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Open Website

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Summary

The MatISSE open website was designed and developed with the aim to address the key questions that external visitors are expected to have, including:

- What the project is about
- What the project is delivering, and why
- Who the partners of the project are
- What the past and present related projects in the field are
- Where to find more information on the topic or related topics

The MatISSE open website was officially launched in October 2014. It will be continuously updated and will evolve with the lifecycle of the project.

Approval

Rev.	Date	First author	WP leader	Project Coordinator
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Distribution list

Name	Organisation	Comments
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Table of contents

1	Introduction	4
2	Content.....	4
2.1	Homepage	4
2.2	The Project	5
2.2.1	Context & Objectives.....	5
2.2.2	Management structure	5
2.2.3	Consortium	6
2.3	Activities.....	7
2.3.1	Activities Overview	7
2.3.2	Expected Results.....	7
2.4	Library.....	8
2.5	News & Events	8
2.6	Members Area	8
3	Browser compatibility	8
4	Conclusion	8

1 Introduction

The general communication objective of Work Package 6 Task 3 in the MatISSE project is to develop and maintain the MatISSE public website. This website provides general information on the Project, is used to communicate on news and events and provide an online space for registering to the international workshop.

This document outlines the main sections and technical characteristics of the website.

2 Content

The website aims to promote MatISSE, the progress achieved and disseminate the results stemming from the project.

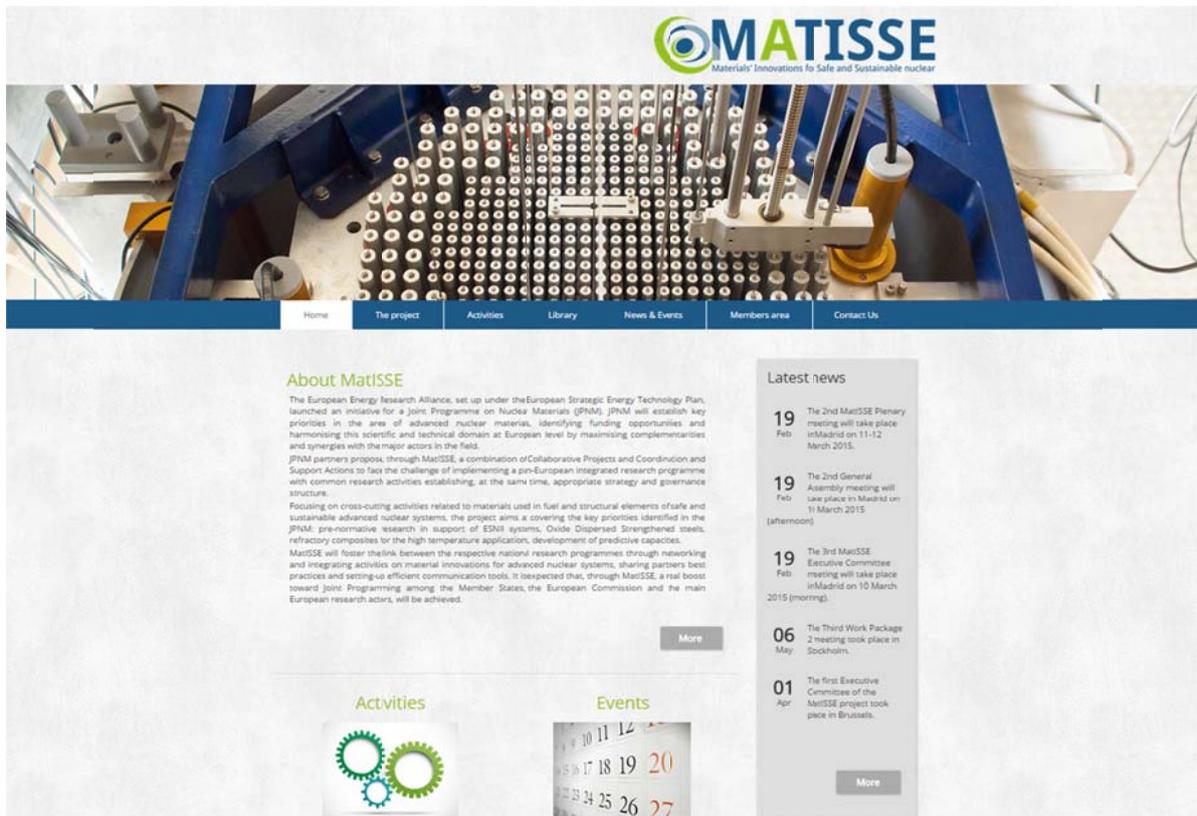
In order to make available useful and relevant information for visitors it was decided that the website should address the needs and the questions that would most likely interest external stakeholders or visitors, such as:

- What the project is about
- What the project is delivering, and why, including its vision
- Who the partners of the project are
- What the past and present related projects in the field are
- Where to find more information on the topic or related topics

The content was drafted in a non-expert language in order to be comprehensible for the general public.

2.1 Homepage

The MatISSE homepage introduces the project and its objectives.



