



Bulgarian Customs  
Agency

# 2026 WCO Technology Conference & Exhibition

## Smart Scanners, Secure Borders: X-ray Innovation Driving Agile Customs

100 % X-Ray Control on BG External Borders  
for Efficient Customs Control and  
Risk Analysis

28 – 30 January 2026, Abu Dhabi, United Arab Emirates

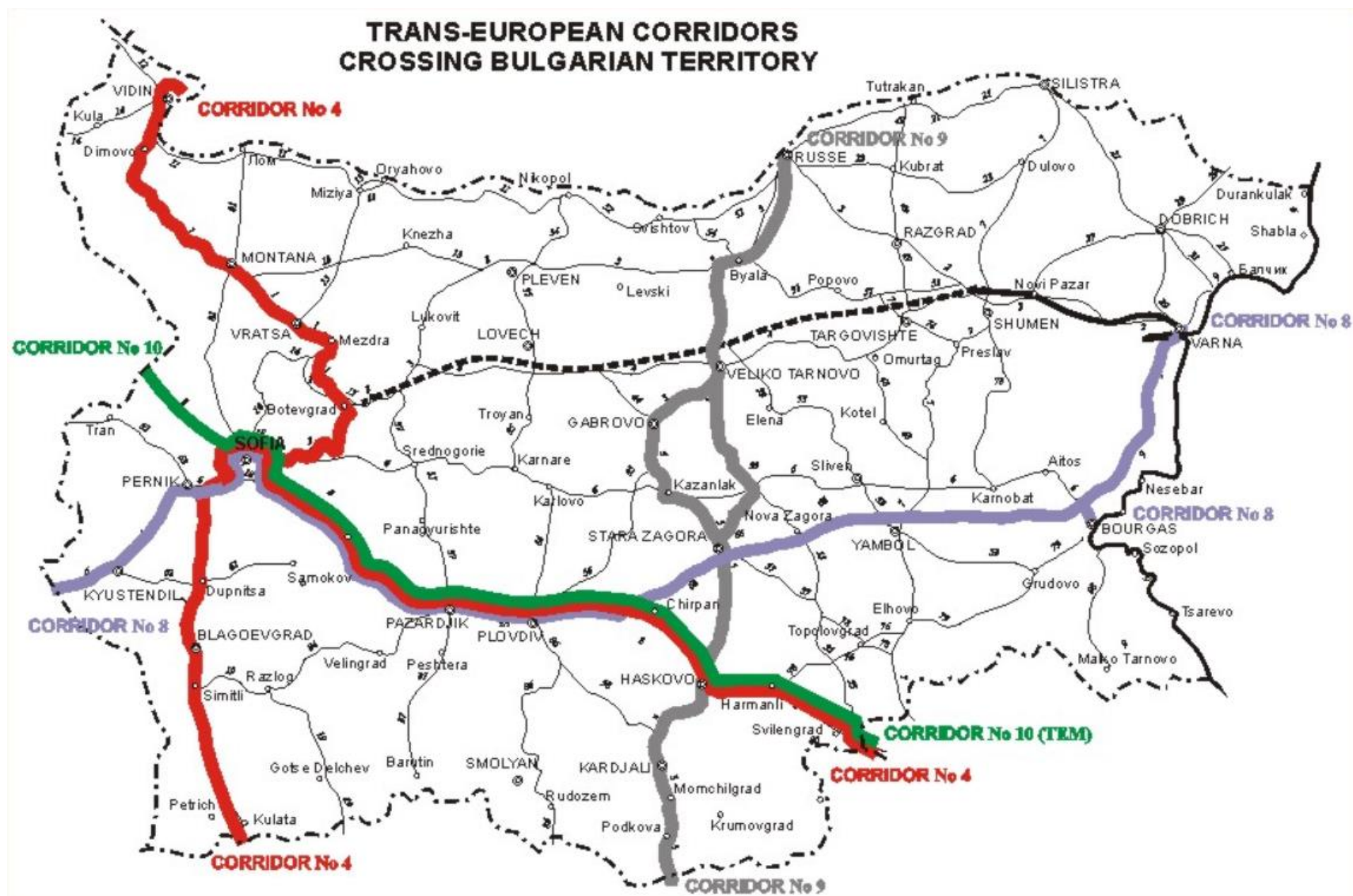


1. Trans-European Corridors
2. Current Challenges in Trade and Logistics
3. Objectives, BG Customs Initiative
4. Bulgarian Customs ecosystem
5. 100 % X-Ray Control on BG External Borders
6. System Solution Features
7. CONOPS
8. Proof of Concept
9. Further AI development



