

Make smarter
business decisions

Η βελτιστοποίηση της Δρομολόγησης - Σχεδιασμός Εκτέλεση και Εποπτεία

Logistics SOLUTIONS VIII

Αναπτυξιακό μοντέλο σε τροχιά logistics



SUPPLY CHAIN
SALES INST ITUTE

30 PLANNING Achieving
YEARS Excellence
Together

Why Optimization and Monitoring are Important



20% cost reduction by efficient planning of routes .



30 % increase in the number of visits.



Full visibility of the execution plan.



Easy communication with every one

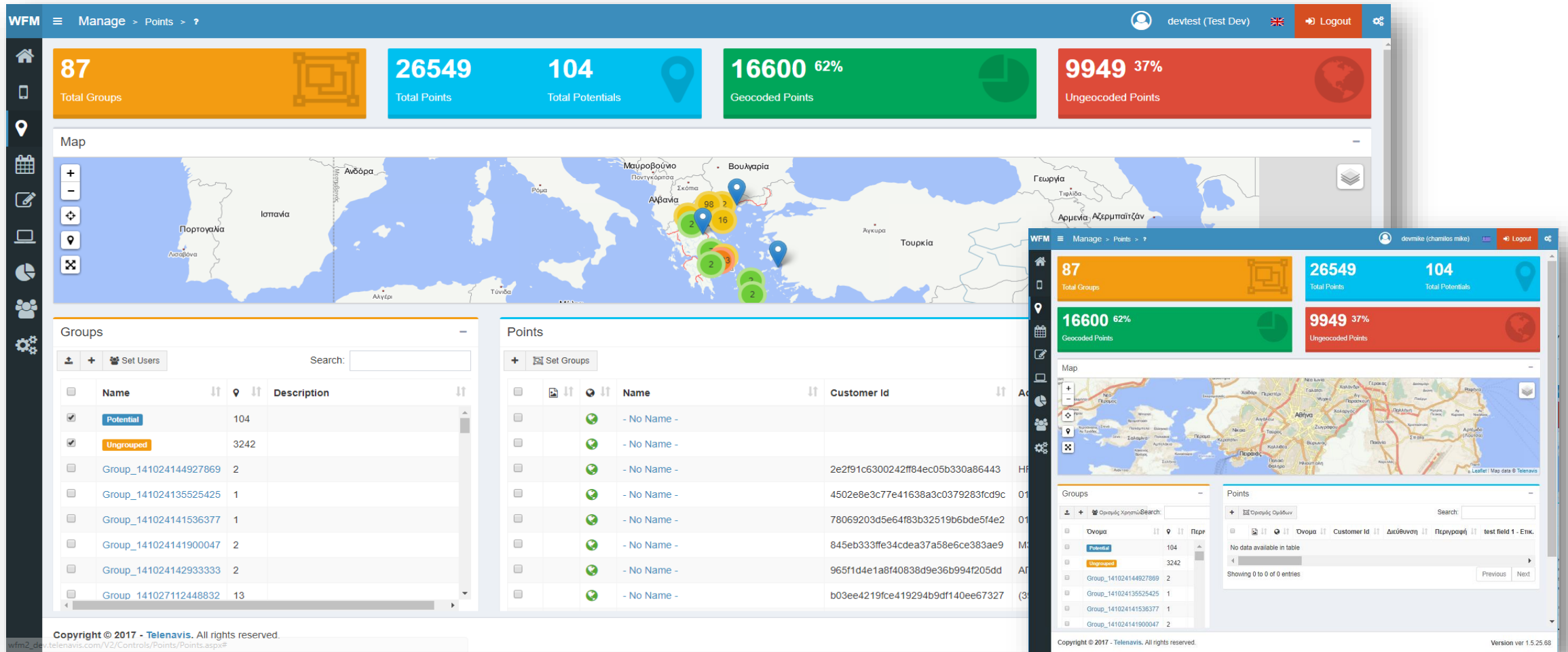


Deal with the unexpected efficiently, and reduce time to response.

