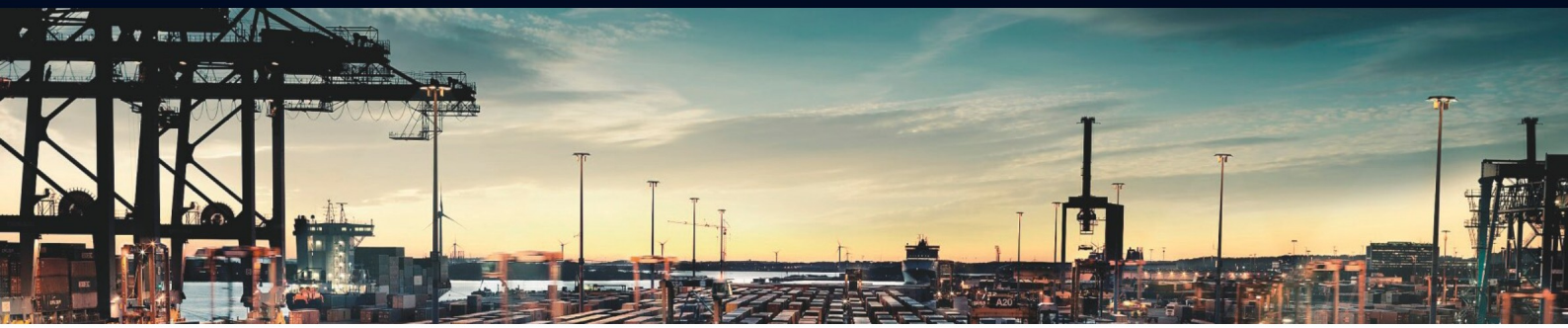
VISY

CUSTOMER CASE STUDY
PORTS AND TERMINALS · SWEDEN

APM Terminals Gothenburg cut truck turnaround from 56 minutes to 25.



APM Terminals Gothenburg is an intermodal terminal serving road and rail cargo, with the capacity to handle the world's largest vessels of 24,000+ TEU. The terminal handles over 800,000 TEU a year.

Digitalisation, efficiency, environment

APMT Gothenburg aims to be a world-class terminal. Its strategy rests on three elements: digitalisation, efficiency and environmental responsibility. Every investment is judged on how it contributes to those three, so that business objectives are met.

What Visy delivered

In 2017, APMT Gothenburg selected Visy to deliver a gate automation environment with Truck OCR portals, plus one Rail OCR portal (Phase 1). After Phase 1 was delivered, Visy was awarded a Crane OCR camera system with TopView spreader OCR for seven STS cranes and two RMG cranes in 2022–23 (Phase 2).

APM TERMINALS
Lifting Global Trade

LOCATION
Gothenburg, Sweden

CUSTOMER SINCE
2017

VOLUME
800,000+ TEU a year

VISY SYSTEMS
Truck OCR portals, Visy Access Gate, Rail OCR portal, Crane OCR with LaneView and TopView, RMG OCR, ADDS

TOS
Navis N4

PHASE 1 · 2017–18

Phase 1 automated the truck gate and the rail entry.

Gate automation with OCR



- 4 x Truck OCR portals, two in and two out, capturing high-quality images, container IDs, ISO codes and more.
- A smart gate environment on the Visy Access Gate platform, with gate kiosks, RFID, intercoms and PIN code readers.

RESULT

Truck turnaround time fell from 56 minutes to 25, so the terminal can serve more cargo. Shorter handling times cut carbon emissions by 688 tonnes in 2020.

Rail OCR portal for train imaging

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





Side images from the Visy Rail OCR portal.

RESULT

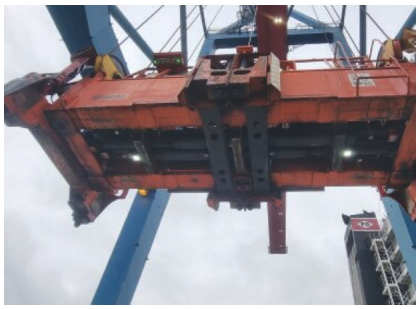
Data on incoming and outgoing trains is collected automatically, for faster handling. It is available in Visy Train Gate and sent to the TOS to manage the cargo.

PHASE 2 · 2022–23

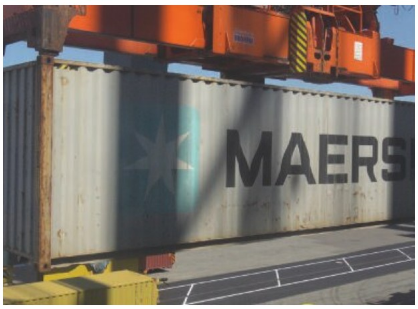
Phase 2 brought OCR to seven STS cranes and two RMG cranes.



