



Bulgarian Customs
Agency

2026 WCO Technology Conference & Exhibition

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

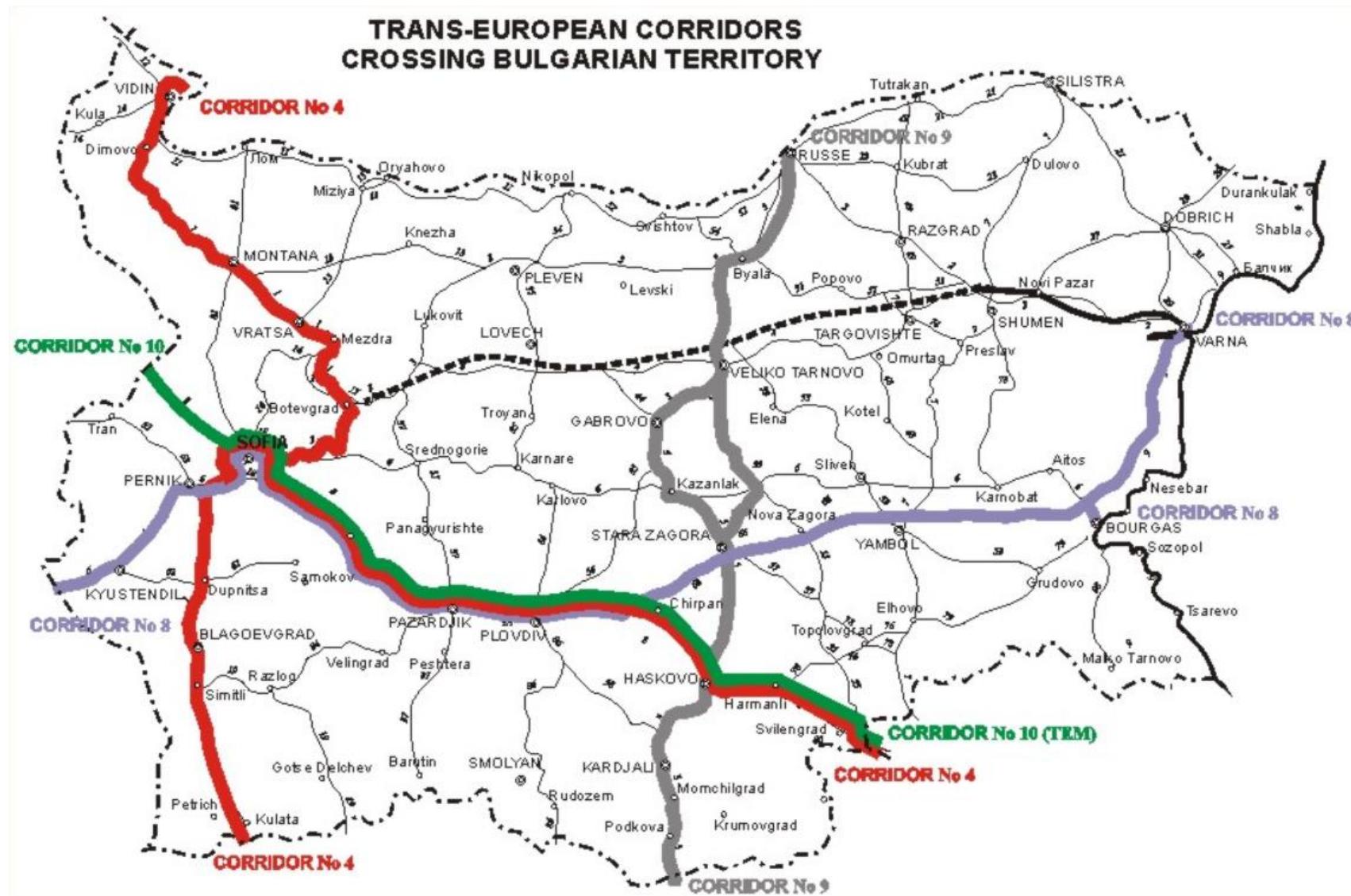
100 % X-Ray Control on BG External Borders
for Efficient Customs Control and
Risk Analysis