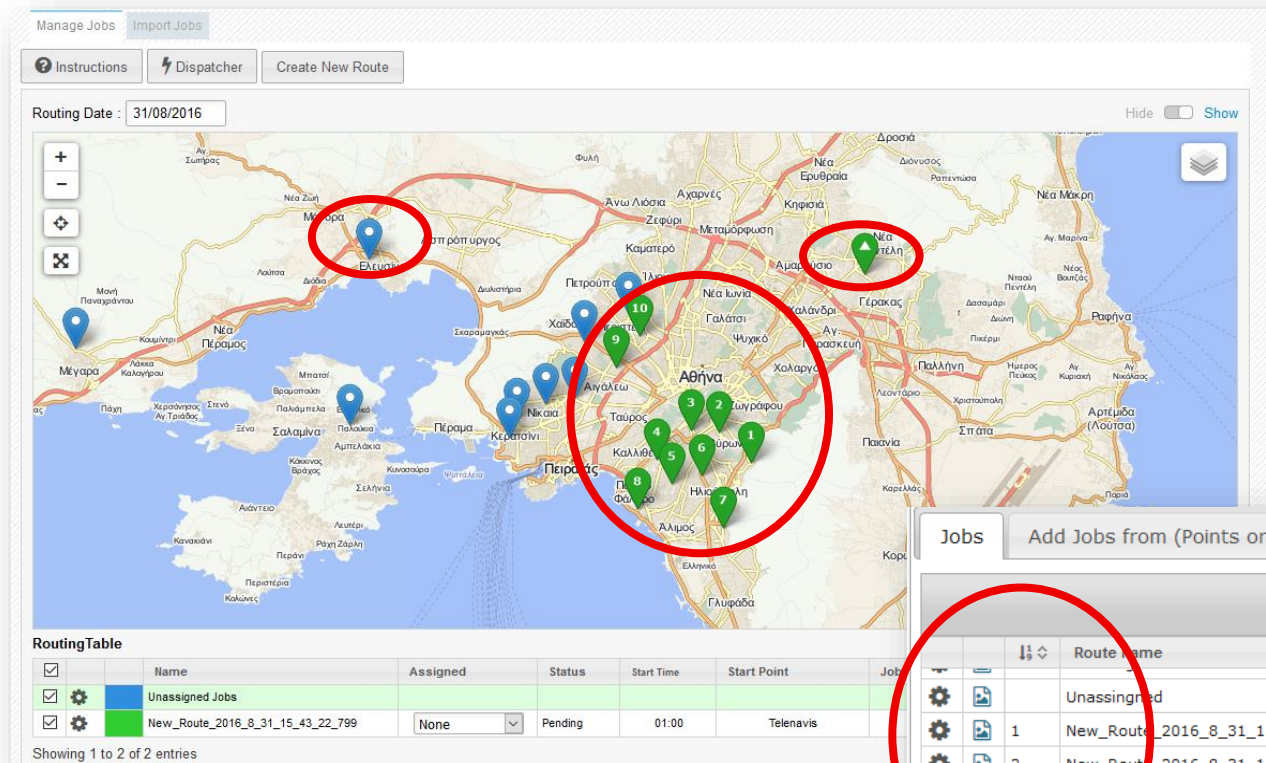


Integration with other digital systems, to increase cooperation

Collaborative Platform for Planning -Sharing – Visibility



Planning the Routes with Smart Algorithms



- Optimized Routing & Delivery
- Estimated Time of Arrival
- Estimated Time & Cost of the Route
- Flexibility on Execution

The screenshot shows a list of routes in the Telenavis software. A red circle highlights the 'Jobs' tab and the 'Add Jobs from (Points or Groups)' button. Below the map, there is a 'RoutingTable' with the following data:

	Name	Assigned
<input type="checkbox"/>	Unassigned Jobs	
<input checked="" type="checkbox"/>	New_Route_2016_8_31_15_43_22_799	None

