Διαχείριση ροών από και προς το λιμάνι & αυτοματοποίηση διαδικασιών

ΑΙΜΑΝΙΑ ΘΑΛΑΣΣΙΕΣ ΜΕΤΑΦΟΡΕΣ & ΝΗΣΙΩΤΙΚΟΤΗΤΑ 10 & 11 Μαρτίου 2016, Πειραιάς





Agenda

ICT systems providing efficiency and optimization in incoming and outgoing flows of port and container terminal operations:

- ☐ Automation at the gates
- ☐Gate Appointment Systems enabling the optimization of truck arrival patterns at the gates leading to less congestion at the entrance
- □ Interfacing of the above to Traffic Management Centres Cooperative Systems





Automation at the gates





Gate Entry / Exit Control (I)

- □ Advanced security on inbound/outbound flows of containers, vehicles and drivers.
- Integration capabilities to gate control mechanism:
 - □OCR systems for vehicle ID recognition
 - ■Smart card for driver identification
 - □ Automatic gate barriers and traffic lights control
- ☐ Minimize vehicles' waiting times and gate congestion





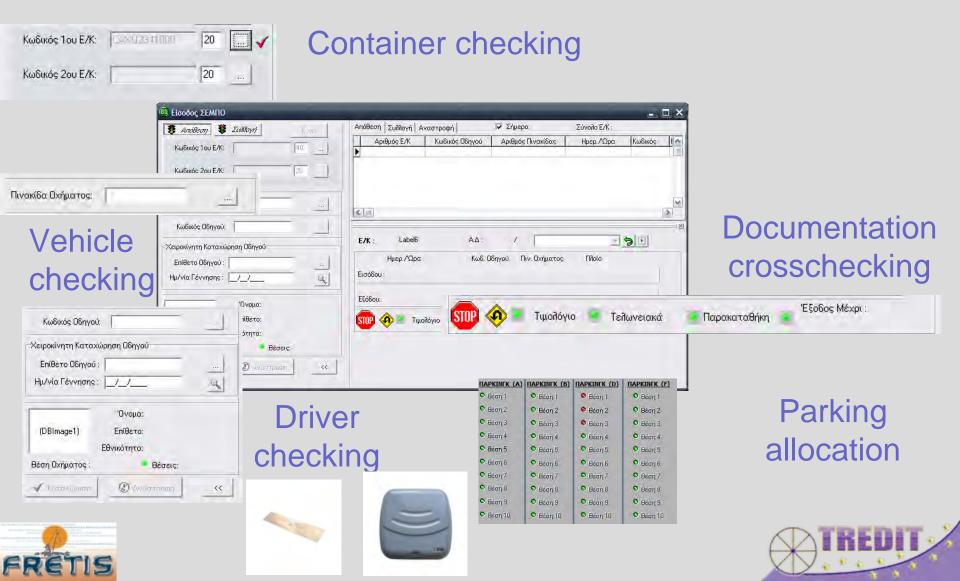
Gate Entry / Exit Control (II)

- □ Handling of parking slots within container terminal.
- □ Allocation of slots / Drivers' guidanceinstructions.
- Controls on administrative compliance and entry/exit permits
- □ Connection to yard management for collection/delivery of container.





