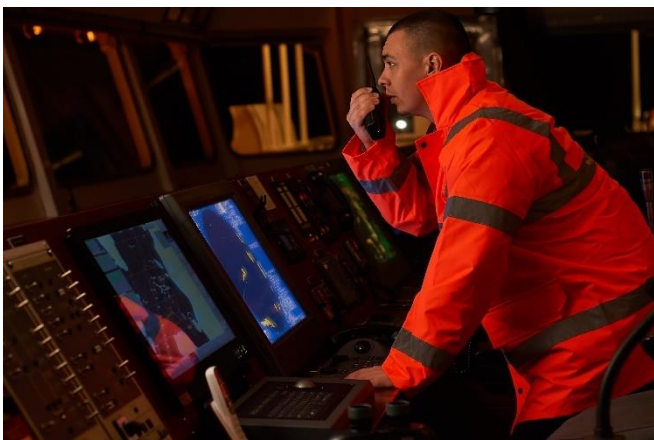# Marine Traffic Management System

Introducing the Marine Traffic Management System (MTMS) – the complete solution for the planning and management of vessel traffic around ports. Our platform significantly improves the quality of traffic services through a combination of radar display with full vessel movement information and expected traffic data. MTMS is designed for an integrated approach, encompassing all aspects of vessel logistics and providing a uniform handling of all traffic for optimal performance.

Features

Vessel tracking and movement info
Provides full vessel movement information, including expected traffic data, improving the quality of operations.

Radar integration
Integrates with radar and other platforms, such as meteorological/hydrographic systems, voyage planning, and pilotage information.

Prediction of vessel movements
Advanced route and prediction model that automatically determines routes and calculates passage times.

Enterprise Service Bus (ESB)
Allows for easy integration of other vessel-oriented services like pilotage and lock planning.

Automatic alerts and notifications
Provides customizable alerts and notifications to inform operators of potential conflicts or unsafe situations.

Implementation

ARS T&TT was awarded the project to implement a new Enterprise Architecture to the Schelderadarketen computer platform. This new architecture made Schelderadarketen a single point of information, allowing for easy exchange of vessel movement information with external systems and resulting in direct access to complete and accurate information. Through the use of a modular platform with loose coupling, the Schelderadarketen was made flexible to easily add or replace certain modules.

Advantages

The MTMS solution optimizes the entire "flow of vessels" in port, aligning all parties and operations, and thus increasing efficiency and safety.

UNIFORM HANDLING OF MARINE TRAFFIC
Supports all steps for complete handling of vessel movements, fully integrating with radar systems and other platforms.
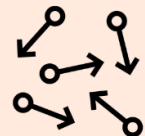
SINGLE POINT OF INFORMATION
Offers services to exchange data with other systems, providing one system and one version of the truth.

PREDICTION OF VESSEL MOVEMENTS
Advanced route and prediction model for automatic route determination and calculation of passage times, optimizing the flow of vessels in port.

BASE PLATFORM FOR GROWTH
EBS makes it highly customizable to respect local procedures, rules, and regulations and allowing for easy growth and maintenance.

Benefits

Improved port traffic management
- o Better coordination of vessel movements
- o Increased transparency and accuracy of vessel schedules and arrival times

Increased efficiency
- o Reduced waiting times for vessels to berth or depart, resulting in faster turnaround
- o Improved planning and allocation of resources, including pilots, tugs, and berth availability
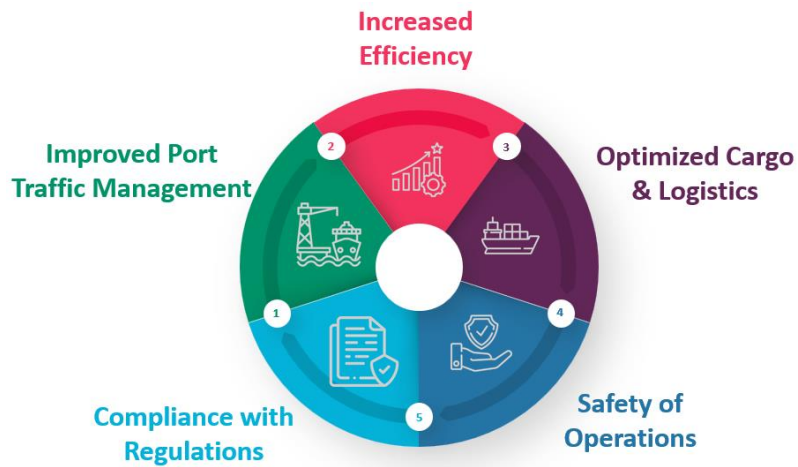
Optimized cargo & logistics
- o Enables better supply chain coordination
- o Better alignment of all parties and operations to optimize the entire flow of vessels in port

Safety of operations
- o Enhanced security for vessels, cargo, and crews
- o Data security measures ensure the continuity of operations

Compliance with regulations
- o Adherence to local procedures, rules, and regulations to ensure compliance
- o Enhanced data collection to improve decision-making and risk management

Increased Efficiency

Improved Port Traffic Management

Optimized Cargo & Logistics

Compliance with Regulations

Safety of Operations

Contact us today to learn more about how ARS can help optimize port operations!

About ARS T&TT

ARS Traffic & Transport Technology (ARS T&TT), headquartered in the Netherlands has been providing intelligent traffic and transport technology solutions to businesses and government bodies for over twenty years. We are an active player in our home market of the Netherlands, with a particular emphasis on meeting the growing international demand for innovative transportation solutions.

Our mission as an independent 'Intelligent Transport System' (ITS) solutions provider is to rapidly expand our leading position in the fast-growing smart traffic and transportation markets. We believe continuous improvement and innovation enable us to achieve this mission.

For more information, contact us: info@ars.nl

100+
Projects

8
Countries

24
Years of experience

350+
Employees

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