

H2020-JTI-EuroHPC-2019-1

Project no. 956748

## **ADAPTIVE MULTI-TIER INTELLIGENT DATA MANAGER FOR EXASCALE**

### **D8.1** **Project web page**

Version 1.0

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Dissemination Level		
<b>PU</b>	Public	✓
<b>PP</b>	Restricted to other programme participants (including the Commission Services)	
<b>RE</b>	Restricted to a group specified by the consortium (including the Commission Services)	
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	

## Change Log

Rev.	Date	Who	Site	What
1	21/04/21	Jesus Carretero	UC3M	Document creation.

# Executive Summary

This deliverable describes the **ADMIRE** project website, that is publicly accessible at <https://www.admire-eurohpc.eu>.

The website is hosted by University Carlos III of Madrid.

The website is used for project dissemination, planning of meetings, publishing of project reports (deliverables), publications, talks, posters, etc.

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# Chapter 1

## Introduction

The key objectives of WP8 are to:

- disseminate research results to the scientific community;
- ensure awareness of the results in the user community;
- raise general public awareness of the **ADMIRE** project;
- define individual exploitation plans; and,
- manage existing and new intellectual property.

As such, this deliverable describes the **ADMIRE** website, which aims to address the key objectives for dissemination, awareness, and exploitation of the project results. We introduce the design of the website in terms of its structure and hosting, and then finish with a report on the Google Analytics Traffic Statistics.

## Chapter 2

# The ADMIRE Website

The consortium has set up an Internet website with both public and private areas. The partners will be able to use the private areas for sharing information including documents, scientific papers, minutes of meetings, progress reports, conference presentations, posters, etc.

ADMIRE will actively maintain this website including the project description, news, press releases, public deliverables, publications, software packages, and software manuals. The website will also provide web forms for collecting feedback and comments.

### 2.1 Website Hosting

The website is hosted by UC3M on a privately hosted server. The website can be accessed at:

<https://www.admire-eurohpc.eu/>

All project participants who are active in maintaining the website have been granted access to this server. Javier Garcia-Blas from the University Carlos III of Madrid is the lead website maintainer.

The website is implemented using Wordpress. The content of the website is updated manually by the maintainers. This permits to simplify the website implementation given that we can reuse plugins and external tools, such as Twitter feed. Maintenance is performed by logging into the back-end and creating/editing the content. Furthermore, external users cannot obtain membership to documents that are not public. Only documents that are publicly available are published to the website.

### 2.2 Website Structure

The website is designed to have a modern layout based on layers and Javascript effect while enabling the compatibility with mobile devices such as cell-phones and tables. Figure 2.1 illustrates the main page of the website. The layout is such that, on top of the page, there is a large title and logo clearly displaying the project name.

Underneath the logo, is the main content panel, as a menu for navigation.

The contents of the page is split into two columns. On the left, is a twitter feed, that is displaying real time updates live from the project's Twitter account (@admire\_eurohpc). In the right column we display the content and information that is relevant for that page. Each page of the website follows this structure, with the right panel changing appropriately depending on the theme of the page being displayed.

Our approach is illustrated in the main page. Here, we state the project's approach, and also a diagram showing the general software engineering methodology that the project aims to deliver.

#### 2.2.1 Twitter Feed

Figure 2.2 illustrates the website Twitter feed, that is displayed on each page in the left column. This panel shows real-time updates, including tweets and retweets from the project's Twitter account (@admire\_eurohpc).



## Summary

The growing need to process extremely large data sets is one of the main drivers for building exascale HPC systems today. However, the flat storage hierarchies found in classic HPC architectures no longer satisfy the performance requirements of data-processing applications. Uncoordinated file access in combination with limited bandwidth make the centralized back-end parallel file system a serious bottleneck. At the same time, emerging multi-tier storage hierarchies come with the potential to remove this barrier. But maximizing performance still requires careful control to avoid congestion and balance computational with storage performance. Unfortunately, appropriate interfaces and policies for managing such an enhanced I/O stack are still lacking.

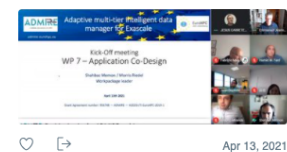
The main objective of the ADMIRE project is to establish this control by creating an active I/O stack that dynamically adjusts computation and storage requirements through intelligent global coordination, malleability of computation and I/O, and the scheduling of storage resources along all levels of the storage hierarchy. To achieve this, we will develop a software-defined framework based on the principles of scalable monitoring and control, separated control and data paths, and the orchestration of key system components and applications through embedded control points.