Gate Entry / Exit Control



Vehicle Plate Recognition



Gate Entry Control Automated Entry











Gate Entry ControlAutomated Entry

- System checks Permit
- If OK a ticket states the interchange position







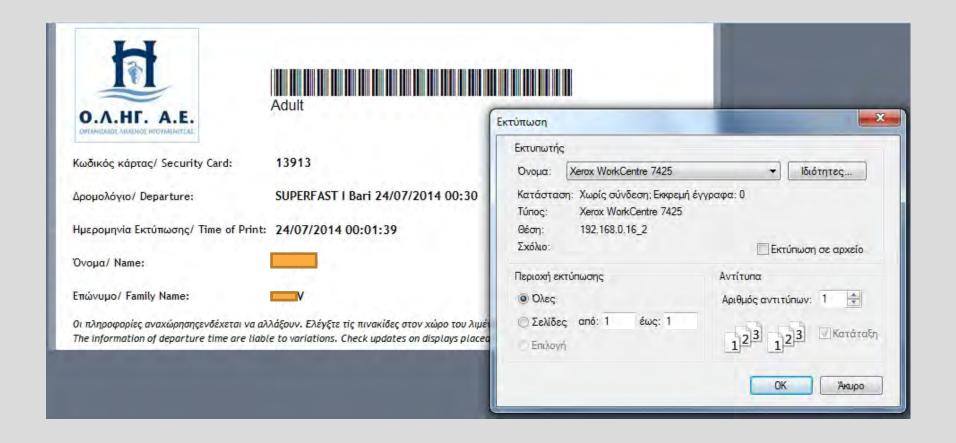
Security Card ISSUING SYSTEM Car/Passenger

Log Off User:superfast			
ket Data			
Ticket Number:		A0238051	
Port Of Destination:	Bari -	Ticket Issuing Datetime:	23/07/2014 14:42
IMO Code:	9350719	Departure Date:	24/07/2014
Line Code:		Company Code:	SUPFST
Passenger Code:	91		
Name:	IANCHO	Family Name:	ANEV
Gender:	Male +	Nationality:	BULGARIA +
Birth Date:	11/05/1957	Document Number:	
Birth Place:			
Plate Number:		Vehicle Code	
Vehicle Type:	+	Country of Plate Registration:	7
			Εκτύπωση





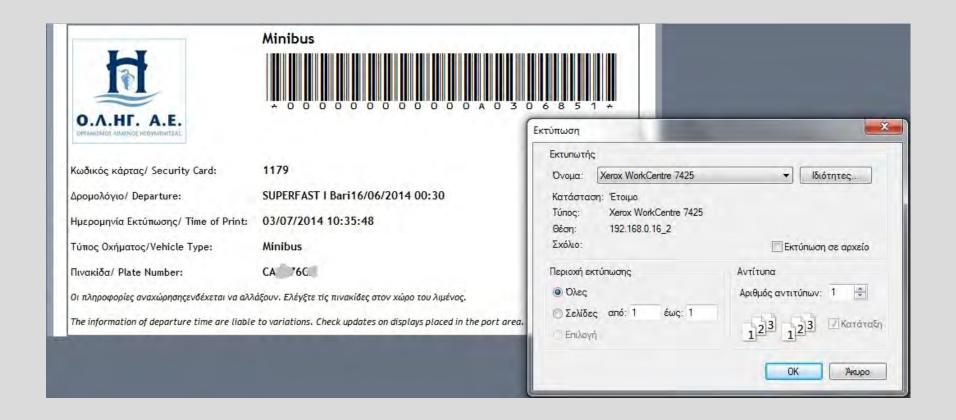
Security Card







Security Card for car







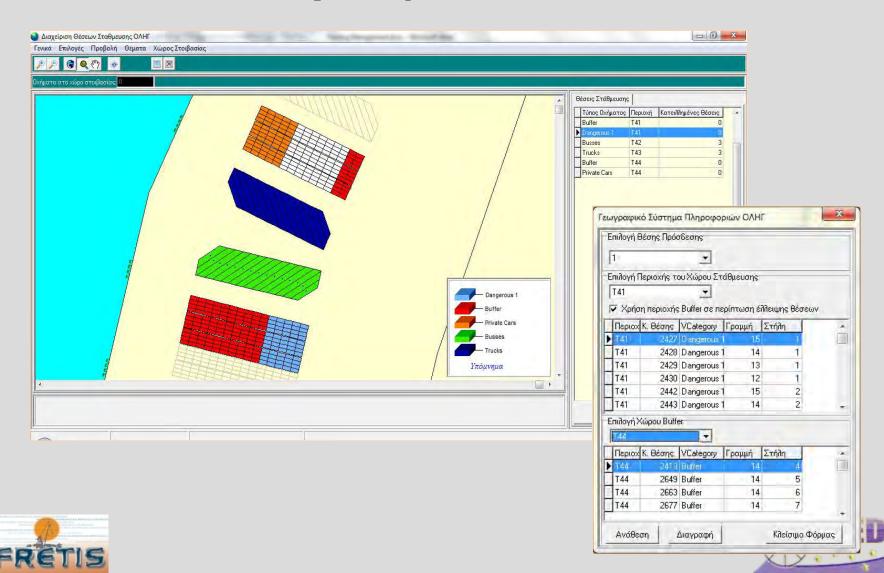
Control of car/passenger flow – PDA APPLICATION







