Netherlands boosts border security with advanced ANPR technology

In the Netherlands, combating cross-border crime means guarding the border at airports, seaports and along the coast. Key to these efforts is effective security monitoring bolstered by automatic number plate recognition (ANPR) technology. DXC Technology played an integral role in implementing a modernized ANPR system for the Netherlands government that is meeting its goal of ensuring smooth and efficient border crossings.

Client
Royal Netherlands Marechaussee

Location
The Hague, Netherlands

Industries
- Public Sector
- Travel and Transportation

Offerings
- Application Development & Modernization
- AI & Data

The Royal Netherlands Marechaussee, commonly known as KMar, operates as one of the four branches of the Netherlands Armed Forces within the Netherlands Ministry of Defence. One of KMar's primary tasks is guarding the national borders with Belgium and Germany. The agency turned to DXC to support a significant upgrade of the vehicle monitoring component of its border control operations.

KMar's previous operating environment had shortcomings in performing essential tasks such as detecting cross-border criminal activities and coordinating effectively across agencies. For example, the agency wanted to enhance its ability to identify suspicious migration and organized crime patterns. The limitations of the legacy system also made it difficult to operate under stringent legal, privacy and oversight requirements.

Specifically, KMar sought to improve the following deficiencies:

- Fragmented, nonintegrated surveillance systems
- Manual data processing and limited operational insight
- Absence of continuous monitoring across key border-crossing points
- Lack of rapid alerts to identify vehicles or activities of interest
- Limited intelligence-led enforcement and predictive analysis

DXC-built solution addresses border security challenges

To address the border control challenges faced by KMar, DXC designed, built and modernized an advanced ANPR monitoring system called @MIGO-BORAS, which is a Dutch–English acronym for Automatic Mobile Information Controlled Action — Better Operational Results and Advanced Security.

The @MIGO-BORAS platform can process data from a variety of sensors in real time, making sure that potential suspects can be identified and stopped promptly. @MIGO-BORAS does so by aggregating and processing raw sensor data, including license plate information, asynchronously and efficiently.

The platform's smart sensors consist of more than 100 ANPR and AI-enabled cameras. A central intelligence platform exists with a secure, military-grade infrastructure. The platform's edge processing capabilities means the heavy lifting of image analysis and character recognition takes place on the edge device rather than a central server.

Effective privacy and data-protection controls are essential to the success of any border security platform. Built-in audit trails are helping KMar meet its governance and privacy assurance goals. The platform operates within clear governance models with clearly defined user policies and role-based access.

Modernized platform delivers improved border security

DXC has helped KMar and the Netherlands government achieve their goals of improving the national security posture. In addition to providing stronger coordination between agencies, the @MIGO-BORAS platform is enabling KMar to succeed as an information-led operation, while helping to reduce operational costs.

With @MIGO-BORAS, KMar's around-the-clock border surveillance capabilities have been significantly enhanced. Other key benefits the DXC-built ANPR platform has delivered include:

- Real-time visibility of vehicle movements across borders
- Rapid alerts of vehicles of interest
- Lawful, auditable and secure processing of surveillance data
- Improved coordination across defense, policing and intelligence organizations

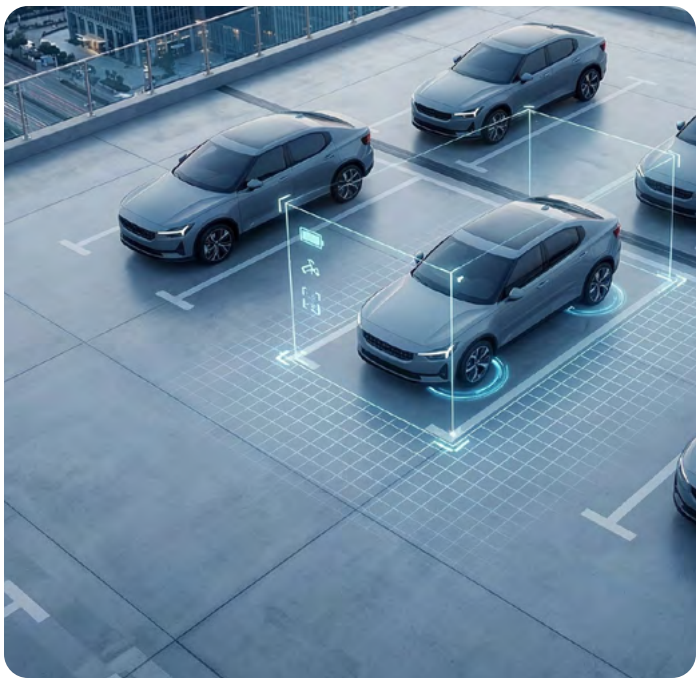
The @MIGO-BORAS platform is closely integrated with the Netherlands' national defense and policing workflows, enabling effective multiagency collaboration. The system is fully scalable and modernized to take advantage of new technologies and best practices.

The big picture

AI-enhanced border security platforms help government agencies identify potential criminals and keep the public safe. DXC's expertise in ANPR systems and advanced border security is helping the Netherlands government operate a national-scale surveillance ecosystem that promotes border security while increasing interagency collaboration.

Go deeper

- Migrate to proven DXC technology for all your ANPR challenges
- Read the paper: How advanced technology can empower smart border checkpoints
- Learn more about DXC's services and solutions for the public sector
- Get the latest on DXC's technology solutions for the travel and transportation industry



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