

Interaction Port, City and Territory

The problem of vehicular traffic

There are various ITS systems that "govern" the vehicular traffic in the city, the port and the surrounding area.

To date, these systems do not cooperate or not cooperate at all.

We believe that, without danger that the systems lose their autonomy and specificity, it is possible to get them to talk to optimize mobility "ai morsetti".

This short presentation shoes two examples

- from the point of view of the city
- from the point of view of the port





slimCITY



OCOVA AlpMedNet FORUM

GENOVA / GÊNES

VILLA CAMBIASO

5-6 GIUGNO/JUIN 2014

The main objective of slimCITY is to monitor the state of traffic on the road network, and in particular the traffic generated in the port area, normally "invisible" to conventional systems for traffic supervision

Main functions performed:

- Collection of data on the state of traffic from a variety of sources (Urban Systems, Port Systems)
- Filtration and homogenization of the data collected
- Capture from various sources of data on arrivals/departures of ships and vehicles related to port operations (e.g. data arrival /departure of ferries collected from PMIS and slimFERRY)
- Analysis of the state of the network to identify possible critical situations
- Processing of these data to generate a forecast of arrivals/departures and their consequences on urban traffic



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RESULTS: The Web Portal

The screenshot displays the slimCITY web portal interface. At the top, the slim ORT logo is visible on the left, and the breadcrumb navigation shows 'SelexElsag > Comune di Genova > Provincia di Genova'. The main content area features a map of the Genova region with traffic flow indicators in orange and green. A scale bar at the bottom of the map indicates 1:50000 kilometers. On the right side, there are three utility sections: 'Accesso utente' with fields for Username and Password, and an 'Entra' button; 'Ricerca nel sito' with a search input field and a 'Cerca' button; and 'News dal sito' listing two news items: '13/07/11 - Installazione su Jboss' and '17/06/11 - Preparazione test SlimCity'. A left-hand navigation menu includes options like 'Archivio', 'News', 'Funzioni Utente', 'Mappa del Sito', and 'Stato del traffico'.



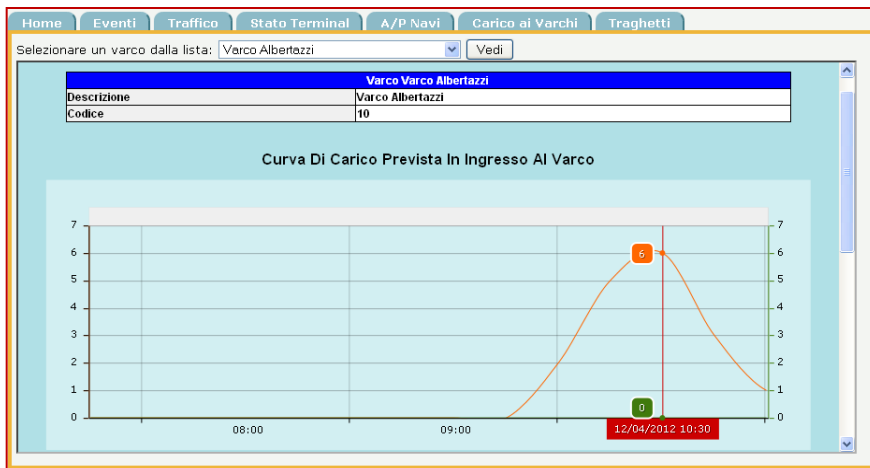
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Results: Information about the port

Home	Eventi	Traffico	Stato Terminal	A/P Navi	Carico ai Varchi	Traghetti
Codice	Nome	Stato	Data Stato	Stati futuri		
0011223344	ALTRI	Chiuso	16/06/2011 09:39	Nessuna variazione prevista		
1122334455	AREA RIPARAZIONI NAVALI	Aperto	16/06/2011 10:00	Nessuna variazione prevista		
2233445566	Consorzio Bettolo	Aperto	08/06/2011 11:24	Nessuna variazione prevista		
3344556677	ENEL	Aperto	08/06/2011 11:24	Nessuna variazione prevista		
4455667788	FINCANTIERI SESTRI	Chiuso	14/06/2011 11:24	Nessuna variazione prevista		
5566778899	GENOA COLD TERMINAL	Aperto	08/06/2011 11:24	Nessuna variazione prevista		
7788990011	GENOA TERMINAL	Aperto	08/06/2011 11:24	Nessuna variazione prevista		
8899001122	GRENDI	Aperto	08/06/2011 11:24	Nessuna variazione prevista		
6677889900	Genoa Metal Terminal	Chiuso	16/06/2011 09:39	Nessuna variazione prevista		

Advantages:

- Immediate view of the state of the port gates
- Ability to query the expected traffic at each port gate
- arrival/departure calendar (ships for container traffic)



Home | Eventi | Traffico | Stato Terminal | A/P Navi | Carico ai Varchi | Traghetti

Elenco Navi in Arrivo

Nave	Data Arrivo	Origine	Passeggeri	Veicoli
Janas	12/04/2012 07:45	PORTO TORRES	288	Non Disp.
Eurostar Barcelona	12/04/2012 18:30	PALERMO	339	Non Disp.
Marrakech	12/04/2012 20:00	TANGIER	309	Non Disp.

