

AITEC SERVICE OFFER

FOR H2020 PROJECTS

SAFETY AND SECURITY. RESILIENCE

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

MG-2-6-2019

Moving freight by Water: Sustainable Infrastructure and Innovative Vessels

AITEC's knowledge in environmental impact assessments, safety assessments and cost-benefit analysis will contribute to the improvement of the **environmental performance** of the project innovative solution.

In addition, AITEC has expertise in **extreme weather vulnerability assessments** that can be instrumental in the development of better infrastructures and better maintenance procedures in order to increase the network resilience.

Finally, AITEC previous experience in the development of solutions for the transport of dangerous goods will be very helpful for the preparation of recommendations for the **optimization of current intermodal logistic chains**.

MG-2-9-2019

InCo Flagship on Integrated multimodal, low-emission freight transport systems and logistics

AITEC has developed integrated transport solutions for freight transport that are focused on the sharing of information by all the members of the supply chain using a Cloud platform. Future research/developments will be focused on the incorporation of new technologies for a higher control, safety and efficiency in the transport sector.

Also, AITEC's research activity aims at improving the efficiency of port and inland terminals of containers, looking at the same time at the reduction of their environmental impact.

MG-2-7-2019

Safety in an evolving road mobility environment

AITEC can contribute to the achievement of this topic with its knowledge in:

- Risk assessments,
- Methodologies to analyze the interaction of women, men and vulnerable users with current and future traffic scenarios,
- Training courses (Behavior based safety courses for drivers).

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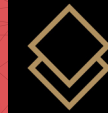
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AITEC-INTL

SAFETY AND SECURITY - RESILIENCE

We innovate with you



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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 has developed a series of tools that **provide safe and efficient solutions** to reduce human mistakes to zero in the entire **transport supply chain and in port logistics**.

AITEC also offers its **consultancy services to companies** in order to **improve the safety, security and resilience of their installations and activities**.

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

- **Resilience: Extreme weather vulnerability assessments.**
- **Self-Protection plans** for organizations whose activity may produce emergency situations.
- **Environmental risk assessments** of companies handling hazards.
- **SQAS (Safety & Quality Assessment for Sustainability)** to evaluate the quality, safety, security, environmental and corporate social responsibility performance of carriers, freight forwarders, warehouses, tank cleaning stations and chemical distributors.
- **Methodologies** based on quality, environment risk and safety aspects (OHSAS 18001, ISO 9001, ISO 14001, and ISO 31000).
- **Multicriteria decision making methodologies** (e.g. Analytic Hierarchy Process) for the prioritization of alternatives in the decision-making process.
- **Methodologies to analyze user interaction with the transport sector.**
- Application of **new methodologies** (e.g. ASSIST, Volere, AHP, Bayesian networks) **to solve real problems in transport companies.**
- **Cost Benefit Analysis.**
- **User-Driven Innovation techniques** (e.g. Delphi, Dynamic Argumentative Delphi, co-creation, workshops, serious play methodologies).

RELATED PROJECTS

AITEC has been involved in several projects for the improvement of the safety and security of the transport infrastructures and procedures along the supply chain, such as:



CO2 Multidecisions Terminals: this tool improves the design of port and inland container terminals, optimizing safety by avoiding the stacking of containers with chemicals, and decreasing the probability of accidents. Another parameter considered in the design was the reduction of the carbon footprint without affecting other relevant parameters as cost efficiency. This project has been funded by the EU (ERDF).

gADGeTs - Advanced tool for Dangerous Goods Transport is an EUREKA labeled project. The aim of this project is to develop an innovative solution for the management, security and traceability of dangerous goods transport. The new solution integrates different technical disciplines in the dangerous goods supply chain for a minimal human intervention, increasing the safety, efficiency, synchromodality and interoperability of the parties involved, in order to achieve a truly integrated transport.



DIAMOND - Revealing actionable knowledge from data to support fair women's inclusion in transport systems: aims at progressing towards an inclusive and efficient transport system through an interdisciplinary analysis combining methods from social sciences and computer science. The project will provide a toolbox that will give recommendations on how to achieve fair inclusiveness for women in the use of railways and public multimodal transport.



AITEC contribution to the project includes the development of the DIAMOND methodology for the analysis of data, digital questionnaires to obtain data from women and online consultation based on Dynamic Argumentative Delphi (DAD) method.