

MANIFEST

“Overall, we can predict that 2023 will be the year when the logistics industry reaches its full potential.”

-Nirmala Sitharaman- Finance Minister

February is the month of **Union Budget**, and the Indian Logistics industry rightfully looks forward to it every year. There has been substantial investment on developing the logistics infrastructure in this country in the last decade. This year's budget is also very positive and promising as the **Government of India** has allocated Rs 1.97 lakh crore for the development of **National Infrastructure Pipeline (NIP)** for logistics, which will focus on developing and maintaining logistics infrastructure, including warehousing, cold chains, and ports. More Multi-Modal Logistics Parks (MMLP) will be set up to facilitate the seamless movement of goods across the length and breadth of the country. The **National Logistics Policy** comes into focus for promoting the use of technology to enhance transparency, reduce costs, and improve efficiency. In this issue, we feature many articles that discuss the impact of Union Budget on the Indian Logistics sector.

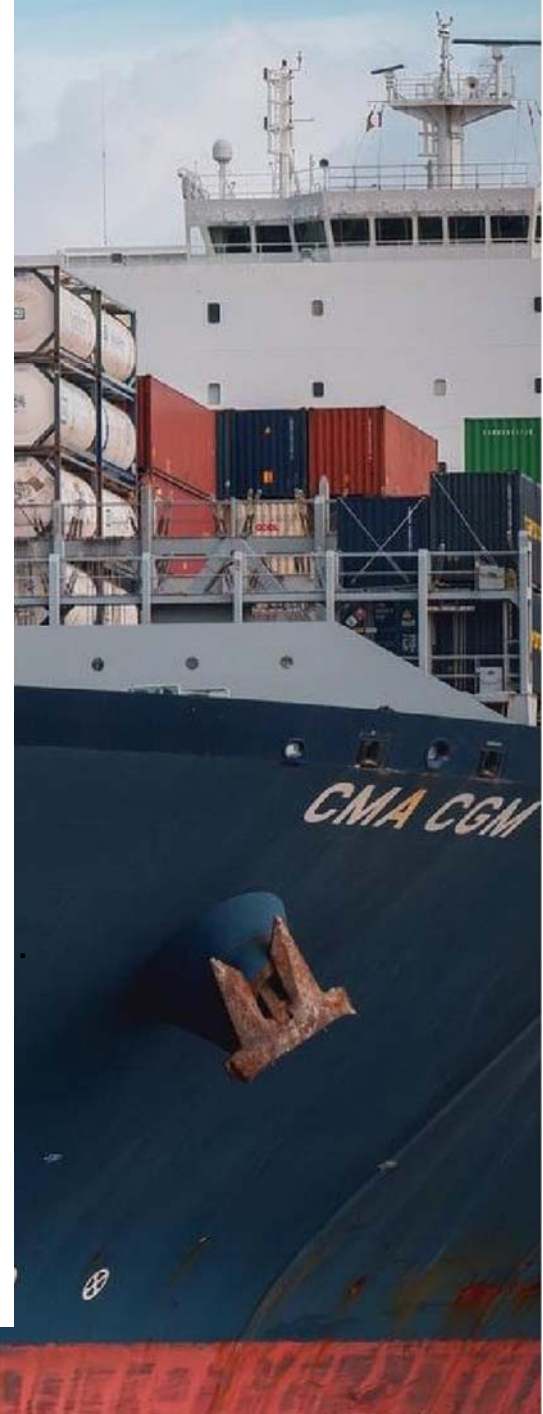
CII Institute of Logistics hosted **The Logistics Summit** in New Delhi where the CII President designate and Executive Vice Chairman of TVS Supply chain Solutions- **Mr. R. Dinesh** talked briefly on the National Logistics Policy, LEADS (Logistics ease across different states) and how states in India can compete to enhance their Logistics performance. Followed by Mr. Dinesh, the **Special Secretary, Department for Promotion of Industry, and Internal Trade** - Ms. Sumita Dawra assured the guests that the government's logistics policies are aimed at increasing logistics efficiency while speed and customer service.

In this month, CII School of Logistics, on behalf of **International Trade and Cooperation, Ministry of External Affairs**, conducted special training for the international supply chain professionals' cohort on **Building Supply Chains of the Future**. An intense two-week programme saw participation from 15 different countries. It was indeed a feather in the cap for the CIISOL faculty.

Our leadership series features the journey of Mr. Laxmikant Choudhari- Chief Logistics Officer, Pidilite Industries Ltd. We are also proud of Vaibhavi Mestry- Business Analyst EDP Group, Mumbai- our 2022 alumni.

