GLOBAL CYBERSECURITY OUTLOOK 2025 - REPORTS

NEWS: The World Economic Forum (WEF) recently released **Global Cybersecurity Outlook 2025.**

WHAT'S IN THE NEWS?

About Global Cybersecurity Outlook 2025

- It is produced in collaboration with Accenture and it examines the cybersecurity trends that will affect economies and societies in the year to come.
- It explores major findings and puts a spotlight on the complexity of the cybersecurity landscape, which is intensified by geopolitical tensions, emerging technologies, supply chain interdependencies and cybercrime sophistication.

Key issues Highlighted

- **Geopolitical Conflicts:** Ongoing conflicts, such as the war in Ukraine, have increased cyber vulnerabilities in critical sectors like energy, telecommunications, and nuclear power.
- Cybersecurity Readiness: Two-thirds of organizations anticipate AI impacting cybersecurity, but only one-third have requisite tools to assess AI-related risks, with smaller organizations facing significant challenges.
- Cyber Skills Gap: As of 2024, there is a shortage of 4.8 million cybersecurity professionals.
 - Only 14% of organizations have a skilled workforce to address current cybersecurity challenges. Public-sector organizations are particularly impacted.
- Supply Chain Interdependencies: Over 50% of large organizations identify supply chain complexity as a barrier to cyber resilience.
 - Concerns include vulnerabilities in third-party software, cyberattacks, and challenges
 in enforcing security standards.
- Cybercrime Sophistication: Cybercriminals are leveraging generative AI tools for more personalized and automated attacks, including phishing and social engineering.
 - In 2024, 42% of organizations experienced phishing and deepfake attacks.
- **Regulatory Challenges:** 70% of organizations find cybersecurity regulations too complex, causing compliance issues.

Impacts

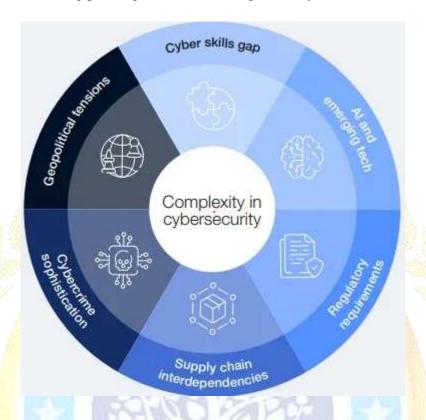
- **Critical Infrastructure:** Cyberattacks on water utilities, satellites, and power grids can disrupt essential services and public safety.
 - An example of this is the October 2024 attack on a U.S. water utility.
- **Biosecurity Risks:** Advancements in AI, cyberattacks, and genetic engineering pose threats to laboratories and public safety.
 - Incidents in South Africa and the UK highlight the risks.
- **Economic Disparity:** A divide in cyber resilience exists, with developed regions (e.g., Europe and North America) better prepared than emerging economies (e.g., Africa and Latin America).



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• **Transition Issues to RE:** The shift to renewable energy systems introduces new vulnerabilities, making power grids attractive targets for cybercriminals.



What is the Global Cybersecurity Index (GCI)?

- About:
 - GCI, launched in 2015 by ITU measures the comprehensive development and commitment to cybersecurity at a global level.
 - The GCI utilises a multi-stakeholder approach and leverages the capacity and expertise of different organisations.
- Aim:
 - It aims to **improve the quality of the survey, foster** international cooperation, promote knowledge exchange and **raise awareness** of the importance and different dimensions of **cybersecurity.**
- Pillars of Assessment:
 - The assessment is based on 5 pillars: Legal Measures, Technical Measures,
 Organisational Measures, Capacity Development, and Cooperation.
 - The index aggregates the assessment into an **overall score** for each country.
- 5- Tier Analysis: Countries are categorised into five tiers based on their cybersecurity efforts, with Tier 1 representing the highest level.
 - Tier 1- Role-modelling (score of 95–100)
 - Tier 2- Advancing (score of 85–95)
 - Tier 3- Establishing (score of 55–85)

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- Tier 4- Evolving (score of 20–55)
- Tier 5- Building (score of 0–20).

What is ITU?

- It is the United Nations (UN) specialised agency for Information and Communication Technologies (ICT)s.
- It was founded in 1865 to facilitate international connectivity in communications networks.
- It is headquartered in Geneva, Switzerland.
- It allocates **global radio spectrum and satellite orbits**, develops the **technical standards** that ensure networks and technologies seamlessly interconnect, and strives to improve access to ICTs to underserved communities worldwide.
- ITU currently has a membership of **193 countries** and over 900 private-sector entities and academic institutions.
 - India has been a member of ITU since 1869 and has been a member of the ITU Governing Council since its inception in 1952.

Suggestions and Way Forward

- **Strategic Investment:** Cybersecurity should be treated as a strategic investment rather than a technical issue, with leadership focusing on technical and economic dimensions.
- Collaboration: Stronger collaboration between business and cybersecurity leaders is essential to manage growing threats and risks.
- Simplify Regulations: Streamline and harmonize global cybersecurity regulations to enhance compliance and resilience.
- Skills Development: Address the global cyber skills gap through targeted training and upskilling programs.
- Focus on Emerging Technologies: Organizations must develop tools to assess and mitigate risks associated with AI adoption.

