



CORPORATE INDIA RISK INDEX

2023

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FROST & SULLIVAN

SECTOR REPORT 2023

EDUCATION & SKILL DEVELOPMENT

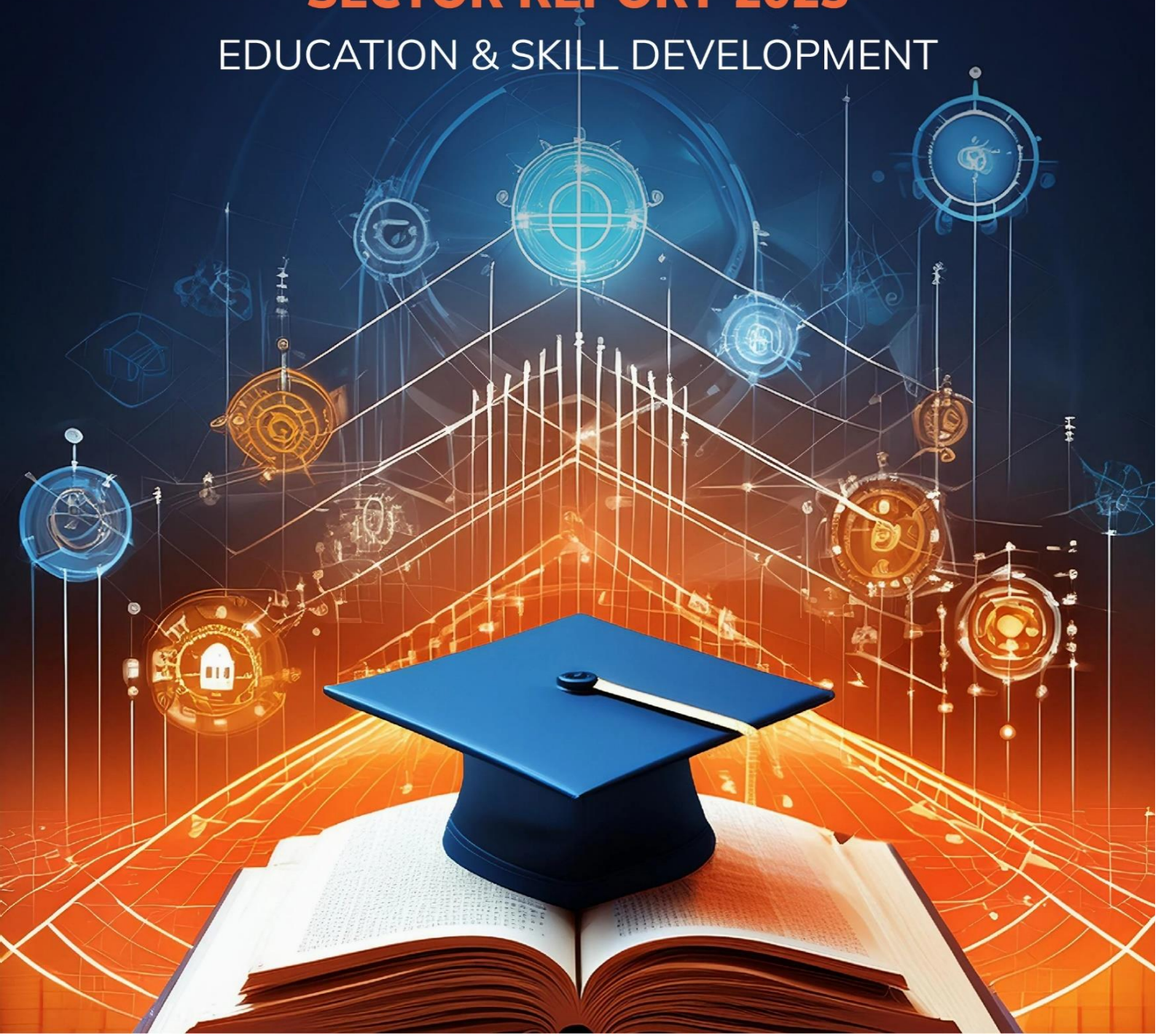


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Preface

Corporate India Risk Index is primarily an academic exercise to understand the level of risk that companies are facing and also assist in developing a successful risk aversion plan, CIRI is a first-of-its-kind risk measurement tool to gauge the level of a company's risk exposure and preparedness.

This Corporate risk comprises of various aspects of the business—spanning customer, competition, regulatory environment, business operations, technology finances, environmental factors etc. The impact of unprecedented events is significantly higher now.

This Index is a comprehensive framework that draws upon global risk management best practices and comprises of 32 risk elements across 6 broad dimensions. The Risk Index is based on the principles of Lean and Six Sigma that qualify business processes by measuring effectiveness and efficiency.

ICICI Lombard's Corporate India Risk Index provides a crucial tool for assessing and addressing risks, fostering resilience and adaptability in the ever-evolving global landscape. In the current climate of increasing macroeconomic uncertainties, it is essential for corporates to prioritize robust risk management. We believe that a proactive approach to risk management not only fortifies individual businesses but also contributes significantly to India's overall economic growth and stability.

Executive Summary

The Education sector in India faces various risks across different dimensions. Inflation, averaging around 10%, challenges affordability, especially concerning rising tuition fees and other expenses. Regulatory hurdles, including overlapping regulations and high capital requirements, impede institutional setup and operations, necessitating streamlined processes.

Technology-related risks such as data compromise, innovation challenges, and disruptive technology threats demand robust cybersecurity measures and proactive adaptation strategies. Operational and physical risks encompass critical infrastructure management and business continuity, highlighting the need for resilient infrastructure and effective disaster management plans. Crime and security risks, including counterfeiting and cybercrimes, require strengthened security protocols and collaboration with law enforcement. Natural hazard and event risks, such as natural disasters and pandemics, underscore the importance of preparedness and resilient infrastructure.

Despite these challenges, opportunities exist for growth and development through technology integration, public-private partnerships, and holistic education approaches. By addressing risks and seizing opportunities, India can realize its vision of becoming a global knowledge powerhouse.

Corporate Risk

Risk To Assets

Bankruptcy Of Suppliers Or Clients

Bad Debt

Legal Action

Business Strategy

Client Attrition

Brand Fatigue

Cashflow

Profit

Customer Satisfaction

Increase Or Decrease

Compliance With Regulations

Recession

Patent Theft

Health And Safety

Failure Of Utilities

Rise In Interest Rates

Cyberattacks

Natural Disasters

Environmental

Lack Of Skills

Difficult To Sell Product

Espionage

Cost Of Production

Commercial

Copyright Theft

Market Changes

New Markets

Time To Market

Contractual

Bad Debt

Profit

The impact is identified across key business risk (internal and external) under the following ‘Strategic Risk Areas’, The ICICI Lombard Corporate India Risk Index Framework comprises of 32 risk elements across 6 broad dimensions.

Market and Economic Risk

- **Inflation:** Inflation is the general increase in prices within the economy. The rising prices for businesses could result in bigger production spending and a fall in profitability. The companies should be attentive, acute, and responsive to changes in inflation to efficiently manage the prices of final products.
- **Taxation:** In a large democracy like India, complexity of multiple taxes (multiple taxes like GST, custom duties, central excise duty, etc.) is a major concern. The changing legislations, increased scrutiny by tax authorities and increasing public attention are together resulting in tax risks for organizations. There is, thus an increasing urgency for firms to manage their tax affairs efficiently to minimize tax risks.

- **Regulatory Risks:** Regulatory risk is the risk of changes in regulations and laws that might affect an industry or businesses. The regulatory changes can pertain to tariffs and trade policies, business laws pertaining to employment, minimum wage laws, financial regulation, Foreign Direct Investment etc.
- **Foreign Exchange Risk:** The exchange rate plays an important role for firms who export goods and import raw materials. The fluctuations in foreign exchange will have great impacts on the prices of traded goods. For example, if the currency depreciates (devaluation), the exporting firms will benefit. However, the firms importing raw materials will face higher costs on imports. The firms need to hedge their exposure to foreign exchange risks to insulate themselves from the impact from forex changes.
- **Geo-political Tension:** Geopolitical risk means the political and economic risks that are a potential threat to the financial and operational stability of companies.
- **Competitive risk:** Competitive risk is the risk associated with the fact that there are multiple companies competing in the market, each seeking to obtain the highest position and consumer ratings, to gain maximum benefits for themselves. The companies devise different strategies to garner a higher market share and acquire customers from competitors. Any failure in managing the competitive stand could lead to losses in business, thereby making marketing and competition a major risk in market.



Technology Risk

Technology risks are also identified as information technology related risks which may arise due to failure of any installed hardware or software system, spam, viruses or any malicious attack. Also delay/over/under adoption of trending disruptive technologies can lead to technology related risks. We have classified the risks in below mentioned categories.

- **Innovation Risk / Obsolete Technology:** Innovation is the key to success in all the industries. Risk of redundancy and losing out to competition on account of poor R&D is a major concern.
- **Intellectual Property risk:** Dependence on trade secrets and unpatented proprietary know-how.
- **Disruptive Technologies:** These will fundamentally alter the financial prospects of the industry.
- **Data Compromise:** Hardware failure refers to malfunctions within the electronic circuits or electromechanical components (disks, tapes) of a computer system; Software failure refers to an operating system crash. Such failures lead to stoppage of entire computer or operating systems creating substantial losses to business.



Operational and Physical Risk

Risk of losses caused due to faulty or failed processes, systems or human resource related inefficiencies are classified as operational and physical risks. We have classified Operational & Physical risks in below mentioned categories.

