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TOPICS:

ITC risk

SOURCE

European Central Bank

ECB: Cyber Resilience Stress Testing from a Macroprudential Perspective

- This ECB document, published in the Macroprudential Bulletin (March 2025), examines the growing systemic risk posed by cyber threats to financial stability.
- Contagion Mechanisms in Cyber Testing **Operational** Contagion: incidents Cyber affectina financial market infrastructures, third-party providers, or payment systems can create widespread disruptions. Examples include the 2023 ransomware attack ION, which on halted financial trading services; Financial Cyberattacks Contagion: erode liquidity, trigger counterparty credit risks, and disrupt market stability. The 2023 attack on the Industrial and Commercial Bank of China (ICBC) impacted the U.S. Treasury market, highlighting the interconnectedness of institutions; Confidence Contagion: Cyber-induced loss of trust financial institutions can triaaer "cyber runs," fire sales, and market volatility.
- Approaches to Cyber Resilience Stress Testing - Bottom-Up Approach: Individual institutions assess their resilience to cyberattacks, simulating response and recovery strategies.

- The ECB's 2024 stress test on 109 banks followed this model, focusing operational recovery rather than capital adequacy; Top-Down Approach: Supervisory authorities model systemic cyber risk, assessing second-round effects, financial interlinkages, and behavioral This method responses. helps quantify broader financial stability implications.
- Principles for Effective Cyber Stress
 Testing Clearly define objectives
 and institutional scope; Incorporate
 all contagion channels and focus
 on tail risks; Consider behavioral
 responses, such as market panic
 and liquidity hoarding; Integrate
 bottom-up and top-down
 methodologies to provide a
 comprehensive view of systemic
 resilience.
- Policy and Regulatory Implications

 The European Systemic Risk Board (ESRB) emphasizes the need to integrate cyber resilience into macroprudential frameworks. The Digital Operational Resilience Act (DORA), effective January 2025, mandates resilience testing for financial institutions and critical third-party service providers.

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