Our software-only solution will allow the throughput of HPC systems and the performance of individual applications to be substantially increased – and consequently energy consumption to be decreased – by taking

## Recent Posts

### ADMIRE Kick-off meeting

**admire-eurohpc**  
@admire\_eurohpc  
WP7 Presentation "Application Co-Design". Leader: Shahbaz Memon / Morris Riedel (FZJ).



**admire-eurohpc**  
@admire\_eurohpc  
WP5 Presentation "Sensing and profiling". Leader: Jean-Thomas Acquaviva (DDN)

Figure 2.1: Main web page of the project.

This is an easy way to keep news items up to date and disseminate our research work activities. It also enables the website to reach out to the participants of the project, and also those who are actively following our research.

## 2.2.2 Consortium

Figure 2.3 shows the consortium menu entry, which lists the institutions and companies involved in the project.

## 2.2.3 Objectives

The aims section lists the project's objectives as outlined in the project proposal. Figure 2.4 shows an illustration of this page as it is on the website.

## 2.2.4 Use Cases

The project technologies will be co-designed, demonstrated, and evaluated by using six use case applications developed and used by the project participants and third-party applications. The use case applications have been carefully selected to showcase any of the features that will be provided by ADMIRE. All of them are in use in PRACE centers or CoE. Below we provide a short description of each use case application.

Web page shown in Fig. 2.5 shows a description of the uses cases pursued in ADMIRE.

## 2.2.5 Deliverables

Deliverables section will illustrate the web page for the project deliverables. Here *public* deliverables for the project are available for download, including a description and title of the deliverable and which work-package it belongs to. If any deliverable contains commercial sensitive information, provided by an industrial partner, for example, a cut-down version of the deliverable can be available for download instead.

## Recent Posts

### ADMIRE Kick-off meeting

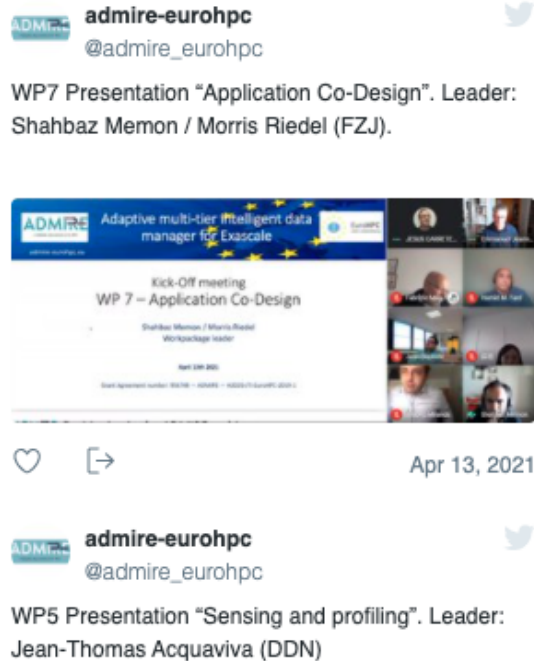


Figure 2.2: The **ADMIRE** Twitter feed.

### 2.2.6 Publications

Publications section will show details of the project’s publications. These include conference, journal and workshop publications by the project participants; also technical reports and project posters. The details of each publication includes the authors of the publication, the venue, year and month, publisher, and title. If the publication is published in an open access venue, a link to the PDF may also be provided. Currently, this list is maintained manually, with participants emailing the website maintainer with details of their publications to be uploaded to the website. Project participants are reminded once a month to send relevant and up to date details.

### 2.2.7 Events

Events that are organised by the project, including project workshops, meetings, conferences and other events are displayed on the events page. These are organised and maintained by the project participants and give a chance for the public to attend the non-private project events.

The structure of the page is shown in Fig. 2.6.

### 2.2.8 News

Up to date relevant news and events are displayed on this page.

Here, current news items relating to the project’s dissemination activities are displayed, with their date. All relevant news items are passed to the website maintainer. In addition to this dedicated page, news items are also displayed on each page of the website, on the far right column of the main content panel.