- **Critical Infrastructure Failure / Machine Breakdown:** Industries with a heavy dependence on machinery consider any rise in machinery breakdowns a hindrance to their businesses operations. An untimely equipment breakdown can bring businesses to a standstill or be the root cause for fires and explosions. Mostly, human errors and deferred maintenances are the major reasons for such breakdowns. The companies should actively invest in timely maintenance of all machineries.
- **Business Continuity / Sustainability:** Non adoption of Business Continuity/ Sustainability Plans and Lack of Internal Control tools would result in: Failure of businesses, Brand Equity / Loss of reputation, Financial Loss, Business model Failure, Ineffective engagement/communication with stakeholders, Losses in productivity, Lack of opportunity monitoring.
- **Supply chain risk:** Raw Material unavailability and Heavy Dependence on Global Supply Chains / Supplier concentration risk. Unavailability of raw materials owing to disruption in the supply chain or heavy dependency on one source (company/country) which is unable to supply owing to some geo- political tensions, fires, or any other incidents. Transportation is one of the key activities for companies making it an important risk to mitigate. The loss of goods in transit and spillage is one of the major concerns as it accounts for a sizeable loss of revenue to companies.
- **Commodity Price Risk - Volatility in prices of raw materials:** The fluctuations in raw material prices creating a margin pressure / top-line pressure in the scenario of rising input costs.
- **Portfolio Risk:** Loss of key customers, Customer concentration - Key customers accounting for a larger share of revenue, Over-dependence on suppliers, Business Model Risk: Transformative changes in business model, Tail Risks: Ability to overcome or manage extreme worst-case scenarios.
- **Environmental Hazard Risk:** Any environmental hazard having the potential to affect the surrounding environment.
- **Workplace Accident:** Fire and Explosion Hazards, Containment Incidents, Workplace Injuries
- **Human Resource:** Key person risk: This risk occurs when a business or business unit becomes heavily reliant on a key individual. Talent acquisition and retention - The companies require a highly skilled labor force for R&D as well as continuous production. Accessing skilled resources and expertise on an on-going basis is one of the major challenges; moreover, retention of trained staff is imperative. Labor shortages, Union Strikes & Industrial Actions, Employee health, safety, and security (SHE/Sustainability risk).
- **Financial Risk:** Financial Reporting Risk: Material misstatement of Financial Statements, whether due to fraud or error. Interest rates and equity prices: Interest rate risk arising out of working capital borrowings at variable rates. Equity price fluctuations affect the Company's income or the value of its holdings of financial instruments. Liquidity Risk (Credit Risk / Receivables).
- **Breaches of law (local/ international):** Voluntary/ involuntary breaches of law can lead to costly lawsuits.



Crime & Security Risk

Cybersecurity risks relate to the loss of confidentiality, integrity, or availability of information, data, or information (or control) systems and reflect the potential adverse impacts to organizational operations. These attacks can cause major financial losses, reputational harm, and a loss of client trust. Regarding cybersecurity, the BFSI industry in India has several difficulties, including difficult-to-secure legacy systems, a shortage of qualified cybersecurity personnel, and the requirement for ongoing system and network monitoring. There is a significant investment in cybersecurity tools like network monitoring, endpoint security, access control, and threat intelligence. Many organizations are also implementing cutting-edge technology like artificial intelligence and machine learning to strengthen their security posture.

We have classified Crime & Security risks in below mentioned categories.

- **Cyber Crimes:** Data Theft, Spam, scams and phishing, Hacking, Malwares and Viruses, Piracy, Fraud, Corruption, Malicious attacks
- **Counterfeiting:** Counterfeiting of goods/services leads to loss of revenues, profits and ultimately affects the brand equity
- Threat to Women Security
- **Terrorism:** Un-lawful use of violence and intimidation, especially against civilians, in the pursuit of political aims.



Natural Hazard Risk

A natural hazard is the threat of an event that will likely have a negative impact. A natural disaster is the negative impact following an actual occurrence of natural hazard if it significantly harms a community. Due to India's geographical structure, it is one of the most disaster-prone countries in the world. Natural hazards like floods, earthquakes, landslides, and cyclones are common risks faced by India. The situation has worsened due to rise in GHG emissions, loss of biodiversity, deforestation, and degradation of environment. Such natural disasters hamper the day-to-day operations of corporates, and it is important for them to understand that such risks cannot go unheeded. Over the years, Indian corporates have learnt to mitigate such risks by diversifying their supply chains, having multiple logistics partners, diversified geographical presence and multiple vendors.

- **Pandemic and other global epidemic diseases:** Risk to business owing to disruptions caused by COVID-19 pandemic and similar another global epidemic.



Strategic Risk

Strategic risk is the risk that failed business decisions may pose to a company. Strategic risk is often a major factor in determining a company's worth, particularly observable if the company experiences a sharp decline in a short period of time. Several factors, such as unethical or unlawful activities, poor customer service, product recalls, data breaches, or unfavorable media coverage, can lead to strategic risk. An organization's reputation can be severely harmed by a single negative incident, such as a high-profile data breach or fraud scandal, resulting in a loss of clients, income, and market share.

- **Resource scarcity / Misutilization / Overall Utilization:** Difficulties in acquisition of land, water, fuel, or other resources for operations of business.
- **Public Sentiment:** Current events playing out in the public scene can change the public sentiment.
- **Delay in execution of projects:** Delays in execution of projects can surge in the capex.
- **Increased number of recalls and quality audits:** Impacts both the brand equity and increased operational expenses.
- **Failed / Hostile Mergers & Acquisitions:** High dependence on inorganic growth.

Bottom-up Risk Assessment Approach

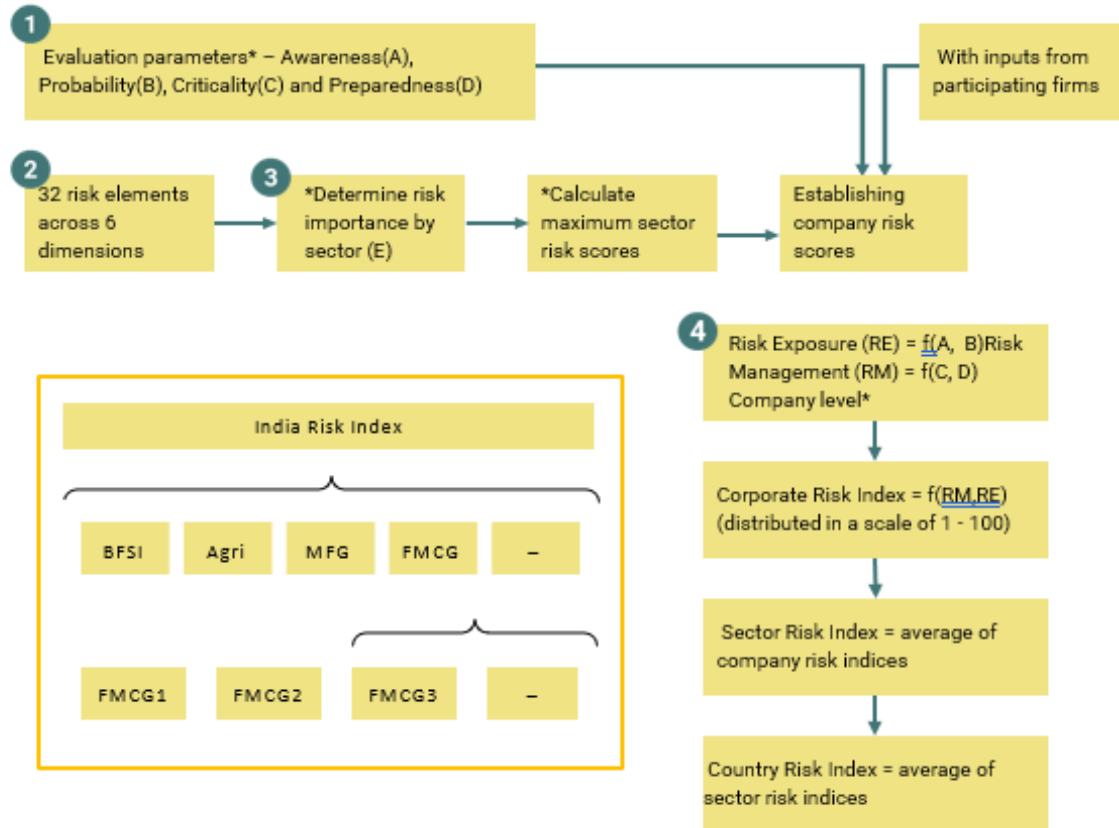


Figure 1: Risk Assessment Approach

- 1. Evaluation Parameters*:** The index maps the risks faced by any enterprise basis of Awareness, Probability, Criticality and Preparedness against the defined Risk elements. The evaluation Parameters are defined as:
 - Awareness - Level of awareness of potential risk affecting the firm.
 - Probability - Likelihood of risk to affect the business goals of the firm adversely.
 - Criticality - Level of impact of the identified risk on the success of business goals.
 - Preparedness - Risk handling practices/ mechanisms already in place to handle the risk.
- 2. Determining Risk Importance*:** Importance/Impact of individual risk element is established against individual sector based on the published corporate risk reports, in depth sector understanding by F&S team and SMEs.

3. **Calculating Maximum Sector Risk Score:** Weighted Sum of all risk elements based on their importance to the respective sector.
4. **Company Level*:** All the Risk Index scores for companies in a sector are averaged to represent the sector; and sectors average to India. Risk Exposure is defined as the function of corporate's Risk Awareness and Probability of risk occurrence. Risk Management is defined as the function of an enterprise risk preparedness and criticality risk impact assessment.

Defining the Risk Scale

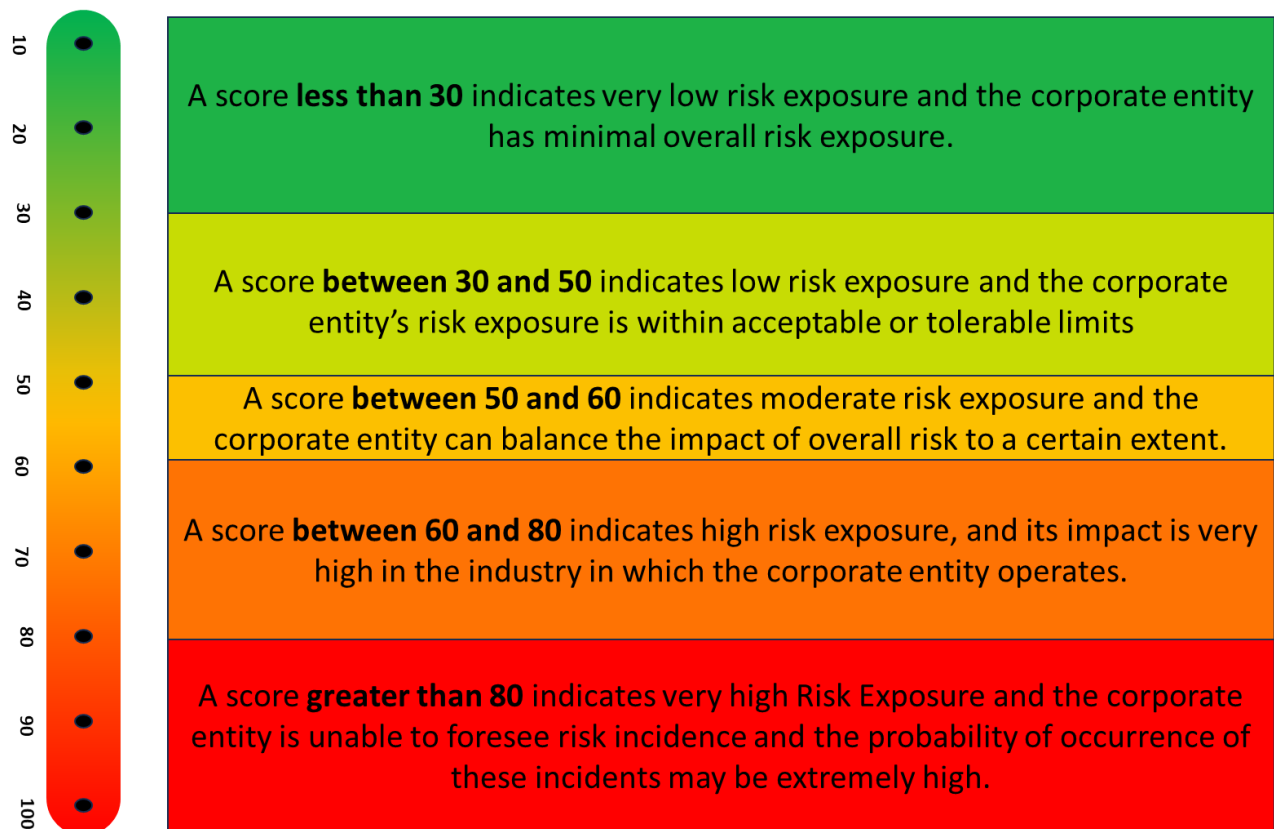
We have selected 20 sectors to understand the current stand of our country today in terms of risk. Risk for various sectors is measured on the risk exposure scale and risk management scale.