Happy Reading!

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Logistics Summit 2023

16th February 2023 - 25th International Engineering & Technology Fair was organised by Confederation of Indian Industry with the theme where technology meets future. The event was focused on 11 different sectors namely on Healthcare, AI, Industrial automation robotics, advanced building technologies, logistics, waste & water and so on. As students of logistics industry, we visited exhibitor stalls for logistics which mainly was focused on ERPs, AI in order management, SME support systems & software for tracking & tracing in logistics.

Simultaneously logistics summit was taking place in Hall 7 where important delegates, CEOs from various logistics firms had come to understand, discuss, and take forward logistics and set new growth trajectory of logistics in India. The first conference began in the afternoon where CII President designate and Executive vice chairman of TVS Supply chain solutions Mr. R. Dinesh set the tone for the conference. Mr. Dinesh talked briefly on National Logistics Policy, LEADS (Logistics ease across different states) and how states are aligned to countries logistics ambitions along with



CII sharing the resources with government to increase utilisation of government assets along with policies. He also discussed about ULIP (Unified logistics Interface platform) and about how live data is used to power ULIP for multimodal activities.

He also discussed on more outsourcing to reduce cost and so the resources can be focused more on the core business activities. Then the conference slipped into sustainability where he said that urban logistics ecosystem for first mile is being planned for go green and how Ev's can be a threat to urban logistics. He concluded



his speech by saying that 13-14% is the current logistics cost of India to its GDP and we must leverage digital solutions which can reduce the logistics cost by some value.

Followed by Mr. Dinesh the stage was handed over to Special Secretary, Department for promotion of industry and Internal trade Ms. Sumita Dawra. Ms. Dawra in her speech stated that the country's logistics policies are aimed at increasing logistics efficiency while reducing logistics cost. She talked on how lower logistics cost can attract investments and add up to the economy of the country. Ms. Dawra talked on countries current projects in developing logistics infrastructure especially Gati-Shakthi where data layers are created for every state, roads, power lines and all the GIS data layers come together & help developing logistics infrastructure for the whole country. Then the discussion was aimed at how the port connectivity plan is aimed at filling key infrastructural gaps. ULIP was also included where Ms. Dawra mentioned about how digitalisation is aimed at providing visibility which

adds to the efficiency of logistics. Ms. Dawra also stated that services improvement groups have been created which will provide critical feedbacks on logistics and said that benchmarks are being developed from developed countries practices improving logistics efficiency. Later Ms. Dawra discussed on trial runs of railways that were conducted for coal, fertilisers and how it connects each town to make one town one product possible. To make sure India goes digital Ms. Dawra also talked on how all streetlights are being geo tagged for 5G rollout. Then the first

session of logistics has concluded.

Later three other sessions discussed on improving urban logistics, Improving customer value, Increasing outsourcing of non-core activities, panel members discussed that logistics cost is miscalculated it is around 8-9% of GDP instead of 13-14%, many panels questioned on how an ROI is possible if customer doesn't want to pay for services but wanted increase in value creation and last but not least transformation of logistics industry from rent seekers to Service providers big time were discussed in the logistics summit.

Logistics Outlook Post India Union Budget 2023



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Union Budget of India which is announced on 1st February of every year plays a significant role in boosting the economy and a guideline to growth. Government has been continuously focused on improvement in the Logistics Sector with recent policies in the recent years like Gati Shakti, NLP 2021, NLP 2022, National Air Cargo Policy which has been a great welcome move by the Logistics and Supply Chain industry. The logistics industry has applauded the budget announcements as there seems to be a lot of focus on infrastructure development, transport projects, ease of doing business etc. The highlights of the same which will boost the industry are praiseworthy. This clearly would work as a catalyst to reduce the logistics cost, speed up growth and take the country near to the vision of being the third logistics economy. 100 critical transport infrastructure projects, for the last and first mile connectivity for ports, coal, steel, fertilizer & food grains sector. This will have a positive impact on the nation's last and first mile connectivity.



Capital Investments Outlay on transportation infrastructure is a whopping 2.40 K crores on Railways, .1.62 K crores on Roads & 10k Crores on urban India infra development.

The focus of the Government will help solve the current connectivity issues and build a more sustainable future for the logistics sector. 58 additional airports, heliports, Water Aero drums and Advanced Landing Grounds to boost regional connectivity which will ultimately

improve logistics to this Tier 3 & Tier 4 cities in India establishing comprehensive air connectivity. The announcement of setting up Urban Investment Development Fund (UIDF) for the Tier 2 and Tier 3 cities will provide greater boost for efficient logistics transportation and enhance greater connectivity.