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

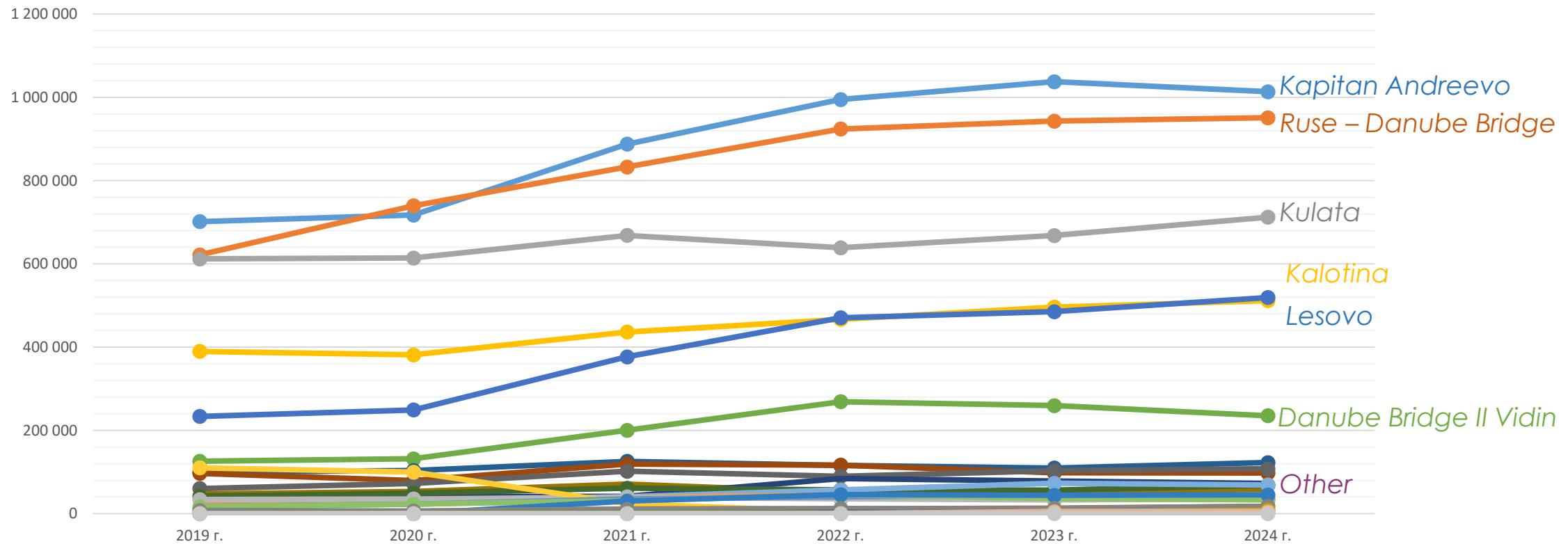


TRANS-EUROPEAN CORRIDORS



CURRENT CHALLENGES IN TRADE AND LOGISTICS

Heavy goods vehicles traffic growth during 2019 - 2024