2.2 The Project

Under the *Project* section, visitors can find information on the *Context & Objectives* of the project, the *Management Structure* and the *Consortium*.

2.2.1 Context & Objectives

Context & Objectives

MatISSE has the ambition to prepare the building of a European integrated research programme on materials innovation for a safe and sustainable nuclear. It is foreseen as a Combination of Collaborative-Projects and Coordination and Support Actions.

R&D organisations with a variety of expertise, competences and testing facilities have been given the mission by their governments to contribute to R&D&I efforts on advances in materials for energy. Under the auspices of the European Energy Research Alliance (EERA), these partners have set-up a Joint Programme on Nuclear Materials (JPNM) with the objective of better coordinating national initiatives, EC funded programs and, possibly, other private-public or transnational collaborations.

The coordination and support action of MatISSE focuses on its most effective evolution of JPNM. This may include:

1. networking with public authorities;
2. harmonisation of best practices and implementation of communication tools;
3. a common strategy, appropriate organisation, governance, finances, knowledge management, and the organisation of calls.

Moreover, MatISSE comprises targeted R&D activities in thematic areas considered as priorities by the JPNM partners. The selected scientific and technical work is directed to progress in the fields of conventional materials, advanced materials and predictive capabilities.

These R&D fields are relevant for the European Sustainable Nuclear Industrial Initiative (ESNI) and most theoretical and experimental approaches are considered for fission and fusion research. In particular, emphasis has been put on materials used for fuel and structural elements in advanced nuclear systems, including the fuel/cladding interaction.

Latest news

- 19 Feb** The 2nd MatISSE Plenary meeting will take place in Madrid on 11-12 March 2015.
- 19 Feb** The 2nd General Assembly meeting will take place in Madrid on 10 March 2015 (afternoon).
- 19 Feb** The 3rd MatISSE Executive Committee meeting will take place in Madrid on 10 March 2015 (morning).
- 06 May** The Third Work Package 2 meeting took place in Stockholm.

2.2.2 Management structure

Management structure

The MatISSE Consortium comprises 27 participants. Managing a project with such a large number of participants requires a strong, coherent and efficient management structure. The fact that the partners already collaborate in the framework of the EERA Joint Programme on Nuclear Materials and other FP7 projects facilitates the coordination and management procedures.

The MatISSE Project has been structured in order to optimise the production, dissemination and potential exploitation of the generated knowledge.

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- 01 Apr** The first Executive Committee of the MatISSE project took place in Brussels.

Management Structure Diagram:

- JPNM Steering Committee** (EERA) reports to the **Governing Board**.
- The **Governing Board** reports to the **European Commission**.
- The **JPNM Steering Committee** reports on decisions regarding JPNM strategy, roadmap, governance to the **MatISSE Coordinator**.
- The **MatISSE Coordinator** reports on decisions regarding MatISSE to the **MatISSE Executive Committee**.
- The **MatISSE Executive Committee** reports on decisions regarding MatISSE to the **Governing Board**.
- The **MatISSE Executive Committee** oversees the **CSA** (Coordinating Support Action) and **R&D&I** (Research and Development & Innovation).
- The **CSA** and **R&D&I** are supported by **WP1** through **WP5**.
- The **MatISSE Executive Committee** also oversees the **Stakeholder Group** and **Scientific Advisory Committee**.

2.2.3 Consortium

The *Consortium* section lists the partners participating in the project, including their logos and a link towards their website.



MATISSE
Materials' Innovations for Safe and Sustainable nuclear

Home The project Activities Library News & Events Members area Contact Us

Consortium

The MatISSE Consortium gathers the most relevant European research organisations for the deployment and completion of this challenging and innovative programme. It includes **National** as well as **European Research Laboratories, Universities and Private organisations**.

27 organisations from 10 European countries (including an international partner from Korea) make up the Project consortium, with most of them participating to the latest initiatives at European level in the framework of Nuclear fission.