A. ICICI Lombard Corporate Risk Exposure – Scale

Risk Exposure: The impact of any internal, external or strategic occurrence on the financial performance of an organization is defined as the corporate risk exposure.

Risk has traditionally been seen as something to be avoided – with the belief that if behavior is risky, it's not something a business should pursue. But the very nature of business is to take risks to attain growth. Risk can be a creator of value and can play a unique role in driving business performance.

Let's look at the risk exposure scale.

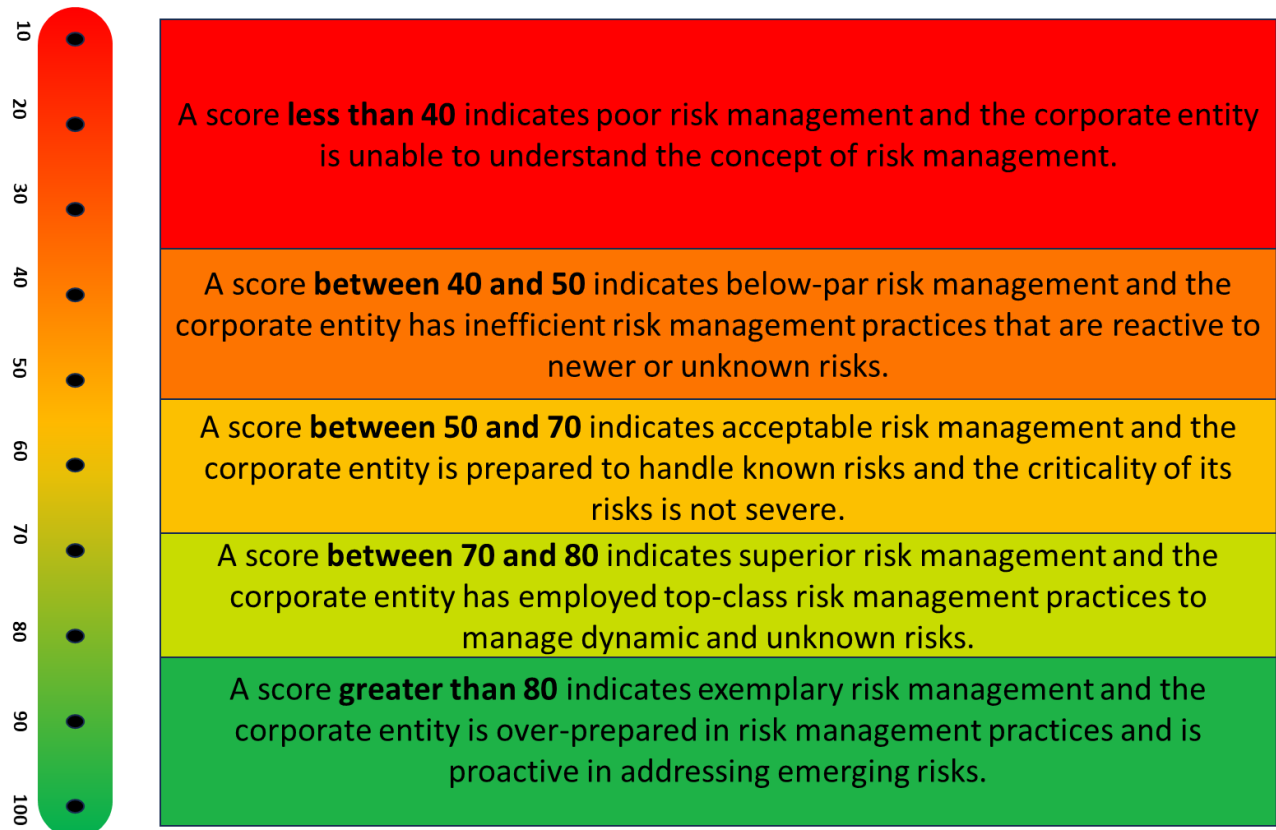


B. ICICI Lombard Corporate Risk Management – Scale

Risk Management: Identification, Evaluation and Prioritization of corporate risks followed by well-coordinated steps to minimize the occurrence of uncertainties in the foreseeable future is defined as the Corporate Risk Management.

The risk management scale works in the opposite to that of the risk exposure scale.

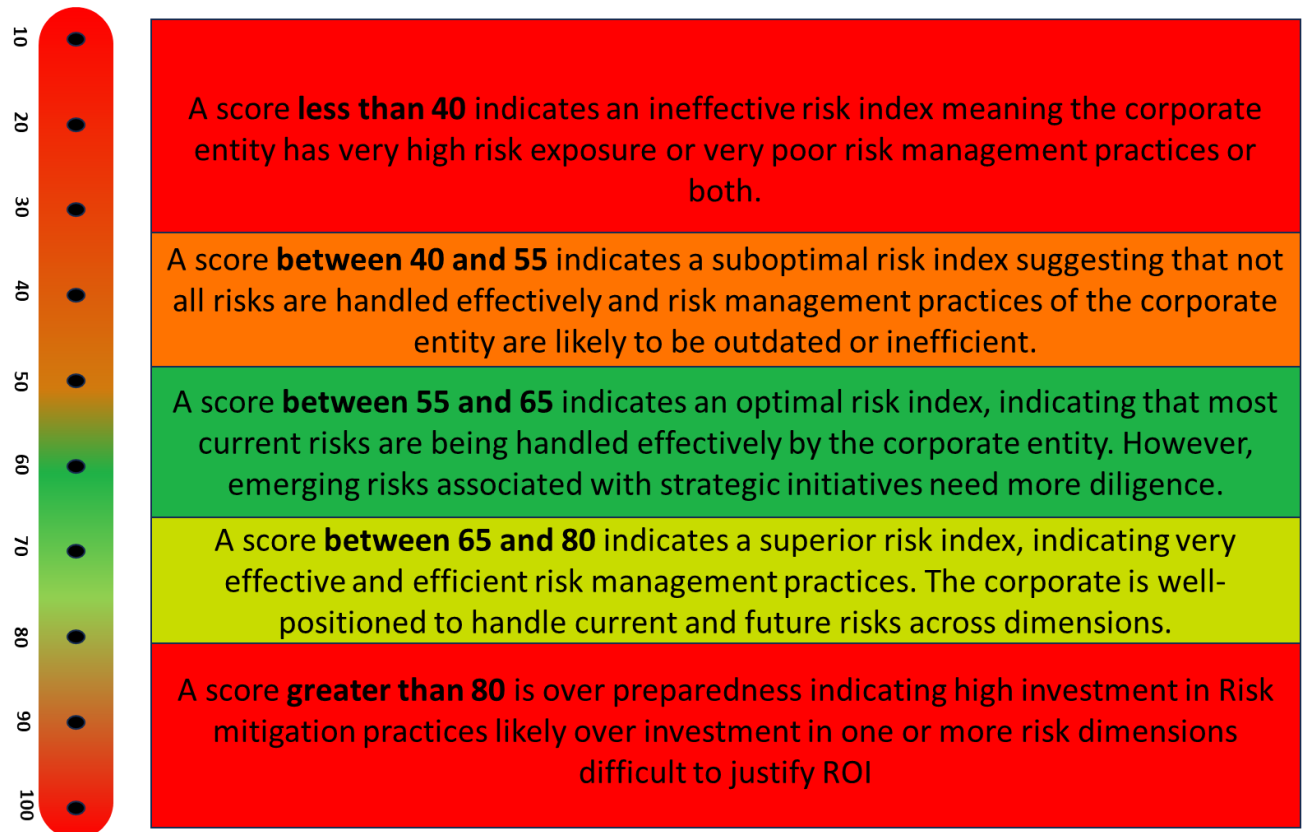
Let's look at the risk management scale.



c. ICICI Lombard Corporate Risk Index – Scale

Risk Index: Risk Index is a measurement tool to gauge the level of Risk Exposure against Risk Preparedness. The score intends to give companies/Sector/Country access to an extensive and quantifiable metrics of risk management.

Let's look at the risk Index scale.



India - Emerging Superpower with Optimized Corporate Risk Handling

In 2023, India witnessed a number of developments in various sectors, reflecting changes in consumer preferences, technological advances and regulatory trends. These developments shaped the industry and affected strategic decisions among industry players.

Electric vehicles (EVs) gained traction across sectors, driving investments in infrastructure and incentivized by government policies promoting electric mobility. The Automotive industry witnessed a surge in demand for EVs, while Logistics & Transportation embraced electric fleets to reduce carbon emissions and operational costs. Digital transformation accelerated across sectors, fueled by the COVID-19 pandemic. Telemedicine, online banking, and remote work solutions proliferated in Healthcare, BFSI, and IT/ITES sectors, enhancing operational efficiency and customer experiences.

In 2023, sustainability took center stage as sectors across India embraced eco-friendly practices. The Energy sector witnessed a shift towards renewable energy sources, with significant investments in solar and wind power. Industries like Manufacturing and FMCG prioritized energy efficiency and waste reduction initiatives. Hospitality and Real Estate sectors focused on green building practices, while Agriculture adopted precision farming techniques to conserve resources.

AI integration surged in 2023, revolutionizing business operations across sectors. Manufacturing companies leveraged AI for predictive maintenance and quality control, enhancing efficiency and reducing costs. Healthcare adopted AI-powered diagnostics and personalized treatment plans, improving patient care. Financial institutions utilized AI for fraud detection and risk assessment, bolstering security and compliance.