Parking Management (within the terminal or port)



Gate appointment systems





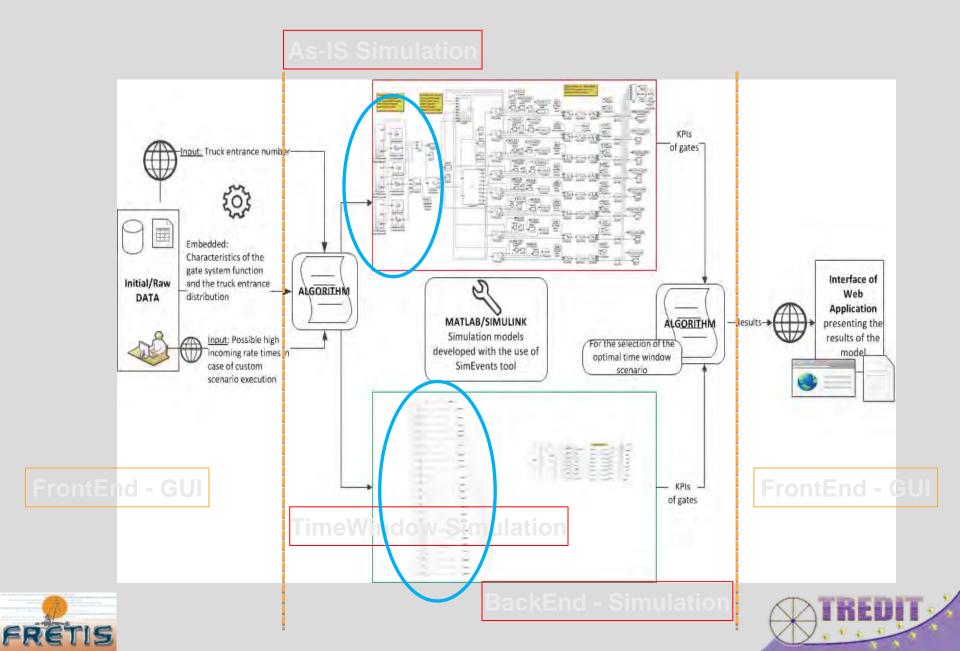
Gate appointment System

- Provision of different time windows
- Possibility to interface to external simulation systems to get proposals on time windows and capacity
- □ Different time windows capacity configuration can be set for different periods
- ☐ The user may choose best option





GAS system



Gate appointment System



The port administrator may decide the preferred time windows based on a set of selective KPIs (calculated through simulation or based on historical data)

