



**VINEYARD**

# PROJECT WEBSITE

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**AUTHOR/S** Candela Bravo

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#### PARTNERS

Institute of Communications and Computer Systems, Maxeler Technologies, Bull Systems, Queen's University of Belfast, Foundation for Research and Technology, The Hartree Centre / Science and Technologies Facilities Council, Neurasmus BV, Neurocom Luxembourg, Hellenic Exchanges SA, Holding, Clearing, Settlement and Registry, LeanXcale, Loba



Co-funded by the Horizon 2020 Framework Programme of the European Union under Grant Agreement n° 687628

## **1. EXECUTIVE SUMMARY**

The present document deliverable (D8.6 Project Website) aims at explaining the structure and functionalities of the VINEYARD's website. This report is part of the "WP8 Dissemination, Communication, and Exploitation", "Task 8.3 – Dissemination and Communication" and more specifically regarding the item "1. Design, launch and constant update of the project's website".

This document is composed by the following 3 main sections:

1. Overview of Project's website.

This section includes information about the first version (splash page) and selection of URL; the list of sections/interfaces included in the second version and functionalities of the website and the website statistics monitoring.

2. A set of screenshots of the website
3. Conclusions

## D8.6 Project Website

### CONTRIBUTORS

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### PEER REVIEWERS

Name	Organization
Alexandre Almeida	LOBA
Christoforos Kachris	ICCS

### REVISION HISTORY

Version	Date	Author/Organisation	Modifications
0.1	20.04.2016	João Gaspar	Revision of technical content
0.2	21.04.2016	Candela Bravo	Revision of 1 <sup>st</sup> draft
0.3	22.04.2016	Alexandre Almeida	Proof reading of 1 <sup>st</sup> draft
0.4	27.04.2016	Christoforos Kachris	Revision

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## 2. Introduction

The VINEYARD website is the main communication and dissemination platform of the project, it comprises both institutional and promotional contents about the project's innovative contribution to leverage the energy efficiency of hardware accelerators in data centres with the simplicity of big-data programming frameworks.

## 3. Versions of the Website

### 3.1. Splash Page

The first version of the website was launched on 3 February 2016 (Month 1) in the form of a splash page, with the main domain [www.vineyard-h2020.eu](http://www.vineyard-h2020.eu).

A splash page is a page of a web site that acts as a front page prior to displaying the home page. In Vineyard the splash page was used to welcome the visitors presenting the main goal, overall approach, information about the partners and contact details.