# TRANS-EUROPEAN CORRIDORS

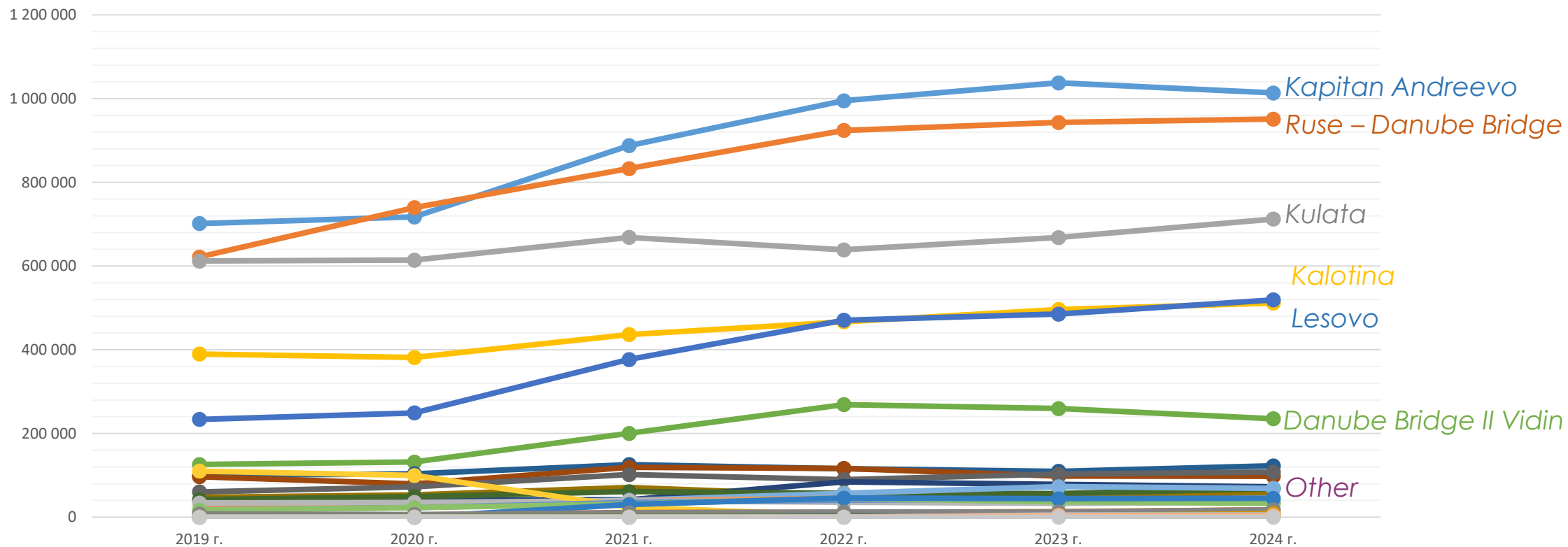






# CURRENT CHALLENGES IN TRADE AND LOGISTICS

## Heavy goods vehicles traffic growth during 2019 - 2024



The average growth rate of trucks passing through the 15 busiest BCPs over the last 6 years is 45.2% or an average of 9.04% per year. In 2024, 4.6 million trucks passed through the 15 busiest BCPs.



