



C3-Cloud

“A Federated Collaborative Care Cure Cloud Architecture for Addressing the Needs of Multi-morbidity and Managing Poly-pharmacy”

PRIORITY Objective H2020-PHC-25-2015 - Advanced ICT systems and services for integrated care

D1.3 Project Web Site

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EXECUTIVE SUMMARY

The purpose of this deliverable is to introduce the functionalities of the C3-Cloud Web Site and to present a user guide for its document management features. The C3-Cloud Web Site is composed of two parts: the public C3-Cloud Web Site and the restricted Document Management site.

The public Web site aims to give an overview of the general information about the C3-Cloud project, its work packages, partners, and to present latest achievements through the respective public C3-Cloud deliverables, publications and dissemination material. It will also provide references to open source C3-Cloud components.

The Document Management site is restricted to project partners, acting as a virtual shared file system to collaboratively manage project documents, such as deliverables, publications and meeting material such as agendas of the meeting and slides. It will be the living document archive of the C3-Cloud project.

The C3-Cloud Web site will be continuously updated by the Coordinator and supported by the Communications and Exploitation Manager, to announce the latest achievements of project.

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1 OVERVIEW

The purpose of this deliverable is to introduce the functionalities of the C3-Cloud Web Site and to present a user guide for its document management features. The C3-Cloud Web Site is composed of two parts: the public web site and the restricted Document Management site. The public web site is to give an overview of the general information about the C3-Cloud project, its work packages, partners, and to present latest achievements through the respective public C3-Cloud deliverables, publications and dissemination material. It will also provide references to open source C3-Cloud components. The Document Management site is restricted to project partners, acting as a virtual shared file system to collaboratively manage project documents, such as deliverables, publications and meeting material such as agendas of the meeting and slides. In the following sections, these two parts of the C3-Cloud Web Site are presented in detail, elaborating on their features, development and provides a user guide for C3-Cloud partners.

2 C3-CLOUD PUBLIC WEB SITE

The main aim of the C3-Cloud public web site is to present the overview of the project, such as the general objectives, consortium, work packages; and also to share the most recent achievements of the C3-Cloud project through publications, deliverables and activities of the group. In this section, the structure of the public web site is described, along with the features available. The technologies used to develop the web site are also highlighted. The URL of the public website is <http://www.c3-cloud.eu>

2.1 Web Site Structure and Features

The home page, as shown in Figure 1, gives a summary of the C3-Cloud project with key information about the Horizon 2020 research priority area that the project aims to address, the cost details and project timeline.

The main menu is at the top of the page as a horizontal navigation for all the web site components:

- Project Overview
- Consortium
- Deliverables
- Publications
- News and Events
- Contact

Each of these components will be described in detail in the following sections.