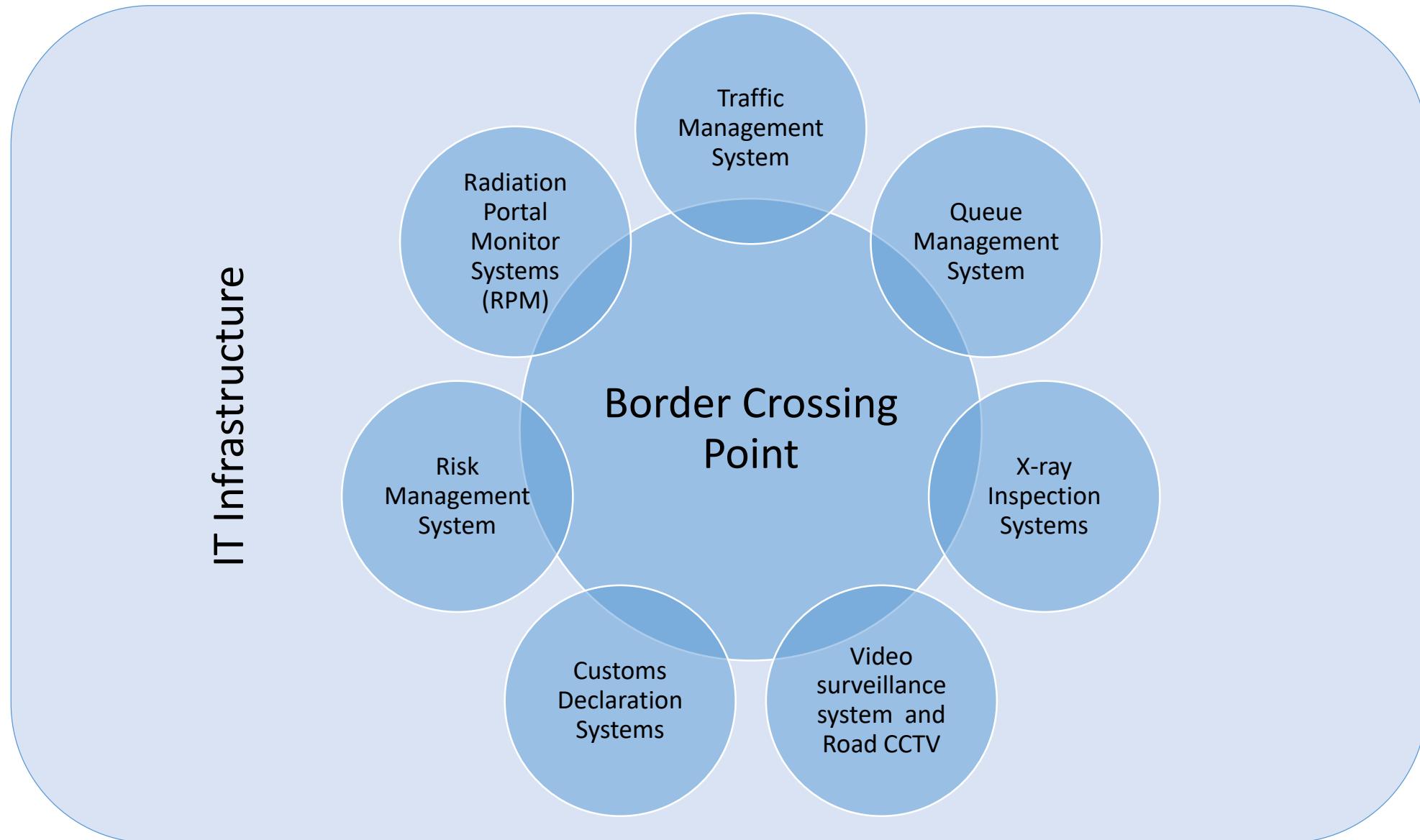
The average growth rate of trucks passing through the 15 busiest BCPs over the last 6 years is 45.2% or an average of 9.04% per year. In 2024, 4.6 million trucks passed through the 15 busiest BCPs.



