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D5.1 MISTRAL website

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1. Executive summary

The document presents the implementation and structure of MISTRAL project public website.

The content of the site and its tags will be detailed and justified.

The MISTRAL public website (<http://www.mistral-s2r-project.eu>) will be officially launched on December, 1st.

2. Introduction

2.1 Purpose and scope of this deliverable

The D5.1 MISTRAL website contains the explanation and justification of the project website, designed as a dissemination tool which allows easy access to MISTRAL – related information for the wider railway industry and other interested parties, offering general information, both static and dynamic.

2.2 Scope

The present document aims to present the design and structure of the website. The description of MISTRAL website role as a dissemination tool will be detailed in D5.2 Dissemination Plan.

3. Project description

3.1 Purpose

MISTRAL will elaborate the Technical Specification of the future communication system for all railways in light of the migration from the current obsolete GSM-R. The new radio system will leverage the broadband capacity of IP-based wireless communication to enhance signalling but also to make possible innovative services for both users and train automation/control. To achieve the objective, MISTRAL will generate firstly a portfolio of foreseeable future communication scenarios. Then, a Techno-Economic Proposition consistent with future scenarios will be defined, including a portfolio of innovative services ushered-in by new technologies and compliant with new users requirements as well as with safety, security and QoS requirements. Such Techno-Economic proposition will be subject to a Business Viability Analysis - meant to gauge and optimize the total-cost-of-ownership of the new communication system - and to a Technical Viability Analysis that will investigate the compliance with the new requirements. Subsequently, the results of such Business and Technical Viability Analysis will be used as basis to refine and finalize the Validated Techno-Economic proposition, which will thus rely on an optimized life-cycle cost and on a sound portfolio of innovative services. The Validated Techno-Economic proposition will be the main output of MISTRAL, i.e. the 'Technical Specification' scope of the topic. Its design and validation will be supported by an External Stakeholder Committee, involving selected key players in the Railway domain, external to the MISTRAL Consortium. In addition, MISTRAL will disseminate project findings to relevant stakeholders and communities and will ensure the sustainability and impact of the new specified communication system, In terms of far-reaching impact, MISTRAL will lay the foundations for the next-generation train-to-wayside communication systems, paving the way for a more competitive, attractive and sustainable European railway ecosystem.

The Consortium brings together strong research groups with a background in academic and independent research labs in the field of applied science. An SME and industry will be deeply involved in both the R&D and the deployment and exploitation of the results of the project. The project will leverage on the work that several of the partners have developed together in previous successful EU research projects, from which they carry over concepts and technologies to the MISTRAL project thus considerably reducing the overall RTD efforts.

3.2 Partners

The MISTRAL Consortium consists of the following Partners:

Beneficiary Number	Beneficiary name	Beneficiary short name	Country
1	ISTITUTO SUPERIORE MARIO BOELLA SULLE TECNOLOGIE DELL'INFORMAZIONE E DELLE TELECOMUNICAZIONI	ISMB	Italy
2	SIRTI – SOCIETA PER AZIONI	SIRTI	Italy
3	TECHNISCHE UNIVERSITAET DRESDEN	TUD	Germany
4	Ardanuy Ingenieria, S.A.	Ardanuy	Spain

Table 1 - Partners

4. MISTRAL website structure

The tags and elements implemented on the projects website are detailed below.

4.1 Header & Footer

The elements in the header and footer of the website are fixed regardless of the page actually chosen.

- The website header allows a user to navigate to other parts of the website and includes the links to Mistral social media;

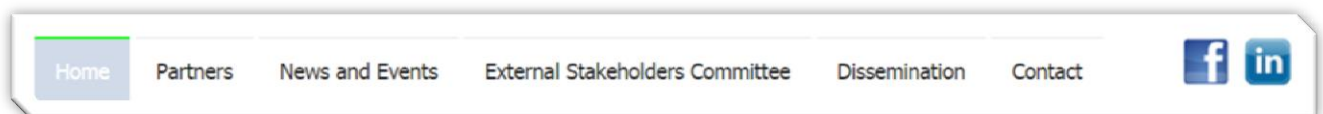


Figure 1 – MISTRAL header

- The website footer contains:
 - Elementary project information (funding program and S2R and EU logos);
 - The date of the last update.