Finance Minister announced the new 100 projects will be taken up as priority with an investment of Rs 75000 Crore, including Rs 15000 crore from private sources. This will help speed up India's growth story.

Development of Private participation is a welcome move as this will bring traction of private investments necessary for India's growth. Announcements were in line with the NLP 2022 demonstrating the Government's commitment and focus to the logistics sector.

Infrastructure and investment were one of the seven priorities listed by the budget and the capital investment outlay increased steeply for the third year in a row by 33% to Rs 10 lacs crores which would be 3.3 % of the GDP

Focus on sustainability by focusing on Green Mobility investment of Rs 19700 Crore for the National Green Hydrogen Mission, Setting up

battery energy storage of 4000 MWH with viability gap funding, reduction of custom duty on imports of capital goods for Urban battery, Coastal Shipping Promotion as Energy Efficient Mode.

Setting up of Skill development centers across states which would directly help the logistics sector too.

Focus on Digital Infrastructure especially in the Agri sector thus enhancing the visibility which was lacking in a big way till now.

Capital 2.40 Lack crore record outlay for the Indian Railways will provide the necessary impetus to programs like Dedicated Freight Corridor projects critical to logistics improvement across

Ease of doing business as the budget has reduced 39000+ compliances and decriminalized 3400+ legal provisions.

Revamped guarantee scheme for the MSME's proposed in the previous budget will take effect from April1, 2023 through the infusion of Rs 9000 Crore in Corpus

Reduction in basic customs duty for goods from 21 to 13 percent will bolster foreign trade while creating global acceptance for Indian brands.



"So, above initiatives, focus and the strong will of the government will not only help the overall logistics Industry in improvement, move towards reduction in logistics cost and would certainly take the country towards being the third largest economy in the world. Giving importance to the logistics industry has also helped in growing acceptance of logistics professionals as key to success of any organization, more and more business institutes and skill development center's opening across the country is a matter of pride for the SCM fraternity."

Logistics Industry and Union Budget 2023 -24



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Hobbies – Reading and Football

Union Budget 23-24 was announced by FM Mrs. Nirmala Sitharaman on 1 February 2023 for the fiscal beginning 1 April 2023. The budget was strongly focused on boosting healthcare and infrastructure development. In infrastructure development, the major focus was for development of the logistics industry. Infrastructure was one of the key priorities amongst the 'Saptrishi' announced by FM. One of the major highlights of this budget was the capital outlay of Rs 2.4 lakh crore for the railways, this is the highest ever outlay and is 9 times the outlay made in 2013-14. This will help the Indian logistics industry to reduce the transportation cost via railways, it will also help to increase the multi modal transportation of the country, at present only 25% of the total freight is transported in rail which is the cheapest and more than 65% of the total freight is transported via road which is three times costlier than rail transportation. If the railways are allocating the funds in developing the rail infrastructure properly by increasing the connectivity and for developing the freight corridor it will be the game changer for the industry.

The budget also allocated funds for improving the regional connectivity by constructing an additional 50 airports, helicopters, water aerodromes and advance landing grounds. This will help to faster the domestic transportation via airways. This will really help to fasten the movement of highly perishable goods.

75000 crores are allocated for developing one hundred critical transport infrastructure projects, for last and first mile connectivity for ports, coal, steel, fertilizer, and food grains sectors. This will help fasten the movement of goods from the row

material provider to manufacturer and manufacturer or warehouse to point of conception. It will really help in Indian logistics as the e-commerce is in the growth stage. Out of 75000 crores 15000 crores is from privet sector.

Other factors form budget that help logistics sector are costal shipping will be promoted as the energy efficient and lower cost mode of transport, both for passengers and fright shipping, through PPP mode with viability gap funding. The newly established infrastructure finance secretariat will assist all stakeholders for more privet investment in infrastructure, including railways, road, urban infrastructure, and power, which are predominantly dependent on public resources. One hundred labs for developing applications using 5G services will be set up in engineering institutions to realize a new range of opportunities, business model and employment potential. The labs will cover, among others, applications such as smart classrooms, precision farming, intelligent transport systems and health care applications. By development of 5G technology will help in the smooth functioning of the logistics activities and development ULIP (Unified Logistics Interface Platform) which will change the logistics industry to the next level.

This budget has given enough consideration to the logistics industry, as the National Logistics Policy was introduced last year. Our government's concern to NLP and the development of the industry is clear from this budget. As we know, the logistics sector is the real backbone for every industry, the government's initiative helps in development of the nation.