Social media emerged as a powerful tool for brand building and customer engagement in 2023. FMCG and Retail sectors capitalized on social media platforms to launch targeted marketing campaigns and drive product sales. Hospitality and Tourism industries utilized social media influencers to enhance brand visibility and customer loyalty. By leveraging social media analytics and customer feedback, companies across sectors tailored their strategies to effectively connect with their target audience and build brand reputation.

The "Make in India" initiative drove significant changes in supply chain operations in 2023. Sectors like Automotive, Manufacturing, and Pharmaceuticals emphasized local sourcing to reduce dependency on imports. Companies diversified their supplier base and optimized logistics networks to mitigate supply chain risks. This strategic shift towards domestic production enhanced resilience and competitiveness across industries.

Diversity, Equity, and Inclusion (DE&I) initiatives gained momentum in 2023, fostering inclusive workplaces across sectors. Companies in BFSI and IT/ITES led the way with diversity training programs and gender-neutral policies. Healthcare organizations focused on addressing healthcare disparities among marginalized communities. Manufacturing and Retail sectors prioritized inclusive hiring practices to tap into diverse talent pools, driving innovation and employee engagement.

Leadership risks emerged as a critical concern in 2023, prompting sectors to reassess their leadership strategies. Companies in BFSI and Technology faced challenges in adapting to rapid technological advancements and changing market dynamics. Healthcare organizations navigated leadership transitions amidst the COVID-19 pandemic, emphasizing the need for agile and resilient leadership. Strategic investments in leadership development and succession planning became imperative to mitigate leadership risks effectively.

Disruptive technologies like artificial intelligence, blockchain, 5G, and IoT reshaped traditional business models, offering new avenues for innovation and growth in sectors such as Telecom & Communication, Biotech & Life Sciences, and New Age Industries.

The scenario of the Indian economy in 2023 had a myriad of risks and opportunities in various sectors. Cybersecurity emerged as a pervasive risk, affecting industries from banking and finance to healthcare and IT/ITES. With more than 400 million cyber threats detected in nearly 8.5 million locations by 2023, organizations prioritized strong cybersecurity measures. Advanced threat detection systems, encryption protocols and employee training programs were implemented locally to enhance cyber resilience and protect sensitive data.

Another common risk was supply chain disruption, exacerbated by factors such as geopolitical pressures, natural disasters, and semiconductor chip shortages. To mitigate these risks, companies diversified their supplier base, invested in inventory management systems, and adopted agile supply chain practices to enhance resilience and flexibility.

Regulatory uncertainty was rife in industries such as Pharma, Energy, Telecommunications, which required active engagement with regulators. Furthermore, environmental risks emphasized the importance of sustainability and green technologies, renewable energy and waste management practices to reduce environmental impact around us and compliance with legal standards.

Despite the challenges posed by common risks, several sectors emerged as resilient performers in 2023, whose efforts helped us understand the situation in 2023 better. Noteworthy efforts included the "National COVID-19 Vaccination Drive" in healthcare, "Electric Vehicle Adoption Mission" in automotive, and "Green Freight Movement" in logistics. Additionally, initiatives such as the "Make in India Defence" program in aerospace and "Skill India Mission 2.0" in education underscored the nation's commitment to innovation and development.

The Automotive industry in India showed resilience in the face of supply chain disruption and regulatory uncertainty. Focusing on sustainability and innovation, the sector saw an increase in electric vehicle (EV) adoption, with sales reaching Rs 4.22 lakh crore. The Aerospace & Defence sector focused on developing indigenous manufacturing capacity and technology to strengthen national defence by investing Rs 1.5 lakh crore.

In the Healthcare sector, India has invested heavily in digital health solutions and infrastructure to combat the lingering effects of the COVID-19 pandemic. With a total investment of more than Rs 50,000 crore, companies have expanded telemedicine and implemented AI-powered diagnostics to improve patient care.

The Manufacturing sector prioritized digitalization and process optimization to enhance productivity and competitiveness amidst supply chain disruptions and inflationary pressures. Companies invested Rs 1.2 lakh crore in automation technologies and smart manufacturing initiatives to streamline operations and reduce costs. The Logistics & Transportation companies invested Rs 800 crore in blockchain-based traceability systems and cyber security protocols to secure supply chains and protect sensitive data from cyberattacks.

The Hospitality industry adapted to customer preferences and regulatory requirements through new service offerings and customer engagement strategies. With an investment of Rs 0.5 lakh crore, companies also focused on using contactless technology to improve health and safety measures, ensuring that guests have satisfaction and compliance.

The Agricultural & Food Processing sector embraced technological initiatives to increase agricultural productivity and ensure food security in the face of climate change and supply disruptions. With an investment of Rs 1 lakh crore, companies focused on precision farming and farm-to-fork traceability solutions to improve crop yield and quality.

The BFSI sector focused on digital transformation and risk management to address cyber threats and regulatory challenges. Banks and financial institutions invested Rs 2,50,000 crore to implement advanced cyber security measures and fraud detection systems to protect customer data and prevent financial fraud.

The Biotech & Life Sciences sector showcased innovation and resilience amidst regulatory complexities and supply chain disruptions. The Chemicals & Petrochemicals sector navigated environmental regulations and market volatility through sustainable practices and operational excellence initiatives. Digital learning and job training were adopted to meet workforce challenges and enhance productivity in the face of technological disruption and demographic changes in the Education & Skill Development sector.

The Energy sector has shifted towards renewable energy and sustainable development policies to mitigate the risks of climate change and reduce dependence on fossil fuels. Moreover, with investments of Rs 1.5 lakh crore in smart grid technologies and demand-side management initiatives to optimize energy consumption and reduce emissions, the sector prioritized grid modernization and energy efficiency.

The IT ITES sector continued to drive digital transformation and innovation to address cybersecurity threats and meet evolving customer demands. With investments of Rs 4 lakh crore, companies focused on cloud computing and cybersecurity solutions to protect data and ensure business continuity.

The Metals & Mining sector focused on sustainable practices and community engagement to address environmental concerns and social risks associated with resource extraction. With investments of over

Rs 0.8 lakh crore, companies implemented reclamation and rehabilitation projects to restore mined areas and promote biodiversity conservation.

The New Age sector, comprising startups and technology companies, showcased innovation and resilience amidst market uncertainties and funding challenges. Additionally, the sector prioritized talent acquisition and retention, with investments of Rs 0.5 lakh crore in employee benefits and workplace diversity initiatives to attract top talent and foster a culture of innovation.

The Telecommunication sector continued to expand connectivity and digital infrastructure to meet growing demand for broadband services and IoT applications. With investments of over Rs 2 lakh crore, companies deployed 5G networks and fiber-optic cables to enhance network capacity and speed.

In summary, India's diverse sectors demonstrated resilience and innovation in navigating through a challenging operating environment in 2023. As India continues its journey towards economic prosperity, proactive risk management and innovation will remain critical drivers of success across diverse sectors.

India Showcasing an Optimized Risk Handling



Figure 2: Corporate India Risk Index 2023

A score of 64 on the Corporate Risk Index indicates optimal handling of risk by the Indian companies. However, to enter the superior risk handling territory, the Indian companies have scope to improve upon their risk management practices in the areas of crime & security risks and strategic risks. It was observed across sectors that there is an increased focus on cybersecurity and other technological risks.

In the sectorial analysis of risk exposure, it was found that companies were most affected by market & economy and operational & physical risks due to inflation, global volatility and geopolitical events like the Red Sea crisis, Israel Palestine conflict and Russia Ukraine War.

Another common risk was supply chain disruption, exacerbated by factors such as geopolitical pressures, natural disasters, and inflation. To mitigate these risks, companies diversified their supplier base, invested in inventory management systems, focused on localization and adopted agile supply chain practices to enhance resilience and flexibility.

It was observed that risk management is getting an increased focus in the growth strategy of every organization with companies having dedicated risk teams to manage their risk exposure. All the organizations fell either into 'Superior Risk Management' or 'Optimal Risk Management' category indicating good risk management practices.

Below is a broader categorization of sectors in terms of risk index:

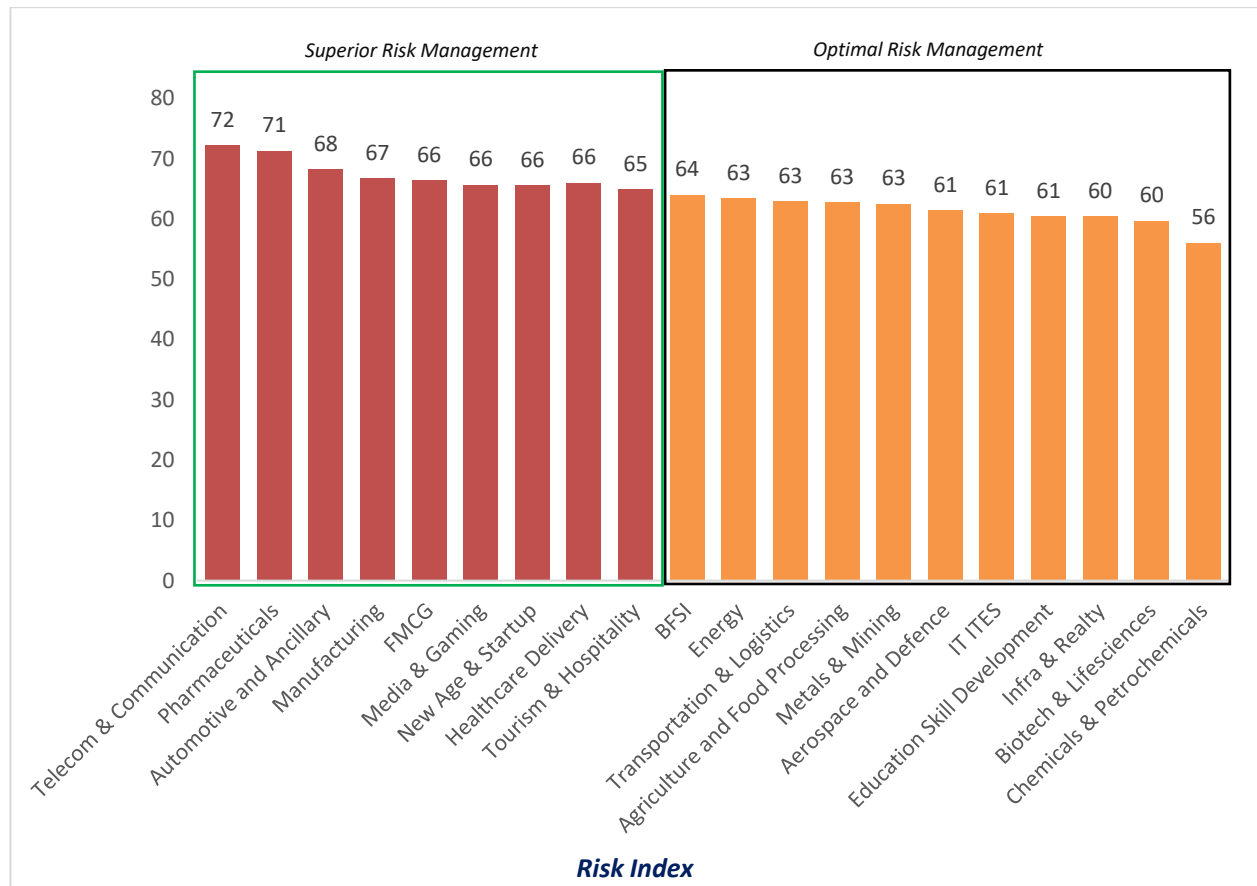


Figure 3: Corporate India Risk Index 2023 Sector Score

Superior Risk Index

Superior risk handling was found in nine industrial sectors: Telecom & Communication, Pharmaceuticals, Healthcare Delivery, Automotive & Ancillary, Manufacturing, FMCG, Media & Gaming, New Age & Startups and Tourism & Hospitality.

