



## D7.1 Project Website

<b>Work package:</b>	<b>WP7 Dissemination, innovation management and exploitations</b>	
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<b>Dissemination Level</b>	Public	
<b>Nature</b>	Websites, patents, filling, etc.	

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22.11.2018	Manuel Arenaz	Initial version	V01	Draft
27.11.2018	Dirk Pleiter	Updated version	V01	Draft
28.11.2018	Manuel Arenaz	Updated version	V02	Final



## Executive Summary

This report describes the MAESTRO project web site (<https://www.maestro-data.eu>), which provides the primary source of information of the project to external parties, and thus plays a central role in the dissemination activities of MAESTRO.

The MAESTRO web site includes a public-facing website (front-end) and a private administration area to edit and update to the public-facing website (back-end), namely:

- Website back-end: <https://www.maestro-data.eu/wp-admin/>
- Website front-end: <https://www.maestro-data.eu>

The website also connects to the MAESTRO project social media accounts:

- Twitter account: <https://twitter.com/maestrodata>
- LinkedIn account: <https://www.linkedin.com/company/maestrodata>

During the MAESTRO project, the website will be used to assist in dissemination activities.

The website became publicly available in September 2018. As WP7 leader, Appentra will be responsible for updating and maintaining the website throughout the life of the project.

## Contents

<b>Executive Summary</b>	2
<b>Introduction</b>	3
Website status	3
Design and implementation	3
Web update process	3
<b>Structure and contents of the website</b>	3
Homepage	3
The project	4
Media	4
Events	6
Publications	6
Downloads	6
Contact	6
<b>Technical requirements</b>	6
Domain	6
Website server	6
Website framework	6
Security	7
Databases	7



Back-up	7
<b>Web statistics</b>	8
<b>Concluding remarks</b>	8

## 1. Introduction

### 1.1 Website status

The MAESTRO project website became publicly available in September 2018 at <https://www.maestro-data.eu>.

### 1.2 Design and implementation

The project web site specifications were developed by Prof. Manuel Arenaz in collaboration with Estefania Garcia (Appentra) and Toni Collis (Appentra). The development of the website was carried out by Estefania Garcia and Manuel Arenaz. Other members of the MAESTRO dissemination team may be authorized to edit the website as required.

### 1.3 Web update process

An initial version of the MAESTRO website was developed for release to coincide with the official announcement of the project in September 2018. Since then the structure and contents of the website have been updated to reflect the activities of the consortium during the first three months of the project. Particularly, the following updates were done:

- Create the initial version of the project website, including a contact form that the public can use to request additional information about the project.
- Connect the web site with social media channels in Twitter and LinkedIn.
- Publish initial information about the MAESTRO project, including the objectives, the members of the consortium, and the deliverables to be produced during the lifetime of the project.
- Publish news and information about events attended by the project's partners while representing MAESTRO.

The website content will be reviewed regularly and updated whenever necessary.

## 2. Structure and contents of the website

### 2.1 Homepage

The main page gives a short presentation of the project and includes the latest news about it. The elements from top to bottom include:

- Header containing the project logo and the main menu.
- A banner with the name of the project and its claim "MAESTRO. Middleware for memory and data-awareness in workflows."
- The partner's logos.



- A short description of the project.
- The objectives of the project.
- Latest news associated with the project.
- Events related to the project.
- A footer containing support and copyright information as well as a simplified menu and links to most recent news announcements.

On the top of all pages, a header provides access to other areas of the site including THE PROJECT, MEDIA, EVENTS, PUBLICATIONS, DOWNLOADS and CONTACT. It is expected that the site will expand with new menus and submenus as the project progresses. Similarly, the footer is available at the bottom of each page and will evolve accordingly.

## 2.2 The project

This section is divided in the following six sections, which are intended to describe the project as a whole:

- Introduction: Describes the overall concept and the objectives of the project.
- Applications and workflows: Describes the use cases in which MAESTRO will be applied.
- Technologies: Describes the technologies that will be used in the development of the MAESTRO middleware.
- Deliverables: Shows the list of all the deliverables of the project, with a link to download the public ones.
- Partners: Shows information about the partners and their role in the project. The names and logos of the partners, including external links to the corresponding partner website in order to facilitate an understanding of the expertise and the activities of each partner.
- Related links: A list of links to projects, organizations etc. related to the MAESTRO project.

