



# **Integrated Government: Border, Customs, Tolls, and Domestic Policing Through Traffic and Vehicle Analytics**

A DXC Technology White Paper for Public Sector Officials and Police Forces





# Introduction

## The Imperative for Integrated Government Enforcement.

Modern governance demands a holistic approach to public services and security. Government agencies, whether focused on border control, revenue collection (e.g., road tolls), infrastructure management, or domestic policing, increasingly find their missions intersecting. Historically, these critical functions have operated within departmental silos, each with its own data systems, operational procedures, and enforcement mechanisms. This fragmentation often leads to inefficiencies, duplicated efforts, inconsistent intelligence, and missed opportunities for collaboration, ultimately impacting public safety, economic stability, and citizen trust.

DXC Technology recognizes that the future of effective governance lies in integration. We understand that traffic and vehicle analytics can serve as a unifying backbone, aligning the diverse needs of multiple government agencies. By converging data and intelligence, we can move beyond fragmented responses to create a truly "Integrated Government" capability, enabling more proactive, efficient, and intelligent enforcement.

# The current landscape

## Siloed Operations and Missed Opportunities

Across nations, the challenges stemming from fragmented government enforcement are pervasive:

- **Border Crossing (Customs and Immigration):** Agencies responsible for national borders face immense pressure to manage vehicle and goods movements efficiently while preventing illegal activities, illicit trade, and unauthorized entry. Manual inspections are resource-intensive and prone to human error. Without real-time, comprehensive vehicle data, identifying high-risk vehicles or correlating cross-border movements with criminal intelligence becomes a significant challenge, as observed in the pre-2010 environment of the Netherlands' Amigo BORAS system.
- **Revenue and Customer Management (Tolls, Registration, Compliance):** Authorities overseeing road usage charges and vehicle registration contend with revenue leakage due to evasion, and complexities in enforcing compliance across vast networks. Processing millions of vehicle passages daily, as seen with Norway's Toll Customs, demands robust automated systems. Fragmented data hinders the identification of serial non-payers or unregistered vehicles that may also pose broader security risks.
- **Road Tolls and Infrastructure Management:** Agencies responsible for national infrastructure require continuous monitoring to ensure road safety, manage traffic flow, and protect assets from damage, such as from overloaded vehicles. Dynamic speed limits, congestion management, and targeted interventions for infrastructure protection are difficult without integrated, real-time traffic data and insights from technologies like Weigh-in-Motion (WIM).
- **Domestic Policing:** Law enforcement agencies rely on accurate, timely intelligence to combat crime, manage traffic violations, and ensure public order. However, fragmented systems limit their ability to conduct "information-led operations," correlate vehicle data to uncover organized crime patterns, or rapidly intercept persons or vehicles of interest. The lack of an automated capability for continuous monitoring and rapid alerting forces a more reactive stance.

In essence, these distinct governmental functions often address different facets of the same underlying data – vehicle movements. The inability to seamlessly share, analyze, and act



upon this data in a coordinated manner represents a critical operational and strategic gap in today's public sector.

## The future market

### Converged Intelligence for Proactive Governance

The market is rapidly evolving towards integrated solutions that leverage advanced analytics to bridge these operational gaps. The future of government enforcement will be characterized by:

- **Data-Driven Convergence:** The central tenet is the creation of a unified data ecosystem where all vehicle and traffic-related data, from ANPR reads to WIM measurements and speed detections, feeds into a common intelligence platform. This will allow customs, revenue, road authorities, and police to draw from the same wellspring of validated information, providing a holistic view of vehicle movements across borders and domestic networks.
- **Predictive and Prescriptive Analytics:** Beyond merely detecting violations, future systems will employ advanced AI and Machine Learning (ML) to identify patterns, detect anomalies, and predict potential threats or non-compliance. This enables targeted, intelligence-led interventions, moving agencies from reactive policing to proactive risk management and "arrest on demand" capabilities.
- **Seamless Interoperability and API-Driven Architectures:** Future success hinges on open standards (e.g., DATEX II, BOF, UTMCI) and robust API-driven integration. This allows real-time, secure data exchange between diverse systems, breaking down silos and fostering cross-agency collaboration without compromising individual mandates or data sovereignty.
- **End-to-End Automation with Legal Integrity:** Increased automation of detection, validation, and evidence generation will significantly reduce manual workloads (up to 90% automation for some violations). Crucially, this automation will be underpinned by rigorous legal metrology, certified workflows, and auditable evidence chains, ensuring that all actions are legally defensible and compliant with privacy regulations like GDPR.
- **Enhanced Situational Awareness via Edge Computing:** Edge computing applications will process data closer to the source, reducing latency and enabling real-time incident detection and dynamic enforcement. This will provide unparalleled situational awareness, allowing agencies to respond instantly to emerging threats or rapidly changing traffic conditions.
- **Strategic Resource Optimization:** By automating routine tasks and providing predictive insights, integrated systems will free up valuable human resources, allowing public sector officials and police forces to focus on complex investigations, strategic planning, and community engagement.