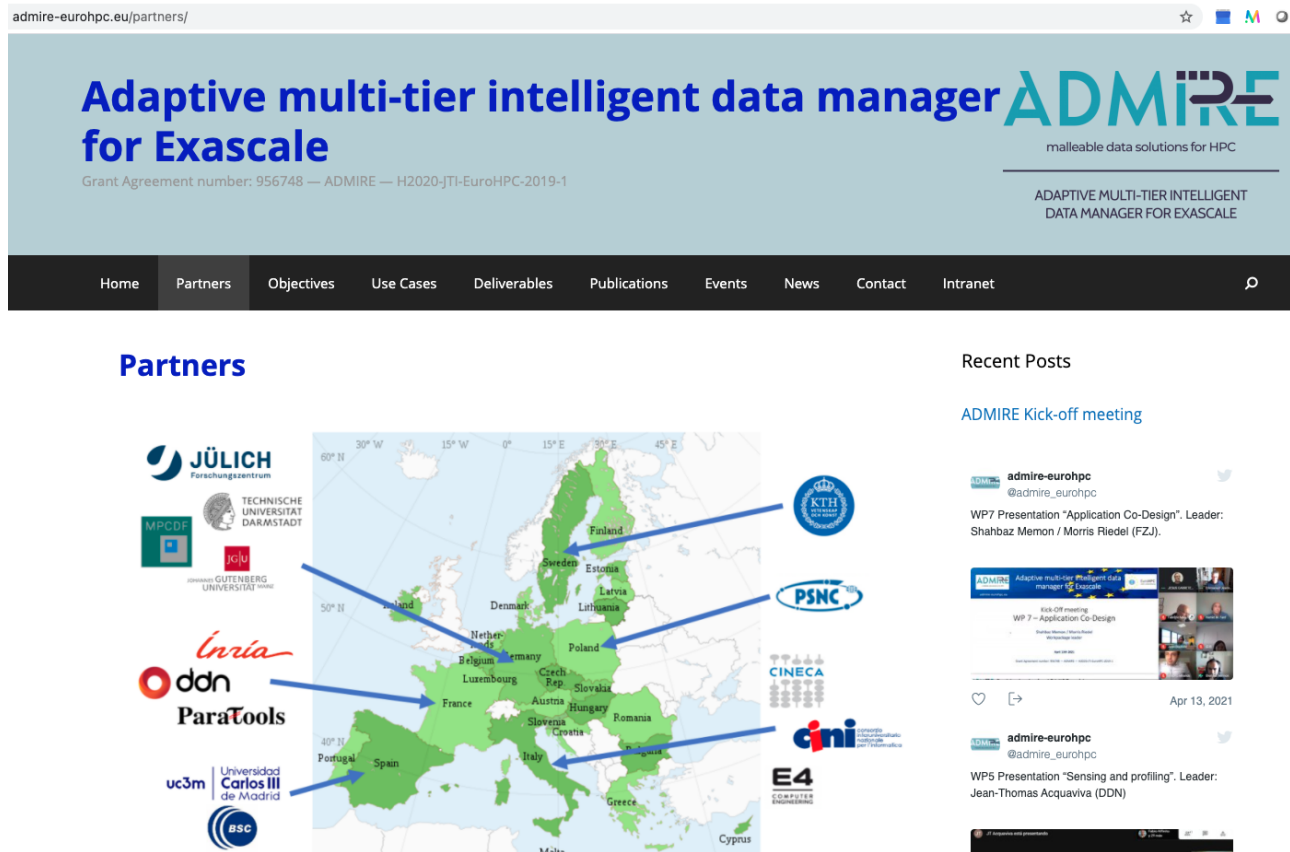


Figure 2.3: Web page showing the ADMIRE consortium.