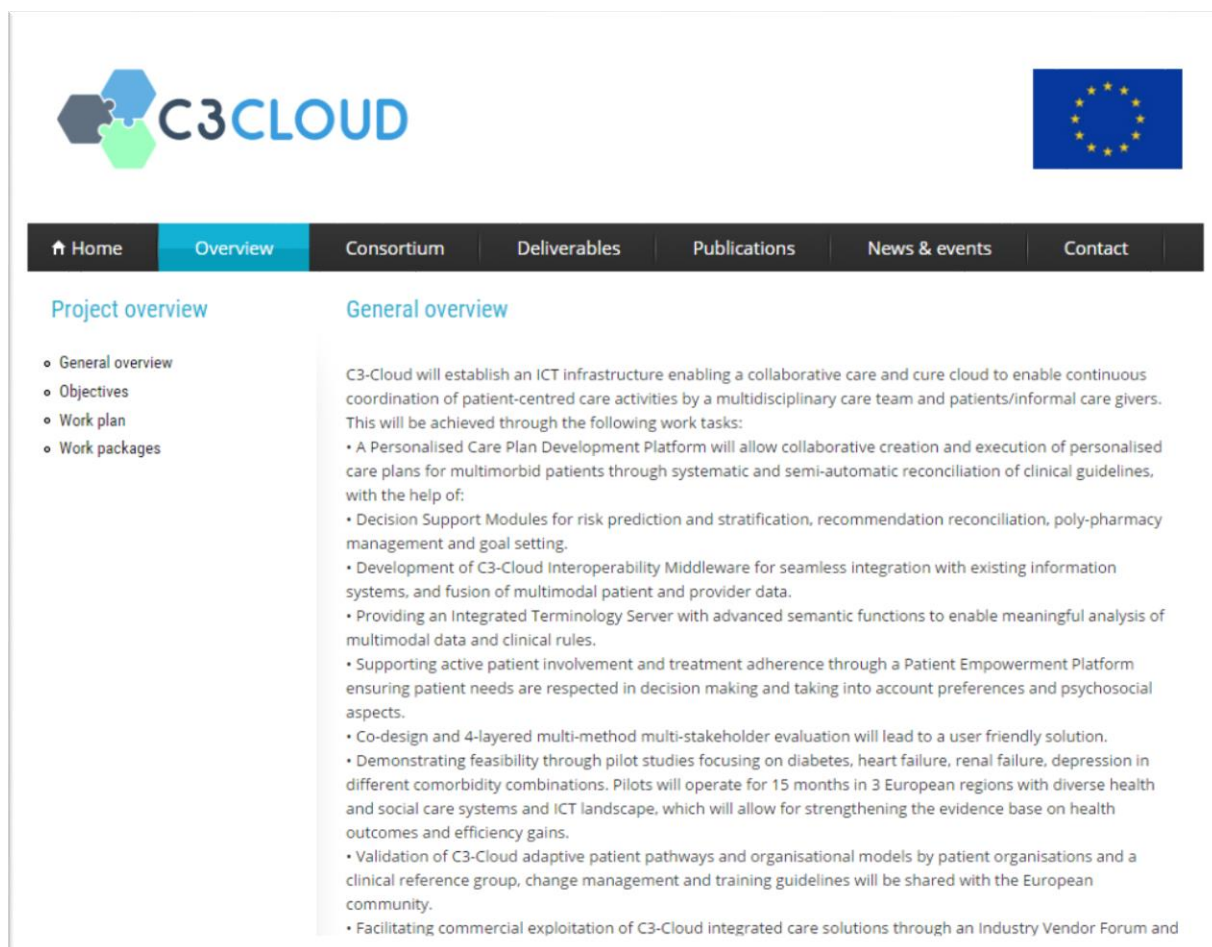


Figure 1: Home page of C3-Cloud public web site

2.1.1 Project Overview

The Project Overview page (Figure 2) presents the C3-Cloud project through its objectives, workplan and work packages. These are available as sub-menus from the Project Overview menu:

- Project objectives (Figure 3)
- Work plan (Figure 4)
- Work packages (Figure 5)



C3CLOUD

European Union Flag

Home Overview Consortium Deliverables Publications News & events Contact

Project overview

- General overview
- Objectives
- Work plan
- Work packages

General overview

C3-Cloud will establish an ICT infrastructure enabling a collaborative care and cure cloud to enable continuous coordination of patient-centred care activities by a multidisciplinary care team and patients/informal care givers. This will be achieved through the following work tasks:

- A Personalised Care Plan Development Platform will allow collaborative creation and execution of personalised care plans for multimorbid patients through systematic and semi-automatic reconciliation of clinical guidelines, with the help of:
 - Decision Support Modules for risk prediction and stratification, recommendation reconciliation, poly-pharmacy management and goal setting.
 - Development of C3-Cloud Interoperability Middleware for seamless integration with existing information systems, and fusion of multimodal patient and provider data.
 - Providing an Integrated Terminology Server with advanced semantic functions to enable meaningful analysis of multimodal data and clinical rules.
 - Supporting active patient involvement and treatment adherence through a Patient Empowerment Platform ensuring patient needs are respected in decision making and taking into account preferences and psychosocial aspects.
- Co-design and 4-layered multi-method multi-stakeholder evaluation will lead to a user friendly solution.
- Demonstrating feasibility through pilot studies focusing on diabetes, heart failure, renal failure, depression in different comorbidity combinations. Pilots will operate for 15 months in 3 European regions with diverse health and social care systems and ICT landscape, which will allow for strengthening the evidence base on health outcomes and efficiency gains.
- Validation of C3-Cloud adaptive patient pathways and organisational models by patient organisations and a clinical reference group, change management and training guidelines will be shared with the European community.
- Facilitating commercial exploitation of C3-Cloud integrated care solutions through an Industry Vendor Forum and

Figure 2: Project Overview



The screenshot shows the C3-Cloud project website. At the top left is the C3CLOUD logo, consisting of three interlocking hexagons (blue, green, and grey) followed by the text 'C3CLOUD'. To the right is the European Union flag. Below the header is a navigation bar with links: Home, Overview (active), Consortium, Deliverables, Publications, News & events, and Contact. The main content area is titled 'Project overview' and 'Objectives'. Under 'Project overview', there is a list of links: General overview, Objectives (selected), Work plan, and Work packages. The 'Objectives' section states: 'C3-Cloud's objectives are to:' followed by a bulleted list of eight objectives.