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



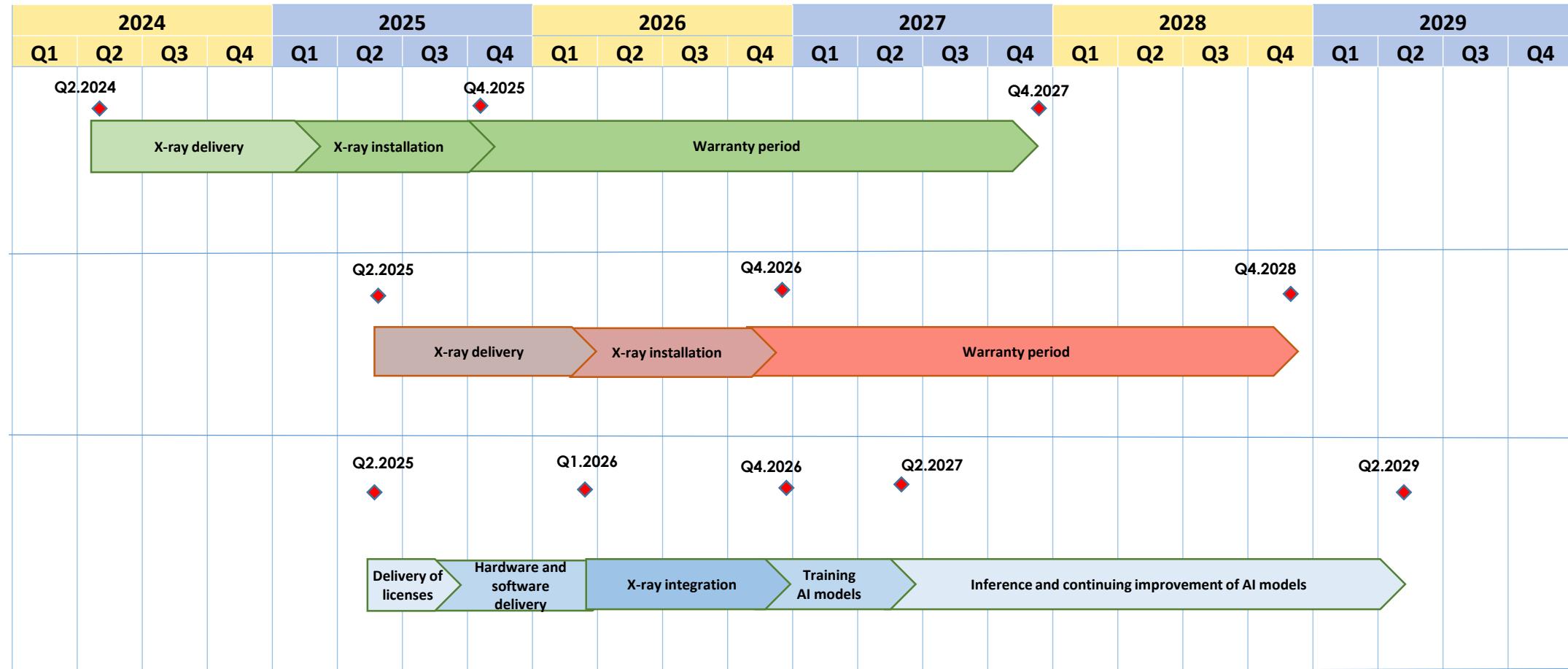


100% X-RAY CONTROL ON BG EXTERNAL BORDERS

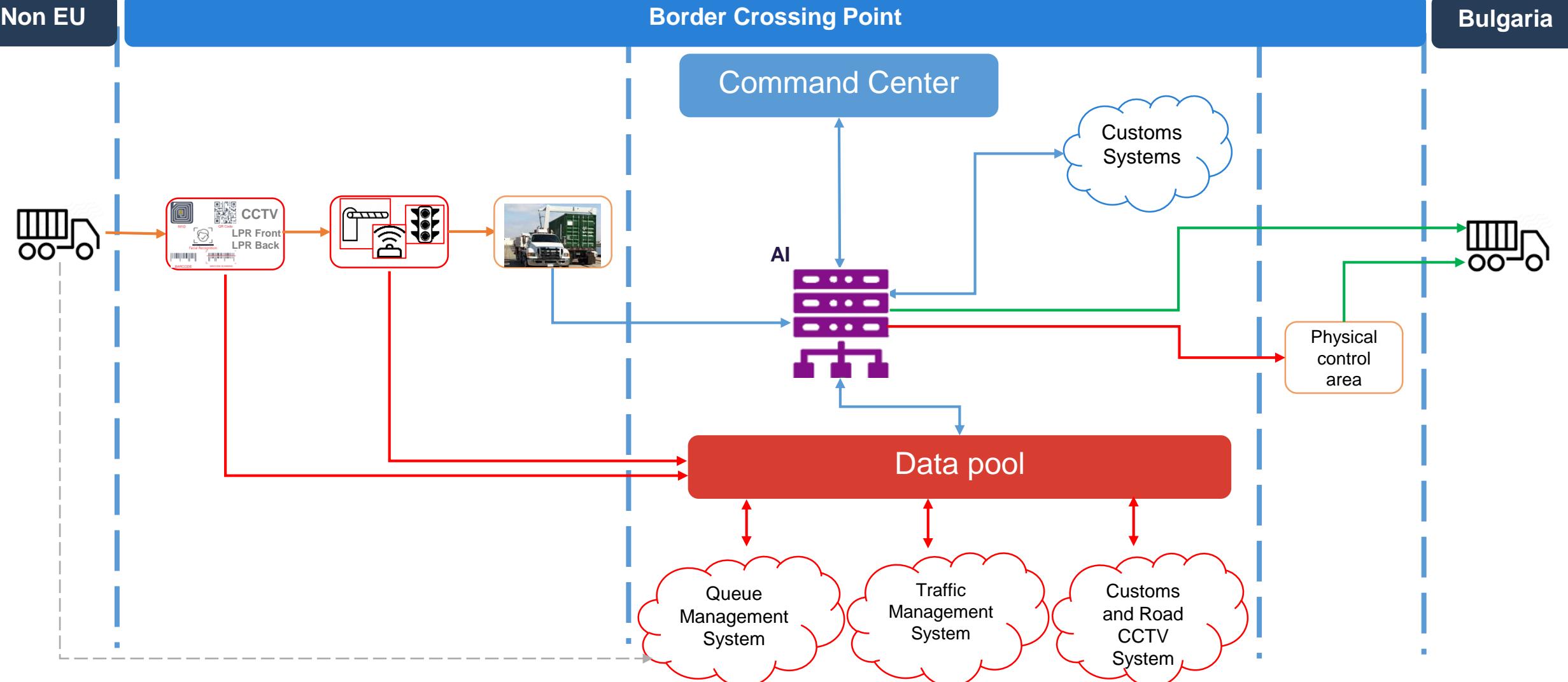
Phase 1
X-Ray
equipment

