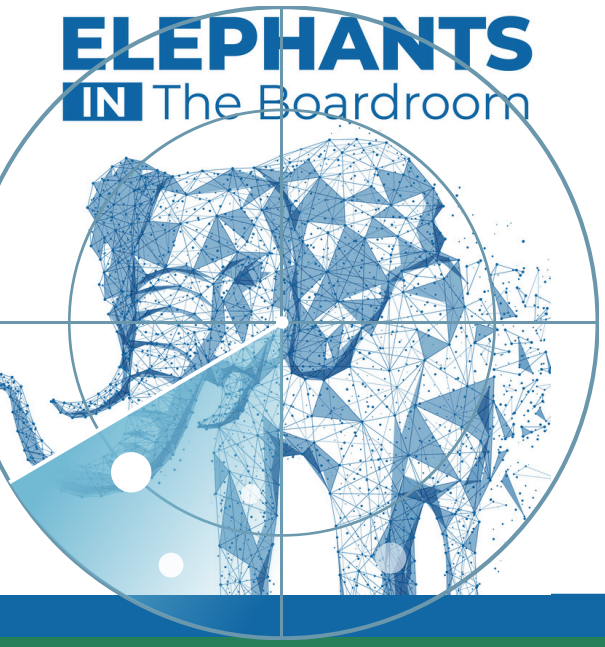
ELEPHANTS IN The Boardroom



STRATEGIC ALERT BULLETIN

Space Weather: Digital and Electronic Infrastructure's Hidden Fragility

Rising systemic risk to critical infrastructure from solar storms and atmospheric anomalies

STATUS: STIRRING	RANKING: NOTICEABLE PRESENCE	SCORE: 78

Like Covid-19, a statistically rare 1-in-200 year but extremely high impact event exposing critical infrastructure fragilities and creating a window for antifragile-driven innovation and leadership.

1) WHAT'S PINGING ON OUR RADAR

- The Iberian blackout (April 2025) demonstrated how relatively minor atmospheric anomalies can rapidly disrupt critical infrastructure across energy, transport, and communication sectors, highlighting systemic vulnerabilities that extend beyond conventional climate and cyber risks.
- Solar activity is entering a critical phase: NOAA's Space Weather Prediction Center confirms Solar Cycle 25 is now in maximum phase (2025–2026), with solar flare activity 30–40% higher than initial forecasts—significantly elevating the probability of a severe geomagnetic event.
- Modern infrastructure is far more exposed than during past solar events, given the dependency on microelectronics, satellite communications, and real-time digital networks across industries.
- A Carrington-class solar storm today could cause $1–2 trillion in economic losses in the first year alone, according to the US National Academy of Sciences, with recovery times for critical infrastructure stretching from four to ten years.
- The WEF Global Risks Report 2025 ranks large-scale infrastructure failure and cyber risks among the top five global threats, yet resilience planning for space weather events remains limited across both public and private sectors.

2) WHY THIS MATTERS

- The Iberian blackout provides a tangible example of how complex, highly interdependent infrastructure systems can be rapidly destabilised by external environmental factors. It highlights that critical risks to energy, communications, logistics, and finance are no longer confined to terrestrial threats such as cyberattacks or climate events.
- Space weather risks—historically considered improbable—are becoming more probable as Solar Cycle 25 intensifies. A Carrington-class solar storm could trigger systemic failures across multiple sectors simultaneously, with far-reaching operational, financial, and geopolitical consequences.
- Yet current resilience strategies remain focused predominantly on known risks, leaving significant blind spots. Most organisations and public agencies have not adequately stress-tested operations against sustained satellite outages, grid failures, or cascading communication breakdowns.

3)STRATEGIC ACTIONS TO CONSIDER

Leaders should see disruptions like the Iberian blackout not only as risks to manage, but as a wake up call to build antifragile systems—and even as opportunities to unlock new commercial value.:

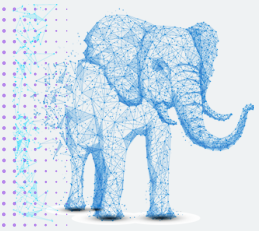
1. **Design for Antifragility:** Develop modular, decentralised systems that improve during disruption, not just recover.
2. **Accelerate Micro-grid and Resilience-as-a-Service Opportunities:** Position early in the rollout of microgrids, decentralised energy storage, and offline communication platforms. Future demand will surge across critical sectors.
3. **Create Resilience-Based Premium Offerings:**Turn continuity into a market differentiator—offer "resilience-certified" products, secure supply chains, and crisis-ready services at a premium.
4. **Develop Crisis-Optimised Technologies:** Innovate in low-energy, offline-capable, disruption-resistant technologies for critical infrastructure, logistics, and data management.
5. **Partner with Governments and Cities:** Secure roles in emerging public-private resilience projects, positioning early for long-term influence and returns.

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Where Visionary Thinking Meets Strategic Execution

WE ARE NOT JUST WITNESSING CHANGE

We Are Living through a Kairos Moment

Kairos are rare, opportune moments when forces of progress collide and conditions align for transformative change. Grey Elephants are driving this shift. For bold leaders, Kairos is a once-in-a-century opportunity to shape the future.



These seven **Great Grey Elephants** are highly probable, high-impact, yet often ignored forces of change—driving the transformative shift unfolding today.

Ageing: An unprecedented global demographic shift is reshaping workforces, healthcare, and economic power.

Angry Planet: Wildfires, floods, droughts, and biodiversity loss are shaking the foundations of human security and economic stability.

The Rising Rage: Inequality, distrust, and economic pressure are fuelling anger, extremism, and social polarisation.

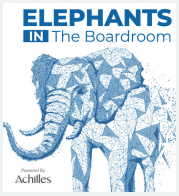
Societal Fractures: Norms, values and post-war institutions are straining under 21st-century pressures—old systems may collapse or be radically reimagined.

Multipolarity: Global power is fragmenting as new blocs emerge, reshaping trade, influence, and the future of globalisation.

The Big Squeezes: The era of low-cost abundance is ending, giving way to mounting pressure on global supply chains, inflation and critical resources

Intelligent Advances: AI, biotech, and exponential tech are redefining humanity—either unlocking progress or deepening inequality.

Listen to the podcast **Elephants in the Boardroom** for bold conversations, future-focused insights, and the strategies leaders need to thrive in transformative times.



STAY AHEAD OF THE CURVE

By Learning to Dance with the Elephants. TTC offers:

01 Strategic & Real-Time Insights

Stay ahead with real-time signals and deep strategic awareness:

- Strategic Alert Bulletins – Timely trend updates
- Radar Reports – Quarterly Grey Elephant scans
- Real-Time Alerts – Immediate disruption signals
- Sector Intelligence – Industry-specific insights
- Executive Briefings – Curated foresight

02 Future & Scenario Planning

Seize Kairos opportunities, explore critical futures, and design bold strategic responses:

- Leadership Sprints – Fast-track strategic alignment
- Scenario Planning – What-if pathways and strategies
- Deep Dive Analysis – Custom exploration
- Strategy Reviews – Annual strategic health checks

03 Strategy Activation

Translate insight into action and alignment:

- Quarterly Strategic Sprints – Focused execution
- Scenario-to-Strategy Playbooks – What-if thinking
- Exec Workshops – Embed foresight into strategy
- Activation Frameworks – Tools to drive action

04 Inspiration & Engagement

Ignite momentum with bold, future-focused sessions

- Keynotes & Workshops – Inform and energise teams
- Founder-Led Strategy Sessions – Exclusive facilitation

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