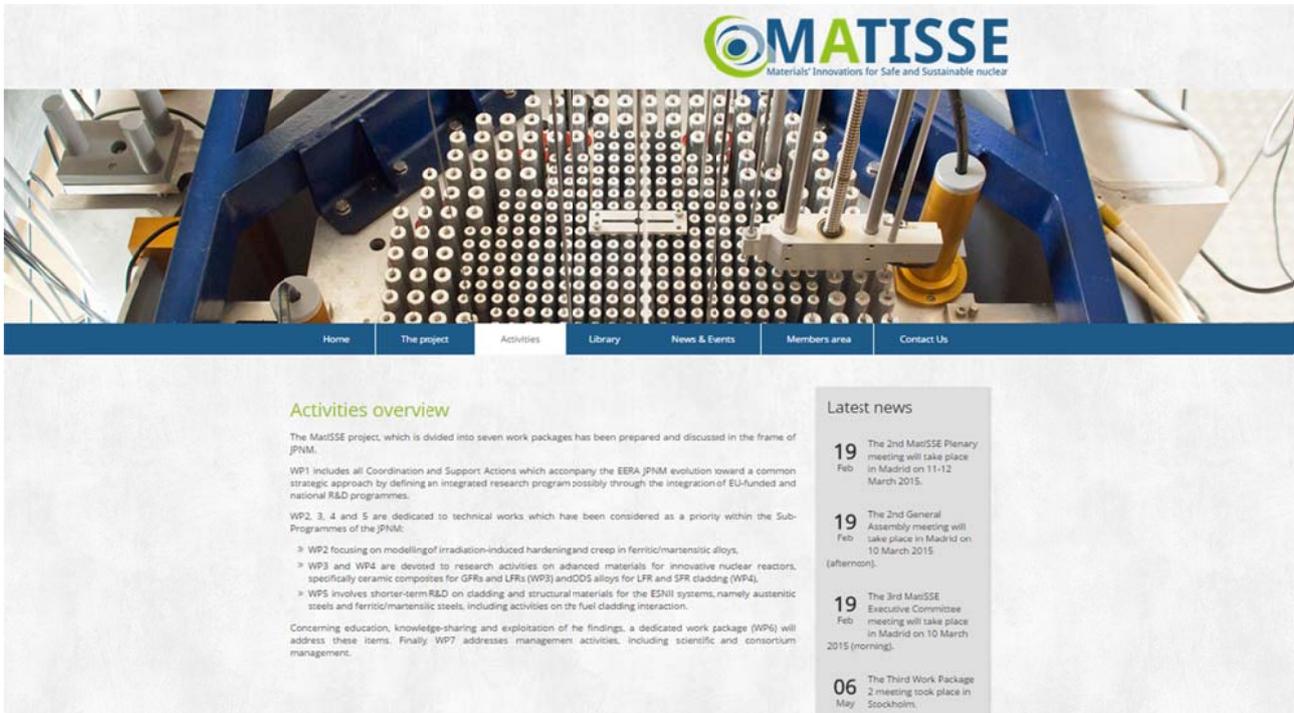
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[More](#)

2.3 Activities

2.3.1 Activities Overview



Activities overview

The MatISSE project, which is divided into seven work packages has been prepared and discussed in the frame of JPNM.

WP1 includes all Coordination and Support Actions which accompany the EERA/JPNM evolution toward a common strategic approach by defining an integrated research program possibly through the integration of EU-funded and national R&D programmes.

WP2, 3, 4 and 5 are dedicated to technical works which have been considered as a priority within the Sub-Programmes of the JPNM:

- » WP2 focusing on modelling of irradiation-induced hardening and creep in ferritic/martensitic alloys.
- » WP3 and WP4 are devoted to research activities on advanced materials for innovative nuclear reactors, specifically ceramic composites for GFRs and LFRs (WP3) and ODS alloys for LFR and SFR cladding (WP4).
- » WP5 involves shorter-term R&D on cladding and structural materials for the ESNII systems, namely austenitic steels and ferritic/martensitic steels, including activities on the fuel cladding interaction.

Concerning education, knowledge-sharing and exploitation of the findings, a dedicated work package (WP6) will address these items. Finally WP7 addresses management activities, including scientific and consortium management.

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2.3.2 Expected Results



Expected results

One of MatISSE's main objectives is to effectively support the JPNM evolution toward an integrated research program which should involve the Member States, the European Commission and the main European research stakeholders. In this frame the expected results are:

- » a strategy to structure JPNM
- » the definition of a medium and long-term research strategy, as well as a road-map and an access scheme to large research infrastructures
- » preparation of governance financial and management structures
- » scheme for E&T, networking, dissemination and communication

Moreover, MatISSE will comprise targeted R&D activities in thematic areas considered as priorities by the JPNM partners. Here expected results are:

- » progress towards a correct assessment of the effects of irradiation-induced hardening and creep mechanism on the performance in operation of ferritic/martensitic alloys
- » assessment of the potentialities of ceramic composites as advanced fuel cladding for GFR and novel structural materials for LFR
- » elaborate the pre-designing of Oxide Dispersion Strengthened (ODS) steels to be used as cladding for fast neutron reactors
- » enlargement of the database of commercially available materials to be used for the fast neutron prototypes and demonstrators; Selection of functional coatings and modified surface layers; as well as classification of phenomena as fuel-cladding interaction and Environment Assisted Degradation of steels in liquid lead alloys

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2.4 Library

The *Library* page will provide additional information on the project, such as communication material (brochures/flyers), as well as documents on the results produced in the project, public reports from past or ongoing related activities and related links. This section will be updated as these documents are made publicly available.

2.5 News & Events



2.6 Members Area

The *Members Area* is a link that directs visitors to the private collaborative workspace for partners.

3 Browser compatibility

The website is compatible with the common web browsers on all common operating systems. These include various versions of Internet Explorer, Firefox, Safari, Opera and Chrome.

The layout of the website is also responsive: it adjusts the design display based on the screen size of the device it's viewed on, regardless of whether it is viewed on a desktop, tablet or mobile.

4 Conclusion

The MatISSE website will be updated regularly and will remain a flexible tool, content and structure may evolve if necessary.