SUMMIT ON TECHNOLOGY AUTOMATION AND ROBOTICS IN SUPPLY CHAIN
"The smart logistics trinity - ai, robotics, and data"
Friday, 12th September 2025 |1000 Hrs – 1715 Hrs | Taj Santacruz, Mumbai

For decades, logistics operations relied heavily on manual processes and siloed systems. However, the increasing complexity and velocity of modern supply chains have exposed the limitations of these traditional approaches, leading to inefficiencies, higher costs, and reduced agility. The need for real-time visibility, predictive capabilities, and adaptive operational models has become paramount for businesses seeking to maintain a competitive edge.

In response to these challenges, a wave of technological advancements is rapidly permeating the logistics landscape. The integration of sophisticated software solutions, coupled with the increasing affordability and capability of automation and robotic systems, is creating unprecedented opportunities for optimization. From intelligent warehouse management systems that leverage artificial intelligence to autonomous vehicles poised to revolutionize transportation, these technologies offer the potential to unlock significant gains in efficiency, accuracy, and cost-effectiveness.

The interconnected nature of modern supply chains necessitates a holistic approach to technology adoption. Isolated implementations of individual solutions are no longer sufficient. The true power lies in the seamless integration of various technologies – from IoT sensors providing real-time data to predictive analytics enabling proactive decision-making, and from robotic process automation streamlining administrative tasks to autonomous robots handling physical operations.

This evolving landscape presents both immense opportunities and significant challenges for logistics and supply chain professionals. Staying abreast of the latest technological advancements, understanding their practical applications, and developing effective implementation strategies are crucial for navigating this transformation successfully.

This conference is designed to provide a comprehensive overview of these critical trends, offering attendees the knowledge and insights necessary to understand the current context and strategically plan for the future of logistics and supply chain management in the age of intelligent automation.

SESSION 1: NAVIGATING ROBUST TECHNOLOGIES FOR WAREHOUSE TRANSFORMATION

Explore the current capabilities impacted by AI-driven initiatives in Warehouse Execution Systems and their role in transforming warehouse operations by 2030. Discover how real-time data flow for AI-based decision-making system designed for inventory prediction, dynamic storage allocation, and intelligent picking and sorting etc. to enhance throughput and reduce operational costs.

- Current real-world case study based on challenges and KPIs Impacted after adoption
- WES implementation innovation across SME, medium, and large-scale operations
- Methodology for choosing the right technology and vendor partnership to align with operational maturity
- The evolving role of AI in warehouse execution: predictive and prescriptive decision-making

SESSION 2 : UNLOCKING SUPPLY CHAIN AGILITY WITH IOT & PREDICTIVE INSIGHTS

Focus on the integration of IoT, AI, and predictive models to drive real-time supply chain visibility and responsiveness. Explore how data insight from data enables accurate demand forecasting, inventory optimization, and proactive risk management etc.

- Building a robust data infrastructure for integration IT – OT technologies.
- Turning data insights into actionable strategies for value generation by AI based capability using time series models etc.
- Case studies: impact of data-driven decision-making on supply chain responsiveness based on data models and New-age technologies as Autonomous mobile robots etc.
- Incorporating sustainability through IoT-enabled tracking of carbon emissions and energy-efficient logistics operations.
- Ethical considerations and responsible data use in connected logistics ecosystems with extended partner.
- Potential demonstration of AI real time tools and models in action including AI agents, forecasting applications etc.

SESSION 3 : THE FUTURE OF TRANSPORTATION: AVS, EVs & INTELLIGENT TMS

Examine advancements in interactive Autonomous Vehicle (AV) technology and its adaptability. Discuss the anticipated deployment of AVs on public roads and their impact on traffic flow and safety. Explore AI and machine learning integration within TMS for optimized routing, real-time shipment visibility, and enhanced logistics efficiency, highlighting key innovation trends. add bullet points for discussion in each session. key questions

- Timeline and impact of closed loop autonomous trucking
- Leveraging intelligent TMS for real-time optimization
- The role of AI agents in managing & automating logistics decisions in multi-modal networks etc.
- Infrastructure readiness and regulatory changes for EV and AV deployment.

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