Press Release

November 2024

About FLEXI-cross

FLEXI-cross is a European initiative driving advancements in border security through cutting-edge technologies. Utilizing mobile, AI-driven systems for real-time monitoring, the project addresses the complexities of modern border control, prioritizing security and efficiency. BEIA Consult International, a leading Romanian telecommunications provider, is proud to contribute its expertise in telecommunications, IoT, and smart technology, supporting FLEXI-cross's vision for safer, more streamlined border operations across Europe.

FLEXI-cross Demonstrates Advanced Rail Border Security Solutions at Romania-Moldova Crossing

The FLEXI-cross project recently showcased its innovative border security technologies in a live demonstration at the Romania-Moldova rail crossing, focusing on advanced, portable border-check solutions. This event highlighted Use Case #3, a comprehensive, mobile system for border security in rail environments, integrating state-of-the-art detection and identification modules with legacy systems to reinforce security and streamline operations at this strategic border.

Demonstrating Cutting-Edge Technology for Border Security

During the demo, the FLEXI-cross team showcased several core technologies designed to enhance the capabilities of border agents:

- Multimodal Pattern Detection: This module uses biometric recognition and real-time tracking, providing a robust system for identifying individuals and monitoring movement within rail areas.

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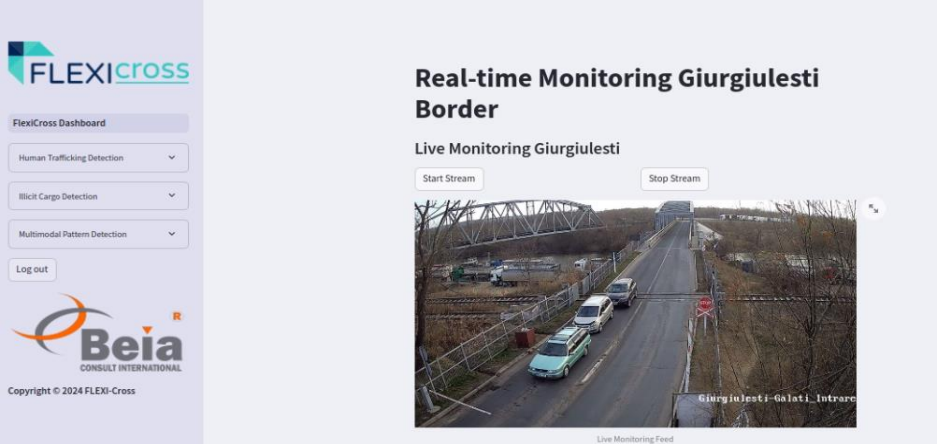
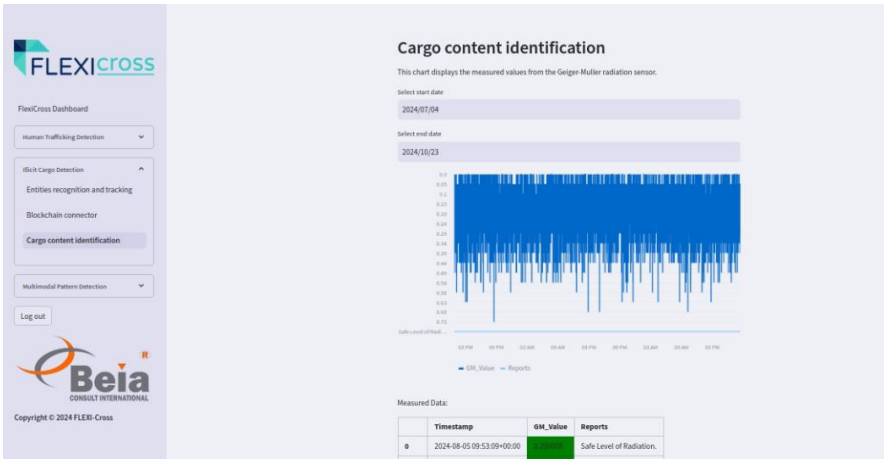


- Biometric Recognition: Using facial recognition, this module verifies identities quickly and securely by comparing document images with known profiles. If no match is found, the data is securely stored for future reference.

- Illicit Cargo Detection: The system can identify prohibited items within cargo, such as hazardous materials, with high precision. The detection module processes real-time data from radiation sensors, ensuring rapid assessment and response.



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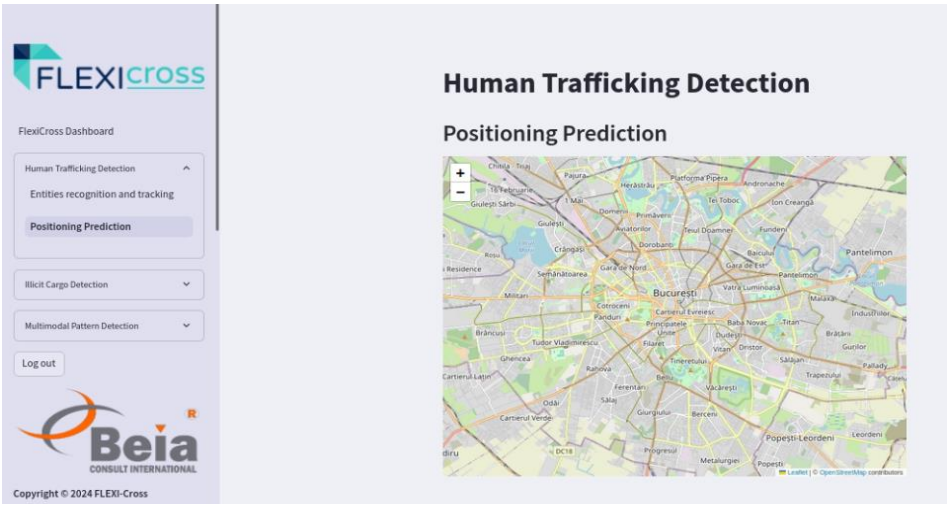
- Human Trafficking Detection: The Entities Recognition and Tracking module detects suspicious behaviors or individuals, providing timely alerts to border agents and enhancing response to potential human trafficking cases.

- Positioning Prediction: This module leverages audio and video analysis to predict and pinpoint suspicious activities, offering heightened situational awareness for agents and improving operational efficiency.



Why This Demonstration is Important

The recent FLEXI-cross demonstration at the Romania-Moldova border is a significant milestone for European border security. By testing the modules in real-time and under real-world conditions, the FLEXI-cross project validated its technologies' effectiveness in detecting security threats and expediting border checks. This successful demo moves FLEXI-

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cross closer to its goal of a portable, AI-driven border solution that meets stringent European security standards.

Looking ahead

Following this demonstration, the FLEXI-cross team will continue refining these modules to further optimize performance and integration with current systems. Future development will focus on enhancing the system's AI capabilities, improving user interfaces for ease of use, and conducting additional tests to ensure robustness across various conditions. FLEXI-cross aims to deploy a fully functional, secure, and adaptable solution for rail borders and beyond, supporting border security efforts across Europe.

For more information about the project can be obtained from the project website and social media networks.

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