Budget and Logistics Sector in India



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The logistics industry is the backbone of the Indian economy. Due to the growth of e-commerce and government have also taken some initiatives like Make in India and Digital India, the industry is expected growth rate of 15.5%, Making a significant impact on the country's GDP. New Startups are using technologies like AI, ML, Big Data and blockchain.

The finance minister Nirmala Sitharaman announced a budget allocation of Rs.27,482 crore for dedicated freight corridor corporation of India (DFCC), Making a 75% increase from the previous year. The Budget speech said one hundred transport infrastructure projects for last and first mile delivery for ports, coal, steel, fertilizers, and food grains with an investment of Rs.75,000 crore including Rs.15,000 crore from private sources. This led to the growth of e-commerce sector in India.

The 2023 Union Budget's highlighting on cultivating green strategies will urge the area to carry out greener practices in their everyday operations and services. The general viability of an organization's inventory network operations can be expanded by utilizing green logistics systems like course improvement, bundling waste decrease, and fuel utilization minimization and subsequently raising customer's esteem. The shift to greener energy and maintainability shows long-haul benefits for the industry.

The Union budget gives prioritize to the improvements of logistics infrastructure across roads, warehouses, and ports. The push for greener practices, including the transition to

green energy and lithium-ion battery-based sources, will further accelerate Ev manufacturing and adoption boosting greener supply chains. The budget gives trust to overall connectivity and enables the seamless movement of goods, which is in line with the government's focus on promoting multi modal transportation.

The 2023 Union Budget's highlighting on cultivating green strategies will urge the area to carry out greener practices in their everyday operations and services. The general viability of an organization's inventory network operations can be expanded by utilizing green logistics systems like course improvement, bundling waste decrease, and fuel utilization minimization and subsequently raising customer's esteem. The shift to greener energy and maintainability shows long-haul benefits for the industry. The industry is ready to focus on creating green strategies and making green work roads because of the public authority's solid spotlight on clean energy and maintainability in the 2023 budget.

Internationally, storage networks are being improved by utilizing human intelligence, the Indian logistics sector will likewise be benefited further. Feasible practices matched with further developed innovation will additionally uphold having fewer fatty operations putting a higher need on process enhancement, waste minimization, and raising client esteem. India's strategic infrastructure continually needs a significant push, and this Budget has given it the ideal force. By smoothing out the network and empowering reach the proficiency and intensity of the logistics operations area.

EVENTS AT CII SCHOOL OF LOGISTICS: NOIDA

ITEC Program 2023

CII School of Logistics, Noida conducts a 12-day Residential Training Program on "Leading Digitally Connected Supply Chains of the Future", sponsored by Ministry of External Affairs February 13, 2023: A 12-day residential training programme on "Leading Digitally Connected Supply Chains of the Future" was held at Amity University in Uttar Pradesh from January 30 to February 1, 2023, and was sponsored by the Ministry of External Affairs as part of the Indian Technical and Economic Cooperation Program. 24 foreign participants from more than 12 nations, including Nigeria, Malawi, Ethiopia, Kenya, Maldives, Mauritius, Mongolia, Sri Lanka, Turkey, Uzbekistan, Romania, Thailand, Mali, and Tajikistan, took part in the training programme. The program's key goals were to comprehend new global digital supply chain networks and technologies, improve business performance and supply chain efficiency by implementing new technologies, and create future-proof and resilient digital supply chains. The 12-day training course, which was divided into 7 modules, had 15

sessions, 3000+ minutes of interaction with 10 coaches and guest speakers, 50+ case studies, and simulation exercises, as well as a 130+ page manual on how to lead future supply chains that are digitally connected. The program brought the concepts of leadership to life by combining interesting video lectures, instructive real-world examples, lively conversations, and an action learning project based on the present role and issue, allowing the participants put the concepts into practice as they learned them.

During the twelve-day Training Programme, industrial Guest Lectures on Supply Chain were delivered by Ashish Neg - Sr. Director of service logistics for DHL Capt. Jathin Shama- Director, Strategy, and solution design at Aetos DigiLog; Vikas Khatri - Founder, Aviral Consulting, and Sarika Arora - Former CMO LimeRoad. In addition, the participants were taken on an industrial visit to 1DC Technologies & Holisol Logistics' to get a brief understanding of the Supply Chain industries.