Optimal Risk Index

Optimal risk handling was found in 11 industrial sectors: BFSI, Energy, Transportation & Logistics, Agriculture & Food processing, Metals & Mining, Aerospace & Defence, IT ITES, Education & Skill Development, Infrastructure & Realty, Biotech & Lifesciences and Chemicals & Petrochemicals.

Education & Skill Development Insights 2023

The year 2023 was a pivotal moment for the education sector in India, characterized by dynamic developments, transformative trends, and proactive measures aimed at addressing longstanding challenges. Against the backdrop of the COVID-19 pandemic and rapid technological advancements, the Indian education landscape underwent significant changes, embracing innovation, digital transformation, and policy reforms to ensure equitable access to quality education for all.

One of the most notable developments in 2023 was the unprecedented increase in government funding allocated to the education sector. The Union Budget for 2023-24 earmarked the highest-ever amount of INR 1.12 lakh crore (\$13.66 Bn) for education, signaling a renewed commitment to prioritize education and address longstanding challenges such as underinvestment and infrastructure deficits. This substantial funding infusion laid the foundation for a range of initiatives aimed at modernizing and enhancing the quality of education across diverse segments.

Moreover, regulatory reforms aimed to streamline bureaucratic processes, reduce red tape, and promote ease of doing business in the education sector. These reforms created a conducive environment for innovation and growth, facilitating the establishment of new educational institutions, the introduction of innovative pedagogical approaches, and the adoption of emerging technologies in education delivery.

In a bid to propel India towards technological leadership, the government has announced plans to establish three artificial intelligence centers of excellence and introduce modern Industry 4.0 courses. These courses, covering coding, AI, IoT, mechatronics, drones, and soft skills, aim to prepare students for the future workforce. Moreover, the government has invited U.S. universities to collaborate with Indian counterparts in designing and delivering these courses, fostering innovation and knowledge exchange. This partnership holds the potential to bolster India's position as a global hub for technological innovation and economic growth.

In response to the challenges posed by the COVID-19 pandemic, the Indian education sector underwent a rapid digital transformation in 2023. Online education, blended learning, and vocational training emerged as prominent features of the educational landscape, enabling remote learning and ensuring continuity of education during periods of lockdown and social distancing. Initiatives like the National Digital Library and the widespread adoption of extended reality (XR)-based learning facilitated access to quality educational resources and bridged geographical and linguistic barriers to learning.

Furthermore, there was a notable emphasis on vocational training and skill development initiatives in 2023, aimed at equipping the workforce with relevant skills to meet evolving industry demands. Programs like Skill India International Centers and centers of excellence for artificial intelligence sought to bridge the gap between theoretical learning and industry-specific skills, fostering global competitiveness among Indian youth. Additionally, initiatives like Vigyan Jyoti and Vigyan Prasara

underscored the importance of STEM education in preparing students for future employment opportunities in emerging sectors.

However, despite these positive developments, the education sector in India faced several risks and challenges in 2023. Inflation, regulatory complexities, technological vulnerabilities, operational disruptions, and security threats posed significant risks to the sector's growth and sustainability. The inflation rate in the education sector, estimated at around 11-12% per annum, outpaced the overall consumer price inflation, exacerbating the financial burden on students and families. Regulatory challenges, including overlapping regulations, high capital requirements, and outdated requirements, added to the time and cost of entering and operating in the sector, hindering innovation and growth.

Moreover, technological vulnerabilities, including data compromise and cybercrimes, posed significant threats to student data security and institutional integrity. The rise in cybercrimes targeting educational institutions highlighted the urgent need for robust cybersecurity measures and data protection protocols to safeguard sensitive information. Operational disruptions, such as critical infrastructure failures and business continuity risks, also threatened the uninterrupted delivery of education services, necessitating investment in infrastructure management and disaster preparedness.

To mitigate these risks, proactive measures were implemented at various levels. Investment in critical infrastructure management, business continuity planning, and cybersecurity measures helped institutions mitigate operational risks and ensure uninterrupted delivery of education services. Additionally, regulatory reforms aimed at streamlining bureaucratic processes, reducing red tape, and promoting ease of doing business facilitated innovation and growth in the sector.

In conclusion, the year 2023 marked a transformative period for the education sector in India, characterized by increased government funding, policy reforms, and rapid technological advancements. While challenges persist, proactive measures and investments in infrastructure, technology, and human capital are poised to drive continued progress and excellence in education delivery. With a renewed focus on innovation, inclusivity, and quality, the Indian education sector is well-positioned to navigate the challenges of the future and foster a skilled, empowered workforce for generations to come.

Education & Skill Development Sector Risk Index 2023 Vs 2022

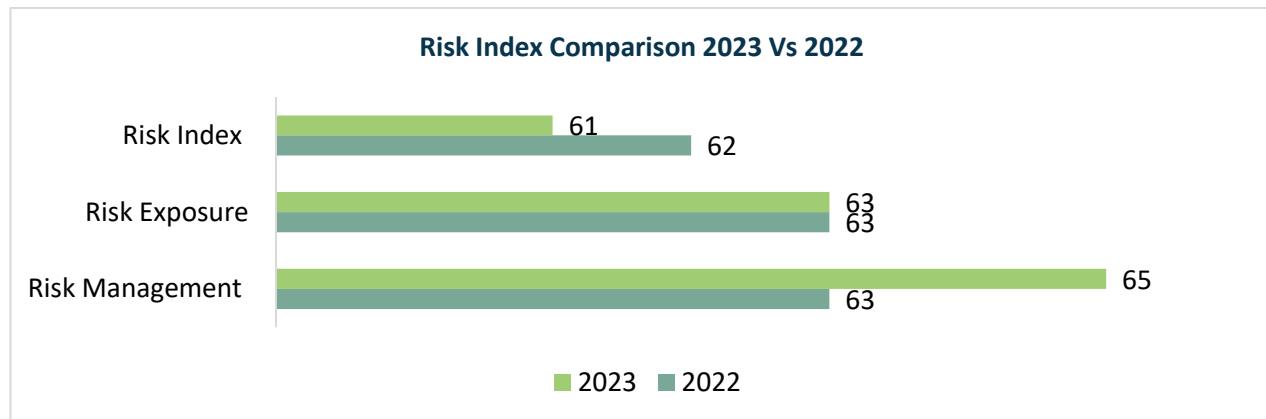


Figure 4: Detailed Comparative Analysis 2023 Vs. 2022

Education & Skill Development Sector Risk Index 2023 Vs 2022

The education sector's risk index witnessed a negative trend in 2022-23, indicating a decline in its ability to manage innovation, process transformation, and contingency planning compared to the previous year. While phased implementation of policy frameworks helped buffer against political and economic fluctuations, the overall outlook suggests challenges in adapting to changing dynamics. Although the government's initiatives, such as establishing AI centers and introducing modern industry courses, aim to equip students for future job markets, the sector's shift towards practical and skill-based education is facing hurdles. Despite being considered a stable industry with lower market risks due to its necessity and long-term investment nature, the sector grapples with stringent regulations, including the new education policy. While companies have embraced online teaching methods, useful during crises like natural disasters and pandemics, compliance with heavy regulation remains a significant concern. Moreover, the sector faces risks associated with technological advancements, particularly concerning data breaches, prompting companies to implement stringent data protection measures to mitigate potential threats.

Education & Skill Development Sector Risk Exposure 2023 Vs 2022

The education and skill development sector in India has demonstrated a steady risk exposure, marked by notable advancements such as the integration of online teaching platforms. With the transition to digital formats, companies have adeptly navigated between online and offline modes, particularly in response to pandemics and natural disasters. This adaptability reflects a heightened awareness of market fluctuations, driven by increased opportunities and enhanced risk management strategies within the industry. The pandemic has served as a catalyst for greater market vigilance, prompting a proactive stance towards risk mitigation.

As a result, the sector exhibits promising growth potential, supported by its strengthened resilience and preparedness. Looking ahead, the education and skill development industry in India appears poised for sustained success in the foreseeable future.

Education & Skill Development Sector Risk Management 2023 Vs 2022

India's risk management landscape in the education and skill development sector saw a notable uptick, rising from 63 in 2021 to 65 in 2022. This increase coincides with the sector's steady integration of virtual reality technologies, aimed at enhancing the teaching-learning process and optimizing educational outcomes. Furthermore, the sector has demonstrated a remarkable adaptability, swiftly transitioning operations in response to natural disasters or pandemics, leveraging online platforms for uninterrupted education delivery. However, this increased reliance on technology has also elevated the potential risks associated with data exposure and breaches, prompting the sector to implement stringent measures to safeguard sensitive information. Moreover, there is a pressing need to regulate and standardize the use of artificial intelligence tools in education to ensure data security and uphold the privacy rights of individuals. In line with this, companies have proactively aligned themselves with regulatory changes such as the New Education Policy, continuously adapting their practices to comply with evolving standards and requirements.

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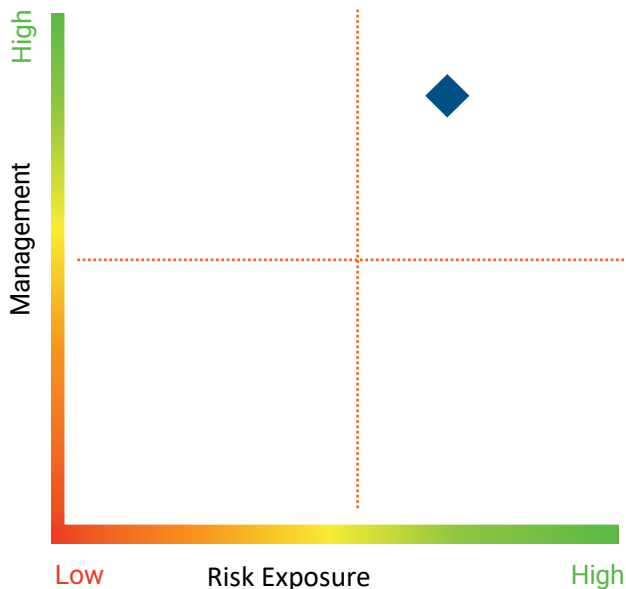
Key Highlights



Risk Dimension Analysis: Market and Economy

Risk Exposure Score: 68

Risk Management Score: 69



Inflation

- The education sector in India witnessed education inflation rates significantly higher than the consumer price inflation (CPI), with education inflation at 10%, compared to CPI around 5.4%. This rapid rise in education costs posed a challenge for families, as education expenses could potentially double every six to seven years.
- The surge in education inflation led to increasing tuition fees in educational institutions, making it difficult for middle-class families to afford higher education for their children.