Showing 1 to 2 of 2 entries

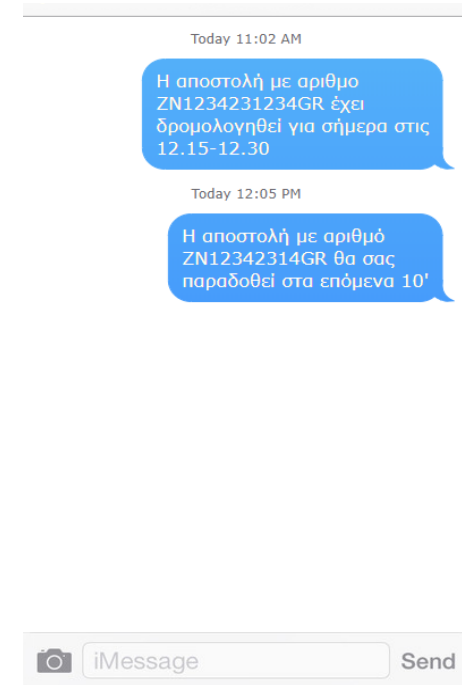
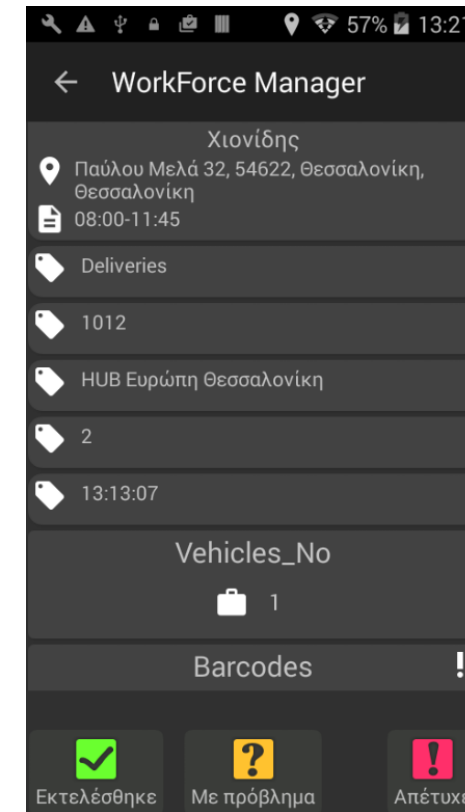
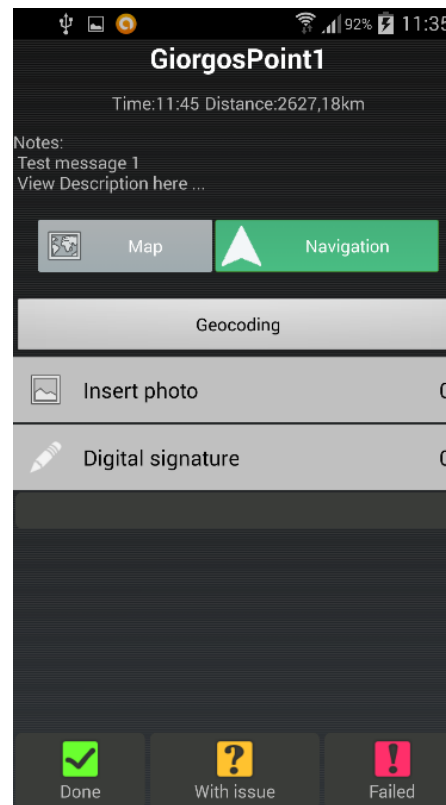
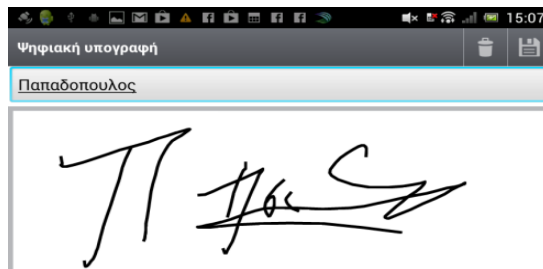
Below the table, there is a detailed view of the route 'New_Route_2016_8_31_15_43_22_799'. A red circle highlights the 'Jobs' tab and the 'Add Jobs from (Points or Groups)' button. The detailed view shows the following data:

	Route Name	Name
<input checked="" type="checkbox"/>	Unassigned	ΑΛΦΑ
<input checked="" type="checkbox"/>	1 New_Route_2016_8_31_15_43_22_799	ΑΛΦΑ
<input checked="" type="checkbox"/>	2 New_Route_2016_8_31_15_43_22_799	ΑΛΦΑ
<input checked="" type="checkbox"/>	3 New_Route_2016_8_31_15_43_22_799	ΑΛΦΑ
<input checked="" type="checkbox"/>	4 New_Route_2016_8_31_15_43_22_799	ΑΛΦΑ
<input checked="" type="checkbox"/>	5 New_Route_2016_8_31_15_43_22_799	ΑΛΦΑ
<input checked="" type="checkbox"/>	6 New_Route_2016_8_31_15_43_22_799	ΑΛΦΑ

Execution - Empowering the Driver – Notify the Receiver

Track drivers, take Signatures, update Customers, and nail deliveries every time

- **Driving Directions** to each destination
- **Changes during the route**
- **Capturing digital signature**
- **Capturing complains with photos**
- **Document management**
- **Scanning Bar Codes**
- **Push Notifications**