4.2 Homepage

Homepage displays key MISTRAL static information:

- Description and purpose;
- S2R short description and purpose;
- Illustration.




Home Partners News and Events External Stakeholders Committee Dissemination Contact  

MISTRAL - Communication Systems for Next-generation Railways

The MISTRAL project falls within the scope of the Shift2Rail topic S2R-OC-IP2-03-2015 – Technical specifications for a new Adaptable Communication system for all Railways.

Shift2Rail (S2R) is the European public-private Joint Undertaking (JU) for rail research, will improve the state of the art of rail technology and revolutionize rail as a mode of transport for both passengers and freight. Shift2Rail has 3 main targets: increase capacity, boost reliability, and reduce lifecycle cost of the rail system.

MISTRAL will elaborate the Technical Specification of the future communication system for all railways in light of the migration from the current obsolete GSM-R. The new radio system will leverage the broadband capacity of IP-based wireless communication to enhance signaling but also to make possible innovative services for both users and train automation/ control. To achieve the objective, MISTRAL will generate a Techno-Economic proposition, which will rely on an optimized life-cycle cost and on a sound portfolio of innovative services. The Validated Techno-Economic proposition will be the main publicly available output of MISTRAL.

Its design and validation will be supported by an External Stakeholder Committee, involving selected key players in the Railway domain.

In terms of far-reaching impact, MISTRAL will lay the foundations for the next-generation train-to-wayside communication systems, paving the way for a more competitive, attractive and sustainable European railway ecosystem.

What does the Railway Sector really look like? (ETIM, WTC, S&P)

What Quality of Service does the Railway Sector need? (ETIM, WTC, S&P)

What have future Communication Markets to Offer the Railway (ETIM)?

Technical Feasibility (ETIM, WTC, S&P, Consultants)

Business Scenario Viability for Adaptable Communications

Reference Case (ETIM, WTC, S&P, Network)

What have future Services has the Core Market to Offer for Railway (ETIM)?

Facts:
Project start: 01/11/2016
Project duration: 2 years
Funding: MISTRAL project received funding from the Shift2Rail Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement No 730840.
Coordinator: Istituto Superiore Mario Boella (ISMB)
Consortium: Istituto Superiore Mario Boella (Italy), SIRT I S.A. (Italy), Technische Universitaet Dresden (Germany); Ardanuy Ingenieria, S.A. (Spain).
Contact: spirito@ismb.it



MISTRAL project received funding from the Shift2Rail Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement No 730840.




Figure 2 – MISTRAL homepage

4.3 Partners

This page includes project partners` logos with links to their respective websites.

 <p>Istituto Superiore Mario Boella</p>	<p>ISTITUTO SUPERIORE MARIO BOELLA SULLE TECNOLOGIE DELL'INFORMAZIONE E DELLE TELECOMUNICAZIONI</p> <p>Web site: http://www.ismb.it Organization Type: Research Institute</p>
	<p>Sirti S.p.A</p> <p>Web site: http://www.sirti.it Organization Type: Large Enterprise</p>



 TECHNISCHE UNIVERSITÄT DRESDEN	Technische Universität Dresden „Friedrich List“ Faculty of Transport and Traffic Sciences Web site: http://www.tu-dresden.de/vkw Organization Type: University
 Ardanuy	ARDANUY INGENIERÍA, S.A. Web site: http://www.ardanuy.com Organization Type: Small and Medium-sized Enterprise

Table 2 – Partners page

4.4 News&Events

News & Events contains the list of project news and information about related events. The page will be updated continuously throughout the lifetime of the project and displays the date of the last update.

4.5 Dissemination

This page contains publicly available dissemination materials, documents and presentations approved by the Consortium partners and downloadable from MISTRAL web site.

4.6 Contact

This page contains ISMB contact information.

4.7 External Stakeholders Committee

This page contains External Stakeholder` logos with links to their respective websites.

5. List of tables, figures and references

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5.3 References

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