



**International Trade Show for
Intralogistics Solutions and Process Management
March 19–21, 2024 | Messe Stuttgart**

EUROEXPO

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Press Release

LogiMAT in Stuttgart

The Secret of Successful Intralogistics: Adaptability

Munich, December 20, 2024—Many exhibitors at LogiMAT 2024 will be demonstrating the adaptability of their systems and solutions. Experts from the business and academic communities will also focus on the theme of adaptability in a series of Expert Forums. In this way, LogiMAT offers a forum for a wide range of perspectives on adaptability in intralogistics and what you need to know to protect your investment and choose systems that will stand the test of time.

In today's environment of volatility, complexity, and rapid change, the task of designing sustainable logistics processes depends increasingly on flexibility and adaptability—qualities that make it easy to modify and extend existing infrastructure in response to changing needs and technological innovations. The majority of exhibitors address this need in the products and solutions on display at LogiMAT. But which factors come into play here to ensure sound, sustainable investments in systems and components? The accompanying program of LogiMAT 2024 focuses on this question in four Expert Forums presented in the LogiMAT Arena, East Entrance Atrium.

The core strategy for designing future-proof solutions is to utilize components and technology that can be easily reconfigured in support of a modular overall system architecture. Combining modules into a highly customized overall system yields tremendous flexibility for extensions and changes down the road. The key concept here in the context of intralogistics is adaptability. The Expert Forums at LogiMAT emphasize the sheer spectrum of available tools, ranging from modular warehouse management systems and logistics suites to system and material flow controllers to processes for optimizing the interaction of material handling technology and fleets of transport equipment. A classic example in warehouse technology is an integrated AutoStore system consisting entirely of scalable modular components, as various exhibitors and AutoStore itself will present at LogiMAT.

Dr. Robert Schulz, Director of the Institute of Mechanical Handling and Logistics (IFT) at the University of Stuttgart, talks about logistics, security, hardware, and software as elements of fluid production in the Expert Forum **Logistics for fluid production**, part of the accompanying program right on the first day of LogiMAT 2024 (March 19, 4:00–4:50 PM). Fluid production implies adaptable production systems. This makes it possible for the various components to together unlock the full potential of the overall intralogistics system. Adaptable production systems offer the flexibility needed to accommodate the ever-changing requirements that arise from shorter product lifecycles, increasing product diversity, and volatile sales trends.

Using AI for flexible e-commerce processes

The flexibility and adaptability of material flow design and processes are supported not only by the hardware components but also by software using artificial intelligence (AI) for analytics and forecasting. Dr. Thorsten Schmidt of the Association of German Engineers' Society for Production and Logistics (VDI-GPL) and Professor of Technical Logistics at TU Dresden warns that the highly successful e-commerce sector is moving into treacherous waters amid such factors as out-of-control volatility, sagging sales, and labor shortages. He joins e-commerce insiders in an examination of current challenges and potential solutions for the industry in the Expert Forum **An existential crisis for e-commerce? How a successful industry is coping with current challenges** (Wednesday, March 20, 2024, 11:00–11:50 AM). The program looks at flexibility, including an assessment of how AI can be used to improve forecasting accuracy for e-commerce business fields and processes. Continuous AI-based process analytics creates visibility, highlights vulnerabilities, and enables strategic optimizations, extensions, and modifications to existing systems and processes.

Optimizing through analytics

A quick analysis to identify targeted improvements and enhance flexibility: That's also the core idea behind the Order Management Quick Check—an adaptability tool that links current methodologies with new approaches, with a focus on qualitative analyses. Michael Lickefett, Head of the Department of Factory Planning and Production Management at the Fraunhofer Institute for Manufacturing Engineering and Automation (IPA), shows how all this works in the Expert Forum **Order Management Quick Check** (March 21, 2024, 2:00–2:50 PM). The Order Management Quick Check analyzes the strengths and weaknesses of the status quo and suggests areas for improvement with an eye toward best-practice solutions.

Intralogistics material flows rely on either stationary material handling equipment or mobile technology, from traditional forklifts to automated guided vehicles (AGVs) to autonomous mobile robots (AMRs). Modern material handling technology uses modular components that can be customized to each customer's unique situation, offering flexibility when modifications or extensions are needed. More and more, stationary material handling systems are being replaced by untethered transport options involving AGVs and AMRs. The evolution from forklifts to AGVs to AMRs in these segments now stands as a prime example of adaptability in intralogistics. These products have taken over more and more exhibit space at LogiMAT in the past five years, reflecting their importance in modern material flow design.

Adaptability: basics and beyond

Dr. Günter Ullrich, Managing Director of Forum AGV (www.forum-fts.com/en) and Head of the VDI Technical Committee for AGV systems, looks at **The future of mobile robots from the perspective of sensor manufacturers** in his Expert Forum (March 20, 2024, 3:00–3:50 PM). The panel of experts will focus on the safety challenges in designing robot and sensor systems for deployments on factory floors and in manufacturer warehouses, with an eye on deployments in publicly accessible areas as well. The panel will also classify new use cases, define the underlying requirements, and discuss strategies and technical roadmaps for developing solutions. Attendees can expect interesting insights to help them make wise investments in forward-looking equipment and fleets. LogiMAT 2024 is also debuting a new Mobile Robotics User Forum to complement the AGV and AMR solutions on display in Hall 6. Experts from Forum AGV will be on hand in the gallery of Hall 6 (Booth 6H01) to offer visitors a broad program of information and personal consultation in five categories covering the current trends in how AGV systems and AMRs are deployed and how to put together future-proof AGV/AMR fleets.

“The Expert Forums, part of the accompanying program of LogiMAT 2024, offer a wide variety of perspectives on the basics plus tips for making sound investments in adaptable intralogistics,” remarks Exhibition Director Michael Ruchty of EUROEXPO Messe- und Kongress-GmbH in Munich. “Industry professionals planning to invest in new technology can count on solid information to help them choose a flexible solution that will stand the test of time—underscoring the added value of LogiMAT as the primary platform for information on intralogistics solutions and process management.”

Organized by: EUROEXPO Messe- und Kongress-GmbH
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Munich, December 20, 2024—This text may be reprinted free of charge, but please send a copy to EUROEXPO Messe- und Kongress-GmbH, Press and Public Relations Department, 80912 Munich.

About LogiMAT

LogiMAT, the International Trade Show for Intralogistics Solutions and Process Management, will take place at the Messe Stuttgart convention center, directly adjacent to Stuttgart International Airport, from March 19 to 21, 2023. LogiMAT, organized by EUROEXPO Messe- und Kongress-GmbH, ranks as the world's largest trade show for intralogistics solutions. It offers a complete market overview of everything driving the intralogistics industry, from procurement to production to shipping. International exhibitors showcase innovative technologies, products, systems, and solutions for streamlining operations, optimizing processes, and cutting costs in a company's internal logistics. Beyond the exhibitor booths, visitors can also experience a different program of presentations each day covering a wide range of topics.

LogiMAT also has a presence in various international markets. Upcoming events:

LogiMAT India, February 28 to March 1, 2024, IEML, Delhi NCR, India

LogiMAT China, May 8–10, 2024, SZCEC, Shenzhen, China

LogiMAT Southeast Asia, October 16–18, 2024, IMPACT, Bangkok, Thailand

LogiMAT.digital is the platform that brings together top providers of the world's best intralogistics solutions with high-quality leads, bridging the time and space between on-site events.