- The rising cost of books, transportation, school uniforms, and other supplies further burdened parents, affecting their ability to finance their children's education adequately.
- Rising education costs deterred economically disadvantaged students from pursuing higher education, potentially leading to declining enrollment rates and widening educational gaps.

Regulatory Framework

- Educational institutions in India grappled with navigating through complex and overlapping regulations at different levels, which increased operational time and costs.
- High capital requirements, including land norms and endowment funds, created barriers for institutions seeking to establish or expand. Additionally, restrictions on funding sources limited financing options to non-profit entities only.
- The education sector was burdened by outdated and rigid requirements concerning faculty qualifications, library norms, and delivery channels. These added to operational costs and impeded innovation and adaptation to changing trends.
- Limited to just two agencies, accreditation processes in India often faced significant backlogs. Moreover, the process tended to focus more on inputs than outcomes, adding bureaucratic burdens to educational institutions.

Foreign Exchange Rates

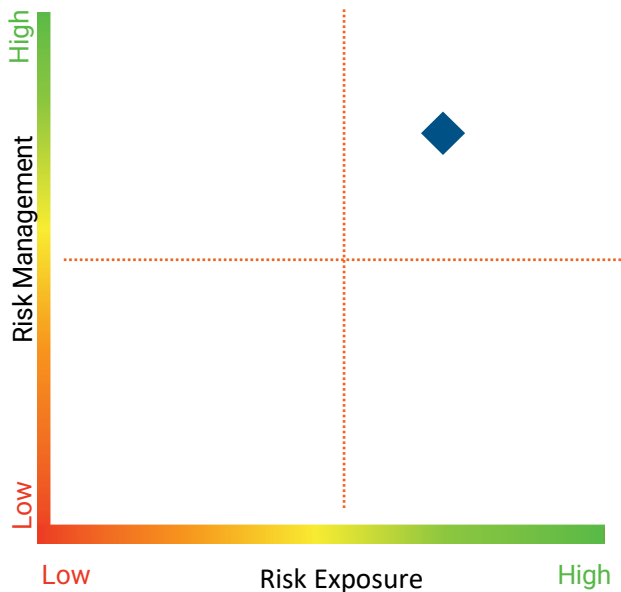
- Fluctuations in foreign exchange rates during 2023 significantly impacted the cost of pursuing education abroad. The depreciation of the Indian rupee against foreign currencies, including the US dollar, escalated the financial burden on students and their families.
- Additional fees for international students imposed by foreign universities exacerbated the financial strain on Indian students aspiring for education overseas in 2023. Rising tuition costs, coupled with these extra charges, made studying abroad increasingly unaffordable for many middle-class students.
- The depreciation of the rupee, along with increasing aviation fuel prices, led to a constant rise in flight ticket prices during 2023. This escalation in airfare added to the overall cost of international education, posing budgetary challenges for families planning their children's education abroad.



Risk Dimension Analysis: Technology

Risk Exposure Score: 59

Risk Management Score: 63



Data Compromise

- However, Data breaches in the education sector had severe consequences, including financial losses, identity theft, and disruptions to academic activities. Such incidents eroded trust in institutions and undermined their credibility, particularly as parents increasingly monitored their children's online activities for safety.
- To combat these risks, educational institutions prioritized enhanced cybersecurity measures. This included investing in advanced technologies, updating security protocols regularly, and establishing comprehensive data protection policies. These measures helped mitigate the risk of data breaches, ensuring the integrity and confidentiality of student and staff information amidst the surge in digitalization and online learning platforms.

Innovation Risk

- The rapid pace of technological advancements brought both opportunities and risks to educational institutions, introducing challenges in technology adoption and integration.
- Educational institutions needed to stay updated with emerging technologies to meet evolving needs, but faced inherent risks such as compatibility issues and resistance to change.
- Investment in research and development was crucial to foster innovation, yet institutions encountered challenges in allocating resources and evaluating new educational technologies effectively.

Disruptive Technology Risk:

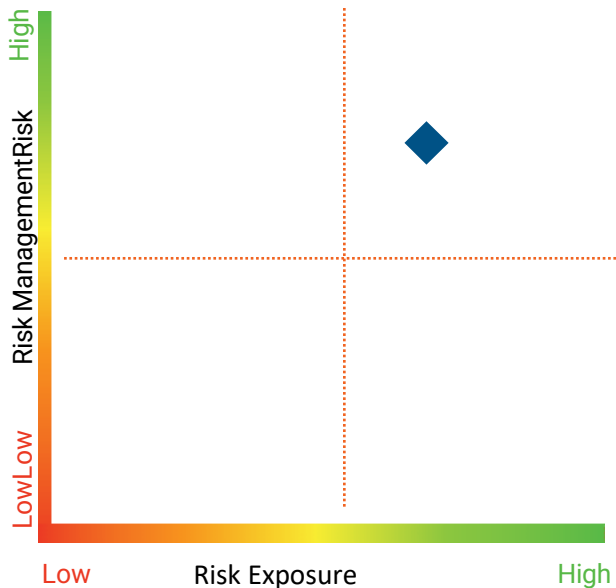
- Disruptive technologies like AI and blockchain had the potential to revolutionize education, but their adoption raised concerns about job displacement and privacy issues.
- Ethical considerations were paramount in adopting disruptive technologies, requiring institutions to establish policies for equitable access and responsible data use.
- Reskilling initiatives were crucial for educators and students to adapt to emerging technologies, necessitating training programs and professional development opportunities.



Risk Dimension Analysis: Operational and Physical

Risk Exposure Score: 70

Risk Management Score: 69



Critical Infrastructure Management

- Budget constraints hindered infrastructure maintenance in education, limiting investment and compromising facility quality, impacting student learning experiences due to inadequate funding
- Aging infrastructure and inadequate facilities affected student enrollment and satisfaction, hindering teaching effectiveness and institutional reputation amidst operational risks and facility deficiencies

- Long-term planning and strategic investments were essential to modernize facilities and comply with safety standards, aligning infrastructure development with educational objectives for holistic student development.
- Sustainable infrastructure investments, including green building initiatives and energy-efficient technologies, mitigated operational and environmental risks while promoting student well-being and academic excellence in 2023. For instance, AI-powered sensors monitored environmental factors for real-time adjustments, ensuring a conducive learning environment.

Business Continuity Risk

- There are challenges associated with the adoption of AI in infrastructure management. Educational institutions in 2023 faced various disruptions, including natural disasters and pandemics, highlighting the need for robust business continuity plans. The COVID-19 pandemic spurred adoption of remote learning strategies and digital platforms.
- Developing comprehensive business continuity plans was critical. Institutions conducted risk assessments, established contingency measures, and invested in technology solutions like cloud computing and remote learning platforms for seamless academic continuity.

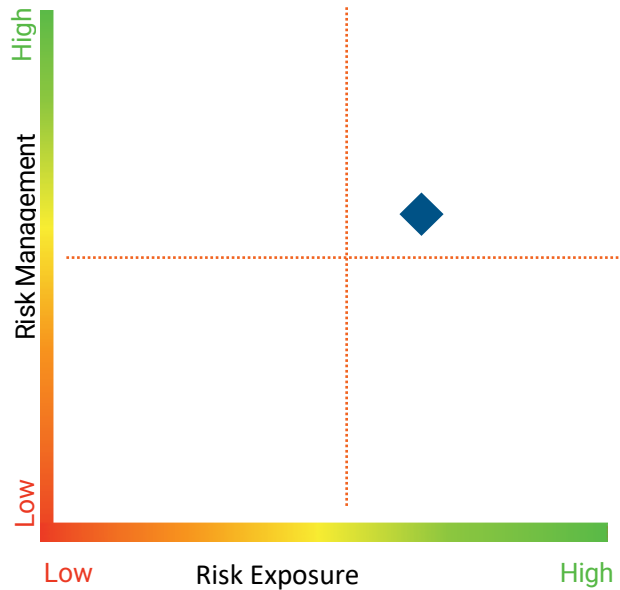
Others

- In 2023, educational institutions faced risks from supply chain disruptions, including shortages and delays. Strategies like supply chain management and diversification were employed to mitigate risks and ensure continuity.
- Health and safety concerns were paramount, particularly during the COVID-19 pandemic. Institutions implemented stringent protocols, enhanced sanitation measures, and promoted awareness to safeguard student and staff well-being.

Risk Dimension Analysis: Crime and Security

Risk Exposure Score: 53

Risk Management Score: 58



Counterfeiting

- In 2023, counterfeiting posed a significant threat to educational materials due to rising costs and limited regulatory oversight. The guide to education inflation highlighted increasing vulnerabilities, impacting academic integrity and student outcomes
- Regulatory enforcement mechanisms were strengthened to combat counterfeiting. Collaboration between regulatory agencies and law enforcement authorities led to investigations and prosecutions of counterfeiters, safeguarding students and institutions

- Awareness campaigns educated stakeholders about the risks of counterfeit materials. Institutions launched initiatives to inform students, parents, and educators about signs of counterfeit products, promoting ethical consumption practices.
- Partnerships with publishers and industry organizations were crucial for addressing counterfeiting challenges. Collaboration facilitated the sharing of intelligence and technological solutions, supported by initiatives like the Higher Education Financing Agency and Research Funding Schemes, enhancing resilience against illicit activities

Cyber Crimes

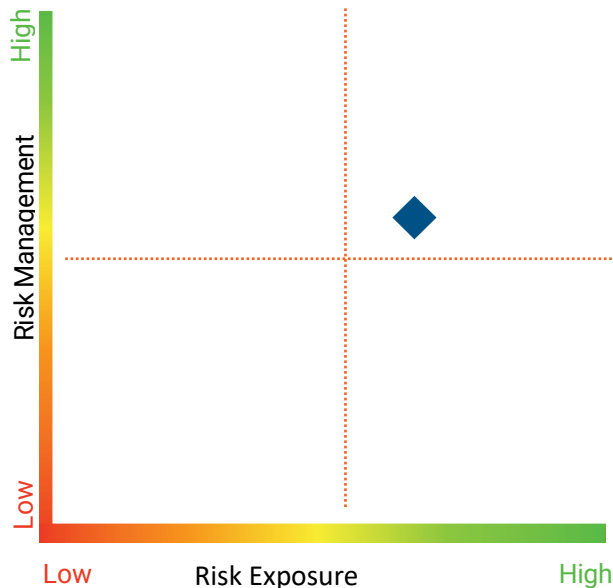
- In 2023, the education sector faced a surge in cyber threats, with over 7 lakh detected threats in April-June. Robust cybersecurity measures were urgently needed to mitigate risks.
- Data security was a major concern, with the increasing adoption of digital platforms. Strengthening encryption, implementing multi-factor authentication, and conducting security audits were crucial.
- Investment in cybersecurity infrastructure was prioritized, with initiatives like the National Education Policy 2020 and the Higher Education Financing Agency allocating resources. Collaboration with experts and employee training enhanced institutional resilience.
- Awareness and training programs were crucial for building a cyber-resilient culture. Digital India initiatives like DIKSHA and E-Pathshala offered resources for promoting safe online practices and cybersecurity awareness, integrating education into the curriculum.



