



# BATTERI

**'Better Accessible Transport to Encourage Robust Intermodal Enterprise'**



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### About the Project

BATTERIE is a 14 strong collaboration bringing together partners from across the Atlantic Area Regions in the UK, Ireland, France, Spain and Portugal. The project, which has been awarded strategic status, receives funding from the European Regional Development Fund (ERDF) under the Atlantic Area Programme.

Led by Action Renewables from Northern Ireland, BATTERIE will look at innovative ways to integrate alternative fuels and smart technology into international air, road, rail and sea transport networks. With rising utility prices and energy security issues topping national and regional agendas, BATTERIE will focus on providing answers to the most pressing issues affecting member states. This will include hot topics such as the future impact of rising fuel costs and fuel shortages, and identifying how smart technologies and alternative fuel use can rise to meet future challenges.

### Objectives

This project is about transportation and it recognises that there are difficult issues to be addressed. For example issues around intermodal links between road, rail, air and sea; better coordination of services supplied by various operators; local accessibility of many airports. The overall objective of BATTERIE is to establish better accessible and sustainable transport, which will in turn encourage and secure more effective and smooth operation of existing transport infrastructure in the Atlantic Area. We will explore: Effective interconnection between all intermodal networks; How to introduce smart technologies; Identifying the alternative fuel sources available.

By examining how effectively all the current intermodal networks operate, and by examining the impact of smart technology and alternative fuels, our objective is to establish and share best practice in making the alternative models available and commercially sustainable.

Some Specific objectives are:

- Contribute to providing an easier transition between modes of transport, and improved connectivity between road, rail, air and sea
- Deliver a web-based journey-planning tool to facilitate intermodal journeys across the Atlantic Area maximising the use of smart technology and alternative fuels
- For smart technology and alternative fuels we will map and model availability and future development, costs and environmental impact (reducing CO2 emissions)
- Design scenarios and models of changes to policy, behaviour and transnational strategies
- Communicate the results of BATTERIE
- Deliver a pilot network conference



## Work Packages

### Smart Technologies and Alternative Fuels

- Examine how effectively all the intermodal networks interoperate
- Identify what smart technologies are available
- Identify the alternative fuel sources available and establish the various stages of development
- Identify the status of existing infrastructure development and the availability of the fuel
- Establish best practice for wider introduction
- For smart technology and alternative fuels map and model availability and future development, costs and environmental impact

### Intermodality

- Establish the potential impact on road, rail, sea and air intermodality, of what will happen if things continue as they are
- Examine the future potential impact of the introduction of smart technologies, including alternative fuels (link with WP 3 & 5)
- Establish and document the relationship between alternative fuel type and rural/urban divide, behaviour, legislative frameworks and economic environment in each partner region and current progress towards standardisation in the Atlantic Area.

### Communications

- Communicate the outcome of BATTERIE to consumers, policy makers, local and regional authorities and the EU (link with all work packages)
- Ensure the sustainability of BATTERIE into the future
- Establish how the outcomes can be used to educate and how they can be communicated to consumers in an Atlantic Area guidance document
- Deliver policy advisory workshops in each partner region

### Policy & Behaviour

- Identify and design scenarios and models of changes to policy, behaviour and transnational strategies
- Identify and design possible strategies and changes to legislation, taxation, fuel duties and other legislative tools
- Develop scenarios and model potential changes to driving techniques and behaviours
- Develop regional guidance documents for regional authorities

### Pilot Networks

- Establish a 'journey' through all of the regions, to test smart technologies and alternative fuels and more importantly to test how these provide an easy transition between modes of transport.
- Demonstrate best practice in making the smart technologies and various fuel sources available. Deliver a pilot network conference
- Deliver a web-based journey-planning tool to facilitate intermodal journeys across the Atlantic Area maximising the use of smart technology and alternative fuels

## Results

- A report on the effectiveness of all intermodal networks in Atlantic Area
- An outline of the various smart technologies, which could have an impact
- An outline of the various stages of development, environment and safety aspects of alternative fuels, and alternative fuel supply chain development in the Atlantic Area and an interactive BATTERIE website-based map of alternative fuel supply points will be produced.
- A guidance document will be produced detailing current and modelled future alternative fuel supply chains in the Atlantic Area, including environmental impacts, safety, electricity grid impact and best practice
- Regional Action Plans addressing intermodality and interoperability of existing transport networks using smart technology and alternative fuels
- Transnational, national, regional and local guidance documents for authorities
- Established pilot journey in each region
- Transnational website created, hosting alternative fuel supply maps and journey planning tool to facilitate journeys across the Atlantic Area using alternative fuels

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[www.batterie.eu.com](http://www.batterie.eu.com)

## Full Partners

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