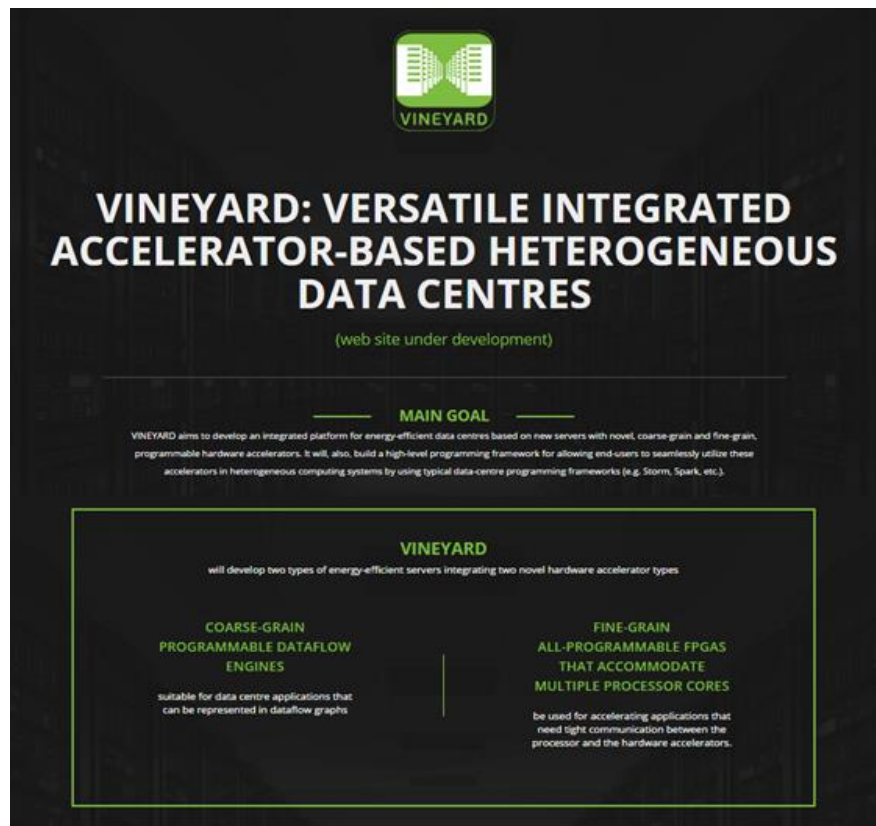


Figure 1: Vineyard Splash page

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**D8.6 Project Website**

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In particular, the splash page was developed in a single page scroll that contains the following main areas:

HEADER:

Presentation banner with the main objectives of VINEYARD's project

CONTENTS:

Brief description of the overall approach including the scenarios of intervention, the project's architecture, and the partners list.

FOOTER:

Official email contact ([info@vineyard-h2020.eu](mailto:info@vineyard-h2020.eu))

### **3.2. Vineyard Website**

In a second stage, on 30<sup>th</sup> of April 2016, the official Vineyard's website was launched. It was developed using the most recent technologies as HTML5, CSS3, JavaScript3, PHP4 and MySQL database and is presented in a responsive model suitable for all devices.

Our preference for the URL (Uniform Resource Locator) [www.vineyard-h2020.eu](http://www.vineyard-h2020.eu) relies on the main components:

- The name of the project "Vineyard", and
- The reference to "h2020" for being a project funded by the programme Horizon 2020 and for addressing Europe 2020 objectives namely towards "Climate change and energy sustainability".

The VINEYARD website will be an ongoing task and its structure will be dynamically developed throughout the 33-months left.

The content and structure of the website will be flexible and dynamic, growing in content and complexity in parallel to the project's progress and development. The main features programmed for the VINEYARDs website are:

**RESPONSIVE**

The website platform will suit different devices such as mobile, tablet and desktop versions.

## D8.6 Project Website

### SOCIAL MEDIA SHARING

The website is prepared to share information with social media networks such as LinkedIn and Twitter

### NEWSLETTER SUBSCRIPTION

The website has available a submission form for newsletter subscription requesting the name and email of the user.

### VIDEO DISPLAY

It is expected to make available both promotional and institutional videos of VINEYARD 's project and product.

### 3.2.1. Sections and Interfaces

The website is composed by the following structure (sitemap) and interfaces:

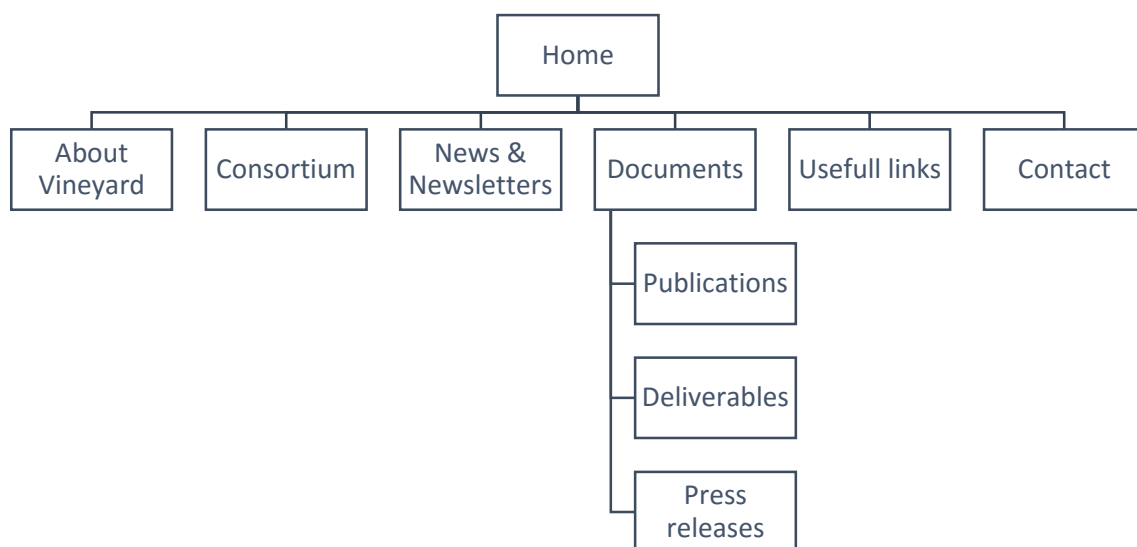


Figure 2: Vineyard Sitemap

### HOME

The Homepage provides the first information about the project aiming to attract the attention of visitors and to facilitate navigation to other pages on the website. In addition to the menu the Homepage will also provide:

- Visualisation of main News and Events

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**D8.6 Project Website**

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- Access to subscribe to Newsletter
- Access to social media (LinkedIn, Twitter)
- Search engine
- Access to Gallery of project (i.e. pictures from consortium meetings and events)
- Access to Download area "Documents" (i.e. public deliverables, brochure etc.)
- Overview of partners
- Access to useful links

About VINEYARD

This section will provide valuable information about the project's objective and rationale. Furthermore, it will include a description of the work plan, including main activities and tasks, main stages and expected results for the project.

Consortium

This section will provide information about the partners composing the project's consortium. This section will include the name, website of partners' organisations, the role in the project and the personnel involved.

News and Newsletters

This section will comprise relevant News related to the project domain, as well as its accomplishments. Furthermore, it will include the Newsletters produced under the frame of the project.

Documents

This section will make available documentation of the project such as publications/articles, regarding the academic dimension of the project and scientific added-value, public results or deliverables, as well as press releases among other material for download (i.e. leaflet/brochures, poster, etc.) to all interested parties (researchers, industry, media).

Useful Links

This section will include links to other EU funded projects, organisations and initiatives with common Vineyard.

Contact

This section will include the contact details of the project.