SUMMER INTERNSHIP 2023



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FRIEND'S CORNER

Logistics in Budget 23 - 24



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The logistics industry is a critical component of India's economy, with a significant impact on the competitiveness of businesses and the overall growth of the country. The Indian government recognizes this fact and has been working to improve the logistics infrastructure in the country. In the Union Budget 23-24, the government has introduced several policies that aim to boost the logistics sector's growth and efficiency. In this article, we will highlight some of the key logistics policies in India in Budget 23-24.

National Logistics Policy:

The Union Budget 23-24 proposed the creation of a National Logistics Policy. The policy aims to develop a robust and efficient logistics infrastructure that is cost-effective, reliable, and integrated. The policy is expected to streamline the regulatory framework and reduce the regulatory burden on the logistics industry. The National Logistics Policy will focus on promoting the use of technology to enhance transparency, reduce costs, and improve efficiency. It also aims to improve coordination between various government agencies and stakeholders involved in the logistics sector.

Infrastructure Development:

The Union Budget 23-24 proposed several measures to boost infrastructure development in the logistics sector.

for the development of transport infrastructure. It has also proposed to set up a National Infrastructure Pipeline (NIP) for logistics, which will focus on developing and maintaining logistics infrastructure, including warehousing, cold chains, and ports.

The government has proposed to establish a Multi-Modal Logistics Park (MMLP) in every district of India to facilitate the seamless movement of goods. The MMLPs will be developed under the Public-Private Partnership (PPP) model and will provide facilities for warehousing, packaging, transportation, and value-added services.

Digitalization of Logistics:

The Union Budget 23-24 recognized the importance of digitalization in the logistics sector. The government has proposed to develop a National Logistics Data Exchange (NLDE) to provide a single-window interface for all logistics-related information. The NLDE will enable stakeholders to access real-time information on freight movement, inventory, and transportation. The government has also proposed to set up a National Transport Analytics Centre (NTAC) to provide real-time information on traffic congestion, road accidents, and other transportation-related issues. The NTAC will use data analytics and artificial intelligence (AI) to

identify transportation bottlenecks and suggest solutions to improve traffic flow.

The government has allocated Rs 1.97 lakh crore
<https://www.ciischooloflogistics.com/>

For article postings mail us at manifestradenews@gmail.com

Ease of Doing Business:

The Union Budget 23-24 has proposed several measures to improve the ease of doing business in the logistics sector. The government has proposed to simplify the customs clearance process by introducing a single-window interface. The single-window interface will enable stakeholders to submit all the necessary documents and obtain clearance for their shipments in a single place.

The government has also proposed to introduce an online platform for the registration and licensing of logistics service providers. The platform will enable logistics service providers to obtain licenses and registrations easily and quickly, thereby reducing the regulatory burden on the logistics industry.

Skill Development:

The Union Budget 23-24 has recognized the need for skilled manpower in the logistics sector. The government has proposed to set up a National Logistics University to provide training and education in logistics management. The university will offer degree and diploma courses in logistics management, supply chain management, and transportation management. The government has also proposed to set up skill development centres in every district of India to provide training to the youth in the logistics sector. The skill development centres will offer short-term courses in logistics management, transportation management, and other related fields.

Conclusion:

The logistics sector is critical to India's economic growth, and the policies introduced in the Union Budget 23-24 will help boost the sector's growth and efficiency. The National Logistics Policy,

development are some of the key measures proposed by the government to promote the logistics sector's growth. These policies will help reduce logistics costs, improve logistics infrastructure, and enhance the ease of doing business in the logistics sector. They will also create new job opportunities and improve the skill levels of the workforce in the logistics sector.

The National Logistics Policy is a significant step towards creating a conducive regulatory framework for the logistics industry. The policy will provide a roadmap for the development of a robust and efficient logistics infrastructure, which is vital for India's economic growth.

The allocation of Rs 1.97 lakh crore for the development of transport infrastructure and the creation of the National Infrastructure Pipeline (NIP) for logistics will help improve the logistics infrastructure in the country. The establishment of Multi-Modal Logistics Parks (MMLPs) in every district of India will provide a one-stop-shop for logistics services and enable the seamless movement of goods.

The digitalization of logistics through the National Logistics Data Exchange (NLDE) and the National Transport Analytics Centre (NTAC) will provide stakeholders with real-time information on freight movement, inventory, and transportation. This will help reduce logistics costs and enhance the efficiency of the logistics sector.

The simplification of customs clearance through a single-window interface and the introduction of an online platform for the registration and licensing of logistics service providers will improve the ease of doing business in the logistics sector. This will attract more investments and create new job opportunities in the logistics sector.

