



# 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>



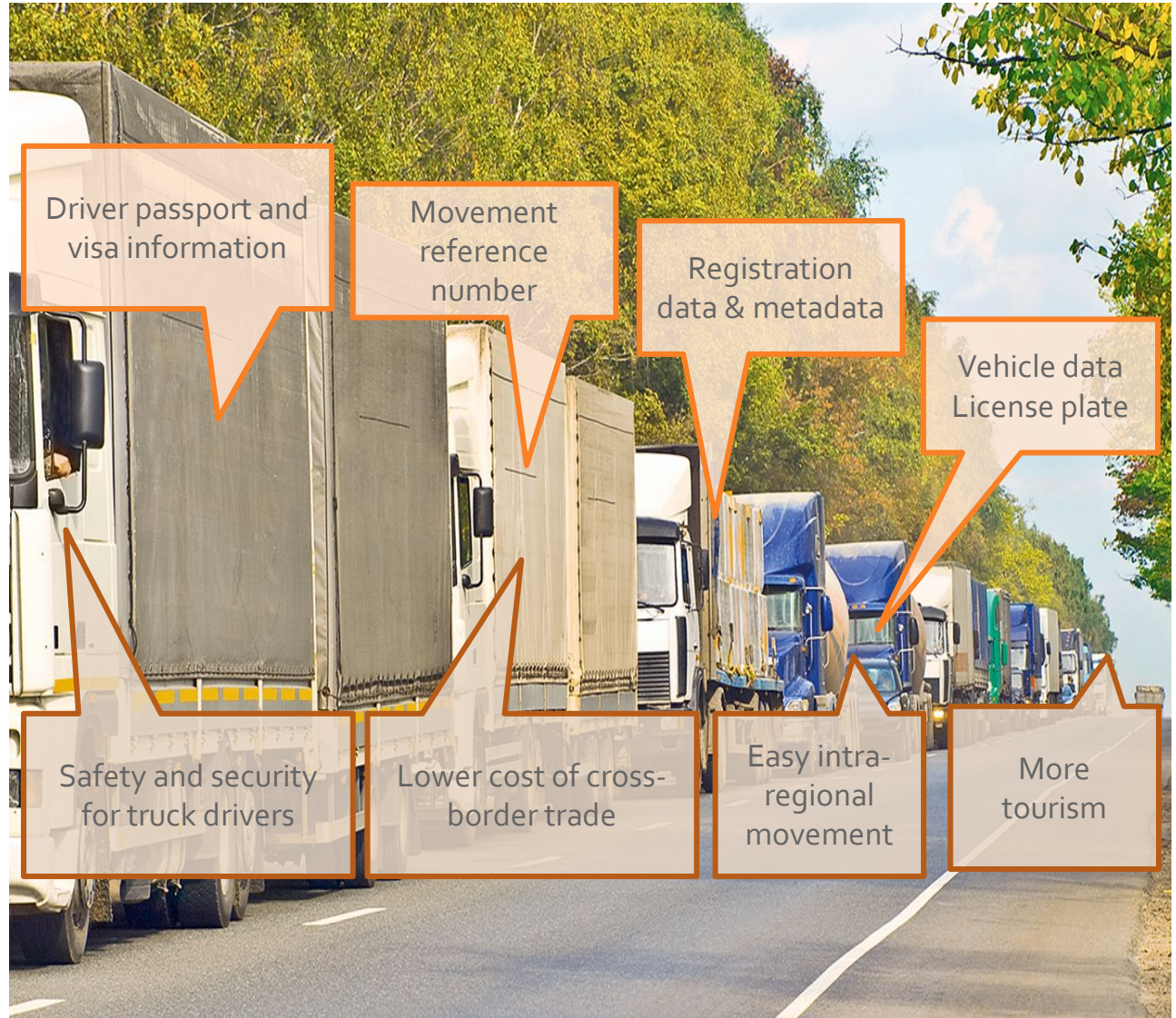
After 01.08.2011 – GoSwift is up and running





Increase  
Security

Facilitate  
movement



# Impact by stakeholders groups

## Drivers

### Safety, security, convenience

- Better planning of driving and resting time
- Better working conditions, better safety and security

## Carriers

### Profitability, reliability

- Higher truck and driver utilisation rate
- Just-In-Time cross border logistics
- Support creation of value added logistics services

## Traders

### Competitiveness

- Reduces cost of transport along the corridor, increase predictability
- Reduces excessive inventory costs
- Increase of demand benefiting other corridor nodes (e.g. ports)



# 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



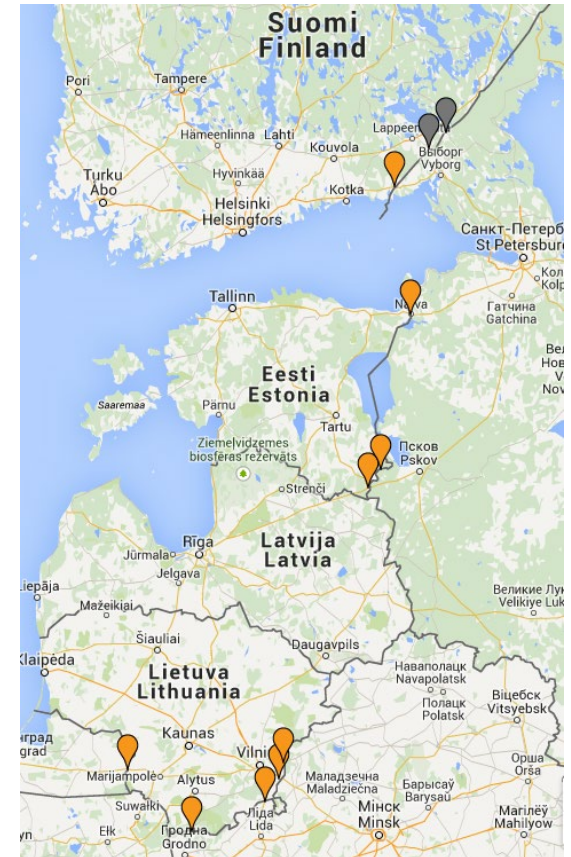


# Main achievement

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

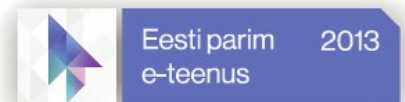
## Deployment

- 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



The diagram consists of three main elements arranged horizontally. On the left is a large orange arrow pointing to the right, containing the text 'Increase security'. In the center is a light orange rounded rectangle with an orange border, containing the text 'SwiftRoad® solution for:' followed by a bulleted list of five entities: 'Border police', 'Customs', 'Transport agencies', 'Local authorities', and 'Port authorities'. On the right is a large brown arrow pointing to the left, containing the text 'Facilitate movement'. The entire diagram is set against a dark gray background.

Increase  
security

**SwiftRoad® solution for:**

- Border police
- Customs
- Transport agencies
- Local authorities
- Port authorities

Facilitate  
movement





## SwiftRoad® 4 tier model

# Pre-registration

# Just-In-Time planner

# Identification

# Waiting area management

## Border guard client

## Customs officer client

## Monitoring

## Reports

# 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



Drive to the waiting area of the border point

### Biometric technology (ABG)

Identify driver, passengers and vehicle



Drive to the border point

### Muon tomography (gScan)

Scan for hidden peoples, weapons, explosives etc.



Supervising



Border guard

**Hannes Plinte**

[hannes@goswift.eu](mailto:hannes@goswift.eu)

GSM, WhatsApp: +372 5049680