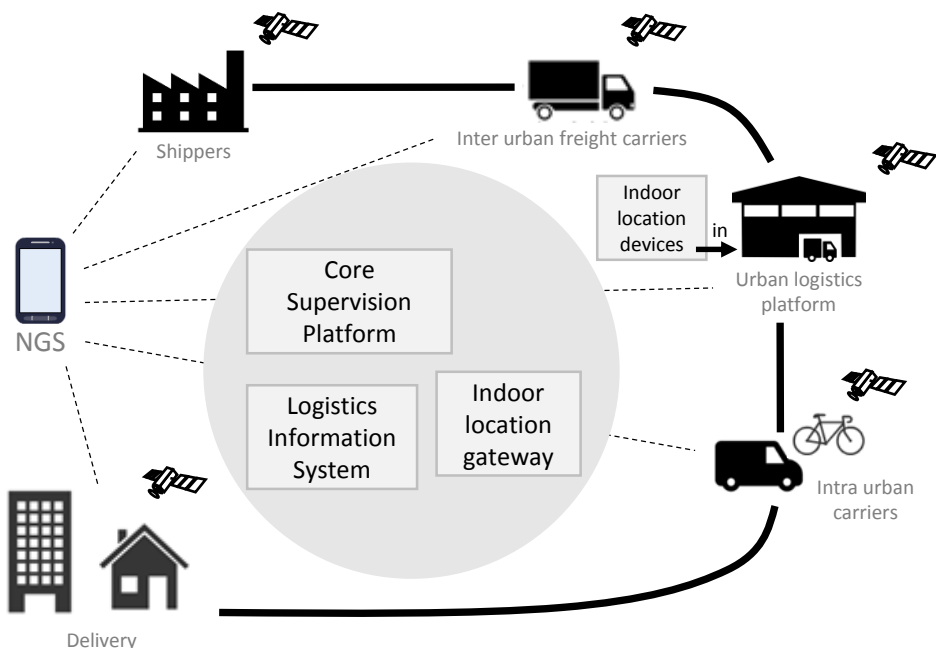




GALENA develops the hardware equipment as well as the information system and the supervision platform needed for the **cross supply chain orchestration of a community of stakeholders involved in urban freight transport pooling particularly for the last-mile delivery.**

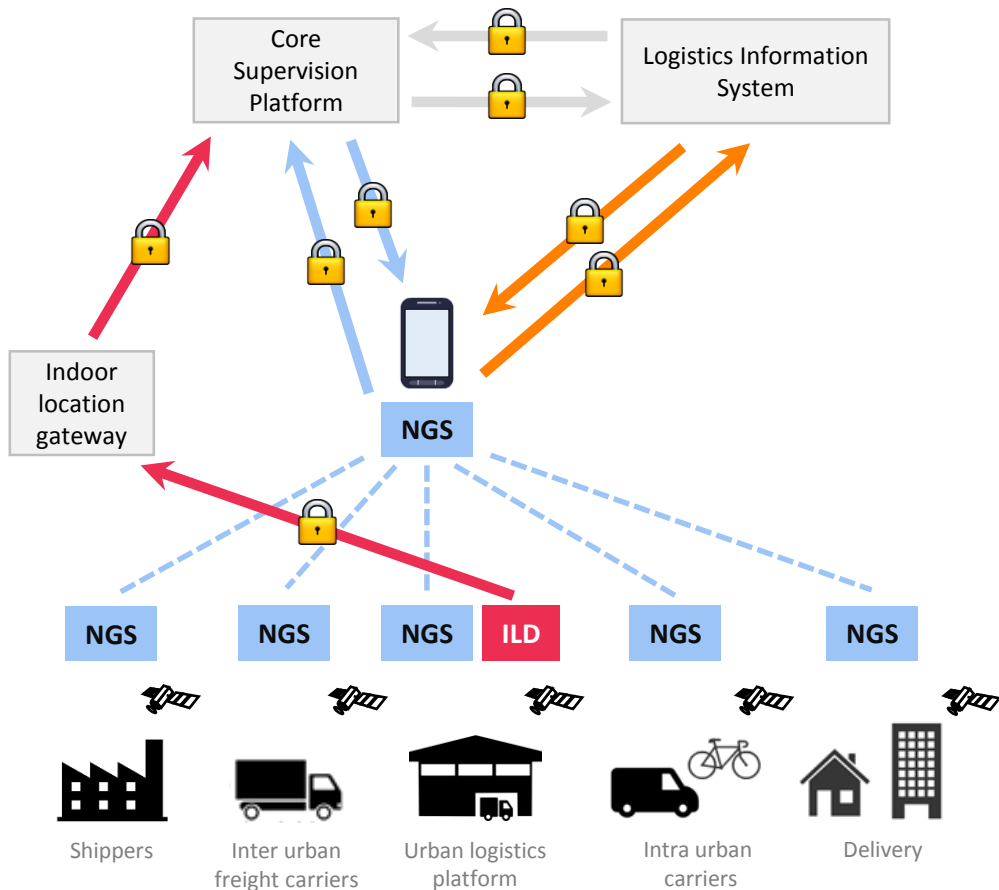
GALENA's overall architecture



4 main components of the GALENA's infrastructure:

-  **CSP: Core Supervision Platform** is Cloud-based and has the following features:
 - It is an online server that hosts the environments for development, test and production
 - It offers interfaces for users/customers and enables them to participate in GALENA as either actors or providers
 - It deploys Web Services to interface with the NaviGeoScan and the Logistic Information System
-  **NGS: NaviGeoScan** is used to scan and obtain information from a parcel as well as render the information available by communicating with the GALENA Orchestration application. NGS has the following characteristics:
 - It is an embedded solution based on smartphone material and a specific add-on
 - It can be interfaced with through Web services
 - Through native software, the device hardware interacts with web HMI as well as the GALENA interfaces
-  **LIS: Logistic Information System** that is Cloud-based and offers the following characteristics:
 - An online server to host different environments for development, tests and production
 - It is an integral part of the Web services' connection
-  **ILD: Indoor Location Devices and Gateway** consists of the following key elements:
 - A wireless infrastructure made up of several Zigbee nodes
 - A web-service-based real-time location system named Polaris

Communications between GALENA components



GALENA's Unique Value Proposition responds to these 3 main trends:

1. A firm collaboration among private and public actors in an urban area is the starting point, brought together in a well-orchestrated stakeholder community. **GALENA is COOPERATIVE.**
2. System integration using satellite navigation and other techniques or technologies in an appropriate way and which need to be connected to each other is the ultimate goal. **GALENA CONNECTS.**
3. Introducing innovation in logistics processes, through decoupling these processes in order to be able on one hand to bundle flows towards the urban area in an (cost)efficient way and on the other hand to elaborate appropriate and sustainable logistics services for the last mile coverage. **GALENA creates innovative LOGISTICS SERVICES.**

Partners:



Program:



This project is supported by the European Commission under the Innovative Action Theme of the HORIZON2020 Programme for Research and Innovation. Grant agreement no. 641515