

A large container ship is docked at a port at night. The ship's hull is dark, and it is covered with stacks of colorful shipping containers. In the foreground, a white truck with its headlights on is driving on a wet, reflective surface. The background shows the complex steel structure of port cranes and other industrial equipment, illuminated by warm lights.

# ELEVATING SHIPYARD PERFORMANCE FOR AUTOMAR

CASE STUDY

## About the Customer

AutoMar Logistics is a leading provider of transportation and logistics services, specializing in the efficient movement of goods for global trade. Their expertise includes route planning, vehicle scheduling, cargo handling and shipment tracking, all designed to deliver goods reliably, cost-effectively and on time. At one of their key Mediterranean ports, AutoMar manages a busy container yard critical to keeping international shipments moving smoothly.

## Project Summary

To enhance the efficiency of their container yard operations, AutoMar set out to identify the best way to allocate handling machinery to minimize ship loading times and improve overall flow through the port. Known for their commitment to innovation and customer satisfaction, AutoMar partnered with Engineering IndX to explore how advanced simulation could reveal the most effective allocation strategy. Our team developed a simulation model of their operations to test various approaches in a virtual environment, providing AutoMar with clear insights into how to optimize their yard without disrupting daily activity.

## Business Drivers

- + Increase efficiency of container yard operations
- + Reduce ship turnaround times at the port
- + Optimize allocation of handling machinery for peak performance
- + Improve reliability and predictability of service for customers
- + Support sustainable and cost-effective logistics

## Project Activities

- + Conducted an in-depth analysis of AutoMar's existing yard allocation approach
- + Built a simulation model replicating real-world container yard operations
- + Tested the current (fixed) allocation against a dynamic allocation scenario
- + Analyzed outcomes to identify the most efficient machine deployment strategy
- + Delivered actionable recommendations validated with AutoMar's team

## More About the Project

AutoMar's container yard is a vital link in their logistics chain, where efficient coordination of machinery is essential to keeping ships on schedule and goods flowing. While their existing fixed allocation of yard machinery performed well, AutoMar saw an opportunity to explore whether a more dynamic approach could deliver even greater results.

Leveraging AnyLogic Simulation Software, our team designed a highly accurate simulation model of their operations, incorporating actual workflows and real-world constraints. We tested their current fixed allocation strategy and compared it to a dynamic, demand-driven allocation scenario. The simulation revealed that the dynamic approach significantly reduced ship loading times, improving overall yard efficiency while making better use of resources.

With a clear plan backed by data, AutoMar is enhancing its ability to deliver reliable, timely logistics services for global customers while optimizing resources on the ground. By validating these insights through simulation, AutoMar was able to move forward with confidence, ready to implement changes that enhance their operational excellence and customer service.

## Engineering's Advantage

At Engineering IndX, we combine industry expertise with advanced simulation technology to help logistics leaders like AutoMar uncover new efficiencies and strengthen their operations. Our collaborative approach and proven methodologies ensure customers can make informed decisions that drive measurable improvements — without disrupting their day-to-day operations. We're proud to support AutoMar in their ongoing mission to deliver world-class logistics.

## About Engineering IndX

Engineering Industries eXcellence is the global division of the Engineering Group specialized in the development, integration and implementation of holistic digital transformation solutions covering the end-to-end lifecycle and supply chain of all industrial products and processes. A leader in digital transformation, the Engineering Group is a global software maker, a system integrator and a leading provider of technology solutions and services. With an annual revenue of over \$1.7 billion and around 15,000 professionals across 70 office locations worldwide, the Engineering Group manages projects in over 50 countries by designing, developing and implementing innovative solutions for the business areas in which digitalization is having the biggest impact today.



Delivering the Digital Thread for Industry X.0



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End-to-End Technology Solution & Service Capabilities

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