C3-Cloud's objectives are to:

- Enable the **development of personalised care plans** for multi-morbid conditions through systematic and semi-automatic reconciliation of digitally represented clinical guidelines for individual chronic conditions, by a group of collaborating health and social care givers, and with the informed participation of the patients and their informal care givers.
- Provide an innovative **online platform** through which multidisciplinary care team members (MDT) can collaboratively manage (execute, monitor, update) the integrated personalised care plans for patients with multi-morbid conditions.
- Provide **Clinical Decision Support Modules** to support personalised care plan development and execution by clinical guideline reconciliation, risk stratification, poly-pharmacy management and goal setting and monitoring.
- Ensure **active participation of patients** and their informal caregivers to the management of their multi-morbid chronic conditions through a **Patient Empowerment Platform** to alleviate challenges that patients face to adhere to various treatment regimes for each chronic condition.
- Provide an **Interoperability Middleware** addressing that will seamlessly integrate all the interoperable components of the infrastructure in accordance to best-practice and state-of-the-art technologies and standards.
- **Demonstrate the applicability of C3-Cloud integrated care approach** by piloting in three European regions (South Warwickshire, Basque Country and Region Jämtland Härjedalen) with different health and social care systems and ICT landscapes.
- **Analyse** the trajectories of C3-Cloud participants and their data to **strengthen the evidence base** in caring for patients with multiple conditions and to inform future development of more streamlined and optimised multi-morbidity care pathways.
- Develop experiment and refine **new adaptive models of integrated care** and organisational change management guidelines for achieving the design and implementation of integrated care supported with ICT in diverse settings.

