



MINISTRY OF ECONOMY
AND DEVELOPMENT



CAREC Roundtable Series on Emerging Regional Trade

Transportation, and Logistics Landscape: Supply Chain Connectivity and Resilient Border Operations in the CAREC Region and Beyond
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Panel Session 3: Regional cooperation priorities and options to ensure supply chain sustainability and resilient border operations

Options to facilitate border crossing and operations

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Options to facilitate border crossing and operations

- Joint operations: integrated border management (IBM) and combined border management (CBM) plus joint inspection teams. Getting the different border agencies to work together is a challenge.
- Mutual recognition: the authorized economic operator (AEO) is expensive to carry out. Countries must recognize the AEO certificates issued by other countries.
- Some Customs administrations use risk management to scan all imports. Scanning all imported containers is not trade facilitation.

What are the solutions to facilitate border crossing operations?



Border crossing operation solutions

We should not design border crossing layouts for today's traffic levels. Instead, we must design them based on future traffic forecasts.

During the next 20 years, we expect border crossings will become seamless, contactless, and paperless.

How can we achieve seamless, contactless, and paperless border crossings?



Border crossing operation solutions

SMART transport corridors:

container tracking technology using an RFID (Radio Frequency Identification) based tracking solution to ensure the integrity of the containers from the point of origin to the border crossings and the point of destination.

The RFID tag can be tracked using GPS technology.

Border crossing operation solutions

SMART Gates:

Weigh-in-motion (WIM) scales and automatic vehicle registration number plate readers to record registration and container numbers automatically at integrated checkpoints (ICP).

Integrated Check Points (ICP) should include Border Control, Immigration, Customs, Phyto-sanitary staff, and the Ministry of Health.

The SMART Gate or ICP must have several entry and exit lanes so that preference can be given to trusted trader vehicles, trucks with electronic pre-declaration (EPD), trucks with Pre-Arrival Processing (PAP), and trucks with perishable products and segregated traffic lanes for TIR and AEO trucks.

The ICP must have computer connectivity, and the agencies must exchange information.

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Border crossing operation solutions

SMART Processing:

A multi-agency services building where all border agencies are in a one-stop-shop (OSS) office space. The truck driver or customs broker clerk lodges the paper or electronic import declarations at “one window”.

There is no need to go from one border agency office to another – called “biegunok” in Central Asia.

The multi-agency services building must have a bank, ATM, internet, gender-friendly restrooms, cafes, and customs broker offices.

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Border crossing operation solutions

SMART inspection:

Goods, traders, some countries of origin, and transport companies with a determined risk level go to the X-Ray scanner.

Customs might carry out a Secondary inspection of documents or documents and a sample of the goods.

The samples should get scanned using a hand-held density meter or other devices.

Customs should have SMART testing laboratories with laboratory management systems (LMS).

A 100% physical examination facility is for goods and trucks selected for red channel intervention.



Border crossing operation solutions

SMART border crossing operations:

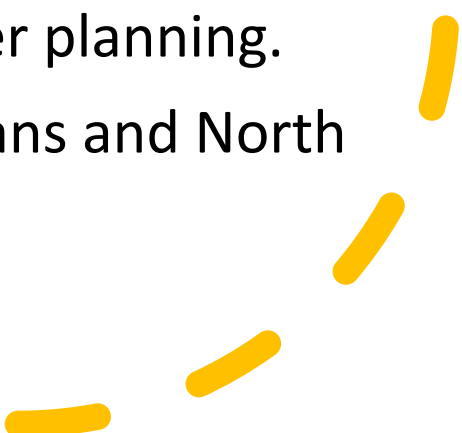
Customs must be able to track the movement of all vehicles and people inside the Customs Control Zone (CCZ) using CCTV.

In addition, Customs must monitor the queues of trucks waiting to get into the CCZ.

One method to minimise congestion is to use an electric Queuing Management System (e QMS).

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Electronic QUEUE MANAGEMENT SYSTEM

- Trucks at border crossings are processed on a first-come, first-served basis, which forces drivers to queue for hours or sometimes days near the border. This results in congestion and long queues of trucks.
 - Moving the queues into the virtual realm has meant that drivers arrive at the checkpoint at their appointed times and are processed quickly, with waiting times now averaging as little as 30 minutes. In addition to drastically improving the lives of drivers, the change has allowed logistics companies to save millions of Euros through better planning.
 - eQMS used in Estonia (Go Swift), Balkans and North America
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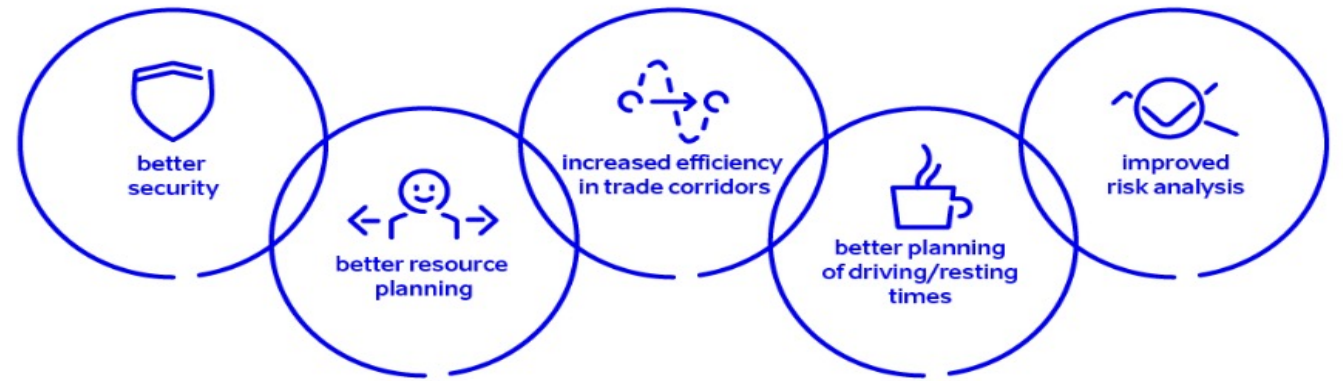
e QMS FEATURES

- Time-slot Booking
- Queueing Engine
- Monitoring
- Reporting
- Parking Area Management
- Access Control (integrated with ANPR cameras, stop bars, traffic lights and VMS)
- Call Centre Interfaces
- Self-service Terminals
- Payment Collection
- Data Analytics
- Data Integration

e QMS BENEFITS

- Elimination of days-long waits to cross border
- Spreads peak traffic over time
- Tourists and transport companies can effectively plan travel
- Truck drivers can better manage work and rest time
- Logistics companies save money through predictable scheduling – Estonian international carriers annually save 4M€ Value created
- More than 50 million hours saved in border waiting time annually (around from 60h to 1.5h per vehicle)
- Pre-registration increases border control efficiency
- Increase in exports
- No congestion on access roads

Border crossing operation solutions



BENEFITS WITH BORDER QUEUE MANAGEMENT SERVICE

Rahmat, Thank You

Spacibo, Rahmiet

Jan Tomczyk, FCILT, UK