

## AITEC SERVICE OFFER

## FOR H2020 PROJECTS

### LOW CARBON SOLUTIONS

AITEC can make impactful contributions to help your project meet the call objectives; for example in the following topics:

#### LC-MG-1-8-2019

**Retrofit solutions and next generation propulsion for waterborne transport**

AITEC has expertise in the quantification of GHG emissions following standardized protocols, and in the development of environmental impact assessments as well as life cycle assessments. As regards dissemination towards stakeholders, AITEC has developed a specific methodology that helps the identification of acceptance barriers by users' groups., which could be applied to "facilitate take-up by key-stakeholders", as suggested in the topic.

#### LC-MG-1-10-2019

**Logistics solutions that deal with requirements of the 'on demand economy' and for shared-connected and low-emission logistics operations.**

AITEC has long been involved in the development of technological solutions for a seamless, door-to-door solution that connects all the members of the supply chain (shippers, carriers, loading and unloading sites). AITEC is expert in **cost/benefit analysis and multicriteria decision methodologies** that can help managers (in the "prioritization and combination of competing interests from the private and public sides", as suggested by the topic.

AITEC is also experienced in the **calculation of greenhouse gases, impact assessments, and Behaviour Based Safety assessments** (including training of truck drivers) and offers its knowledge in regulatory and administrative issues related with the logistics and freight transport of dangerous goods.

#### LC-GV-08-2020

**Reducing the environmental impact of hybrid light duty vehicles.**

#### LC-GV-09-2020

**Next generation electrified vehicles for urban use.**

Services offered by AITEC includes development of new concepts to reduce energy consumption and greenhouse gases emissions, scientific evidence for decision making process and planning, cross-modal transport integration solutions, and analysis of users' needs.



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# Low Carbon Solutions

*We innovate with you*



## AITEC IN A NUTSHELL

AITEC is an **R&D performing SME** established in 2002 with the aim to increase the innovation capacity, technology level, and competitiveness of companies in the industrial sector. In 2016, AITEC obtained the stamp of innovative SME, granted by the Spanish Ministry of Economy and Competitiveness.

AITEC is expert in the management of R&D projects in the fields of **transport, mobility and logistics**. It also has relevant experience in **safety, security and risk analysis of the road transport system**. AITEC has **developed and implemented several low carbon solutions for the transport and logistics** sector.

AITEC is **active in the dissemination** of scientific results on peer-reviewed scientific journals and international conferences. AITEC has a **network of contacts** around Europe (Finland, Bulgaria, etc...) and other third countries (China).

## AITEC EXPERTISE AND SERVICES

AITEC is specially compromised with the environment and the objectives of the COP21 agreement for the decarbonisation of the European Union. In order to contribute to a sustainable, resource efficient and competitive economy, AITEC has created the **CO2 Services** brand ([www.co2services.es](http://www.co2services.es)), whose mission is to help prevent climate change and global warming, by promoting reduction, absorption and emission of offset greenhouse gases between companies and associations:

[HTTP://CO2SERVICES.ES](http://CO2SERVICES.ES)

In addition, AITEC offers a variety of transversal services that are often instrumental in H2020 projects:

- **CO2 calculation methodologies** (e.g. GHG Protocol): including, training programs for professionals, calculation services for companies and associations, registration in the National Climate Registry, and development of sectorial guides for the calculation and inventory of greenhouse gas emissions.
- **Multicriteria decision making methodologies** (e.g. Analytic Hierarchy Process) for the prioritization of alternatives in the decision-making process.
- **Life cycle analysis.**
- **Corporate Social Responsibility** (including gender issues).
- **Cost Benefit Analysis.**
- **Environmental risk assessments of companies handling hazards.**
- **Methodologies for the analysis of barriers** (technical, social and economic) **of new ICT technologies** in order **to improve user acceptance/uptake/adoption by stakeholders.**
- Application of **new methodologies** (e.g. ASSIST, Volere, AHP, Bayesian networks) to solve real problems in transport companies.
- **User-Driven Innovation techniques** (e.g. Delphi, Dynamic Argumentative Delphi, co-creation, workshops, serious play methodologies).

## RELATED PROJECTS

AITEC has been involved in low-emission logistics projects such as:



**CO2 Multidecisions Terminals:** this tool improves the design of port and inland container terminals reducing the carbon footprint without affecting other relevant parameters such as safety and cost efficiency. This project has been funded by the EU (ERDF).



**OPTIPOINT:** development of a holistic decision-making process model for the design of a Terminal Operating System (TOS) of a terminal of containers, with the objective of reducing its carbon footprint without reducing efficiency. This project has been funded by the EU (ERDF).



**DIAMOND - Revealing actionable knowledge from data to support fair women's inclusion in transport systems:** is a H2020 project whose aim is to progress towards an inclusive and efficient transport system turning data into actionable knowledge. The project objectives include railways and public multimodal transport, automated and interconnected vehicles and vehicle sharing.

This project will boost the participation of women in public transport and their use of cleaner vehicles by bringing a new level of understanding of their needs and priorities.

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