Figure 3: Overview – project objectives

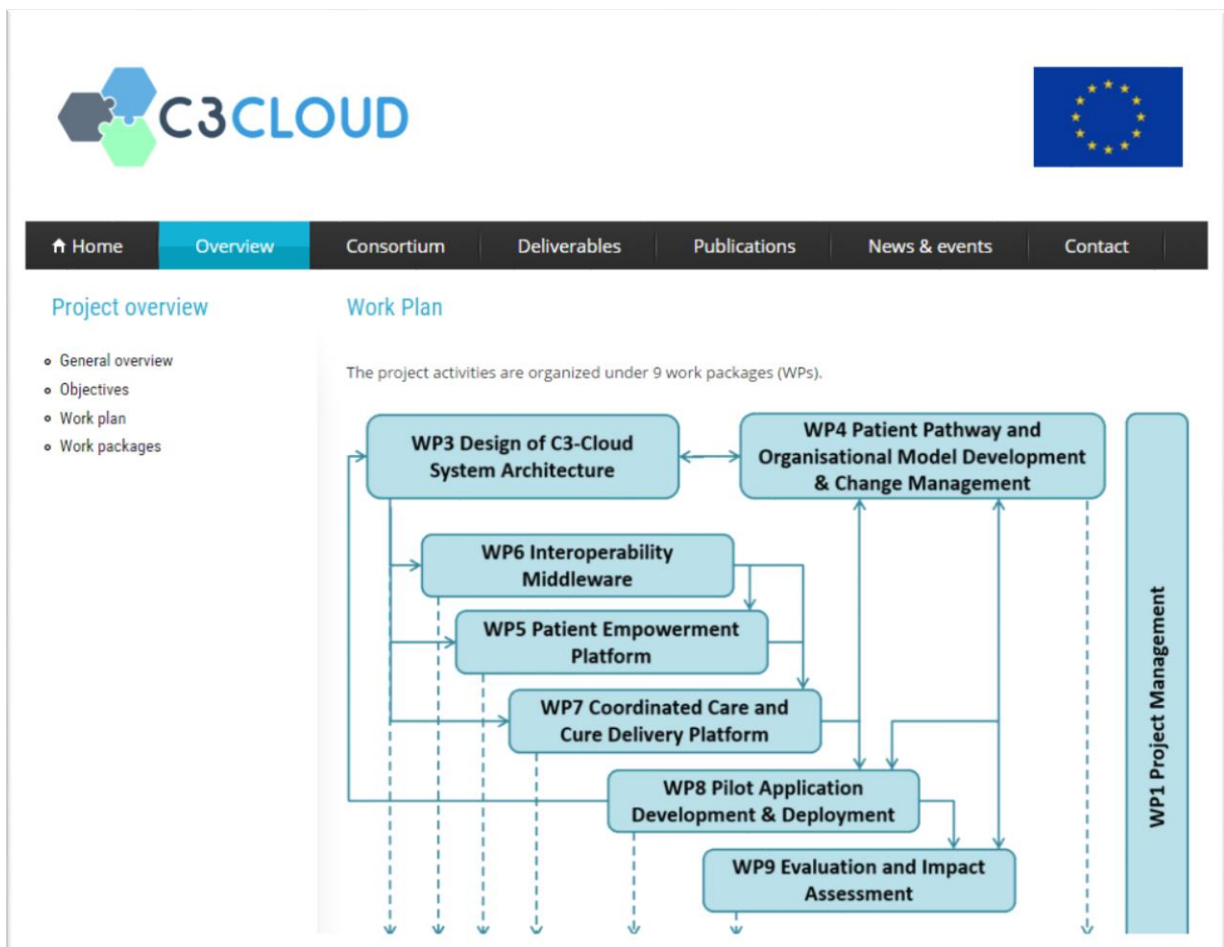


Figure 4: Overview – project work plan

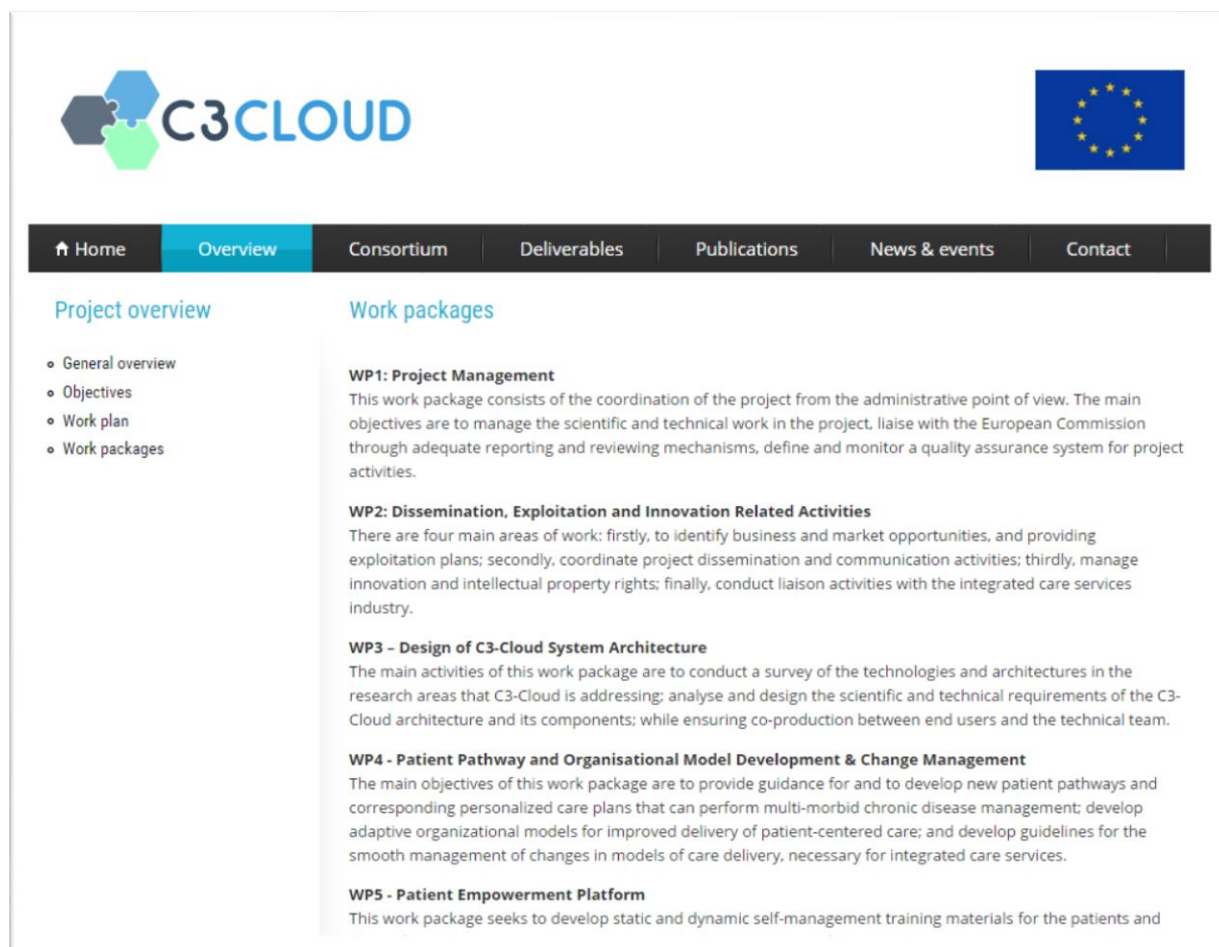


Figure 5: Overview – project work packages

2.1.2 Consortium

The Consortium page (Figure 6) presents the C3-Cloud partners, with links to the partner website.

