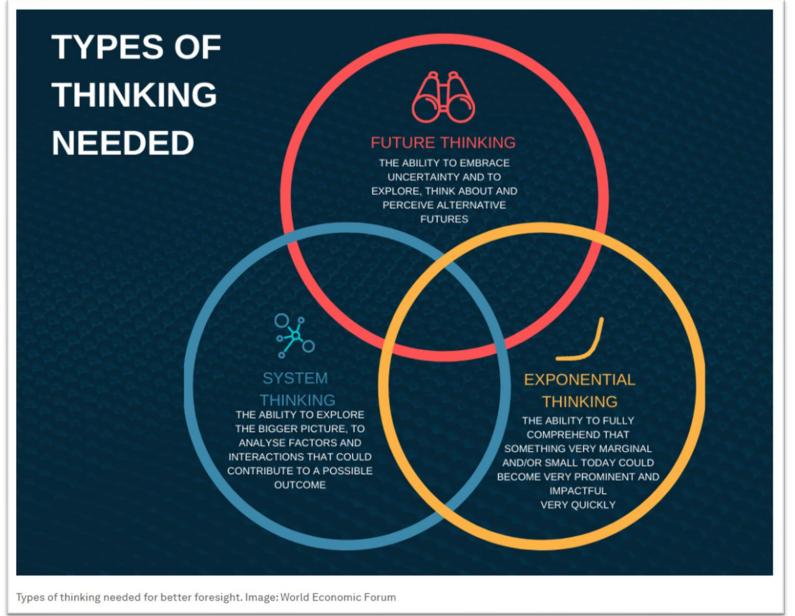
A critical driving force that points or could lead to alternative and contrasting evolutions or implications (e.g. the long-term impact of chat GPT)

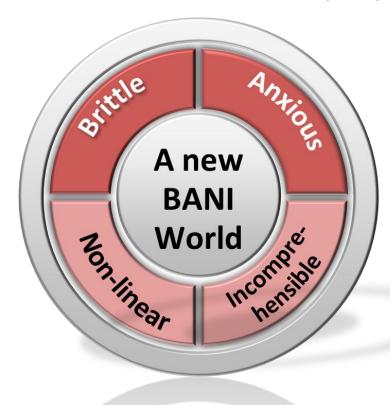
Types of driving forces of change. Image: World Economic Forum



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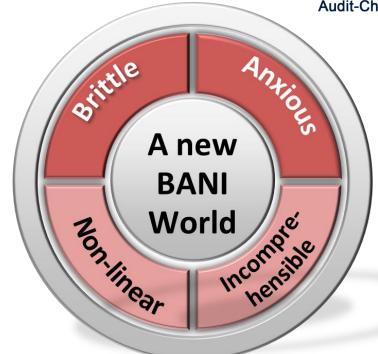
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## Key messages and joint conclusion

...with the aim of identifying macro risks for our companies earlier and better analyzing their level of risk influence in terms of Time to Cause and Time to Impact.



- 1. Expanding the risk focus from pure net risk to gross risk | Macro Risk Focus
- 2. Raising employee awareness of weak signals in the Audit Risk Radar area
- 3. Interconnected impact analyses for evaluation of risk mitigation activities in and the level of impact on the company's business model



# "It always seems impossible until it's done."



# Nelson Mandela

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