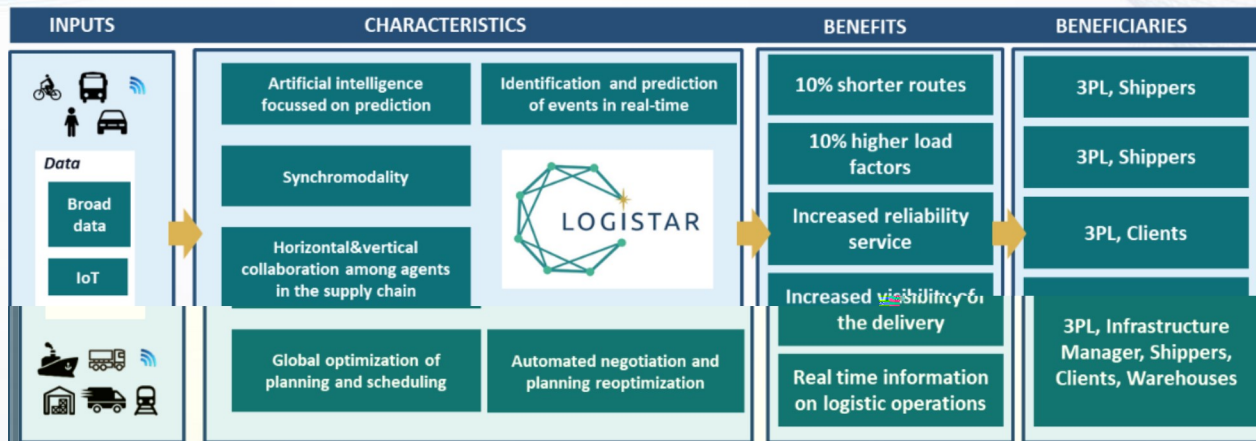- About LOGISTAR
- Overall concept
- Work packages structure
- Partners and roles

- Executed by a consortium of **15 partners** at EU level, coordinated by the University of Deusto (Spain)
- Overall budget: **4.997.548,75 €**
- Duration: **36 months** (Starting June 2018)
- Project managed by INEA agency - Innovation and Networks Executive Agency (European Commission)
- Project funded by H2020:
  - Work programme: **Smart, green and integrated transport**
  - Call: MG-5.2-2017: **Innovative ICT solutions for future logistics operations**
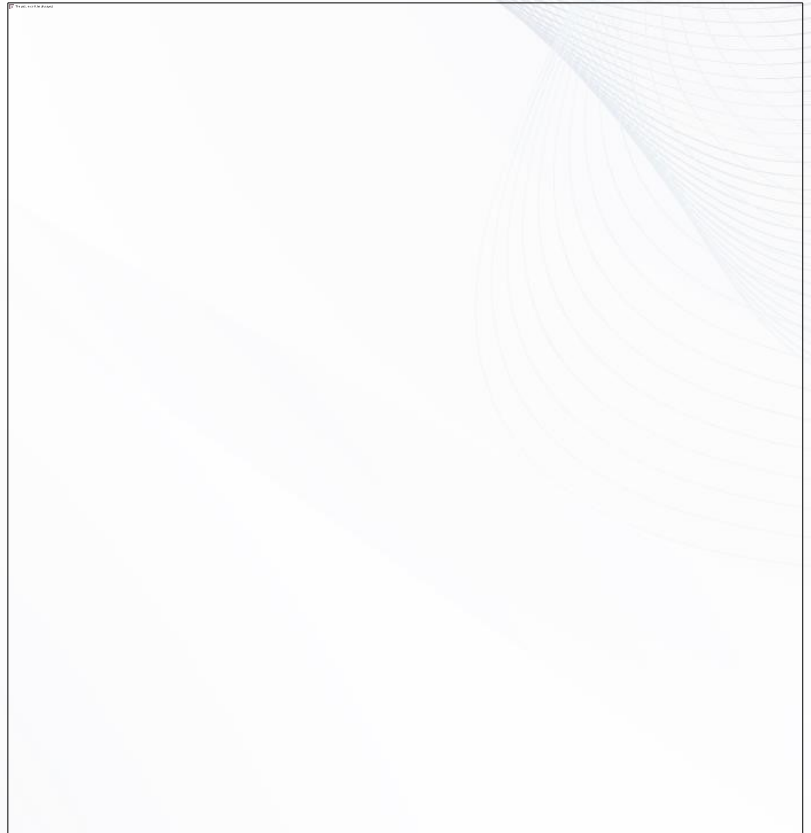
- LOGISTAR aims to: allow **effective planning and optimizing of transport operations**
  - By taking advantage of **horizontal collaboration** and relying on the increasingly **real time available data** gathered
- A **real-time decision making tool** and a **real-time visualization tool** of freight transport will be developed
  - With the **purpose of delivering information and services** to the various agents involved in the supply chain

INPUTS	CHARACTERISTICS	BENEFITS	BENEFICIARIES
Data / Broad data / IoT	Artificial intelligence focussed on prediction · Identification and prediction of events in real-time · Synchromodality · Horizontal&vertical collaboration among agents in the supply chain · LOGISTAR · Global optimization of planning and scheduling · Automated negotiation and planning reoptimization	10% shorter routes · 10% higher load factors · Increased reliability service · Increased visibility of the delivery · Real time information on logistic operations	3PL, Shippers · 3PL, Shippers · 3PL, Clients · 3PL, Infrastructure Manager, Shippers, Clients, Warehouses

- ✓ **Increasing by 10% the load factors of freight vehicles:** optimization techniques
- ✓ **Shortening by 10% the delivery routes** by relying on synchromodality
- ✓ **Increasing the reliability and efficiency of services:** predicting events and incidents.
- ✓ **Facilitating the management of logistic operations:** providing dashboards and showing alerts or recommendations.
- ✓ **Increasing the visibility of the delivery** derived from the use of sensors to monitor the goods shipped and boosting data sharing

LOGISTAR

- To **leverage the available data**, to process it and **to deliver services**
    - Data will be retrieved and harmonized
    - Sensors will be connected to a cloud IoT platform
- Information used by **smart algorithms to**
    - Predictions
    - Learning the preferences of the different participants
    - Optimization of the planning of operations
    - Automated negotiation and re-optimization
- **Real-time dashboards** which will provide an overview to managers of what is happening

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LOGISTAR

CONTROL AND DECISION-MAKING TOOL

Integral visibility and planning of resources

Planning of dynamic routing

Optimized planning of resources

Optimal routes for deliveries

Identification of events

Dynamic planning reconfiguration

Horizontal/vertical collaboration

Synchromodality management

REAL-TIME INFORMATION ON FREIGHT TRANSPORT

KPIs of real time logistics

Position of goods

Operational status

Working conditions

Arrival times

Environmental conditions

AR

DeustoTech
Mobility

Insight
UCC
University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

dbh
dbh Logistics IT AG

GENEGIS GI
Geographical Intelligence

DUNAV
NET

SEMANTIC
WEB COMPANY

Nestle

pladis

dation – Backhauling and co-loading use case

MDS Transmodal   New and emerging business models assessment

Testing and validation – Synchromodality use case

software AG   Predictive analysis and processing of real-time data

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