### 3.2.2. Website statistics monitoring

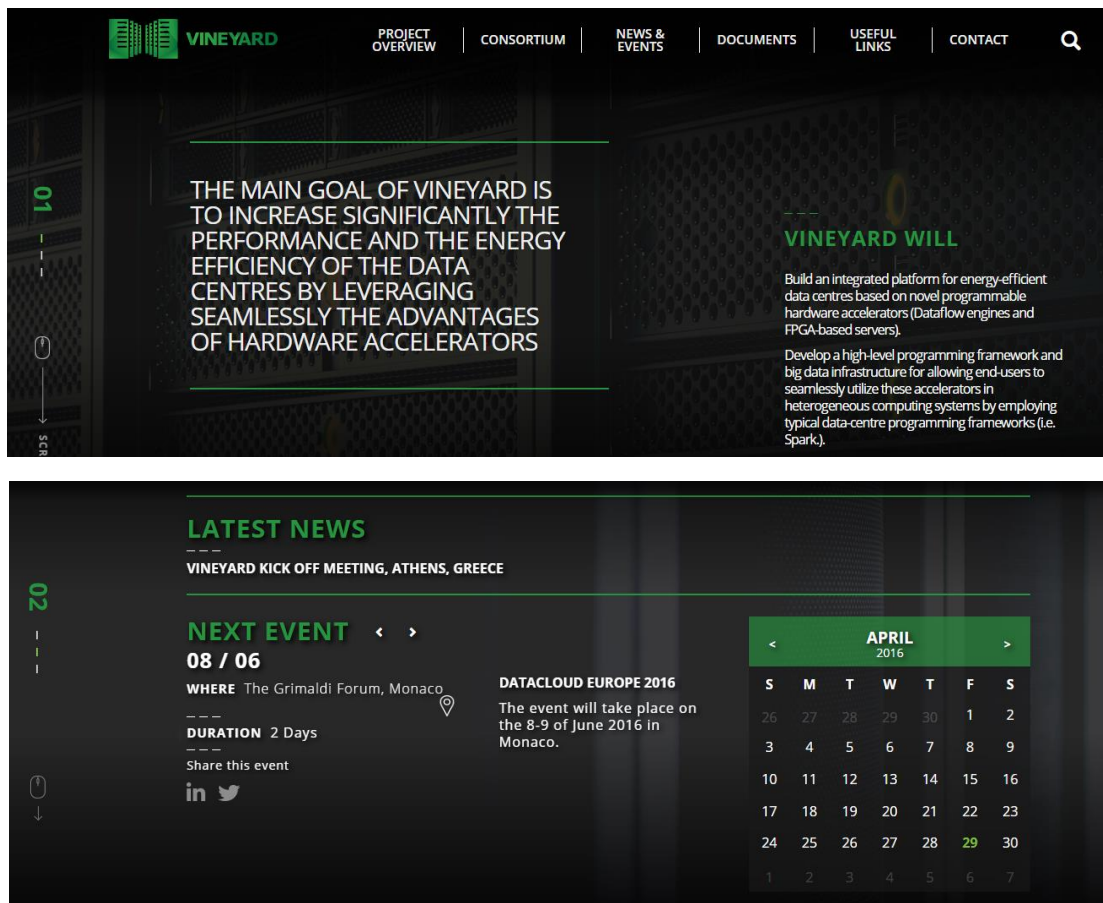
The Vineyard website uses Google Analytics as its web analytics service to track website traffic and assess useful statistics that will help optimize the website and the communication and dissemination strategy.

Relevant statistics that will be monitored are the following:

- Number of visitors
- Unique visitors
- From which link it comes the traffic, which country
- Number of downloads of documents, Etc.

## 4. Screen shots

### 4.1. Home



**01**

**VINEYARD**

PROJECT OVERVIEW | CONSORTIUM | NEWS & EVENTS | DOCUMENTS | USEFUL LINKS | CONTACT

THE MAIN GOAL OF VINEYARD IS TO INCREASE SIGNIFICANTLY THE PERFORMANCE AND THE ENERGY EFFICIENCY OF THE DATA CENTRES BY LEVERAGING SEAMLESSLY THE ADVANTAGES OF HARDWARE ACCELERATORS

**VINEYARD WILL**

- Build an integrated platform for energy-efficient data centres based on novel programmable hardware accelerators (Dataflow engines and FPGA-based servers).
- Develop a high-level programming framework and big data infrastructure for allowing end-users to seamlessly utilize these accelerators in heterogeneous computing systems by employing typical data-centre programming frameworks (i.e. Spark).