## 2.3 Media

This section is divided in the following three sections:

- News: News items about the MAESTRO project.
- Press coverage: List of press articles published (e.g. in magazines, newspapers, TV, blogs, websites, etc.) where the MAESTRO project is mentioned.
- Branding: Provides the logos of the MAESTRO project for third-party download and use, including by project partners. Two versions of the MAESTRO logo are available for download: one with the slogan and another one with the URL of the MAESTRO website. In addition, each logo is available in three styles: full-colour, black and white.



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[THE PROJECT](#)
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**MAESTRO**  
 Middleware for memory and data-awareness in workflows










**Maestro will build a data-aware and memory-aware middleware framework that addresses the ubiquitous problems of data movement in complex memory hierarchies that exist at multiple levels of the HPC software stack.**

### Objectives



#### DATA AWARENESS

Moving data through memory has not always been a performance bottleneck. The software stack that HPC relies upon was built during the decades where the throughput of a different situation – when the cost of performing floating point operations (FLOPS) was paramount. This has resulted in several decades of technical evolution built a software stack and set of programming models that are optimised for highly fit for optimising floating point operations but lacking in basic data handling functionality. We characterise the set of technical issues as ‘missing data-awareness’.



#### MEMORY AWARENESS

Software rightfully insulates users from hardware details, particularly especially as we move higher up the software stack. But HPC applications, programming environments and systems software cannot make key data movement decisions without some understanding of the hardware, particularly of especially the increasingly complex memory hierarchy. With the exception of runtimes, which treat memory in a domain-specific manner, software typically must make hardware-neutral decisions which can often result in poor performance. We characterise this issue as ‘missing memory-awareness’.

### News



**Maestro Consortium addresses the ubiquitous problems of data movement in data-intensive applications and workflows**

A Coruña, Spain, 25th October 2018. Apprenta, the CEA, Cray, CSCS operated by ETH Zurich, ECMWF... [Read more](#)

### Events



**Kick off Meeting of Maestro**  
 24-28 Sept, 2018  
 ECMWF, Reading, UK. [More information here...](#) [Read More](#)



**SC18 | PRACE Booth**  
 15 Nov. 2018 Dallas, USA PRACE booth. Presentation by Apprenta on Leveraging Parallelware in MAESTRO... [Read More](#)



DATA ORCHESTRATION IN HIGH PERFORMANCE COMPUTING

Menu  
[HOME](#)  
[THE PROJECT](#)  
[MEDIA](#)  
[EVENTS](#)  
[PUBLICATIONS](#)



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**DATA ORCHESTRATION IN HIGH PERFORMANCE COMPUTING**  
 This project has received funding from the European Union’s Horizon 2020 research and innovation program through grant agreement 801101.

## 2.4 Events

The information about past and upcoming events attended by MAESTRO partners.

## 2.5 Publications

This section of the website shows different outcomes of the MAESTRO project, including but not limited to scientific papers and dissemination materials such as brochures, posters, presentations, etc.

## 2.6 Downloads

This section of the website will provide the opportunity to download items related to the activities of MAESTRO.

## 2.7 Contact

This section contains a contact form to facilitate contact with the consortium.

# 3. Technical requirements

## 3.1 Domain

The domain used for the MAESTRO website is [www.maestro-data.eu](http://www.maestro-data.eu). This domain has been registered by the WP7 team leader under the name of Appentra Solutions via the domain and hosting provider company Webempresa and is valid from the 2018-08-24. It is renewed on an annual basis.

## 3.2 Website server

The server is on a shared machine, hosted by Webempresa, and has the following features:

- Web server: Apache 2.4.35, Nginx
- PHP: 5.6.30
- MySQL server version: 10.1.36-MariaDB-cll-lve

This service is renewed on an annual basis.

## 3.3 Website framework

The software platform uses the Wordpress CMS framework, a free open-source content management system chosen for to its simplicity, speed and flexibility. It is combined with the Genesis framework to facilitate making the website more extensible, secure, easier to update, and based on SEO standards.

The website is built on the "The Corporate Pro" theme, chosen for its versatility, its clean design, and the clear and logical structure of navigation that it provides. A 'child theme' of the main theme has been created to provide customization.

The site allows for a variety of widget-based components.



