



APM Terminals Gothenburg is an intermodal terminal with services for rail and road cargo, as well as capabilities to serve the world's largest 24,000+ TEU vessels. The terminal handles over 800 000 TEU annually.

APMT Gothenburg is committed to being a world-class terminal. The three core elements of their strategy are **digitalization**, **efficiency**, and **environmental responsibility**. Terminal investments are viewed in terms of how they contribute to those elements to ensure business objectives are met.

Delivered Visy solutions

Visy was selected in 2017 to deliver a gate automation environment with Truck OCR portals, as well as one Rail OCR portal (Phase 1). After successful delivery of Phase 1, Visy was also awarded to supply a Crane OCR camera system with TopView spreader OCR for 7 STS cranes and 2 RMG cranes in 2022-23 (Phase 2).



Phase 1: Gate Automation with OCR features (2017-18)

- 4 x Truck OCR portals (two IN, two OUT) which capture high-quality images, container ID, ISO code, etc.
- Smart gate environment including Visy Access Gate platform, gate kiosks, RFID, intercoms, PIN code readers, etc.

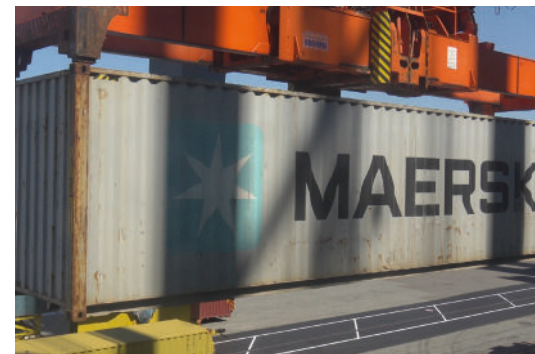
Result: Truck turnaround time reduced from 56 minutes to 25, allowing the terminal to serve more cargo. Shorter handling times reduced carbon emissions by 688 tonnes in 2020.



Phase 1: Visy Rail OCR portal – Train imaging environment (2017-18)

1 x Visy Rail OCR portal with Visy Train Gate user application for imaging containers and cargo. The system captures container IDs, wagon IDs, IMO and ADR labels, and high-quality images for damage inspection.

Result: The Rail OCR system automatically collects data on incoming and outgoing trains for faster handling. The data is made available in the Visy Train Gate user application and sent to the TOS for further management of cargo.



Phase 2: Visy Crane OCR with TopView spreader camera system (2022-23)

Visy Crane OCR with LaneView & TopView systems for 7 STS cranes (2 x NOELL, 2 x Liebherr, 3 x ZPMC). LaneView images long and short sides while TopView takes images of the container roof. The system extracts container IDs, ISO codes, and door orientation. Visy ADDS for detecting container damage. The system Go-Live was in May 2023.

Result: Gross moves per hour has significantly improved and OCR recognition rate for container ID is over 99%.

Phase 2: Visy RMG OCR (2022-23)

Visy RMG OCR for two Liebherr RMG cranes that handle cargo arriving or leaving the terminal via rail transport. The camera system images short sides and captures container IDs, ISO codes, and door direction. The data is made available in the Visy Crane Gate application.

Result: Digitalization of all rail moves synchronized with Visy Train Gate and Navis 4 TOS; faster handling times and virtually no mistakes in the data.



Visy RMG OCR system is installed in 2 cranes to image short sides of containers that are loaded and unloaded from trains.



Navis 4 integration

All installed Visy systems are integrated with Navis 4 TOS. The TOS integration enables seamless operations, helps to prevent fraud, and verifies that the data is correct and available in a single system.

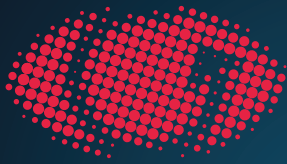
Visy technologies enable growing business sustainably

Visy Access Gate platform digitalizes the entry and exit of cargo, assets, and personnel for all areas of terminal operations. Using OCR, RFID, and driver kiosks, truck turnaround times have been reduced by more than 55% and the terminal has maintained its pledge for reduced CO2 emissions. Visy Rail OCR portal and RMG OCR system have improved handling times, propelling the rail operation to reach its goal of doubling rail capacity. Since the Crane OCR system – including LaneView and TopView – was deployed this year, STS crane productivity has significantly improved and further improvements are expected.

The partnership between Visy and APMT Gothenburg has been successful in meeting the management’s objectives of improving operational efficiency through digitalization and reducing the terminal’s environmental impact.

Learn more about Visy solutions





VISY

Enhancing and streamlining
the safe flow of cargo.



Gothenburg, Sweden

APM TERMINALS

Lifting Global Trade

Visy Oy

Visy provides process automation ecosystems to manage the flow of traffic, cargo, and personnel in marine and intermodal terminals. Every asset that goes in or out of a facility, whether by road, rail or quay, can be managed by Visy technology.

Using vision technology and other data collection tools, Visy ecosystems manage more than 5,000,000 automation tasks per day in over 25 countries.

Visit www.visy.fi to learn more.

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