**02**

**LATEST NEWS**

VINEYARD KICK OFF MEETING, ATHENS, GREECE

**NEXT EVENT** < >

**08 / 06**

**WHERE** The Grimaldi Forum, Monaco

**DURATION** 2 Days

Share this event

in

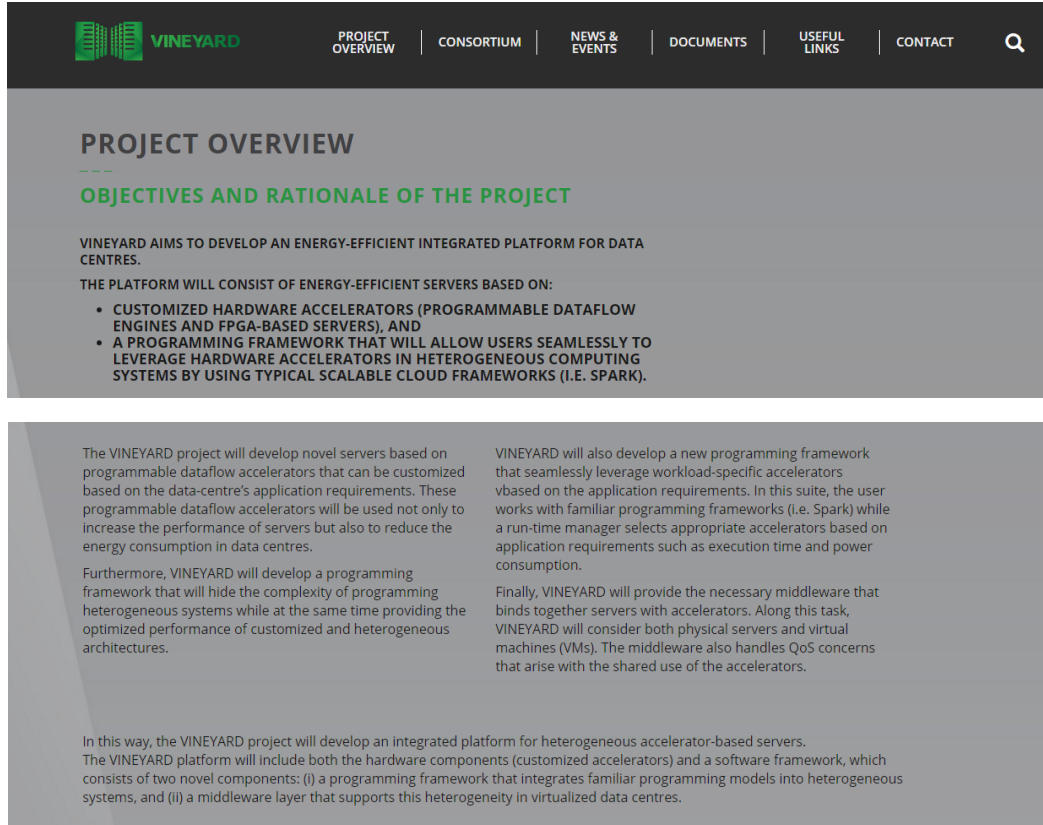
**DATA CLOUD EUROPE 2016**

The event will take place on the 8-9 of June 2016 in Monaco.

APRIL 2016						
S	M	T	W	T	F	S
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Figure 3: Vineyard Home page

## 4.2. Project Overview



**PROJECT OVERVIEW**

**OBJECTIVES AND RATIONALE OF THE PROJECT**

VINEYARD AIMS TO DEVELOP AN ENERGY-EFFICIENT INTEGRATED PLATFORM FOR DATA CENTRES.

THE PLATFORM WILL CONSIST OF ENERGY-EFFICIENT SERVERS BASED ON:

- CUSTOMIZED HARDWARE ACCELERATORS (PROGRAMMABLE DATAFLOW ENGINES AND FPGA-BASED SERVERS), AND
- A PROGRAMMING FRAMEWORK THAT WILL ALLOW USERS SEAMLESSLY TO LEVERAGE HARDWARE ACCELERATORS IN HETEROGENEOUS COMPUTING SYSTEMS BY USING TYPICAL SCALABLE CLOUD FRAMEWORKS (I.E. SPARK).

The VINEYARD project will develop novel servers based on programmable dataflow accelerators that can be customized based on the data-centre's application requirements. These programmable dataflow accelerators will be used not only to increase the performance of servers but also to reduce the energy consumption in data centres.

Furthermore, VINEYARD will develop a programming framework that will hide the complexity of programming heterogeneous systems while at the same time providing the optimized performance of customized and heterogeneous architectures.