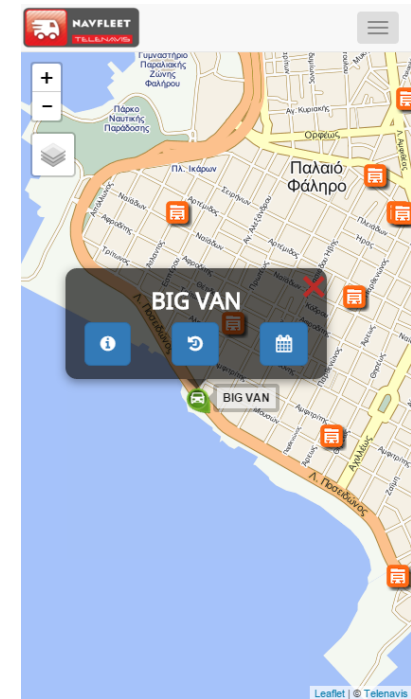
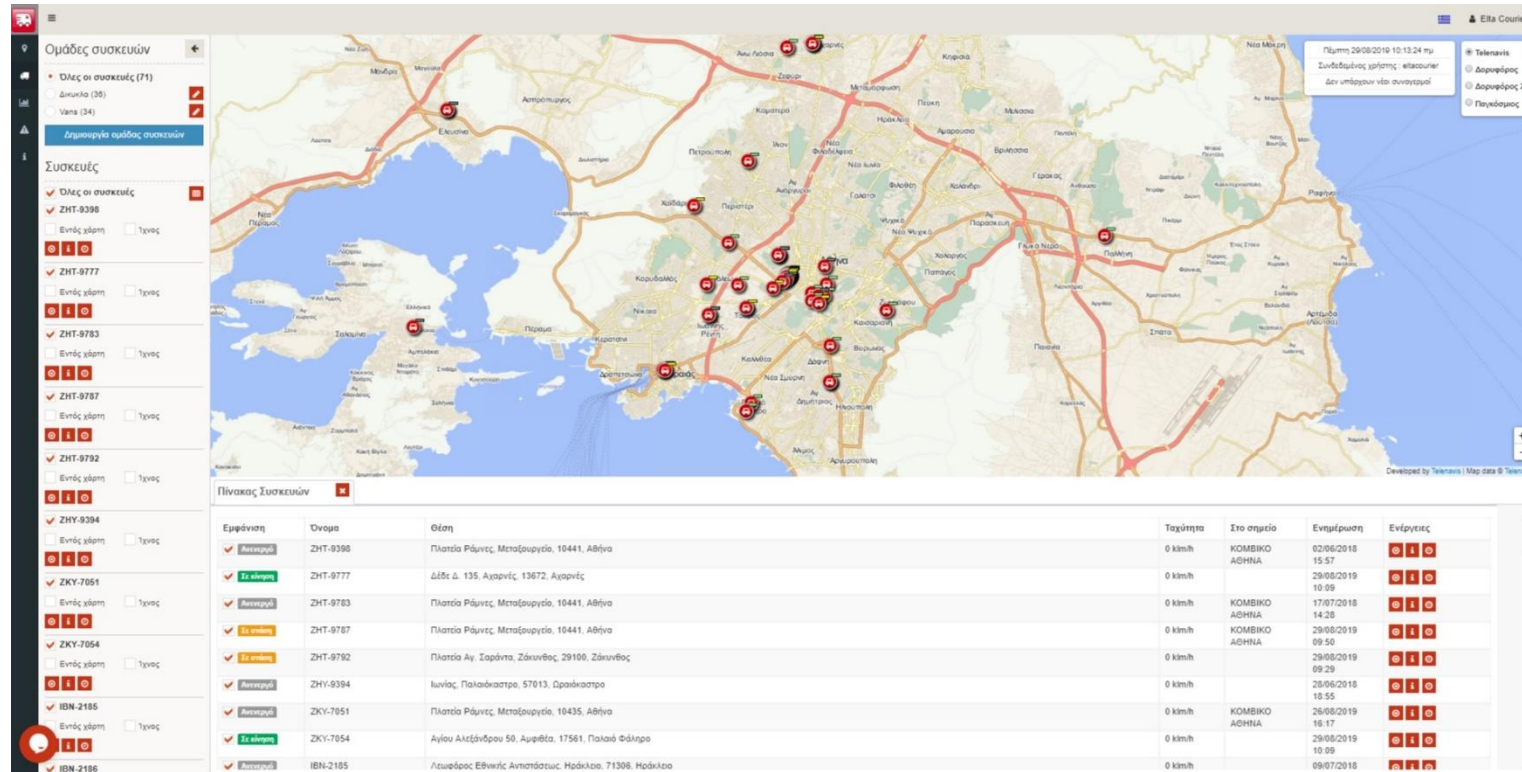
Real-time Monitoring

Route optimization to achieve efficiency & better service your customers

The screenshot displays the WFM (Workforce Management) software interface, which is used for real-time monitoring of routes and jobs. The interface is divided into several sections:

- Header:** Shows the user's name (TN_Support_test) and a Logout button.
- Filters:** Includes a search bar and a Refresh button.
- Routing Date:** A date picker set to 21/09/2017.
- Sort By:** A dropdown menu set to Name.
- Jobs Sort By:** A dropdown menu set to Planned Time.
- Assigned to Worker:** A section with a "Check All / Check None" link and a text input field.
- Routes:** A section with a "Check All / Check None" link and a list of routes, including "New_Route_2017_9_21_15_45_28_202".
- Route Status:** A section with a "Check All / Check None" link and a list of statuses, including "Started".
- Route Jobs Status contains:** A section with a "Check All / Check None" link and a list of statuses, including "Served Without Signature".
- Main Content Area:** Displays a grid of route cards. Each card shows the route name, status (e.g., Pending, Visited), and a list of jobs with their locations and times. For example, "New_Route_2017_9_21_15_45_28_202" shows a "Pending" status and a list of jobs including "COMMERCIAL PLACE" and "House 1 sfa".
- Footer:** Includes the copyright notice "Copyright © 2017 - Telenavis. All rights reserved." and the version number "Version ver 1.5.25.67".

