ARIADNA

ARIADNA Fact Sheet

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Budget
€673.000

Duration
December 2019 – December 2021 (24 months)

Partners
Factual, UITP, CIT UPC, Pildo Labs, Auxilia

ARIADNA

PROJECT COORDINATOR

FACTUAL

UITP ADVANCING PUBLIC TRANSPORT

PildoLabs move smart

AUXILIA CONSEIL EN TRANSITION

CIT UPC TECHNOLOGY CENTER
UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH

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ARIADNA

Urban mobility is undergoing a profound transformation, with new mobility services and innovations allowing people to easily mix and match different modes of transportation. Therefore, public transport operators and authorities, and industrial providers must prepare to manage mobility in a more flexible and efficient way.

GALILEO, Europe's Global Navigation Satellite System (EGNSS), has the potential to enhance the quality of public transport by providing superior accuracy and improved performance of location services, while enabling the development of a wide range of new complementary mobility services.
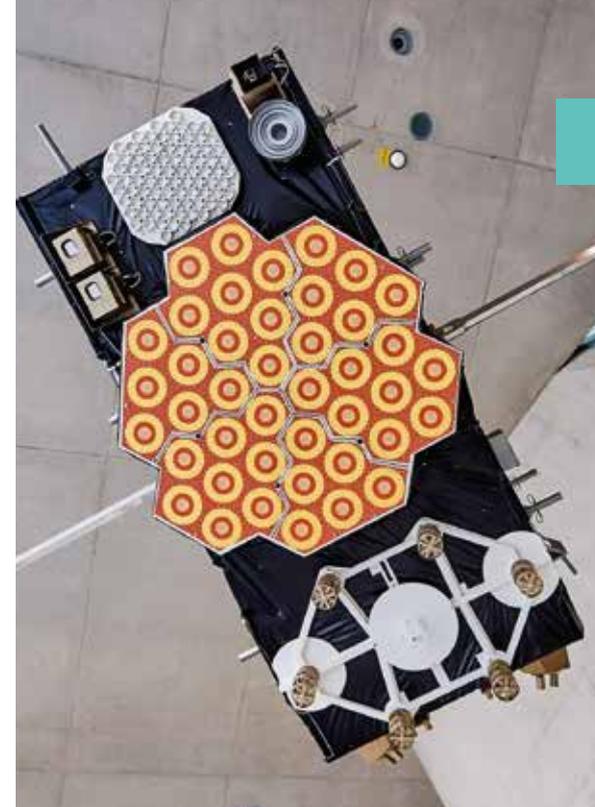
ARIADNA's Vision

ARIADNA's vision is that public transport not only includes the traditional modes such as bus, metro, tram, interurban train, and taxi, but is also the backbone of urban mobility in its broadest sense, which includes shared mobility and disruptive schemes such as Mobility as a Service (MaaS). These innovations come with a number of challenges that need to be tackled.

GALILEO is providing, already today:

- Improved positioning accuracy and reliability in urban environments.

- New security features, such as authentication, addressing the needs of payment and liability critical applications and services in the transportation domain.

ARIADNA's Objectives

RAISE AWARENESS about the technological enhancements of GALILEO; identify the most relevant challenges for improved positioning and navigation, the expected benefits and market perspectives of GALILEO in public transport and urban mobility planning and operations.

BUILD THE CAPACITY of urban mobility stakeholders, supporting their decision-making and ability to integrate GALILEO in the urban mobility market, with a focus on public transport as an entry point to the wider ITS – Intelligent Transportation Systems – sector.

FACILITATE EGNSS DEPLOYMENT by creating concrete business opportunities and strategic excellence partnerships between GALILEO and urban mobility/ public transport actors, in Europe and beyond.

ARIADNA targets the following stakeholders covering the whole urban mobility value chain:

Public Transport Authorities & Operators

GALILEO has the potential to enhance the quality of public transport, reduce operational costs, and increase efficiency, by leveraging its advanced features (i.e. more accurate positioning and authenticated services).

Cities

GALILEO has great potential that must be unlocked to help cities facilitate better mobility services by enabling reliable and highly accurate positioning of vehicles, goods and mobility services on citizens' smartphones.

Universities & Research Centres

The project brings together the so-called knowledge triangle: universities, research centres and industry, plus cities, generating scientific knowledge and disseminating outcomes through international journals and events.

Technology Providers

According to the GSA, "the advent of 5G, Automated Driving, Smart Cities and the Internet of Things is set to spawn a further proliferation and diversification of GNSS-enabled added-value services". The project will focus on public transport as an entry point to other ITS applications.

SMEs & Start-ups

The project supports SMEs & Start-ups by covering the various cycles of business development, networking with industry players and liaising with academia & research through hackathons with GALILEO-based approaches targeting challenges facing public transport.

End Users

The project will contribute to increasing confidence and boosting widespread adoption of GALILEO-supported applications by end users, in particular when accurate and reliable geopositioning for mobility services is needed.