### 3.4 Security

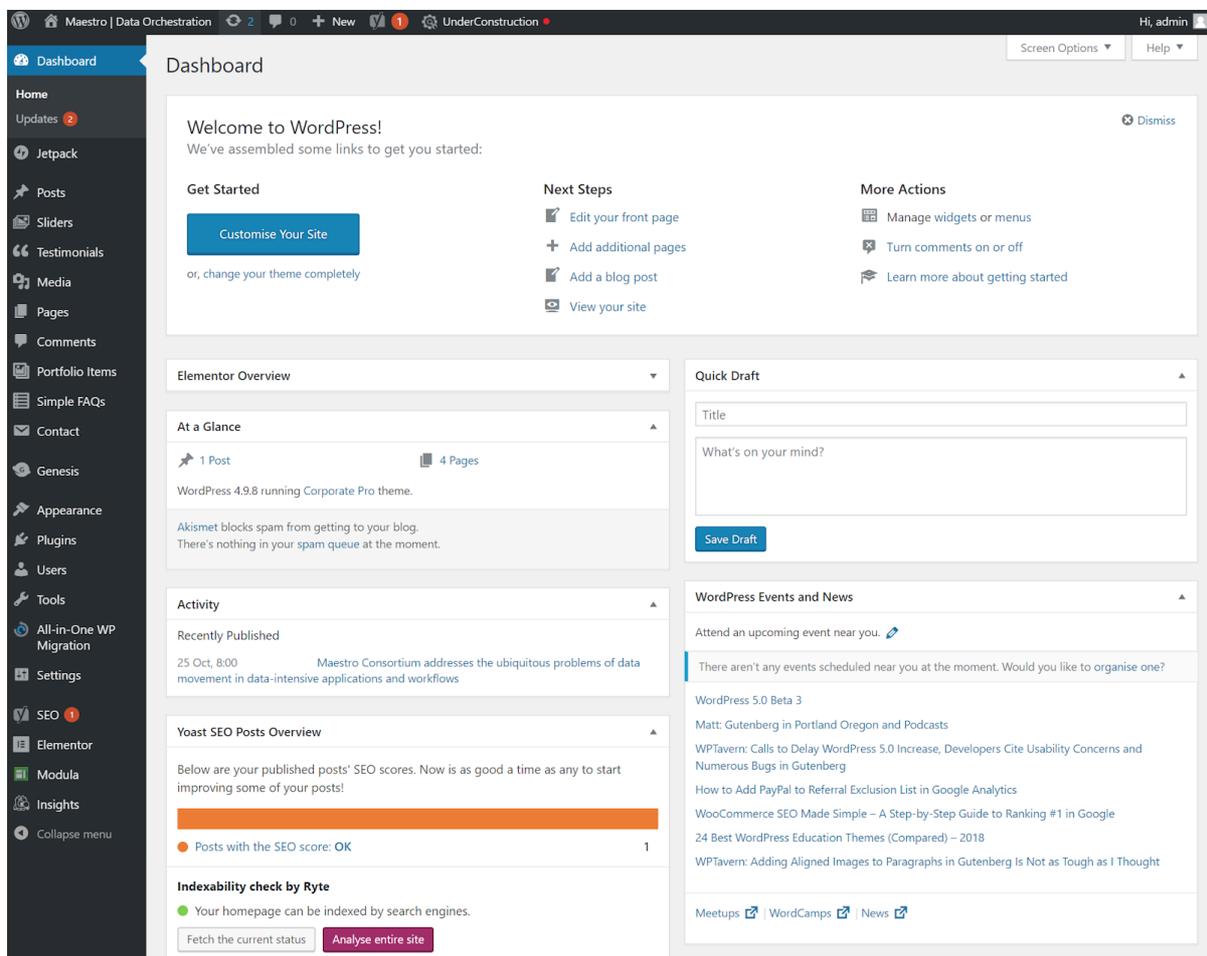
The website uses SSL (HTTPS) protection through a certificate from Let's Encrypt, a free, automated, and open certificate authority (CA), run for the public's benefit. It is a service provided by the Internet Security Research Group (ISRG). The SSL protocol guarantees that the information that is transmitted cannot be read by a third party that intercepts the communications.

### 3.5 Databases

The project portal has a separate MySQL database.