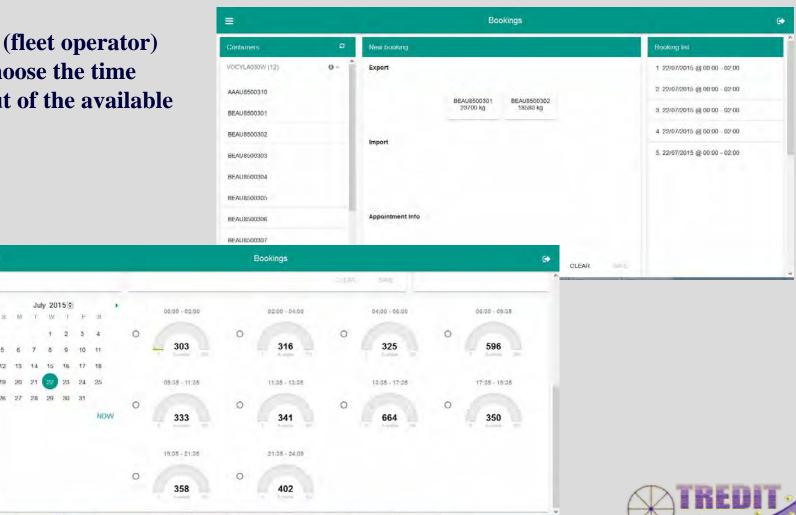
- •Max queue length
- •Average queue length
- •Average waiting time





Gate appointment System

The user (fleet operator) may choose the time window out of the available



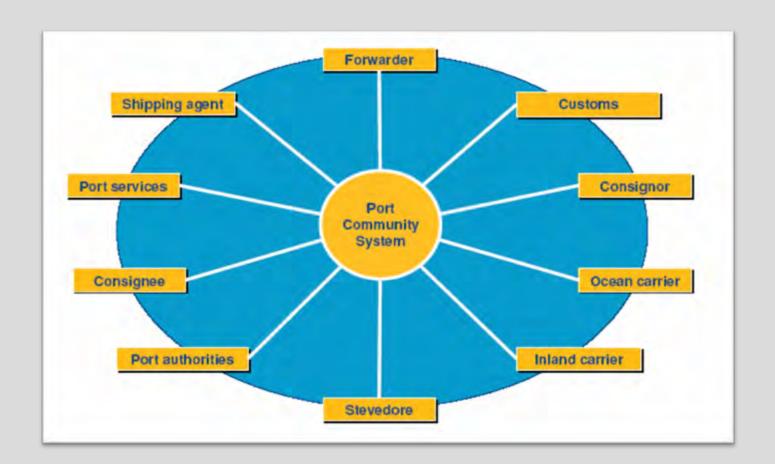


Port Community Systems





PCS = Efficient Information Exchange

















Ανακοινώσεις Οργανισμού Λιμένος Ηγουμενίτσας

> 11:45 Αναχώρηση SUPERFAST II.

11:45 **←** →

Aναχώρηση SUPERFAST II

Αφίξεις / Αναχωρήσεις

				Κατάσταση	
S .	SUPERFAST II	Bari	Δευτέρα; 07/09/2015 00:30	Assigned	
F	FORZA	Venezia	Δευτέρα, 07/09/2015 06:30	Assigned	

