The OPTI-TRANS system consists of:

- A Mobile GNSS-based LBS Application, providing the user all the relevant information for an optimum commute incorporating all modes of transport (both public and private)
- The OPTI-TRANS platform (the core intelligence of the OPTI-TRANS system) utilising the innovative Location-Based Ad-Hoc Group (LBAG) algorithm in order to provide the optimum solution for the users’ commuting needs based on their location

The LBAG* Algorithm guarantees an optimal selection of transport resources to best service the user’s itinerary

* LBAG is NCSR Demokritos proprietary technology

OPTI-TRANS Partners

Demokritos
National Centre for Scientific Research

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The OPTI-TRANS system is a Mobile GNSS platform which provides commuters/travellers with the ability to utilise and share public and private transportation modalities by combining information from the various public transport authorities and other private vehicle owners in order to plan their trip in an efficient manner.

The OPTI-TRANS platform utilises the LBAG algorithm creating peer-to-peer ad-hoc groups of passengers based on pre-defined geographical areas and commuter profiling information, to allow users of similar destinations/routing information to car-pool and share different modes of transport. OPTI-TRANS interfaces with existing database systems providing public transport information (timetables, routes, etc.) to provide the most optimal multi-modal solution for the users’ requirements.

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OPTI-TRANS provides an innovative, real-time, consent-based multi-modal transport planning tool assisting the commuter and traveller/tourist to plan his/her journey, by combining public and private transport modes, such as buses, metro, tram, car-pooling, etc. always taking into consideration the users’ needs and wants.

The OPTI-TRANS Platform can readily be expanded to accommodate additional transport modalities and/or user selection criteria as required by each transportation system, thus making it a truly universal platform of choice for Journey Planning.