Trade Facilitation at a Country Land Borders by Virtual Queue for Vehicles

Hannes Plinte – GoSwift
Situation in Estonia before 01.08.11
Trade Facilitation

Virtual queue instead of physical

• Drivers can plan their trip and book exact time for border crossing

• Drivers can wait away from the border and arrive just in time to the check-point

• Preliminary data can be used for risk analysis, profiling, resource planning
GoSwift video

- In English:
  http://youtu.be/mwY2bM6SSg8
After 01.08.2011 – GoSwift is up and running
Increase Security

Facilitate movement

Driver passport and visa information
Movement reference number
Registration data & metadata
Vehicle data
License plate

Safety and security for truck drivers
Lower cost of cross-border trade
Easy intra-regional movement
More tourism
## Impact by stakeholders groups

<table>
<thead>
<tr>
<th>Drivers</th>
<th>Safety, security, convenience</th>
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<tbody>
<tr>
<td>• Better planning of driving and resting time</td>
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<tr>
<td>• Better working conditions, better safety and security</td>
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<thead>
<tr>
<th>Carriers</th>
<th>Profitability, reliability</th>
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<tr>
<td>• Higher truck and driver utilisation rate</td>
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<tr>
<td>• Just-In-Time cross border logistics</td>
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<tr>
<td>• Support creation of value added logistics services</td>
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<table>
<thead>
<tr>
<th>Traders</th>
<th>Competitiveness</th>
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<td>• Reduces cost of transport along the corridor, increase predictability</td>
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<tr>
<td>• Reduces excessive inventory costs</td>
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<tr>
<td>• Increase of demand benefiting other corridor nodes (e.g. ports)</td>
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Impact by stakeholders groups

**Border police, customs**
- Predictability
  - Preliminary info about border crossings
  - Better planning of needed resources
  - Better working conditions, better safety and security

**Local population**
- Facilitation of movement, environment
  - Better living conditions
  - Local population can move more easily across the border
  - Support to intra-regional trade

**Ministry of Transport and Economy**
- Competitiveness, attractiveness, road management
  - Jobs creation for border crossing services
  - Increase in tourism, trade
  - Improvement of the road conditions near the border, increased road safety
Main achievement

Virtual border crossing traffic queue is implemented in 4 countries, at 9 border crossing points, 1.7 M vehicles annually.

Deployment

• 2011 – Estonia
• 2012 – Russia
• 2013 – Lithuania
• 2015 – Finland
Awards

- OECD International Transport Forum – Transport Achievement Award 2015
- World Summit Award – Global Winner 2013
- Baltic Innovation Award 2013 – one of the most innovative companies
- Estonian Best e-Service 2013 in Estonia, in e-governance category
Increase security

SwiftRoad® solution for:
- Border police
- Customs
- Transport agencies
- Local authorities
- Port authorities

Facilitate movement
Four-tier access control model

Pre-departure
- Pre-registration
- Just-In-Time planner

Pre-check
- Identification
- Waiting area management

Check assistant
- Border guard client
- Customs officer client

Post check
- Monitoring
- Reports

SwiftRoad® 4 tier model
PPP implementation

**PPP contract between GoSwift and the Ministry of Interior (Border Police)**
- Design of the service
- Deployment of the hardware and software
- Operation and maintenance

**Financing model**
- No financial cost for the State
- Fee charged per vehicle per booking
- Collaboration with private waiting area operators

**Other deployment schemes**
- Finland, Lithuania: service is free for users, mandatory for HGV only, financed by the state
- Pilot in Russia (2012-2013): Voluntary service use, financed by the State
GoSwift Research & Development

1) Automated Border Gates (ABG)
   - Biometric check for vehicles and passengers
   - Enables green corridor for trusted travelers
     - Border authorities have more time for others

2) GoData
   - Aim is to generate value out of a large amount of user related data collected
   - Risk analysis, User profiling, better prediction
eQMS
Take the place in the border queue.
Give the data of the vehicle, the cargo, drivers and passengers
Driver

Biometric technology (ABG)
- Identify driver, passengers and vehicle
- Drive to the waiting area of the border point
- Driver and passengers
- Vehicle
- ANPR/CCTV

Muon tomography (gScan)
- Scan for hidden peoples, weapons, explosives etc.
- Vehicle
- Driver and passengers

GoSwift
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