Real Time monitoring in Mobile Devices (android & ios)



Information Sharing with multiple actors

Map Monitoring Tiles Monitoring

Tile Monitoring

Instructions ⓘ

Routing Date: 02/02/2015 Last Refresh Time: 17:51:28

Routings **Jobs**

Giannis Route
Status: Started
Assigned To: devmakris
Jobs: 86 (72, 7, 4, 3)

New Route_2015_2_23_52_16_748
Status: Pending
Assigned To:
Jobs: 170 (170, 0, 0, 0)

NXA-1599_165694
Status: Pending
Assigned To:
Jobs: 20 (20, 0, 0, 0)

NXA-2726_165702
Status: Pending
Assigned To:
Jobs: 6 (6, 0, 0, 0)

NXA-3270_165752
Status: Started
Assigned To: DevPetrolasProduction
Jobs: 18 (13, 5, 0, 0)

Route A
Status: Pending
Assigned To:
Jobs: 1 (1, 0, 0, 0)

test route christ
Status: Completed
Assigned To: DevPetrolasProduction
Jobs: 2 (0, 2, 0, 0)

A-B ΒΑΣΙΛΟΠΟΥΛΟΣ Α.Ε.
Status: Visit is delayed
Actual Time:
Delayed by: More than 1 h
Worker Notes:
Predefined Answers:
Address: Λ.ΒΟΥΛΙΑΓΜΕΝΗΣ
Description:
Notes:
Allowed Times: 00:00 - 00:00
Scheduled Time: 00:00
Tag1:
Tag2:
Tag3:

HOME POINTS JOBS MONITORING REPORTS ADMIN MOBILE APP

Map Monitoring Tiles Monitoring

Map Monitoring

Instructions ⓘ

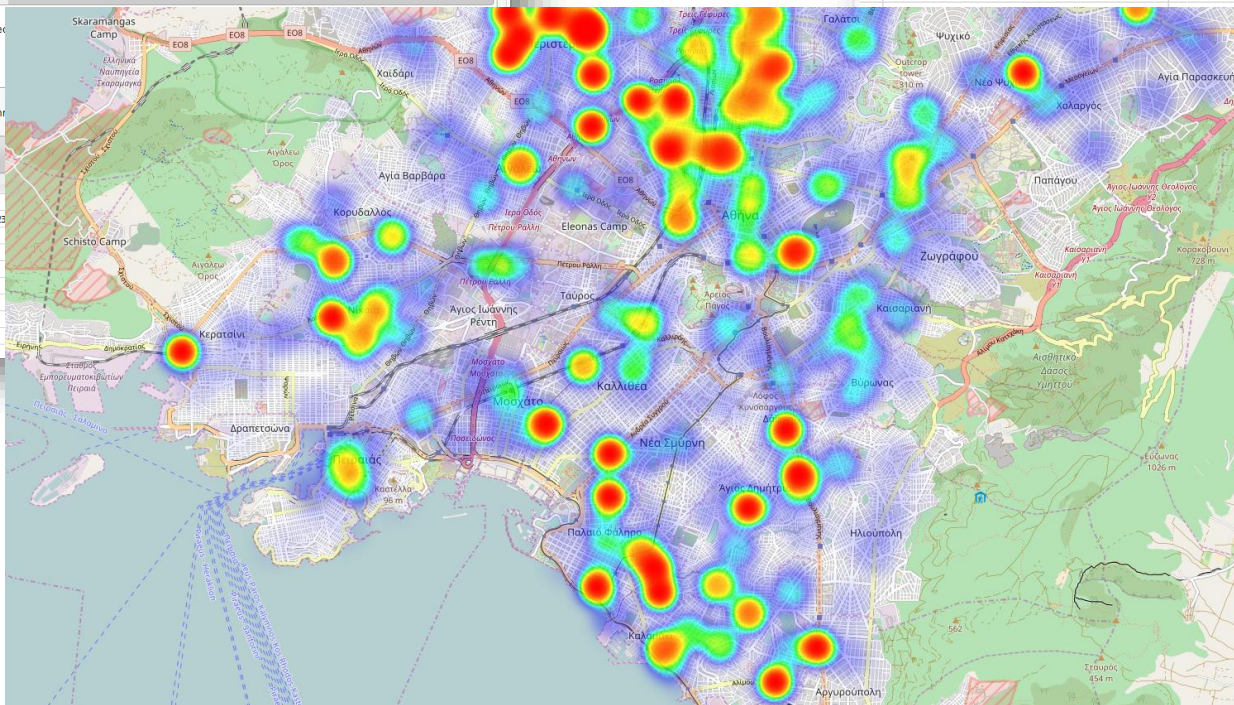
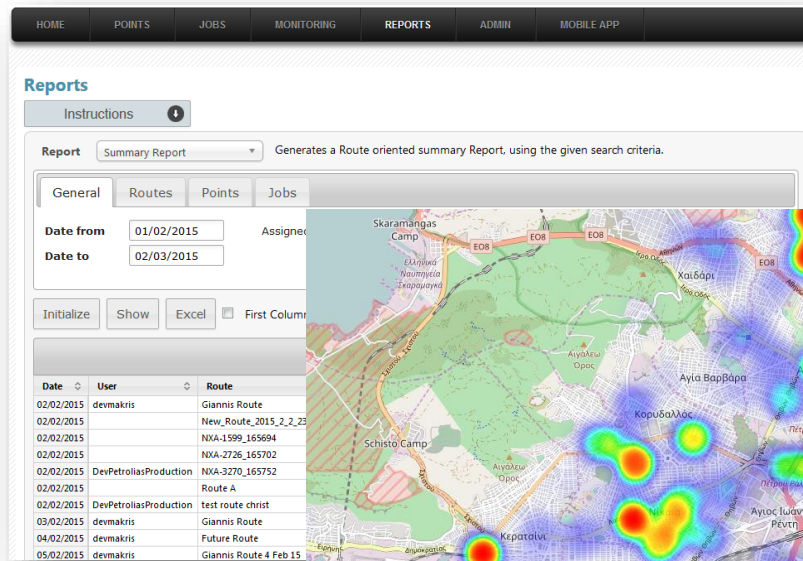
Routing Date: 02/03/2015 Routing: Last Refresh Time: 17:40:21