VINEYARD will also develop a new programming framework that seamlessly leverage workload-specific accelerators vbased on the application requirements. In this suite, the user works with familiar programming frameworks (i.e. Spark) while a run-time manager selects appropriate accelerators based on application requirements such as execution time and power consumption.

Finally, VINEYARD will provide the necessary middleware that binds together servers with accelerators. Along this task, VINEYARD will consider both physical servers and virtual machines (VMs). The middleware also handles QoS concerns that arise with the shared use of the accelerators.

In this way, the VINEYARD project will develop an integrated platform for heterogeneous accelerator-based servers. The VINEYARD platform will include both the hardware components (customized accelerators) and a software framework, which consists of two novel components: (i) a programming framework that integrates familiar programming models into heterogeneous systems, and (ii) a middleware layer that supports this heterogeneity in virtualized data centres.

Figure 4: Project Overview page

## 4.3. Consortium



**CONSORTIUM**

**INSTITUTE OF COMMUNICATIONS AND COMPUTER SYSTEMS, GREECE (COORDINATOR)**

ICCS (Microlab) will work on the specification and system architecture of the VINEYARD platform. ICCS will also work on the development of the hardware accelerators that will be deployed on the dataflow and FPGA-based servers. Specifically, ICCS will develop the hardware accelerators for the 3 use case scenarios: bioinformatics, financial applications and big-data analytics. ICCS will also work on the hardware controller that configure the accelerators. Finally, ICCS will work on the development of the central repository for the hosting of the accelerators as IP blocks.

**WEBSITE** [www.microlab.ntua.gr](http://www.microlab.ntua.gr)

**KEY PERSONS**

**Prof. Dimitrios Soudris** (Project Coordinator)

**Dr. Christoforos Kachris** (Technical Project Manager)

**George Chatzikonstantis**

**Harry Sidiropoulos**

**MAXELER TECHNOLOGIES, U. K.**

The main role of Maxeler in the project is the research and development of next-generation, programmable dataflow processors. As technology providers for VINEYARD, Maxeler will also be closely involved in the requirements phase of the project as well as the definition and development of the VINEYARD system architecture.

**WEBSITE** <http://www.maxeler.com/>

**KEY PERSONS**

**Georgi Gaydadjiev**

Figure 5: Consortium page

### PARTNERS

Institute of Communications and Computer Systems, Maxeler Technologies, Bull Systems, Queen's University of Belfast, Foundation for Research and Technology, The Hartree Centre / Science and Technologies Facilities Council, Neurasumus BV, Neurocom Luxembourg, Hellenic Exchanges SA, Holding, Clearing, Settlement and Registry, LeanXcale, Loba



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## 4.4. News & Events

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APRIL 2016

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S	M	T	W	T	F	S
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

### NEWS & EVENTS

**FEBRUARY 2016**  
**VINEYARD Kick off meeting, Athens, Greece**

**2-3 February 2016**  
 Athens, Greece

On the 2-3 of February 2016 took place the Kick off meeting of Vineyard project at the Corallia building in Athens. During the meeting the project's partners had the opportunity to discuss about the challenges of the project, the strategy and activities.



### NEXT EVENT

**08 / 06**

**WHERE** The Grimaldi Forum, Monaco

**DURATION** 2 Days

**DATA CLOUD EUROPE 2016**


The event will take place on the 8-9 of June 2016 in Monaco.