Risk Dimension Analysis: Natural Hazard and Event

Risk Exposure Score: 63

Risk Management Score: 64



Natural Hazards:

- Natural disasters, like floods and earthquakes, posed risks to educational infrastructure and student safety in 2023. The Economic Times highlighted vulnerability, urging institutions to prioritize preparedness and resilience measures
- Aging infrastructure and insufficient funding exacerbated vulnerability to natural hazards. India's low investment in higher education hindered efforts to upgrade infrastructure. Retrofitting buildings and establishing evacuation plans were crucial for disaster resilience

- Government initiatives, including the National Education Policy 2020 and the Higher Education Financing Agency, aimed to enhance disaster resilience. These measures focused on increasing public investment, allowing foreign universities to operate, and providing financial assistance for infrastructure upgrades.

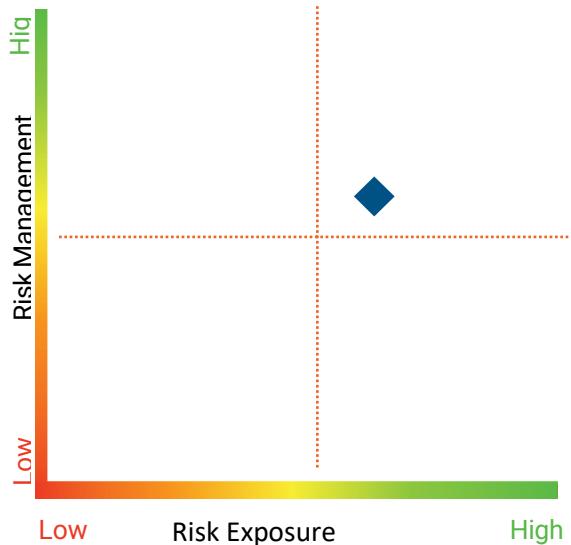
Pandemic and other global epidemic diseases:

- Pandemics, exemplified by the COVID-19 outbreak, disrupted education, reversing gains in enrollment rates. Adaptive responses included resilient strategies and digital transformations, highlighted by the Education Trends Report.
- The COVID-19 pandemic accelerated digital transformation in education, leading to widespread adoption of online platforms and hybrid learning models. Institutions prioritized health protocols and student well-being, integrating mental health services and stress management programs

Risk Dimension Analysis: Strategic Risk

Risk Exposure Score: 59

Risk Management Score: 60



Public Sentiment

- In Public sentiment on education inflation highlighted concerns over affordability and accessibility, influencing discourse on government policies. Rising tuition fees and regulatory challenges exacerbated financial burdens, necessitating reforms for enhanced affordability
- Challenges in affordability, including high tuition fees and regulatory constraints, amplified concerns among families. The inability of for-profit organizations to finance education further emphasized the need for regulatory reforms in 2023.

- Public perception of government initiatives, such as the National Education Policy 2020, was influenced by perceptions of effectiveness and transparency. While aimed at addressing systemic challenges, concerns over regulatory complexities and implementation gaps persisted.
- Public sentiment influenced stakeholder engagement efforts, with parental concerns driving demand for financial aid and advocacy groups mobilizing support for policy reforms. Alignment with stakeholder priorities and policy objectives was crucial for sustainable educational development in 2023.

Market Synergy

- Industry collaboration aimed to align academic programs with workforce needs, enhancing graduates' employability. Skill development initiatives bridged the gap between theoretical learning and practical skills through curriculum design and internships.
- The alignment of educational offerings with industry demands contributed to employment generation and economic growth. Initiatives like the Institutes of Eminence scheme supported market-oriented education, fostering innovation and entrepreneurship among students.
- Market synergy initiatives enhanced global competitiveness by facilitating collaboration with international partners and integrating digital technologies. Challenges such as faculty shortages & regulatory constraints necessitated proactive measures and policy reforms for effective collaboration.

ICICI LOMBARD: Key Solution Offerings



Property

Evaluation of various risks to understand areas for improvement, such as fire preparedness, electrical safety, safety & emergency preparedness, maintenance and house-keeping, etc. By evaluating risks, we can identify potential hazards and advise on mitigating risks.

- **Property Loss Prevention:** We believe users should carry out detail risk visit followed by benchmarking of the industry good practices (Industry Risk Profiling). For instance, industries such as chemicals & petrochemicals impose a major challenge in manufacturing due to inherent risk. We recommend solutions for “Low Focus - High Loss Areas. This can help in minimizing severity losses. All the risk recommendations are grouped into four different segments based on cost-impact matrix and the priority is decided accordingly. Key decision makers at user’s end can ensure to get recommendations implemented.
- **Comprehensive Risk Assessment (CRA):** A Comprehensive Risk Assessment is a systematic approach to electrical safety specially designed for industries to evaluate potential hazards and recommend improvements, coupled with savings. It is an important tool for identifying risks, severity of hazards and avoid incidents arising out of electrical faults.
- **Electrical Risk Assessment (ERA):** An Electrical Risk Assessment is a basic solutions focused towards electrical safety designed to evaluate potential hazards and recommend improvements. Majority of fires in India are caused due to electrical installations. Ensuring safety of electrical installations of industrial unit or organization is critical to reduce risk and ensure safety compliance with Safety Standards and Regulation. ERA is an important tool which have 6 inbuilt activities such as Electrical Audit & Thermography built in with other such solutions.
- **Fire Hydrant IoT:** Fire hydrant monitoring is an automated solution that monitors key parameters such as Hydrant and Sprinkler line pressure, Main and Jockey pump on-off status. These can be interpreted to provide intelligence on unauthorized usage of water and leakage. This information pertaining to breach of above mentioned parameters is notified through dashboard & email alerts. Monitoring of such system is essential as these fire fighting systems are lifeline during any emergency.
- **Temperature & Humidity IoT:** Provides end to end plug & play ambient temperature and humidity monitoring Solution to manage temperature and humidity-controlled environment more efficiently. It generates - Automated reports (historical trends for different locations etc.). Intelligent Alerts - SMS & emails is sent to the concerned (one or multiple) stakeholders in case any anomaly.
- **Electrical IoT:** Electrical IoT is a patented solution (ILGIC Patented Solution) to avoid any instances of short circuiting due to abnormal voltage & current conditions. These are mainly built for application

in warehouses. This solution has been created as these locations are having huge stocks with lesser manpower during emergencies mainly during non-business hours. The device automatically cuts off power in case of abnormality & restarts back when situation is normal.

- **Ultrasound technology for Gas Leak Detection:** Use of ultrasound technology for leak detection in process lines. The methodology recommends a non-destructive way of avoiding losses with no downtime. The main objective is to identify the leakages in all pressurized systems including pipelines by using ultrasound technology and tag them for rectification. It also includes listing leaks with individual CFM losses and cost savings possible. The outcome of the exercise will help the plant maintenance team to rectify the leaks and reduce the energy cost. This will also improve the process parameters and production quality.
- **Fire Mitigation Solutions:** Solutions have been designed based on their specific needs, keeping in mind the level of awareness and complexity of the location. These best in class solutions which are installed at correct places by risk assessors.
- **Renewable Solutions:** In line with our philosophy for recommending business solutions, we recommend advise on efficiency measurements for wind and solar power generating assets. Drones are used to provide high accuracy and the quick reach which is not possible through any traditional methodology. User get to know about the low performing module and ways to improve the same within the entire solar plant with latlong identification. We recommend advanced drone-based technology for inspection of wind turbines and solar PV modules.



Marine

In the dynamic realm of marine insurance, cargo faces a myriad of risks, from unpredictable weather conditions to unforeseen accidents, safeguarding against potential challenges at sea is paramount.

- **MLCE (Marine loss control engineering):** Frequent occurring losses due to Peril such as accident, wet damage, theft, non-delivery, pilferage, hijack of consignments, mishandling shall be examined with ground inspections, root cause analysis with MIS, claim assessment reports.
- **Technical engagements:** Uncertainty of the risk associated with the transit can be concluded with marine experts. Risk assessment of cargo from packing, handling, lifting, securing, transit and final delivery methodology shall be discussed with the logistics team. Vessel selection, stowage and securing methods can be jointly discussed with the User's logistics team for a safe transit, dispatch and delivery coverage after assessing the risk on desktop with a virtual or F2F engagement and / or a ground visit.
- **Transit Telematics:** With the government's constant agenda of upgrading to digitalized operations by introducing ULIP and NITI Aayog mode of operations, not having a visibility of transit will hamper your logistics operations. IOT and SAAS based products incorporating the design of a cost efficiency and loss mitigation system can help enhance delivery with safe operation. Additionally, a 24*7 risk control station and detailed post hijack recovery case studies is recommended to effectively monitor and mitigate theft / pilferage prone dispatches and ensure a safe transit delivery.

Be it a temperature-controlled cargo, expensive cargo in transit or liquid bulk cargo in lorry tankers, it is essential to mitigate the risk and losses that might occur due to accidents caused by fatigue, unexplained conditions, or theft.



Liability

The growing adoption of technology in organizations has not only led to crucial data being stored and processed on digital platforms but also facilitated the automation of operations, thereby enhancing business efficiency. However, this shift also amplifies cyber risk, exposing sensitive information to potential threats and rendering organizations vulnerable to financial losses, reputational damage, and legal liabilities. As organizations delve deeper into the digital realm, fortifying cybersecurity measures becomes imperative to safeguard operational integrity and protect critical data from unauthorized access or breaches.