Map Monitoring interface showing a map of Athens with various markers and a detailed information panel for a specific location.

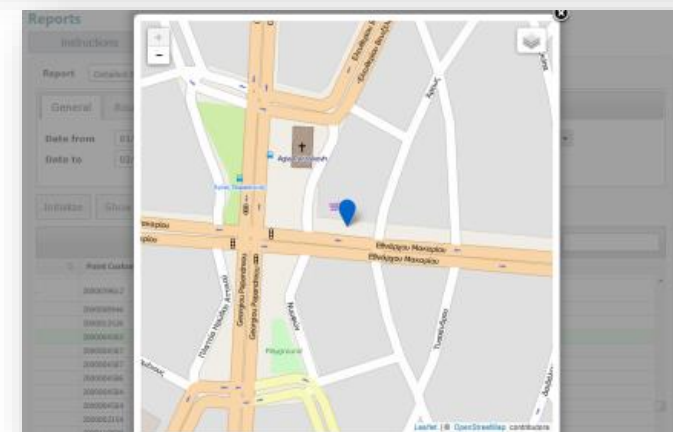
ΠΑΡΑΔΟΣΗ ΑΦΟΙΩΝ ΚΑΛΛΙΜΑΝΗΣ Γ.Α.Ε. | 8C38-783
Status: Served without signature
Actual Time: 2015/03/02 11:05
Delay Time: More than an hour!
Worker Notes:
Predefined Answers:
Address: Γ.ΠΑΠΑΝΔΡΕΟΥ 111 ΓΛΥΦΑΔΑ 16561
ΑΘΗΝΑGR
Description:
Notes:
Allowed Times: 07:00 - 16:00
Scheduled Time: 07:00
Tag1: 45-25.1
Tag2:
Tag3: Mandra

Reporting and Big Data Analytics

Business Intelligence with your map!