The proposed National Logistics University and skill development centers will improve the skill levels of the workforce in the logistics sector.

This will enhance the efficiency and productivity of the logistics sector and create new job

infrastructure development, digitalization of logistics, ease of doing business, and skill

opportunities for the youth in the country. In conclusion, the logistics policies introduced in the Union Budget 23-24 will play a crucial role in promoting the growth and efficiency of the logistics sector in India. These policies will help reduce logistics costs, improve logistics infrastructure, and enhance the ease of doing

business in the logistics sector. They will also create new job opportunities and improve the skill levels of the workforce in the logistics sector. The government's focus on the logistics sector is a significant step towards realizing the vision of 'Aatmanirbhar Bharat' and making India a global logistics hub.

Impact of Union Budget on Logistics



SAHIL KHAN
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Year 2022 was a year of recovery and growth for the Indian logistics industry with tangible signs of revival and Resilience demonstrated in the development of demand and supply across the country.

Budget 2023 has focused on fiscal consolidation while prioritizing infrastructure creation, last mile connectivity and skill development. this budget of India is become a hope for working class.

The logistics industry has welcomed the government's proposal to increase the capital investment outlay by 33 percent to Rs 10 lakh crore in the union budget 2023 – 2024 claiming that the emphasis on building infrastructure will strengthen India's position in the global supply chain. The plan of this budget is to set up more airports and heliports and proposed urban infrastructure investment for tier two

and 3 cities will strengthen regional connectivity which is important to facilitate trade.

Exports are key for global trade and the logistics sectors to be globally competitive to support India target of \$ 5 trillion economy. Reduction in custom duties for certain sectors will support the government's target of an exponential jump in goods and service records.

Fifty Airport, heliports, water, aerodromes, and advanced landing grounds will be revived to enhance regional air connectivity.

We all have the confident that the budget of FY 2024 will attract private investment of capital expenditure, will spur economic growth and position India as one of the fastest growing nations in the world.

DATABYTES

What is AI TRiSM? AI Model of Governance



MUSKAAN KUMAR

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Artificial Intelligence makes a lot of promises about perks or benefits that will help businesses remain competitive, accelerate the creation of corporate value through efficient procedures, and drastically lower operating costs. Like this, the idea of AI TRiSM emerges, indicating the security, dependability, and reliability of the systems. This also includes solutions and techniques for model interpretability and explain ability, AI data protection, model operations and adversarial attack resistance.

According to Gartner by 2026, organizations that operationalize AI transparency, trust and security will see their AI models achieve a 50% result improvement in terms of adoption, business goals and user acceptance. Gartner also predicts that by 2028, AI-driven machines will account for 20% of the global workforce and 40% of all economic productivity.

Organizations that don't manage AI risk are much more likely to experience negative AI outcomes and breaches. Models won't perform as intended, and there will be security and privacy failures, financial and reputational loss, and harm to individuals. AI that is carried out wrongly can also cause organizations to make poor business decisions.

The following are the primary frameworks that are adhered to for increased dependability, protection, and integrity.

AI trust- This approach is linked to interpretability or transparency, that is, the potential to determine if the model followed the steps necessary to get the desired results. This fosters openness and trust.

AI Risk- Adopting precise and stringent governance to manage the risks associated with enterprise AI. Documenting and managing the model development and processing stages, as well as reviewing every step of the release method to ensure its compliance and integrity.

AI Security Management- The complete ML workflow can be accessible by AI System Security, which is also capable of detecting irregularities, managing the process, and screening for vulnerabilities.

Any model can be utilized with AI TRiSM tools and methods, including custom corporate modeling that employs a multitude of AI techniques along with open-source large language model frameworks like ChatGPT. Most businesses never use TRiSM tools and methods until algorithms are implemented because the AI TRiSM industry is still new and scattered. That is naive because incorporating reliability into models early on, throughout the stage of design and development will improve the performance of the models.

AI TRiSM requires a cross-functional team to work together. This includes staff from the legal, compliance, security, IT and data analytics teams.

Generative AI: Beyond ChatGPT



GURLEEN GROVER

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ChatGPT has become synonymous with 'Google Killer' for a reason. From coding neural networks to just fixing a code with a query, chatGPT can answer everything in between. Moreover, it answers the question in different tones. For instance, in the style of fast-talking wise guy from a 1940s gangster movie, with code examples. AI art generators have been at the forefront of artistic image creation since the release of Dalle-2, Mid-journey, and other tools in the domain. Leaping ahead, Open Ai's model can help generate a well-detailed prompted scenario for these generators. It acts like a virtual cloud language is about to become the connective tissue for all sorts of software, and with the rise in usage of cloud services, Open Ai's chatGPT has found a way to assist. One can string together cloud services to do complex tasks which is an underrated use case of the product. Just some examples as to how CHATGPT is taking the world by storm!

