

Pilot 1 – Paving the way for smarter, sustainable and customer-driven 3PL operations via shared freight deliveries in Athens

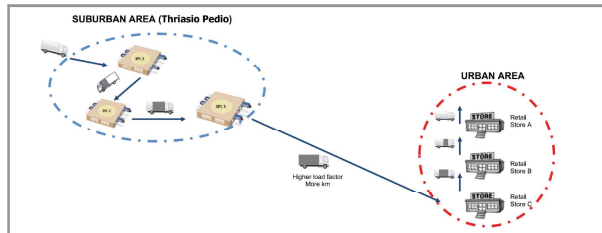
Background

The Greek 3PL sector is highly competitive in terms of cost and customer service level, with the majority of the 3PL operators mainly family owned SME's. The current economic challenges in this market, create favorable conditions for collaboration among 3PL companies; to optimize freight delivery to customers and minimize operational costs. Pilot 1 focuses on investigating and evaluating vehicle and infrastructure sharing distribution practices.

What we did

Two different shared logistics practices were identified and evaluated in terms of economic, social and environmental aspects.

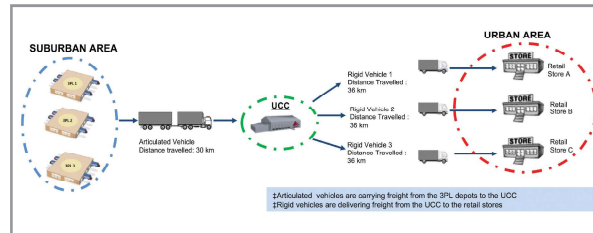
A) Sharing a common vehicle for delivering goods



Pilot Settings:

- The stable matching U-TURN platform was employed to identify synergies among four 3PL companies
- Actual data for spare truck capacities and loads were used in two pilot phases

B) Sharing Urban Consolidation Centres (UCC) for collaboratively distributing goods in the 'last mile'



Pilot Settings:

- Simulation was employed to assess the benefits of two UCCs in the ATTICA area
- Historical data of four 3PLs were provided for a period of six months

Results

A) Sharing a common vehicle

- 22% of the total loads and 49% of the total vehicles trips were matched
- 8% increase in the sectors (i.e. post codes) served per vehicle
- 11% increase in the vehicle loading factor

B) Sharing a UCC for the last mile

- 5% reduction in the total costs
- 7% reduction in CO2 emissions within the city centre
- 10% reduction in vehicles used
- 19% reduction in total distance travelled
- 11% increase in total number of delivery points visited per trip