Μετεωρολογικά δεδομένα









Cooperative ITS – I2I



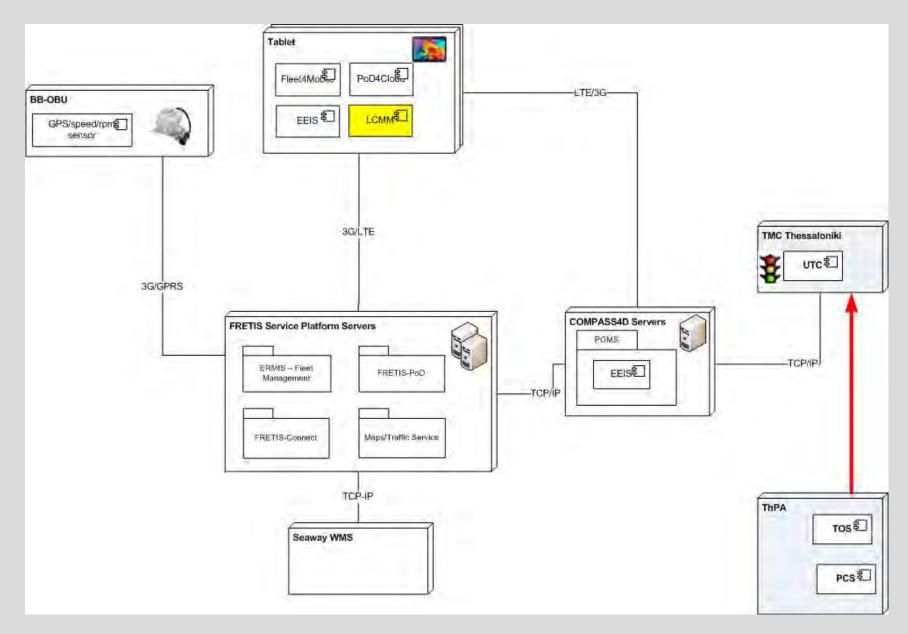


Interfacing of the above to Traffic Management Centres

- Providing real time information on expected outbound flows
- Enabling implementation of green waves on incoming truck flows
- ■Interface to GAS



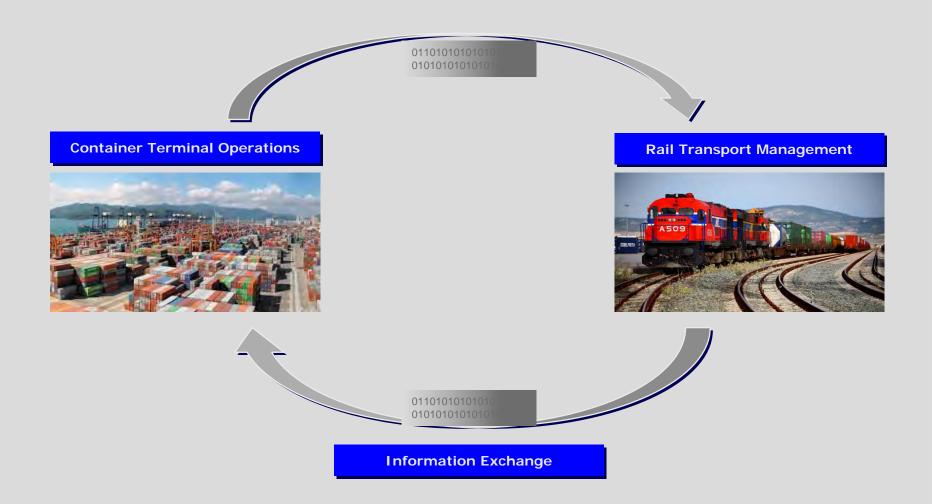








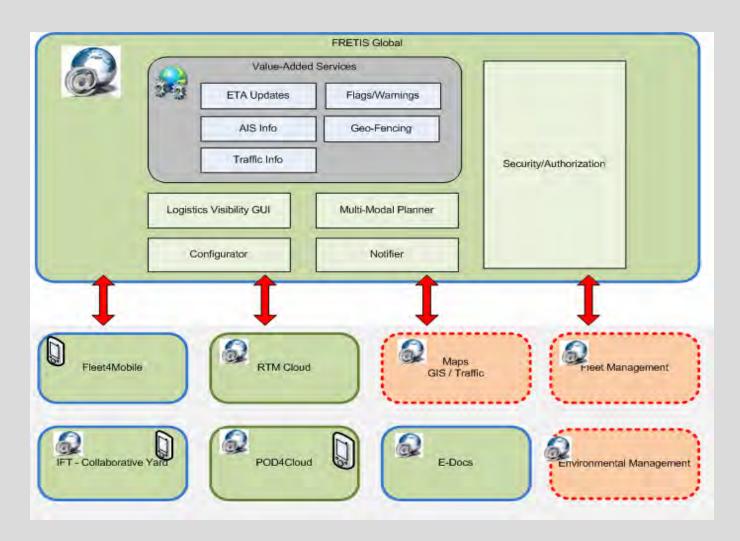
ICT Solutions Port - Rail







FRETIS Cloud - (FRETIS II)







Thank you for your attention!

Georgios Tsoukos

Dipl. Eng. Electrical & Computer, MBA Head of Applications Design and Development Dept.