Elenco Navi in Partenza

Nave	Data Partenza	Destinazione	Passeggeri	Veicoli
Janas	12/04/2012 20:30	PORTO TORRES	270	Non Disp.



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RESULTS: Traffic prediction and simulation

The screenshot displays the slimCITY web application interface. At the top, there is a navigation bar with tabs for "SlimPort", "Traffico real time", "Stato delle spire", "Traffico per strada", "Traffico per fascia oraria", and "Confronto moduli". The main interface includes a "slim ORT" logo, a "Filtri di selezione" section with a list of roads, a "Direzioni e sezioni" section with dropdown menus, and a "Legenda" section with a color-coded traffic flow scale. Below these are "Filtri sulla mappa" controls, including a "maptype" dropdown and a directional pad. The central part of the interface is a map of Genoa, Italy, showing a network of roads with green and red circular markers indicating traffic flow. The map is overlaid on a Google Maps background. The bottom of the interface shows a "Google" logo.

Filtri di selezione

Elenco strade

17127	Via Bassano
19799	Via Alghero
20274	Via Carlo Pastorino
20276	Salita dell'Olivella
20544	Vico della Scimmia
21116	Piazza Tenedo

Direzioni e sezioni

IDDIREZIONE:

IDSEZIONE, FLUSSO:

Legenda

Descrizione	Stato traffico
Flusso di traffico intenso	Red
Flusso di traffico normale	Green
Flusso di traffico pesante	Yellow
Flusso di traffico sostenuto	Orange