- **Phishing Simulation:** Experience cutting-edge phishing simulation tests to fortify your organization's defenses against cyber threats. You can enable phishing attack simulations to educate your employees on identifying and handling potential risks. Through engaging and interactive scenarios, you can raise awareness and equip your team with the necessary skills to detect and thwart phishing attempts.
- **Awareness Campaigns:** With Cyber Awareness Campaigns, you can go beyond just educating organizations about cybersecurity. The campaigns are meticulously designed to empower your team with essential best practices, insights into global incident trends and a comprehensive understanding of potential risks. Interactive designs help you captivate and engage your employees, fostering a cyber-aware culture within your organization. Customized campaigns can perfectly align with your unique needs and requirements and stay informed and vigilant.
- **Incident Response and Readiness:** A bespoke service that fortifies organizations with robust processes and clear communication channels for proficient cyber-incident management. This recommendation not only trims down the incident response time but also facilitates prompt, accurate action within the crucial initial hours. By meticulously assessing your organization's incident response policies and sculpting response systems in alignment with global industry benchmarks, this ensures you are thoroughly prepared to tackle the evolving digital threat landscape.
- **CXO's Session:** CXO's Session service provides immersive training sessions, personalized coaching & interactive discussions to empower your CXOs with cybersecurity knowledge that aligns with your business objectives. The subject matter experts recommend strategic guidance and in-depth insights into the ever-evolving threat landscape, translating technical jargon into practical language. Regular cybersecurity forums facilitate peer-to-peer learning and benchmarking against industry standards. CXO- focused approach ensures a cyber-aware leadership team that drives your organization's success securely into the future.
- **Weekly Threat Intelligence Bulletin:** Stay ahead of cyber threats with the Weekly Threat Intelligence Bulletin. We meticulously curate this comprehensive bulletin, providing timely insights on emerging threats, vulnerabilities, and attack trends. Delivered directly to your inbox, it recommends proactive advantage by promptly identifying potential risks. With continuous updates

and ongoing support, you can confidently adapt your Defence strategies to combat the most sophisticated threats. It enables you to make informed decisions and protect your organization from emerging threats with Weekly Threat Intelligence Bulletin.

- **Email Security:** Safeguard your organization's communication channels with the Email Security solutions. We recommend robust measures to protect against phishing, malware & other email-borne threats. The advanced email filtering and authentication technologies prevent malicious emails from reaching your users inbox. Implementing encryption protocols to ensure the confidentiality of sensitive data in transit is a good idea. With real-time monitoring and threat intelligence, email security measures provide proactive Defence, detecting and blocking suspicious activities promptly. You can protect your organization's reputation and sensitive information with comprehensive Email Security measures, ensuring a secure and reliable email environment.
- **Agent-less Patching:** Agent-less patching platform for companies and MSMEs who want a rapid solution to distribute critical security updates and vulnerability fixes without causing system downtime. The patching platform not only assists with patch deployment, but it also enables your system administrator in understanding the patches, Adjustments & impact of the patches on the system. Before applying the patch, the software generates a warning if the system requires downtime or a reboot. You can experience a hassle-free patching process with the platform recommending enhanced security for your organization.
- **EDR/MDR Services:** Elevate your organization's cybersecurity capabilities with the Endpoint Detection and Response (EDR) and Managed Detection and Response (MDR) services. These advanced solutions provide continuous monitoring, rapid threat detection & effective incident response, safeguarding your digital assets in real-time. With EDR, proactively detect and respond to threats at the endpoint level, while MDR service offers 24/7 monitoring and expert support. You can strengthen defenses against the most sophisticated cyber-attacks with EDR/MDR services, ensuring a resilient and secure digital environment.
- **All-in-one Operating System:** All-in-One Operating System is a true game-changing platform that provides a fortified desktop environment to foster secure collaboration and centrally managed cybersecurity resilience. Inbuilt endpoint security serves as a vigilant guard, blocking potential dangers. Effortless IT management provides with a user-friendly interface, leading to significant cost savings in IT infrastructure. It provides in-built end-point security, automated updates and patches along with extensive device reports. Organizations can unlock a secure and prosperous future by embracing the All-in-One Operating System in their IT infrastructure.
- **Cyber Risk Management & Compliance Dashboard:** Gain a clear understanding of your organization's cyber risk exposure with Cyber Risk Management & Compliance Dashboard. This powerful tool assesses your risk posture, quantifies potential financial Impact & evaluates compliance with industry standards and regulations. Armed with this information you can make informed decisions to prioritize cybersecurity investments and ensure compliance with relevant laws and regulations. The intuitive dashboard provides a comprehensive view of your cybersecurity performance enabling data-driven decision-making. This solution enables organizations to stay ahead of threats and ensure a resilient cybersecurity posture.

- **Security Score Card:** Track your organization's cybersecurity performance with a dynamic Security Score Card solution. This comprehensive rating provides a clear overview of your security posture, highlighting areas that require attention and improvement. It empowers data-driven decisions, allowing you to focus on strengthening key areas. Identify potential risks and compliance gaps with industry standards and regulations. With actionable insights, you can prioritize cybersecurity investments effectively, ensuring a robust and resilient Defence against cyber threats. This Security Score Card solution can be your strategic tool to proactively elevate your cybersecurity posture.
- **VAPT:** Enhance your organization's cybersecurity defenses with the Vulnerability Assessment and Penetration Testing (VAPT) service. Skilled professionals conduct rigorous assessments, simulating real-world attacks to identify potential vulnerabilities in your digital infrastructure. With detailed insights, you can fortify your defenses and proactively address weak points before malicious actors exploit them. This service goes beyond identifying vulnerabilities, you also get actionable recommendations to mitigate risks effectively. Organizations can be one step ahead of cyber threats, ensuring the security and resilience of your critical assets with the comprehensive VAPT service.

Engineering

In engineering risk management, it's vital to adopt a holistic approach that extends beyond immediate concerns to proactively tackle potential risks and uncertainties. Drawing upon considerable expertise in claims handling and risk evaluation, a robust and customized protection strategy can be ensured. Construction endeavors face a myriad of risks such as floods, cyclones, impact damage, fires, theft, and collapse. However, the adverse effects of these risks can be mitigated through the implementation of extensive loss prevention measures specifically tailored for engineering projects.

- **Engineering Loss Prevention Exercise (ELP):** To effectively manage losses in Engineering Risk, fostering a culture of loss prevention is crucial. It's widely acknowledged that each construction project is distinct, presenting specific challenges related to geography, geology, occupancy, and construction methodology, which in turn result in unique associated risks. To cater this challenge a specific risk management framework which deals about the unique requirement of each project could be created for the loss minimization with reference to some parameters of distinctive research and industries best practices.
- **Drone Solutions:** In recent years, the construction industry has undergone significant changes due to the introduction of drone-based construction solutions. These cutting-edge technologies are transforming the planning, design, and execution of construction projects. A major benefit of drone technology in construction is its capacity to conduct aerial surveys, providing extensive coverage and detail. Drones, equipped with advanced cameras and sensors, can rapidly capture precise images and data, offering project managers valuable insights into site conditions. This data can facilitate project planning, cost estimation and design optimization by providing a comprehensive understanding of the project's parameters.

- **CPM - Fleet & Fuel Management:** An advanced GPS-equipped sensor is available to precisely measure direct fuel consumption, evaluate engine efficiency, and detect potential tampering of diesel engines in both mobile vehicles and stationary machinery. This solution enables real-time alerts for service reminders and critical health issues, facilitating prompt resolutions and enhanced utilization. Additionally, it offers valuable insights into machinery and equipment performance through comprehensive analyses, resulting in optimized inventory usage and increased efficiency.



Health

We highly recommend exploring proactive and preventive healthcare solutions, which can make a significant difference in maintaining good health. Recognizing that majority of in-patient department (IPD) admissions could be prevented with timely interventions and regular healthcare, it is important to focus on health, not just during illness.

- **Pioneering Digital Platform:** We recommend exploring digital health innovations offered by industry leaders, which provide cutting edge health solutions through the IL TakeCare (ILTC) app. Our platform has transformed the way health services are delivered by introducing a fully digital and cashless Outpatient Department (OPD) and Wellness Program.
- **Health Advisory Services:** We recommend a suite of health advisory services on the IL TakeCare app. Users can access health risk assessments, diet and exercise trackers, health parameter tracking and trends and sleep, meditation & hydration reminders. In addition, the platform recommends a feature to upload health records up to 1GB, and provides informative health blogs.
- **IL TakeCare App:** IL TakeCare app is a One-Stop-Solution for users with insurance needs. This robust user engagement is a testament to the high-value features that the app provides. Unique to the app is the innovative self-health assessment feature, which includes Face scan technology that can measure blood pressure, heart rate, cardiac variance, and SpO2 levels. The platform provides seamless teleconsultations with medical practitioners and specialists, and even recommends access to mental wellness experts to the insured. The facility for cashless OPD services and the efficient claim settlement process further enhance user experience. By encapsulating a wide range of state-of-the-art health services and solutions, the IL TakeCare platform revolutionizes corporate health management and serves as a comprehensive digital health solution.



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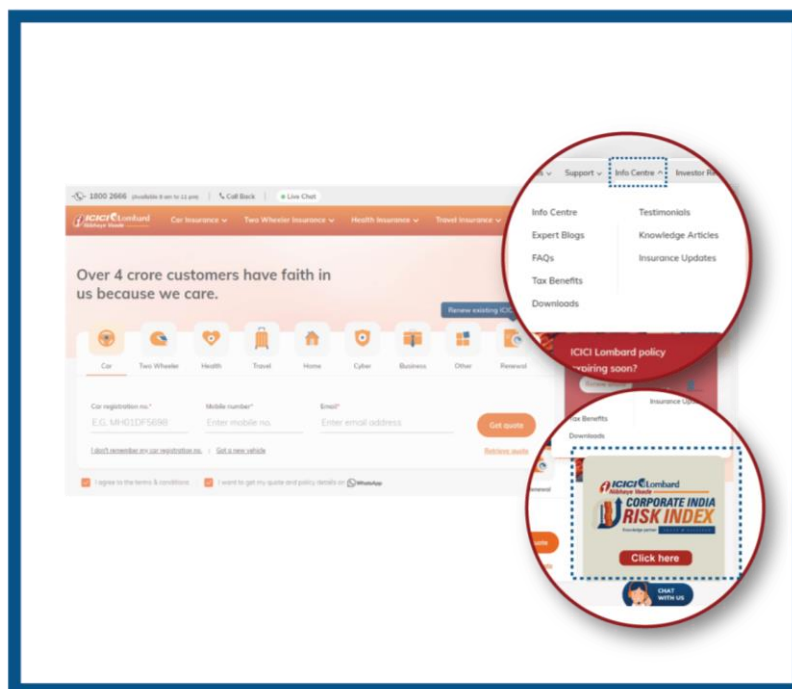
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