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



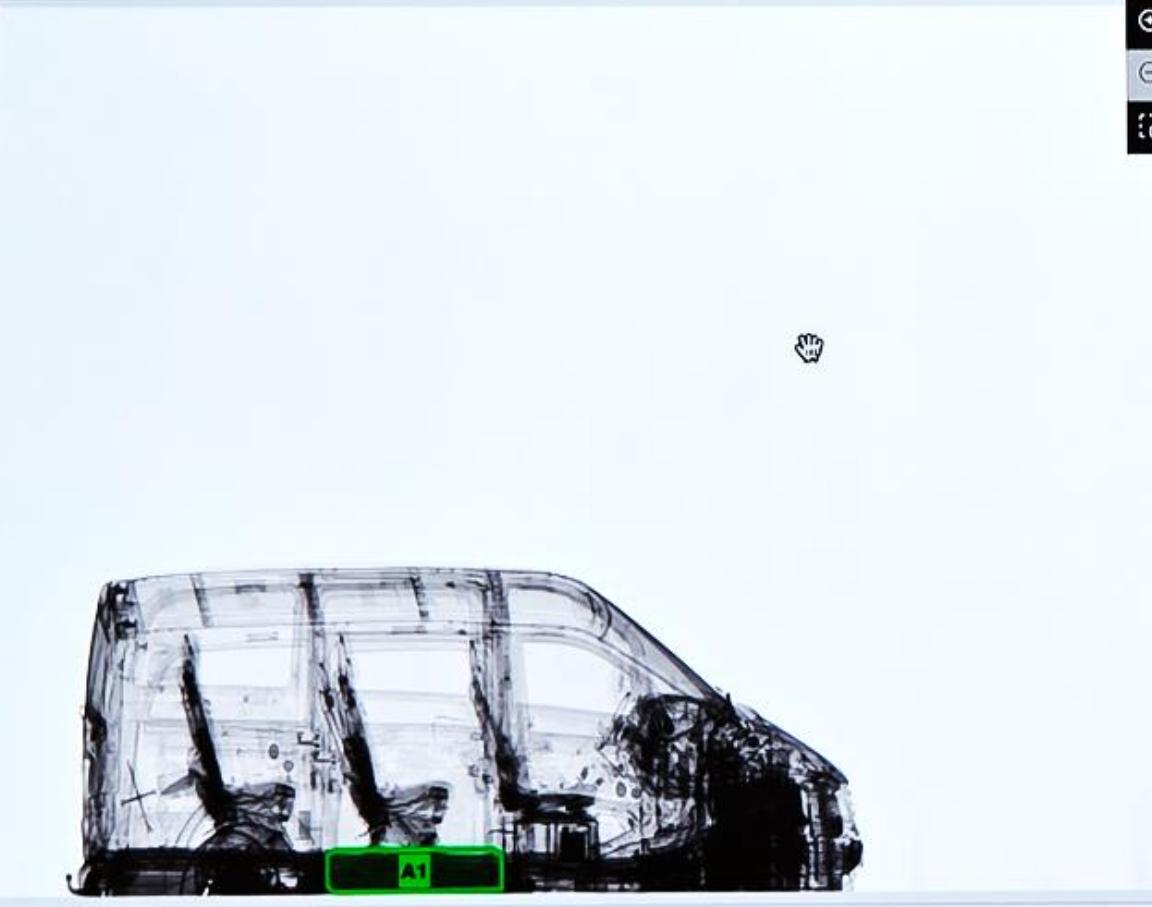


Results

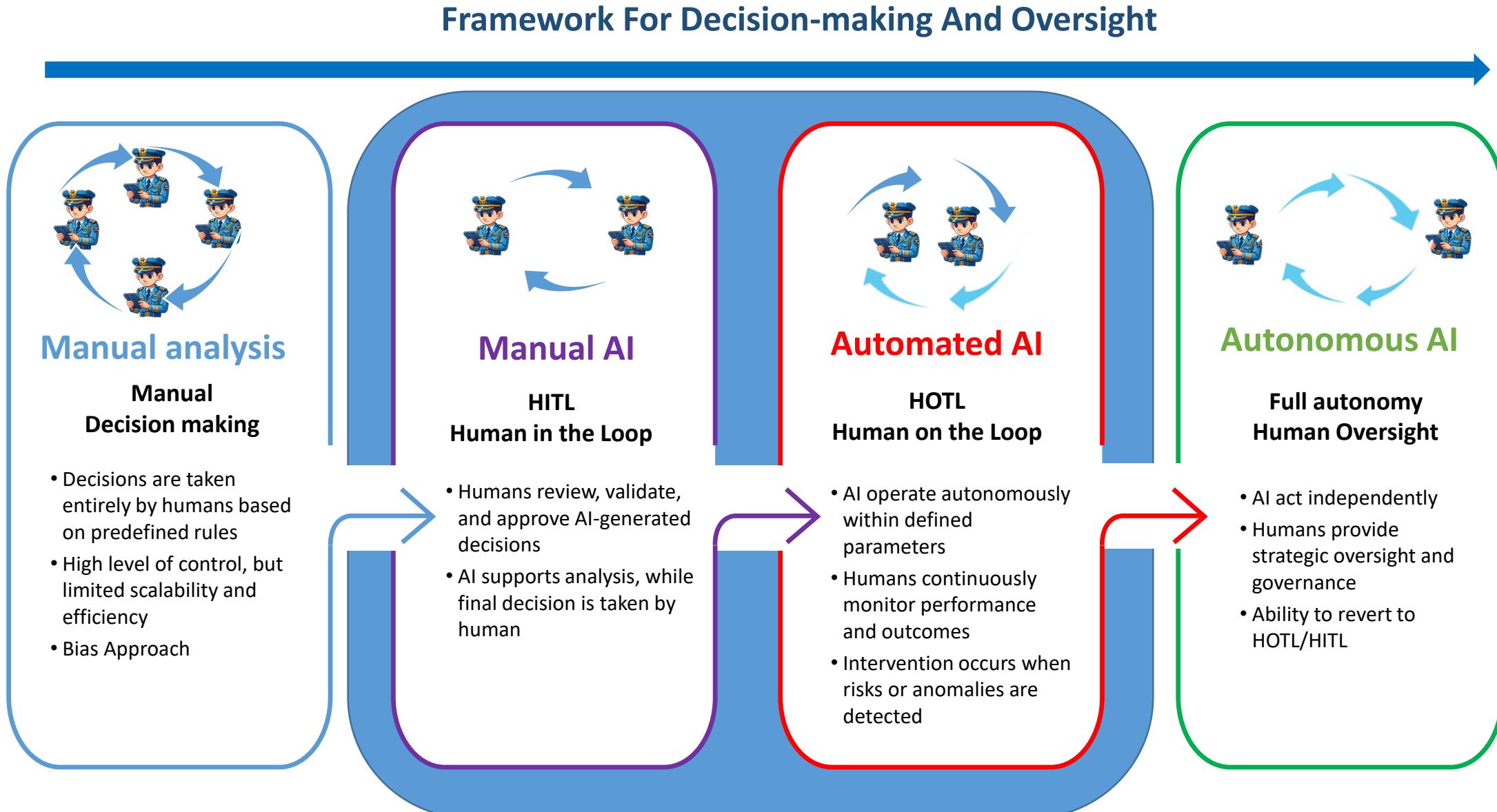
Confidence threshold 1

Objects	Result	Average
A cigarettes 1 objects	-	0.994
A1 cigarettes	0.994	-

Zoom



Zoom + -





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Thank you for your attention!

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