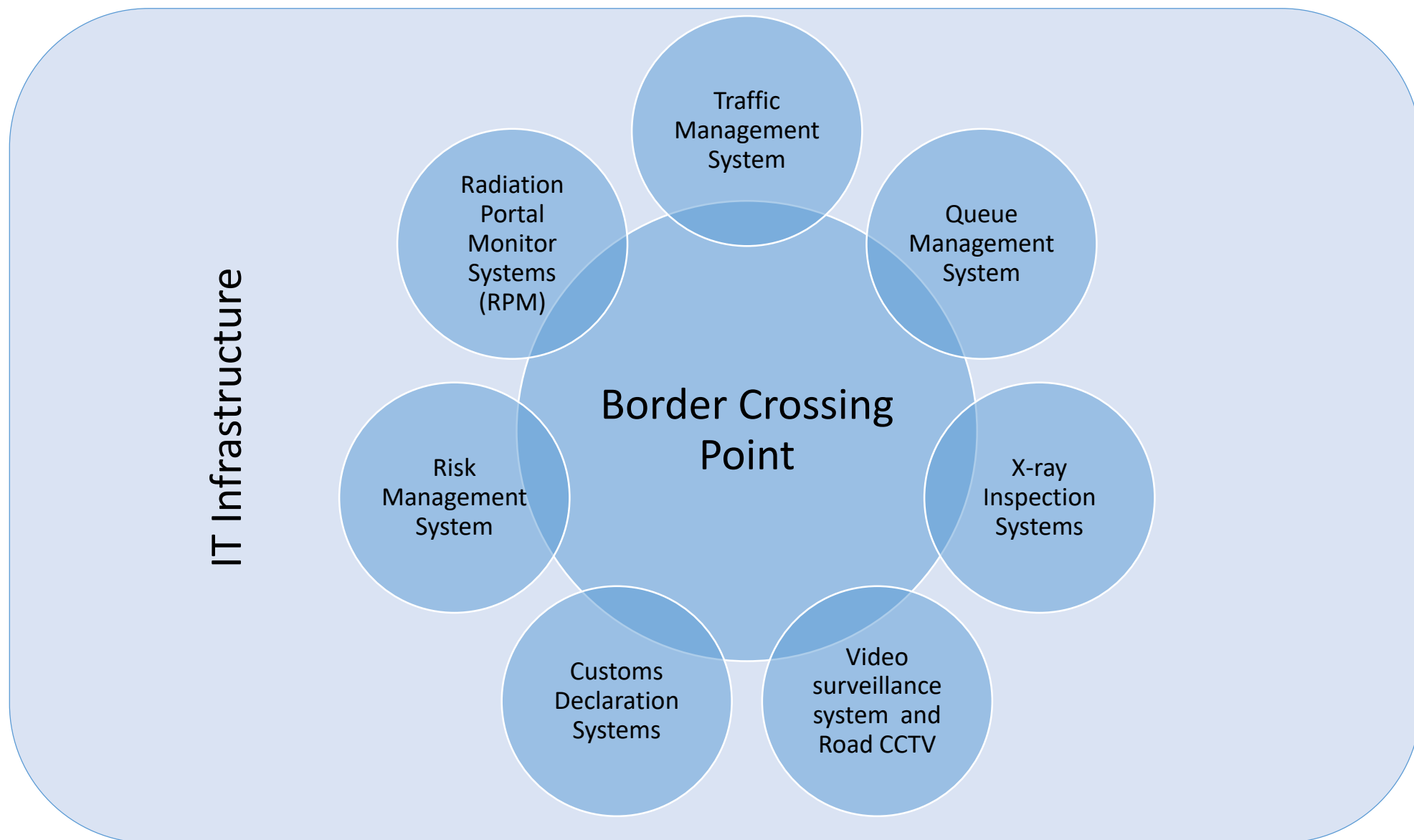
If the trend persists, it is expected that in 2029 almost 10 million freight vehicles per year will pass through these BCPs.