Five industry use cases for generative AI.

Generative AI can explore many possible designs of an object to find the right or most suitable match. It not only augments and accelerates design in many fields, it also has the potential to "invent" novel designs or objects that humans may have missed otherwise. Marketing and media are already feeling the impacts of generative AI. Gartner expects: By 2025, 30% of outbound marketing messages from large organizations will be synthetically generated,

up from less than 2% in 2022.

By 2030, a major blockbuster film will be released with 90% of the film generated by AI (from text to video), from 0% of such in 2022.

Still, AI innovations are generally accelerating, creating numerous use cases for generative AI in various industries, including the following five.

Generative AI in drug design

A 2010 study showed the average cost of taking a drug from discovery to market was about \$1.8 billion, of which drug discovery costs represented about a third, and the discovery process took a whopping three to six years. Generative AI has already been used to design drugs for various uses within months, offering pharma significant opportunities to reduce both the costs and timeline of drug discovery.

Generative AI in chip design

Generative AI can use reinforcement learning (a machine learning technique) to optimize component placement in semiconductor chip design (floor planning), reducing product-development life cycle time from weeks with human experts to hours with generative AI.

Solve the problem of unstructured data.

Most AI systems today are classifiers, meaning they can be trained to distinguish between images of dogs and cats. Generative AI systems can be trained to generate an image of a dog or a cat that doesn't exist in the real world. The ability for technology to be creative is a game changer. Generative AI enables systems to create high-value artifacts, such as video, narrative, training data and even designs and schematics.

Amidst the data revolution, unstructured data is a nuisance. The problem is that they are hard to sort, manage, and organize. ChatGPT comes to the rescue as it can turn unstructured data into structured data.

Generative Pre-trained Transformer (GPT), for example, is the large-scale natural language technology that uses deep learning to produce human-like text. The third generation (GPT-3), which predicts the most likely next word in a sentence based on its absorbed accumulated training, can write stories, songs, and poetry, and even computer code — and enables ChatGPT to do your teenager's homework in seconds. Beyond text, digital-image generators, such as DALL·E 2, Stable Diffusion and Mid-journey, can generate images from text. There are several AI techniques employed for generative AI, but most recently, foundation models have taken the

spotlight.

RISKS

Generative AI doesn't just present opportunities for business; the threats are real, too including the potential for deepfakes, copyright issues and other malicious uses of generative AI technology to target your organization. It is important that we work with security and risk management leaders to proactively mitigate the reputational, counterfeit, fraud and political risks that malicious uses of generative AI present to individuals, organizations and governments. We can also consider implementing guidance on the responsible use of generative AI through a curated list of approved vendors and services, prioritizing those that strive to provide transparency on training datasets and appropriate model usage, and/or offer their models in open source.

STUDENT'S CRITIC

In today's world if we talk about Supply Chain and Logistics, we cannot ignore to mention Artificial Intelligence and Automation that play an integral role in today's Modern Supply chain era, The January Manifest provides information about AI and how it helps to optimize Supply chain and logistics sector, it's for sure one of the highlights that one shouldn't ignore. The Scale awards served as a great opportunity for the students to get hands on industry experience and learnings from industry experts. I would also like to appreciate all the writers for their valuable contribution for January month's manifest! It was a great read.



Rudraksh Deveshwar

The January manifest was an interesting read as it offered insights into how the field of logistics and supply chain can diversify and enhance its operationalization by integrating artificial intelligence and machine learning. It is worth noting that the obstacles and challenges faced during the COVID-19 can be mitigated by making it technologically feasible where AI plays a pivotal role. Also, the manifest is instrumental in keeping me updated about the advancements and developments in this field. I would like to appreciate all the writers for their efforts.



Anuj Kakkar

This month manifest comes up with many informative articles. The article about Optimizing Supply Chain and Logistics using Artificial Intelligence is very interesting to me, as a student manifest helps me to stay updated about latest updates in logistics industry. I would like to appreciate each and every one work behind manifest.



Aniketh NS

GEAR UP!!