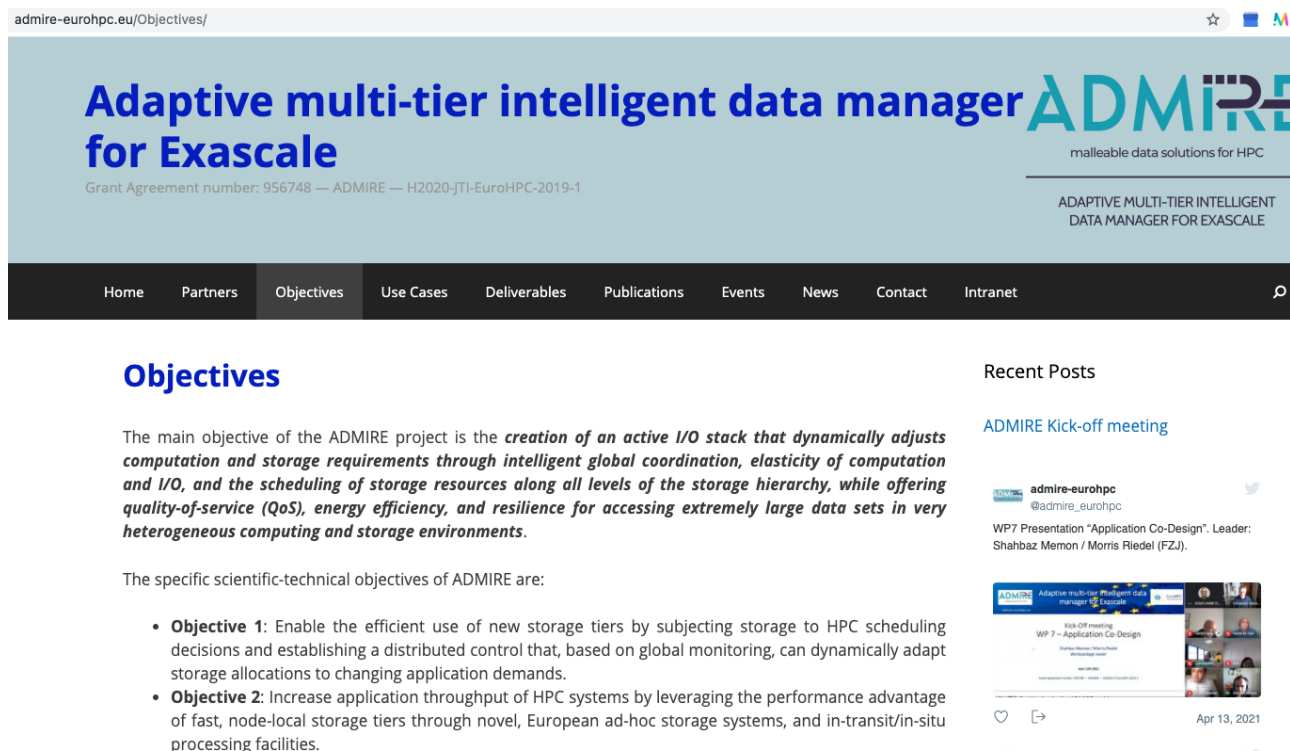


Figure 2.4: Web page showing the ADMIRE objectives.

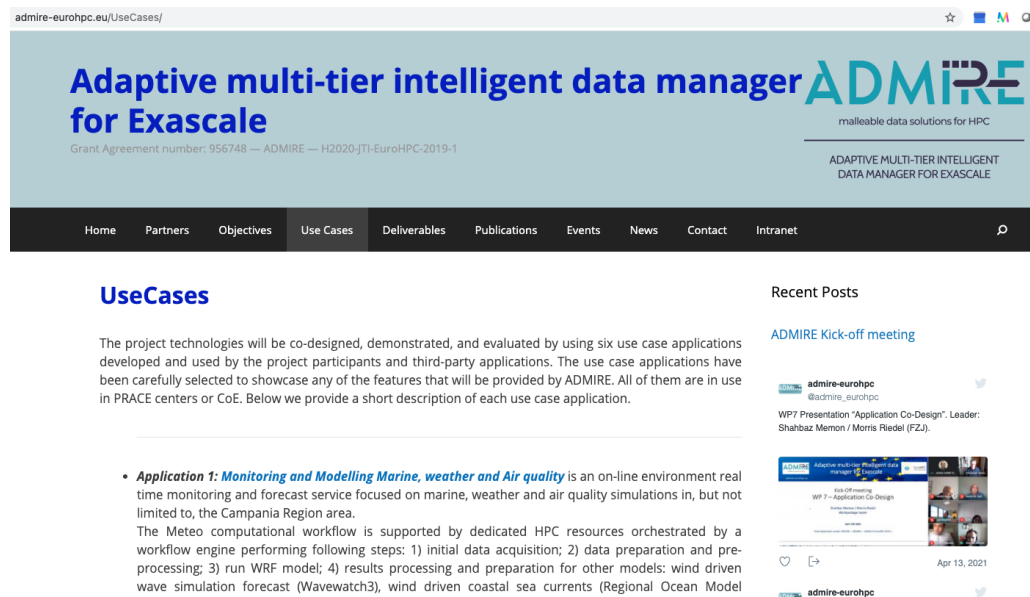


Figure 2.5: Web page showing the ADMIRE use cases.