- ☐ Enforcing customs legislation and combating cross-border crime
- ☐ Implementing Integrated Border Management
- ☐ Supporting real-time risk analysis and more efficient border inspections
- ☐ Facilitation of legitimate trade
- ☐ Development of interoperable IT systems and data exchange



- ❑ 100% scanning for heavy truck vehicles on external borders
- ❑ Fast and efficient detection equipment (scanners, truck scales) to allow for real-time data acquisition
- ❑ General System Integration for e-customs environment creating a seamless digital ecosystem
- ❑ AI solutions for optimal decision making, based on experience and pre-learning by the systems on real data





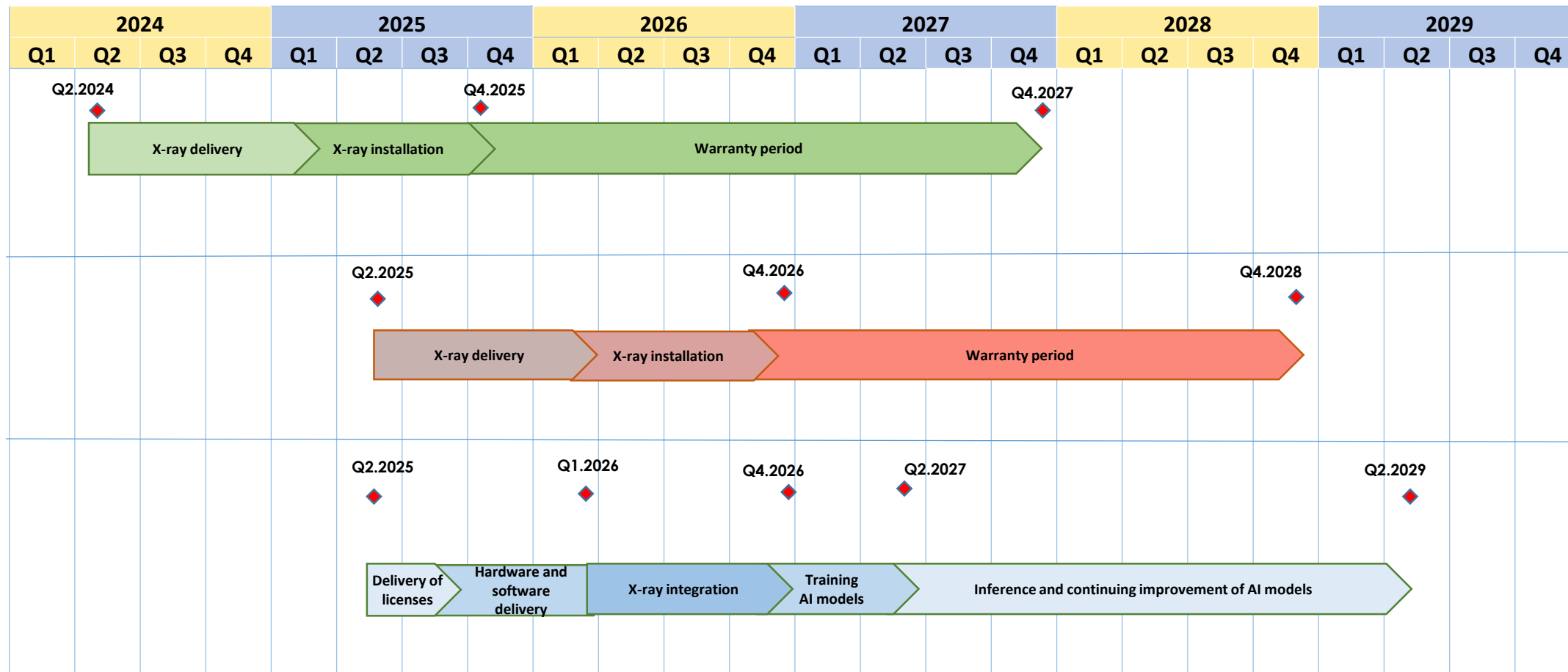


# 100% X-RAY CONTROL ON BG EXTERNAL BORDERS

Phase 1  
X-Ray  
equipment

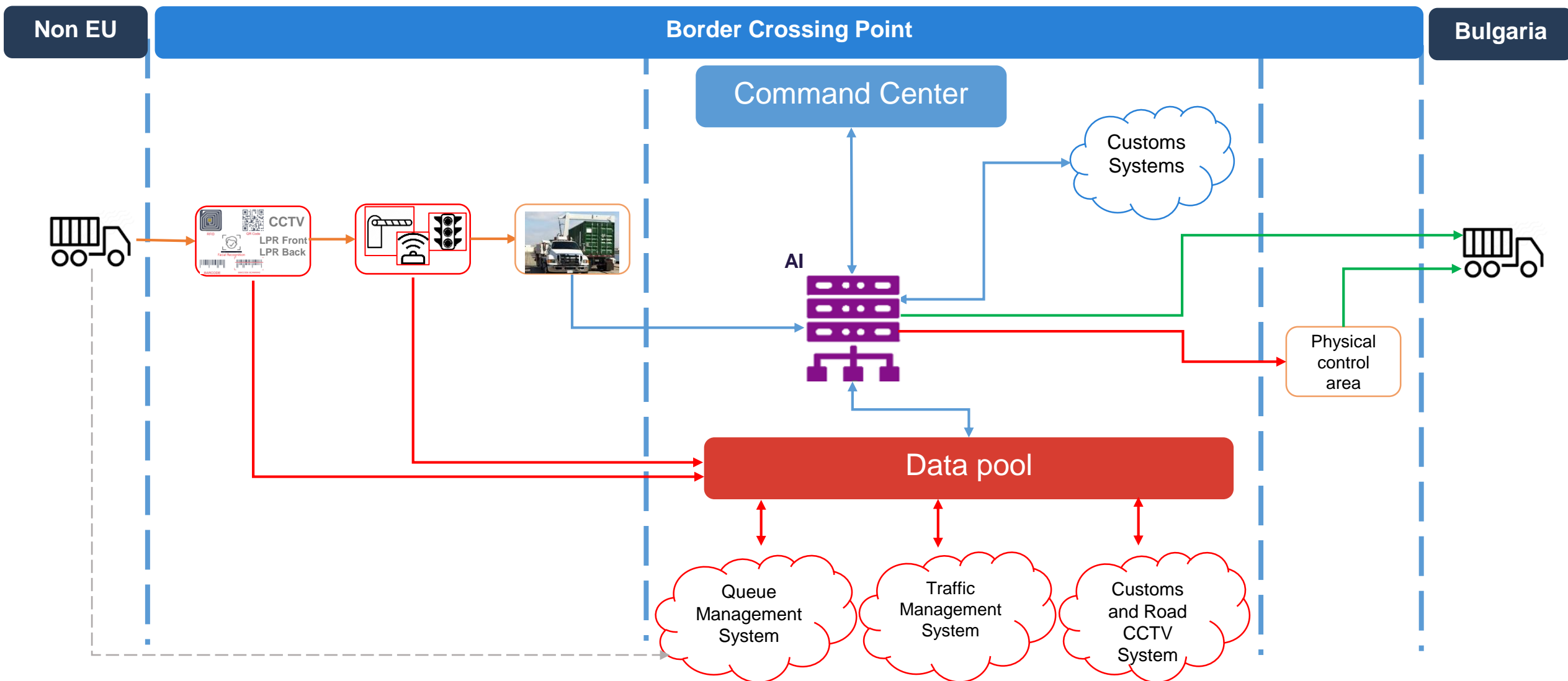
Phase 2  
X-Ray  
equipment

Phase 3  
AI Images  
recognition






- ❑ High Performance Modular Open Architecture
- ❑ AI-Based Threat Algorithms
- ❑ AI Image Analysis
- ❑ Access Management Integration
- ❑ Rich Image Analysis, Metadata and Search Feature Set
- ❑ Integration to BCA IT Infrastructure