Visy LaneView uses pan-tilt-zoom cameras to cover every container's path.



Visy TopView confirms container IDs from the roof, on every spreader.



A container on the spreader during an STS move.

Visy Crane OCR with TopView spreader cameras

Visy Crane OCR with LaneView and TopView on 7 STS cranes (2 x NOELL, 2 x Liebherr, 3 x ZPMC). LaneView images the long and short sides of each container, and TopView images the roof. The system captures container IDs, ISO codes and door direction, and Visy ADDS detects container damage. The system went live in May 2023.

RESULT

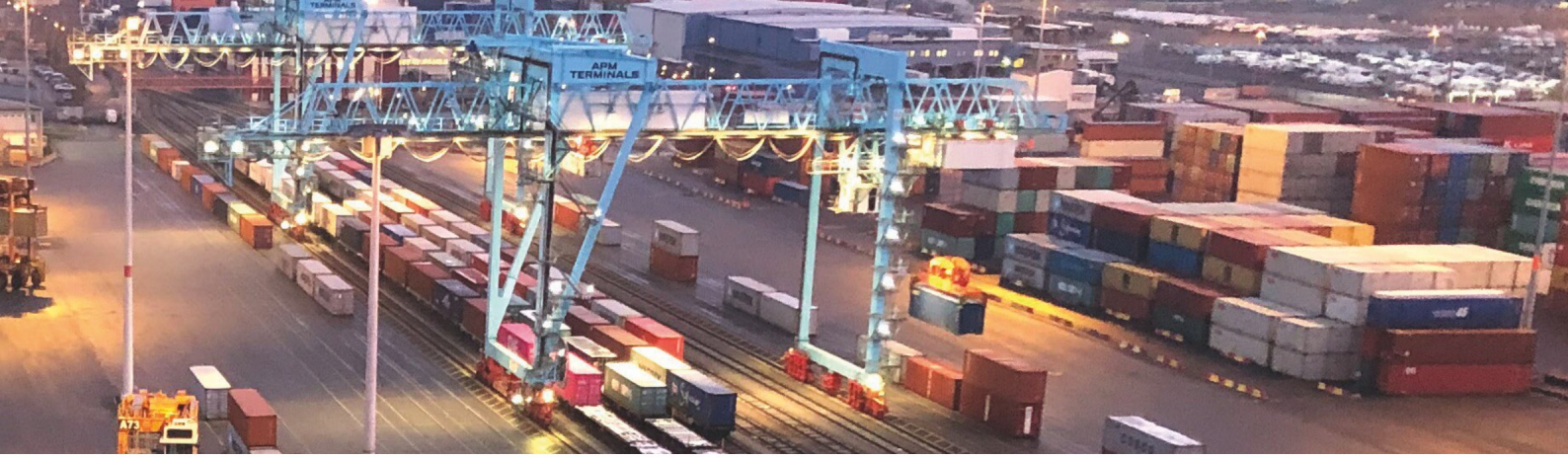
Gross moves per hour have improved significantly, and the OCR read rate for container IDs is over 99%.

Visy RMG OCR for the rail yard

Visy RMG OCR on two Liebherr RMG cranes that handle cargo arriving at or leaving the terminal by rail. The cameras image the short sides of each container and capture container IDs, ISO codes and door direction. The data is available in the Visy Crane Gate application.

RESULT

Every rail move is digitalised and synchronised with Visy Train Gate and Navis N4, with faster handling and almost no data errors.



Visy RMG OCR on two cranes images the short sides of containers loaded onto and unloaded from trains.

Every Visy system at the terminal reports into Navis N4.

Navis N4 integration

All installed Visy systems are integrated with the Navis N4 TOS. The integration helps prevent fraud and verifies that the data is correct and available in one system.

More capacity, lower emissions

Visy Access Gate digitalises the entry and exit of cargo, assets and people across the terminal. With OCR, RFID and driver kiosks, truck turnaround times have fallen by more than 55%, and the terminal has kept its pledge to cut CO2 emissions. The Rail OCR portal and RMG OCR have shortened handling times, supporting the rail operation's goal of doubling rail capacity. Since Crane OCR with LaneView and TopView went live in 2023, STS crane productivity has improved significantly.

Together, Visy and APMT Gothenburg have met the management's goals: more efficient operations through digitalisation, and a smaller environmental footprint for the terminal.

About Visy

Since 1994, Visy has built systems that capture cargo and vehicle data and control access at ports, terminals, rail yards and industrial sites. Every asset that enters or leaves a facility, by road, rail or sea, can be identified and managed with Visy technology. Today, Visy systems handle more than 6,000,000 automation tasks a day in over 30 countries.

Learn more at visy.fi

Expand
Your vision

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