Figure 6: News & Events page

## 4.5. Documents

### DOCUMENTS

#### GALLERY



Vineyard Kick off - Athens Group Picture

#### PUBLICATIONS

"The VINEYARD approach: Versatile, Integrated, Accelerator-based, Heterogeneous Data Centres"

[DOWNLOAD](#)

"The VINEYARD project: Versatile Integrated Accelerator-based Heterogeneous Data Centres"

"First Impressions from Detailed Brain Model Simulations on a Neon Xeon Phi Node"

International Symposium on Performance Analysis of Systems and Software ISPAAS 2014, April 2014 - Nominated for Best Paper Award

#### DELIVERABLES

D8.1 Public Project Presentation

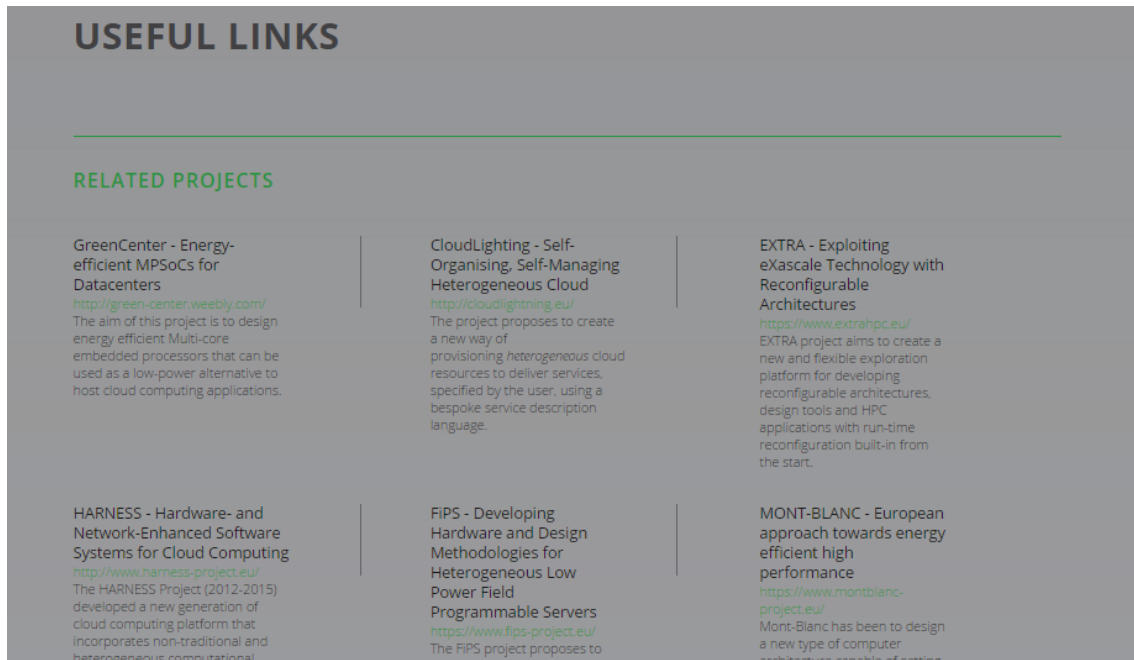
[DOWNLOAD](#)

#### PRESS RELEASES

VINEYARD presentation in the HEPAN newsletter, January 2016

Figure 7: Documents page

## 4.6. Useful Links



**USEFUL LINKS**

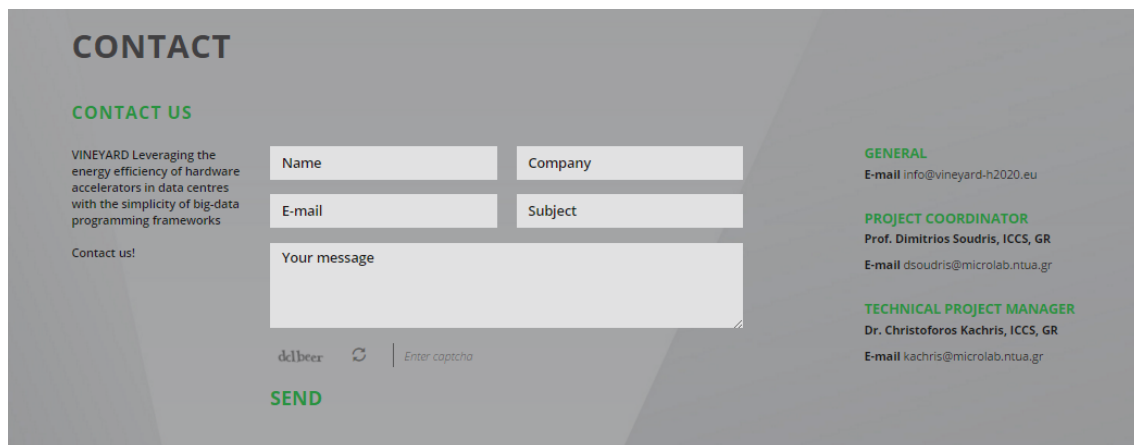
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**RELATED PROJECTS**