## Results


Confidence threshold ⓘ 0.5 ————— 1



^ A cigarettes 1 objects - 0.994

A1 cigarettes 0.994 -

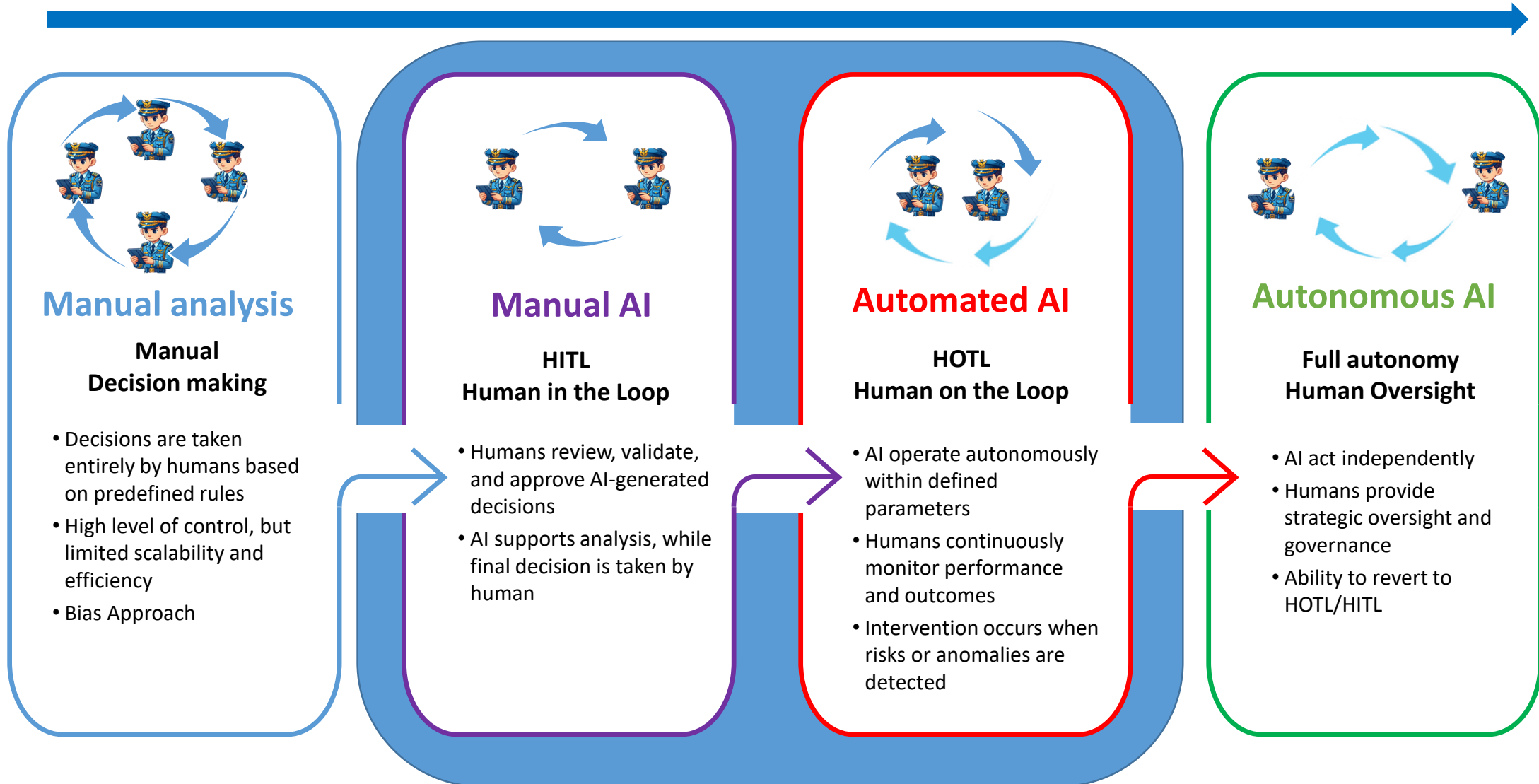
Zoom



- ● ———— + 0 Zoom ▾



## Framework For Decision-making And Oversight





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Agency

Thank you for your attention!

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Kolyo Kolev  
Chief Information Officer  
Bulgarian Customs Agency  
E-mail: [CIO@customs.bg](mailto:CIO@customs.bg)