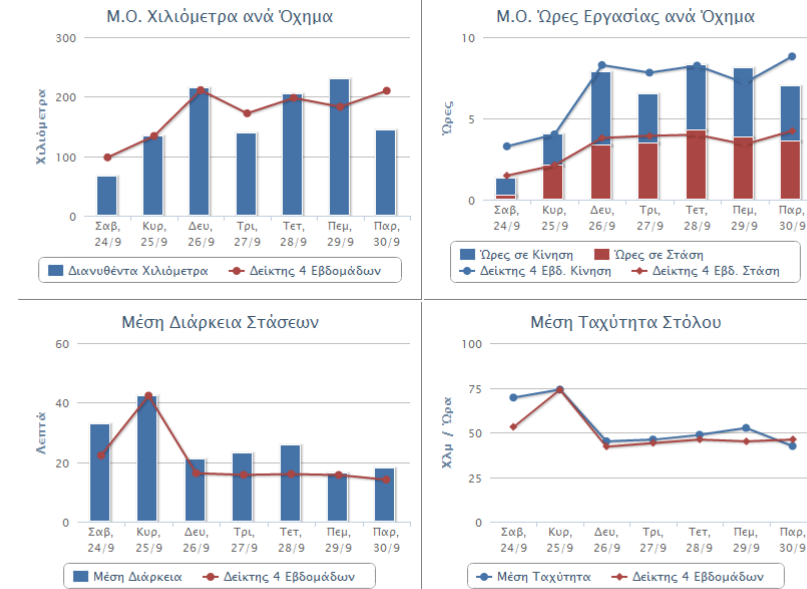
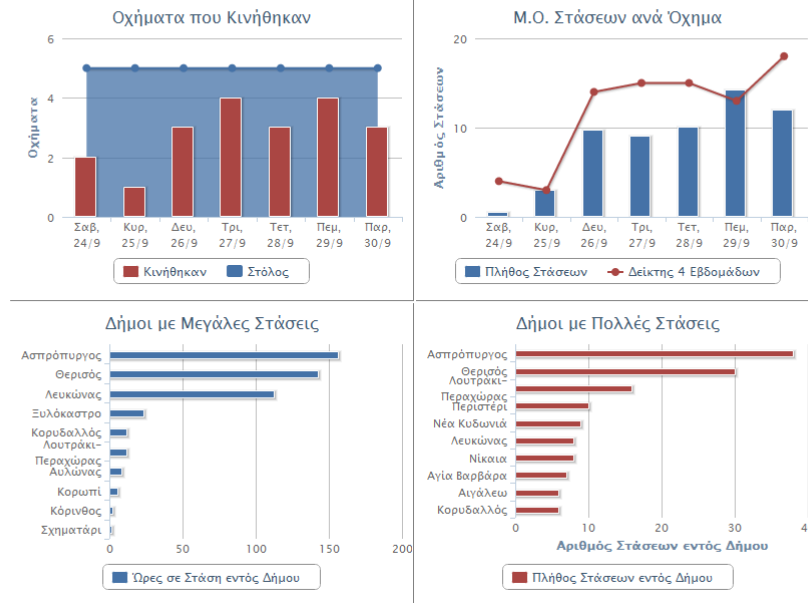
Job Name	Job Description	Job Status	Scheduled Time	Actual Time	Descrip
ΣΚΛΑΒΕΝΙΝΗΣ Ι. & Σ. ΑΕΕ	8004345466.ΨΨ 0006844, ΕΠΙΕΚΑ Α.Ε. - 0 κιβ.	Not Specified			8004:
ΜΕΤΡΟ ΑΕΒΕ (MY MARKET)	8004348873.ΤΑ Α 0014345, ΝΙΚΑΣ Π.Γ. Α.Β.Ε.Ε. - 4 κιβ.	Not Specified			8004:
MEAT FAMILY ΙΚΕ	8004348874.ΤΑ Α 0014377, ΝΙΚΑΣ Π.Γ. Α.Β.Ε.Ε. - 2 κιβ.	Served		02/02/2015 19:39	8004:
ΠΡΟΜΗΘΕΥΤΙΚΗ ΤΡΟΦΙΜΩΝ Α.Ε.	8004348888.ΤΑ Α 0014298, ΝΙΚΑΣ Π.Γ. Α.Β.Ε.Ε. - 9 κιβ.	Not Specified			8004:
ΠΡΟΜΗΘΕΥΤΙΚΗ ΤΡΟΦΙΜΩΝ Α.Ε.	8004348890.ΤΑ Α 0014297, ΝΙΚΑΣ Π.Γ. Α.Β.Ε.Ε. - 9 κιβ.	Not Specified			8004:
ΜΑΡΙΝΟΠΟΥΛΟΣ Α. Ε. (021)	8004348891.ΤΑ Α 0014333, ΝΙΚΑΣ Π.Γ. Α.Β.Ε.Ε. - 7 κιβ.	Served		02/02/2015 19:39	8004:
	ΤΑ Α 0014332, ΝΙΚΑΣ Π.Γ. Α.Β.Ε.Ε. - 4 κιβ.	Served		02/02/2015 19:39	8004:
	Ι 5896, ΠΑΣΣΙΑΣ Ε.Γ. Α.Β.Ε.Ε. - 1 κιβ.	Not Specified			8004:
	ΤΑ Α 0014267, ΝΙΚΑΣ Π.Γ. Α.Β.Ε.Ε. - 2 κιβ.	Not Specified			8004:
	ΙΓ 0424951, ΜΙΝΕΡΒΑ Α.Ε. - 16 κιβ.	Served		02/02/2015 19:40	8004:
Job Text		Not Specified	07:00		Job D
		Served		02/02/2015 19:35	Τεστ
		Served		02/02/2015 19:36	Εταιρ
		Not Specified			
		Not Specified			Test c
		Not Served		03/02/2015 10:07	



