



Galileo-based solutions
for urban freight transport



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The main objective of the European project **GALENA** (*GALILEO-based solutions for urban freight transport*) is to demonstrate the possibility of using the Galileo solutions applied for a freight transport. GALENA created a new standard for the urban freight transport by development of an application based on two innovative approaches. First generated by a Galileo-based solution applied to the urban freight logistics and the second focused on an orchestrated urban distribution. This two-in-one technological approach is the main value of the GALENA solution for the urban freight transport.

The GALENA application relies on following three-fold system architecture:

1. **NaviGeoScan (NGS), an innovative, accurate and affordable Scanning system**, integrating Galileo geo-positioning capabilities and the ZigBee wireless standard. NaviGeoScan ensures a seamless, robust and continuous handover indoor/outdoor localization and trusted (continuous, real-time, reliable, accurate and available) location and time stamping of carriers and of their transactions.
2. **The GALENA Logistics Information System** dedicated to Urban Freight allows to exchange and store authenticated data shipment between all stakeholders, ensuring the traceability of goods, management of status changes while drawing up an objective review of the sharing of added value between the various stakeholders of a shared supply chain.
3. The GALENA **web service application** supports location and transaction tracking by shippers as well as the orchestration / freight bundling optimization process in quasi real time.

The solution developed within the GALENA project is based on the use of the key features of Galileo space mission, coupled with the security services in the handset, to timestamp, geo-locate, and formalize any events related to the urban shipment involving several carrier operators: transactions operations, goods status changes, timing issues, location issues, cost implications, insurance aspect, liability sharing and last mile logistics.

A demonstration phase of the Galena solution is set up in three phases: identification, preparation and operation. The implementation of the demonstration is in the process of preparation. The final presentation of the system will be organized in the fourth quarter of 2016 and it will take place in selected cities in Europe. The local authorities and commercial stakeholders will be involved in the GALENA system demonstration.