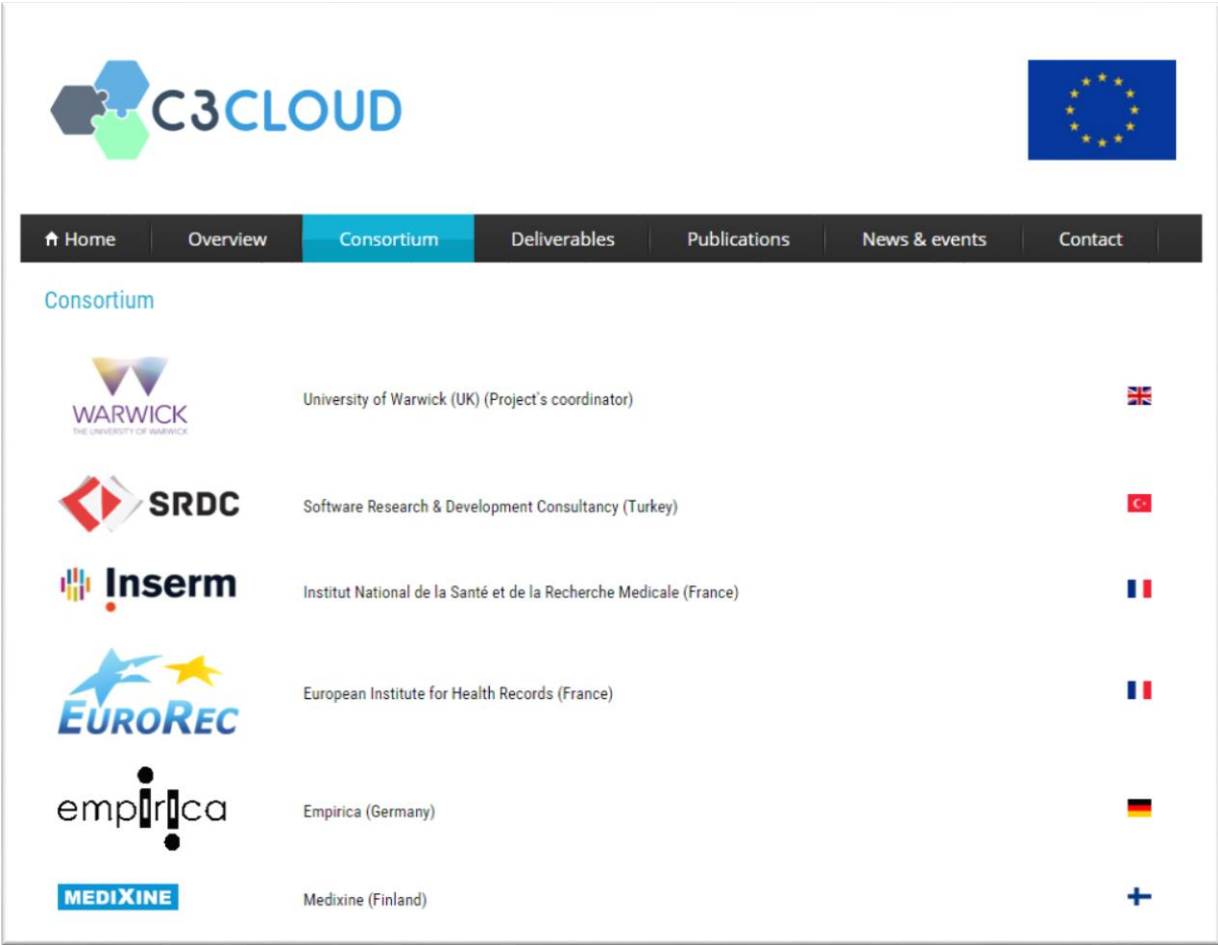


Figure 6: C3-Cloud Consortium

2.1.3 Deliverables

The Deliverables page (Figure 7) shows a list of all the deliverables that will be produced in the project, by work package. Publicly available and restricted deliverables are indicated and when approved, public deliverables will be available from this page.