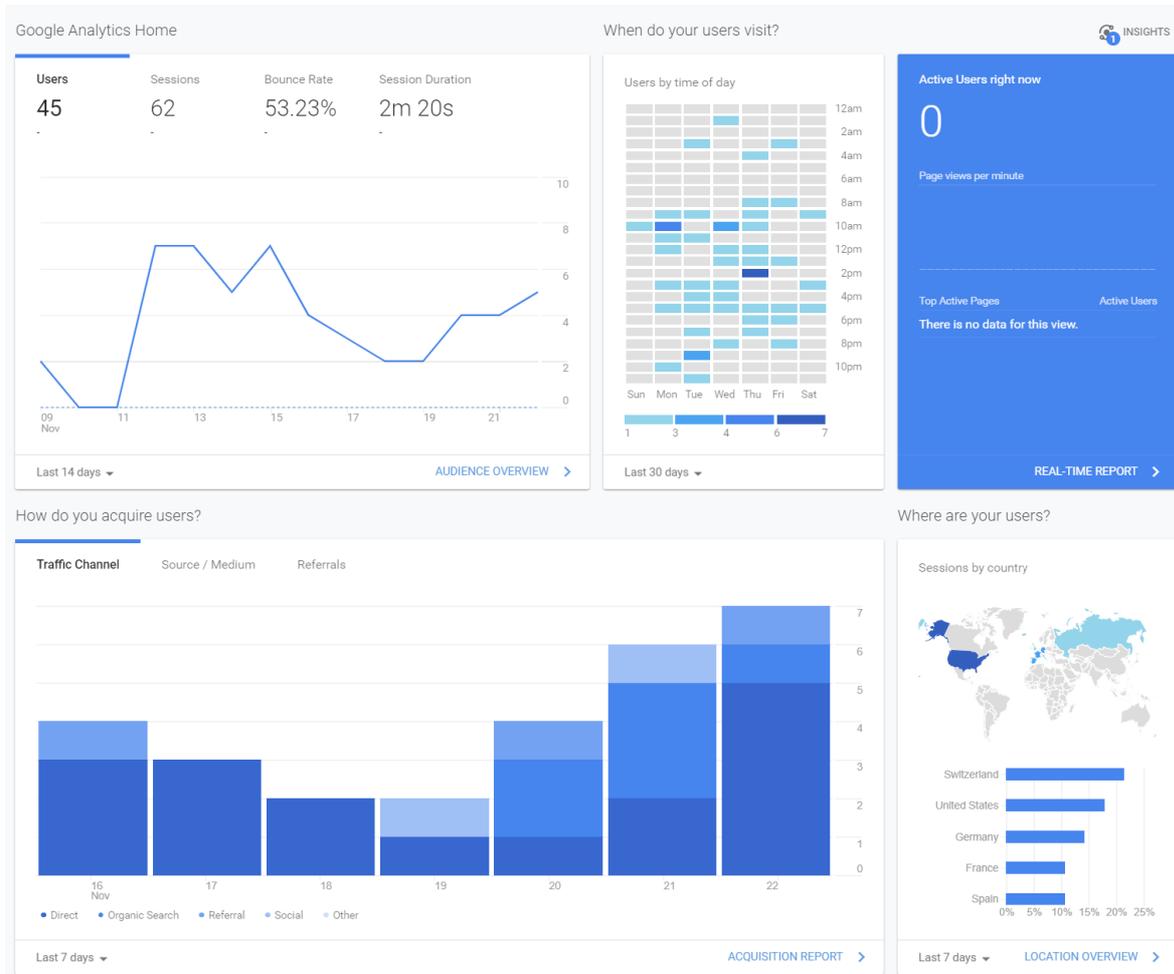
### 3.6 Back-up

Backups are carried out automatically, including databases, by the hosting provider.



## 4. Web statistics

Statistics on website usage and activity are gathered and managed via the use of Google Analytics. Associated analysis will be provided in the periodic reports to be specified in the Dissemination Plan (D7.2), and a summary of the three years will be added in the final Report on Dissemination, innovation management and exploitation as well as standardization (D7.4).



## 5. Concluding remarks

The first version of the MAESTRO project website is now publicly available. During the activity of the project, it will be updated with new content as new materials are delivered by the consortium to provide an up-to-date resource to facilitate the communication of the project outcomes to the general public.