1. **Bachelor's Reloaded**

By: India Institute of Technology, New Delhi

Registration Link: <https://unstop.com/competitions/bachelors-reloaded-tryst-iit-delhi-629314>

2. **Town Planning**

By: India Institute of Technology, Tirupati

Registration Link: <https://unstop.com/competitions/town-planning-tirutsava-indian-institute-of-technology-iit-tirupati-632556>

3. **Trade-A-Way 2.0**

By: Aryabhatta College (AC), Delhi University, Delhi

Registration Link: <https://unstop.com/competitions/trade-a-way-20-ecodox-40-aryabhatta-college-du-delhi-632581>

4. **Industry Stimulation**

By: Birla Institute of Technology & Science (BITS), Pilani

Registration Link: <https://unstop.com/competitions/industry-simulation-apogee-bits-pilani-a-hivemind-genesis-bits-pilani-632714>

IKIGAI

A Japanese word which means *'a reason of living!'*

(By- 2022-24 Batch)



LOGITOONS

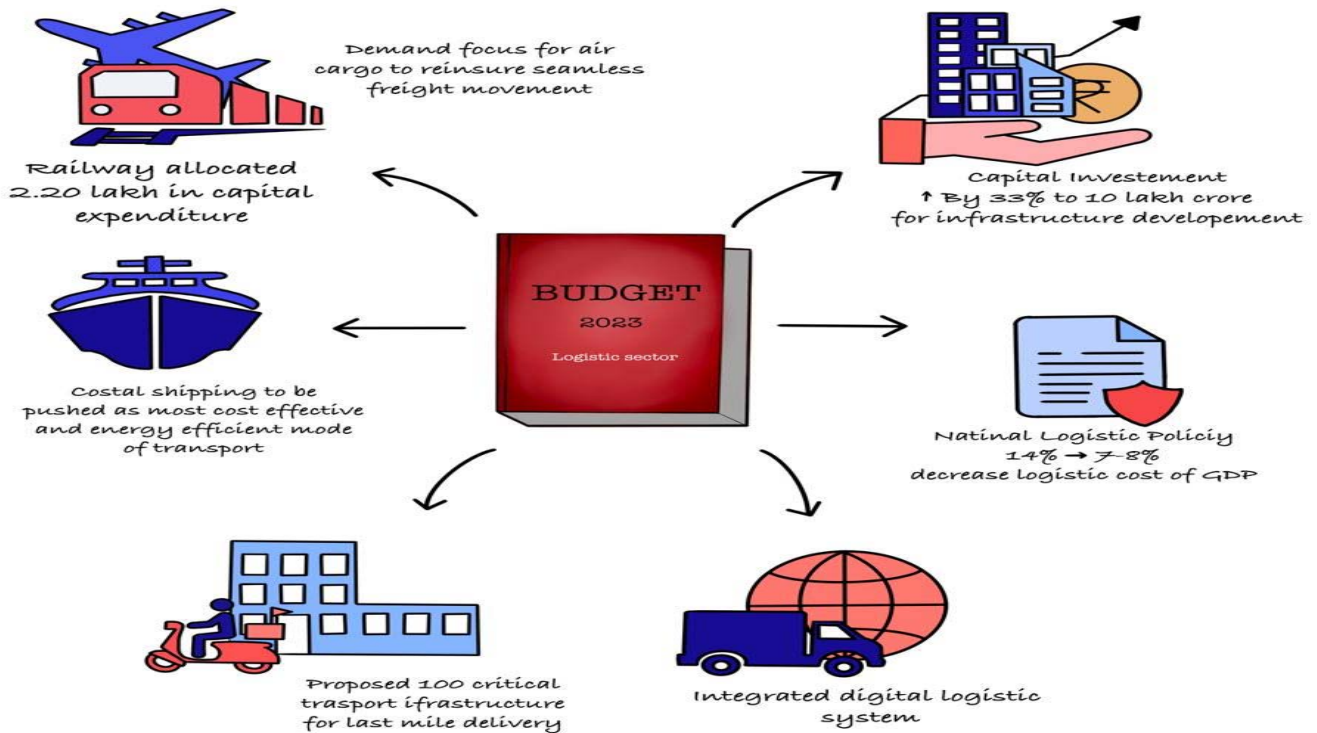


ILLUSTRATION BY CHARAK EPSA SINGH, CIISOL, NOIDA: BATCH (2022-2024)

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SHALINI SHARMA

LOVEY SINGH

CHARAK EPSA SINGH

BHAVNA SHARMA

HUSSAIN NULWALA

VISHWAJEET SINGH

SACHIN GORANA

JIGAR AMRAVAT

TUSHAR PATIL

RUSHABH PATHARE

PRATIK GHOSALKAR

KANDASIVAM