<p><b>GreenCenter - Energy-efficient MPSoCs for Datacenters</b>  <a href="http://green-center.weebly.com/">http://green-center.weebly.com/</a>            The aim of this project is to design energy efficient Multi-core embedded processors that can be used as a low-power alternative to host cloud computing applications.</p>	<p><b>CloudLighting - Self-Organising, Self-Managing Heterogeneous Cloud</b>  <a href="http://cloudlightning.eu/">http://cloudlightning.eu/</a>            The project proposes to create a new way of provisioning heterogeneous cloud resources to deliver services, specified by the user, using a bespoke service description language.</p>	<p><b>EXTRA - Exploiting eXascale Technology with Reconfigurable Architectures</b>  <a href="https://www.extrahpc.eu/">https://www.extrahpc.eu/</a>            EXTRA project aims to create a new and flexible exploration platform for developing reconfigurable architectures, design tools and HPC applications with run-time reconfiguration built-in from the start.</p>
<p><b>HARNES - Hardware- and Network-Enhanced Software Systems for Cloud Computing</b>  <a href="http://www.harness-project.eu/">http://www.harness-project.eu/</a>            The HARNES Project (2012-2015) developed a new generation of cloud computing platform that incorporates non-traditional and heterogeneous computational.</p>	<p><b>FIPS - Developing Hardware and Design Methodologies for Heterogeneous Low Power Field Programmable Servers</b>  <a href="https://www.fips-project.eu/">https://www.fips-project.eu/</a>            The FIPS project proposes to build a new hardware and design methodology for heterogeneous low power field programmable servers.</p>	<p><b>MONT-BLANC - European approach towards energy efficient high performance</b>  <a href="https://www.montblanc-project.eu/">https://www.montblanc-project.eu/</a>            Mont-Blanc has been to design a new type of computer architecture capable of setting</p>

Figure 8: Useful Links page

## 4.7. Contacts




**CONTACT**

**CONTACT US**

VINEYARD Leveraging the energy efficiency of hardware accelerators in data centres with the simplicity of big-data programming frameworks

Contact us!

Name	Company
E-mail	Subject
Your message	

ddbeer  Enter captcha

**SEND**

**GENERAL**  
**E-mail** [info@vineyard-h2020.eu](mailto:info@vineyard-h2020.eu)

**PROJECT COORDINATOR**  
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**TECHNICAL PROJECT MANAGER**  
**Dr. Christoforos Kachris, ICCS, GR**  
**E-mail** [kachris@microlab.ntua.gr](mailto:kachris@microlab.ntua.gr)

Figure 9: Contacts page

## 5. Conclusions

The current version of the website platform can be visualised at [www.vineyard-h2020.eu](http://www.vineyard-h2020.eu). The website will be continuously updated, maintained and improved with additional content relevant to the target groups.

The progress of the project will be closely monitored and reflected in the project's website.

The link for the website will be included in all promotional material and communications developed and conducted under the frame of the project, such as brochure, poster, roll-up, PPT, Newsletter, Social Media, emailing, events, etc.

The objective will be to strategically use the different communication and dissemination actions, which reach different type of audiences, to direct them towards vineyard's website.

The use of google analytics will help to monitor the performance and improve the communication and dissemination strategy.