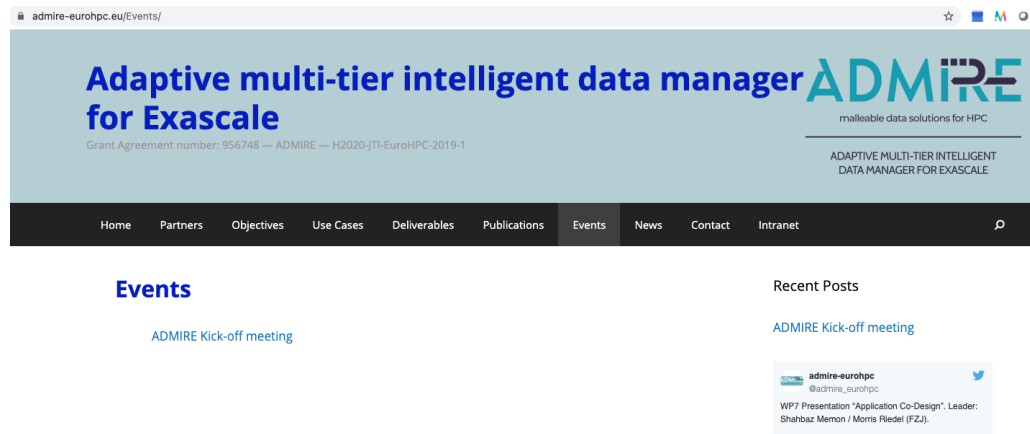


Figure 2.6: Web page showing past and future ADMIRE events.

## 2.2.9 Contact

This page, as shown in Fig. 2.7 displays a form to send emails from any people to the project domain.

Emails will be received in the project mail folder: `admire-eurohpc@uc3m.es`, and initially processed by UC3M's team.

## 2.2.10 Intranet

This page, shown in Fig. 2.8, is the entry point to the Intranet of the ADMIRE project.

The page is password protected, so that only authorized users are allowed to enter in the private space. The password will be provided by the Web site administrators at UC3M to all members of the project.

The screenshot shows the 'Contact' page of the ADMIRE project website. The header features the project title 'Adaptive multi-tier intelligent data manager for Exascale' and the ADMIRE logo. Below the header is a navigation bar with links to Home, Partners, Objectives, Use Cases, Deliverables, Publications, Events, News, Contact, and Intranet. The main content area is divided into two columns. The left column contains a contact form with fields for 'Your Name (required)', 'Your Email (required)', 'Subject', and 'Your Message'. The right column, titled 'Recent Posts', displays a tweet from @admire\_eurohpc about a WP7 Presentation 'Application Co-Design'.

admire-eurohpc.eu/contact-2/

## Adaptive multi-tier intelligent data manager for Exascale

Grant Agreement number: 956748 — ADMIRE — H2020-JTI-EuroHPC-2019-1

ADMIRE

malleable data solutions for HPC

ADAPTIVE MULTI-TIER INTELLIGENT DATA MANAGER FOR EXASCALE

Home Partners Objectives Use Cases Deliverables Publications Events News Contact Intranet

### Contact

Your Name (required)

Your Email (required)

Subject

Your Message

#### Recent Posts

ADMIRE Kick-off meeting

admire-eurohpc @admire\_eurohpc

WP7 Presentation "Application Co-Design". Leader: Shahbaz Memon / Morris Riedel (FZJ).

Apr 13, 2021

Figure 2.7: Web page showing a contact form to send email to **ADMIRE** project.

The screenshot shows the 'Intranet' page of the ADMIRE project website. The header is identical to the contact page. The navigation bar is the same, but the 'Intranet' link is highlighted. The main content area is divided into two columns. The left column, titled 'Protected: Intranet', contains a password prompt: 'This content is password protected. To view it please enter your password below.' followed by a password field and an 'Enter' button. The right column, titled 'Recent Posts', displays the same tweet from @admire\_eurohpc about a WP7 Presentation 'Application Co-Design'.

admire-eurohpc.eu/intranet/

## Adaptive multi-tier intelligent data manager for Exascale

Grant Agreement number: 956748 — ADMIRE — H2020-JTI-EuroHPC-2019-1

ADMIRE

malleable data solutions for HPC

ADAPTIVE MULTI-TIER INTELLIGENT DATA MANAGER FOR EXASCALE

Home Partners Objectives Use Cases Deliverables Publications Events News Contact Intranet

### Protected: Intranet

This content is password protected. To view it please enter your password below:

Password:  Enter

#### Recent Posts

ADMIRE Kick-off meeting

admire-eurohpc @admire\_eurohpc

WP7 Presentation "Application Co-Design". Leader: Shahbaz Memon / Morris Riedel (FZJ).

Figure 2.8: Web page for entering **ADMIRE** project intranet.

## Chapter 3

# Traffic Statistics

### 3.1 Google Analytics

The website traffic is tracked using Google Analytics, a free and safe high-end web statistics tool.

We launched the website on 24th April 2021, and analytics has been reporting since this time.

- We have recorded 180 visits with 368 page views.
- 73.2% corresponds with new visitors, where 26.8% are recurring.