Reporting with KPI's

Δείκτες Απόδοσης Στόλου

Δεδομένα από: 24/9/2011 έως: 30/9/2011 [Ανανέωση](#)

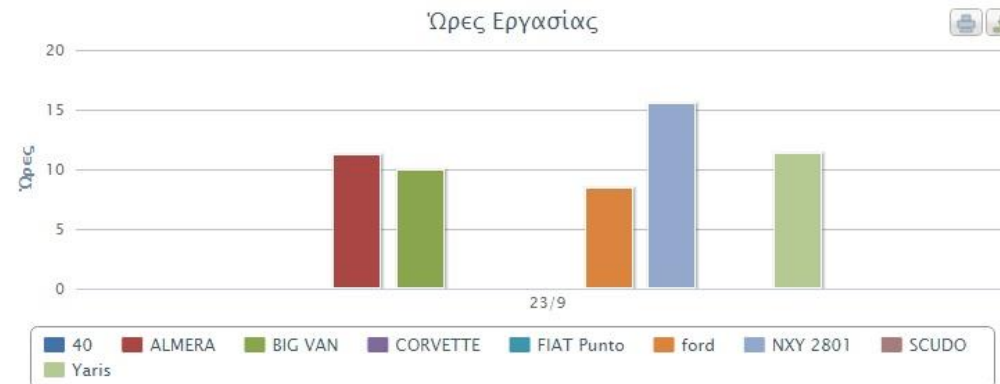


☒ Εμφάνιση των Δεκτών στην εκτύπωση

[Άνοιγμα σε νέα σελίδα για εκτύπωση](#)

Detailed Reporting

Αναφορά Ημερήσιου Έργου από 23/09/2015 05:00 έως 23/09/2015 19:03



Συσκευή	Έναρξη	Λήξη	Ώρες Εργασίας	Ώρες Κίνησης	Ώρες Στάσης	Στάσεις	Μέση Ταχύτητα	Μέγιστη Ταχύτητα	Χιλιόμετρα	Χάρτης
40	23/9/2015 12:00:00 νμ	23/9/2015 12:00:00 νμ	00:00	00:00	00:00	0	0	0	0	
ALMERA	23/9/2015 7:43:39 νμ	23/9/2015 6:56:27 μμ	11:12	01:08	10:04	5	47	107	43	Εμφάνιση
BIG VAN	23/9/2015 9:04:02 νμ	23/9/2015 6:59:16 μμ	09:55	02:58	06:57	27	17	58	49	Εμφάνιση
CORVETTE	23/9/2015 12:00:00 νμ	23/9/2015 12:00:00 νμ	00:00	00:00	00:00	0	0	0	0	
FIAT Punto	23/9/2015 12:00:00 νμ	23/9/2015 12:00:00 νμ	00:00	00:00	00:00	0	0	0	0	
ford	23/9/2015 9:21:36 νμ	23/9/2015 5:46:12 μμ	08:24	01:19	07:05	7	52	121	64	Εμφάνιση
NXY 2801	23/9/2015 2:52:50 νμ	23/9/2015 6:21:00 μμ	15:28	05:41	09:47	35	42	95	192	Εμφάνιση
SCUDO	23/9/2015 12:00:00 νμ	23/9/2015 12:00:00 νμ	00:00	00:00	00:00	0	0	0	0	
Yaris	23/9/2015 7:39:53 νμ	23/9/2015 7:03:36 μμ	11:23	01:00	10:23	7	30	75	26	Εμφάνιση

Why technology is so important?

Taking insights into consideration

The cost benefits

Basic Figures

Number of work force	20
Average Kms / day/ worker	100
Working Hours / day	8



Reduction in Kms/day through	200.00
Reduction in working hours per day	16.00

Total Reduction of kms/year	52,800.00
In cost terms	€ 7,286.40
Total Reduction in working hours	4,224.00
In cost terms	€ 12,800.00
Benefit from optimization	20,086.40 €

Basic assumptions

Cost of fuel per litre	1.15
Litres of Fuel consumption per vehicle/per 100 km	12.00
Worker cost per month	800
Days of work per year	264



Cost of fuel per kms	0.138
Cost of worker per hour	3.03

Improvements from optimization and monitoring

Reduction of kms	10%
Reduction of working hours	10%

Key Take-Aways

- New markets & new technologies are arising
- New demands from shippers & receivers (**The Amazon effect**)
- **NO digital – NO business!** Increasingly your clients will shift to logistics providers with full visibility.
- A world of digital economy is a connected world. World-wide connectivity is a demand knocking the door.
- Digitization is a procedure that includes a different approach of DOING BUSINESS.
You cannot just purchase, you need to transform.
- **Digitization = Efficiency** (i.e. less cost + better service) subject to Transformation
- Time is of essence