Filtri sulla mappa

maptype: hybrid, mobile, roadmap, satellite, terrain

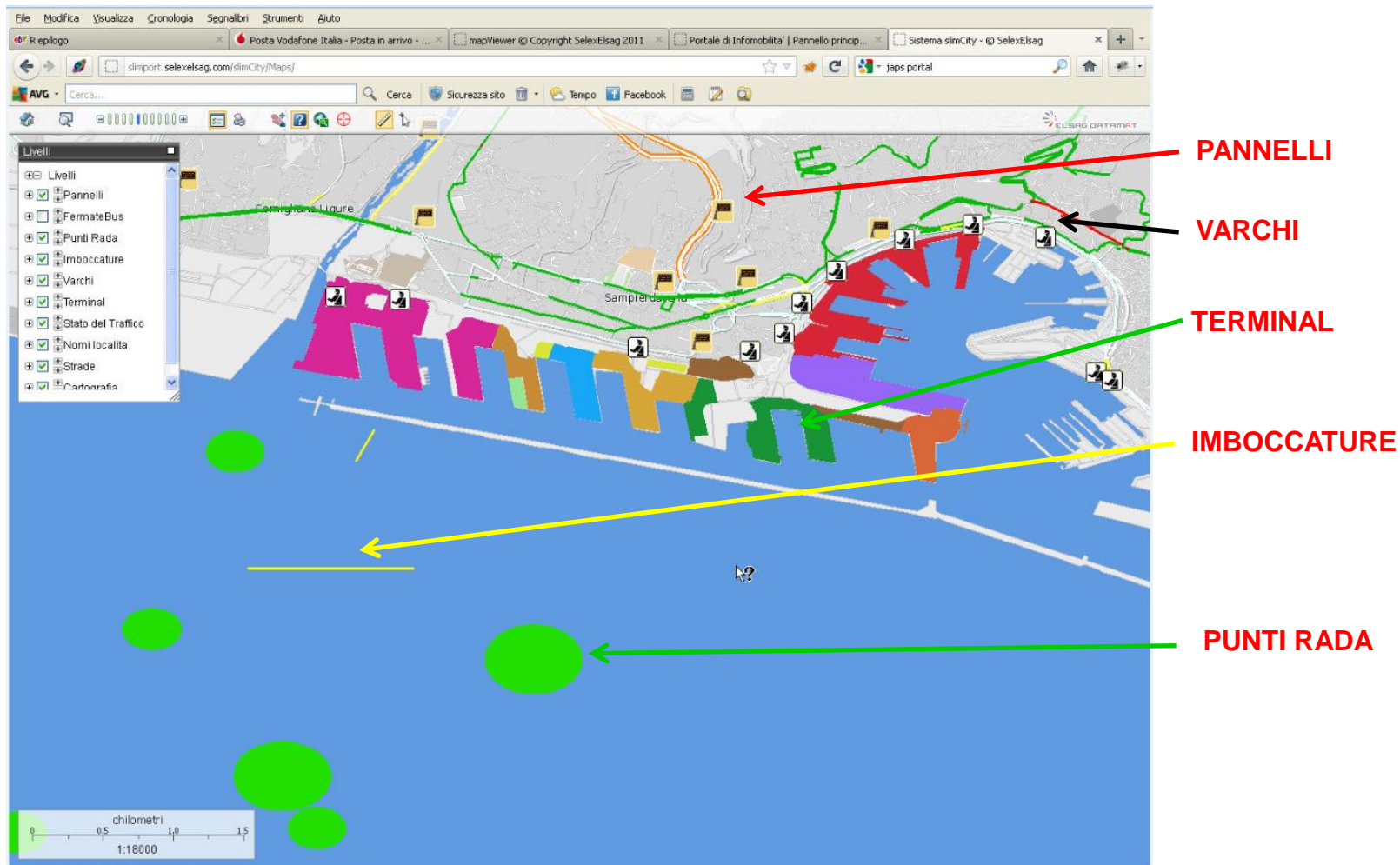
ZOOM +, ZOOM -

N, S, W, E



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RESULTS: Port Area Synoptic



The Port_Service platform wants to put into practice the concept of

TERMINAL - VEHICLE APPOINTMENT

making a reservation for the loading/unloading operations

Port_Service:

- Performs scheduling of loading and unloading operations at the port terminals and send reservations to trucking companies
- Suggests to the vehicles the port gates to get to the terminal (suggestion based on terminal destination and traffic conditions, with thresholds at input vehicles)
- Records the traffic entering and exiting the port gates
- Detects traffic situations that could affect the circulation in the surrounding metropolitan areas
- Detects statistics on goods and passenger traffic
- Tracks statistics on the efficiency of port terminals



TICKET



Benefits

Port Terminal

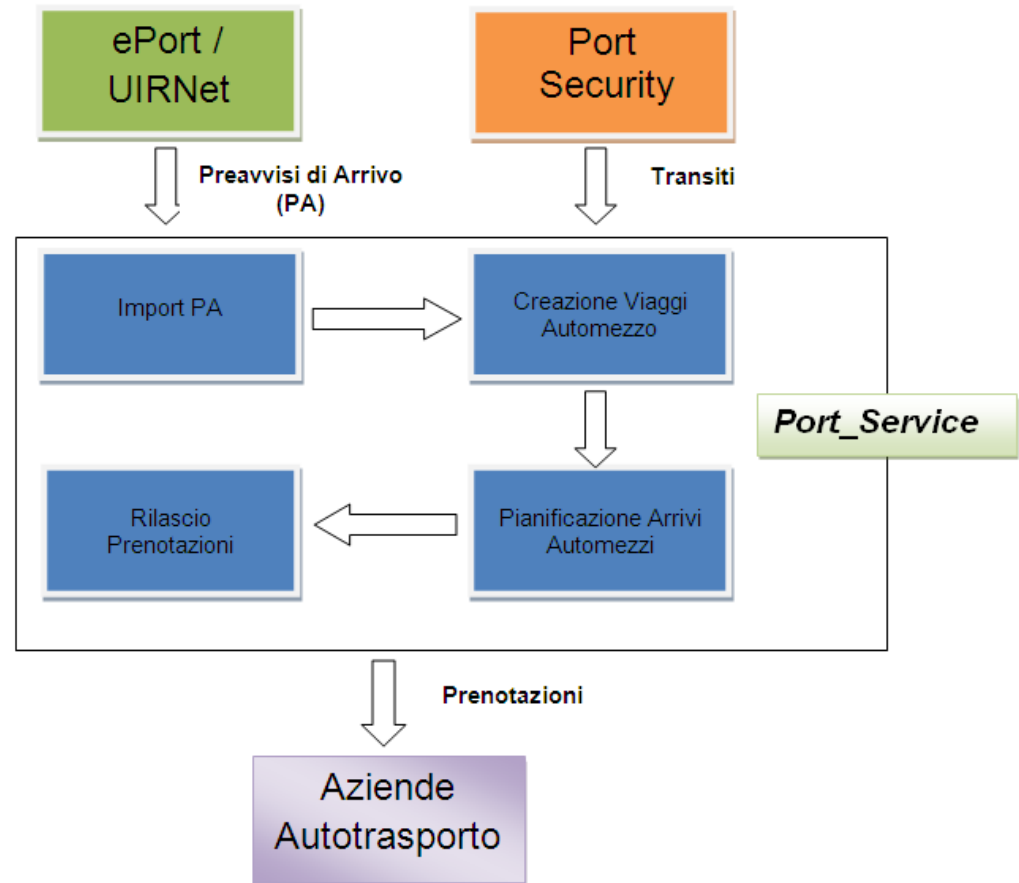
- Reduction of peaks in loading/unloading operations
- Rationalization of available resources (equipment and personnel)

Transport Operators

- Reduction of waiting time at the terminal
- Rationalization in the use of fleet

Port Authority

- Forecasting of traffic congestion in the port area
- Improving of the port system efficiency



Our target is to design an integrated IT solution platform, with its architectural and functional model

- to supply services for "Smart Nodes"
- applicable to contexts where the urban centre is strictly interconnected with logistic hubs (e.g. Genoa, Bari, Naples, Bologna,...)
- where Selex ES solutions for urban mobility (Suite CITIES) and for integrated multimodal logistics (Suite LGS) can operate in synergy or integrating information from already third party systems