## DXC Technology's Approach

### Enabling the Integrated Government Vision

DXC Technology is uniquely positioned to empower governments in this transition. Our strategy and the proven capabilities of our technologies, alongside strategic partners such as Myriade NV, are designed to meet the current and future demands of integrated government enforcement:

- **Foundation in Advanced ANPR:** Our highly accurate (1:40k recognition error tolerance) ANPR capabilities serve as the primary data collection tool, providing the foundational



vehicle identity and movement data critical for all agencies, whether at borders, toll points, or domestic roads.

- **Modular and Comprehensive Data Collection:** We integrate diverse enforcement modalities (such as speed, red-light, and Weigh-in-Motion (WIM)) ensuring a comprehensive data capture. WIM, for instance, provides vital data for road infrastructure protection (road authorities) while simultaneously identifying potentially illicit cargo (customs/policing).
- **Centralized Analytics and Seamless Integration:** This is where true integration occurs. Our secure network backbone, leveraging edge computing and centralized processing, consolidates data from all sources. Adherence to standards like DATEX II and API-driven architectures ensures real-time data ingestion and two-way communication across diverse government systems. This enables customs, police, and road authorities to access and act on a unified intelligence picture.
- **Transforming Data into Shared Intelligence:** DXC's data mining and investigative analytics convert raw operational data into actionable intelligence. This means border agencies can track migration patterns, revenue agencies can identify compliance risks, and domestic police can correlate vehicle data to uncover organized crime, all from a common, trusted source.
- **Built-in Legal Metrology and Data Governance:** Our solutions prioritize legal defensibility and privacy. Rigorous validation processes, automated auditing, and GDPR-compliant data handling ensure that all shared intelligence is accurate, accountable, and legally sound, fostering trust across collaborating agencies.
- **Future-Ready and Scalable:** DXC's commitment to continuous innovation through AI/ML enhancements, scalable cloud deployments, and smart city integration ensures our solutions evolve with the ever-changing needs of government. Our systems are proven to be resilient, offering high uptime (99.9%) and rapid processing (sub-four seconds from detection to alert).

## Conclusion

The vision of an Integrated Government, where the needs of border control, revenue collection, road infrastructure management, and domestic policing are seamlessly aligned, is not just aspirational – it is achievable. By leveraging advanced traffic and vehicle analytics, government agencies can overcome fragmentation, optimize resource allocation, enhance public safety, and deliver more efficient services.

DXC Technology stands as a leading partner in this transformative journey. Our comprehensive, integrated, and future-ready enforcement solutions are purpose-built to meet the complex demands of today's public sector and anticipate tomorrow's challenges. We empower governments to create intelligent, responsive ecosystems that truly embody the principle of integrated governance, fostering safer, smarter, and more efficient nations.



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William is a senior manager in DXC's Public Sector business in the UK. His career in citizen safety includes holding responsibility for services and systems in welfare protection, border security and police.

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Pim is CTO of DXC's Internet of Things and AI technologies based in the Netherlands. He has been responsible for DXC's ANPR implementations in Norway, Ireland, Belgium and in the Netherlands where DXC invented the world's first average speed camera system.

**Jan Meermans** • CEO Myriade NV

Jan is the CEO and owner of Myriade NV, a Belgium-based company with more than 30 years of expertise in digital asset management.

Since 2007, Myriade has been developing and operating metaBOF™, an AI-powered ANPR platform. Today, metaBOF™ has the largest customer base worldwide and is fully technology-agnostic.

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**About DXC Technology**

DXC Technology (NYSE: DXC) is a leading enterprise technology and innovation partner delivering software, services, and solutions to global enterprises and public sector organizations — helping them harness AI to drive outcomes at a time of exponential change with speed. With deep expertise in Managed Infrastructure Services, Application Modernization, and Industry-Specific Software Solutions, DXC modernizes, secures, and operates some of the world's most complex technology estates. Learn more on [dxc.com](https://dxc.com).

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