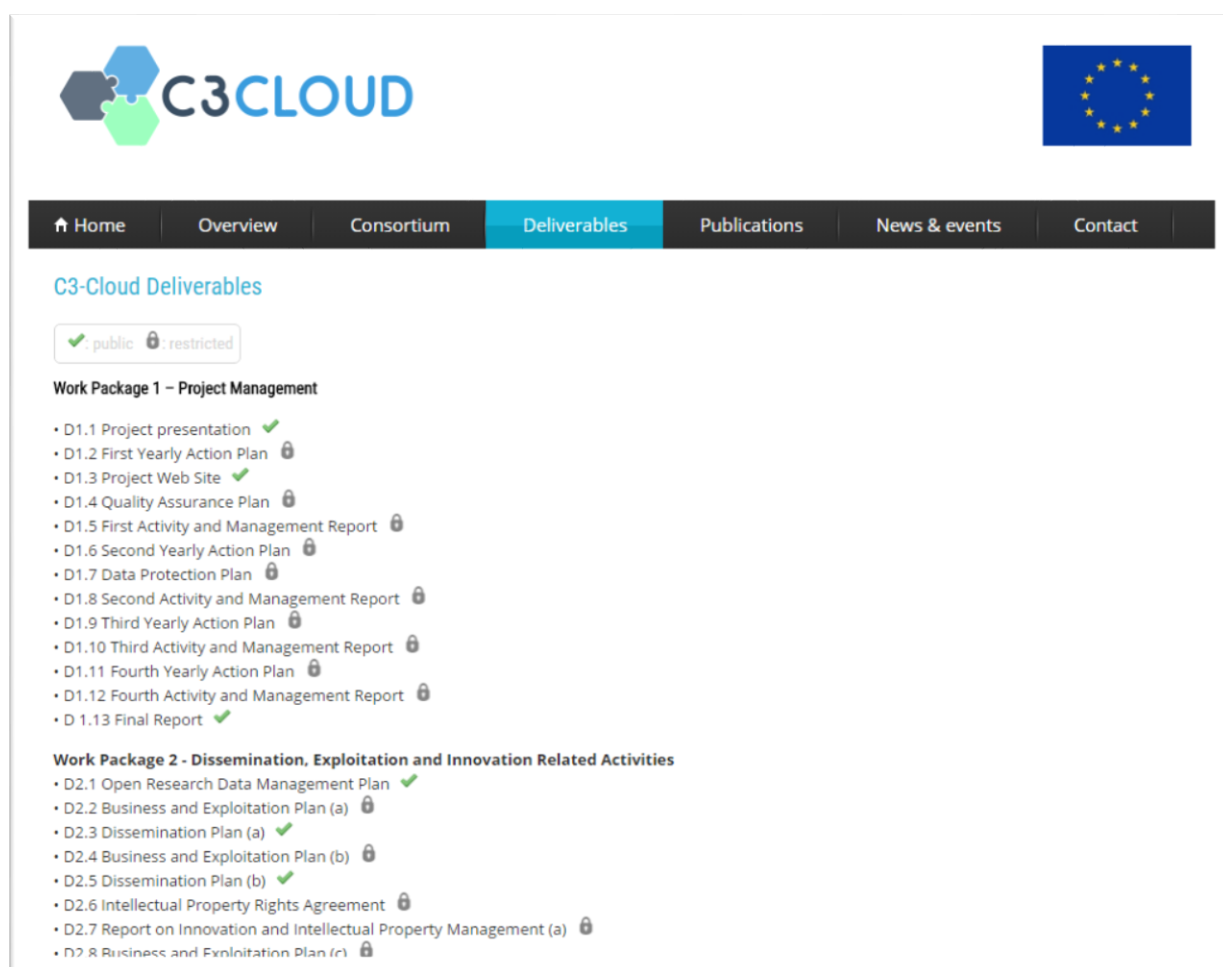


Figure 7: List of C3-Cloud deliverables

2.1.4 Publications

The Publications page will contain a list of publications and dissemination materials arising from the project.

2.1.5 News and Events

The News and Events page will link to the latest news about C3-Cloud achievements and relevant events organised and attended.

2.1.6 Contact

The Contact Page (Figure 8) gives details of the Project Coordinator and provides a link to email for general queries about the C3-Cloud project.

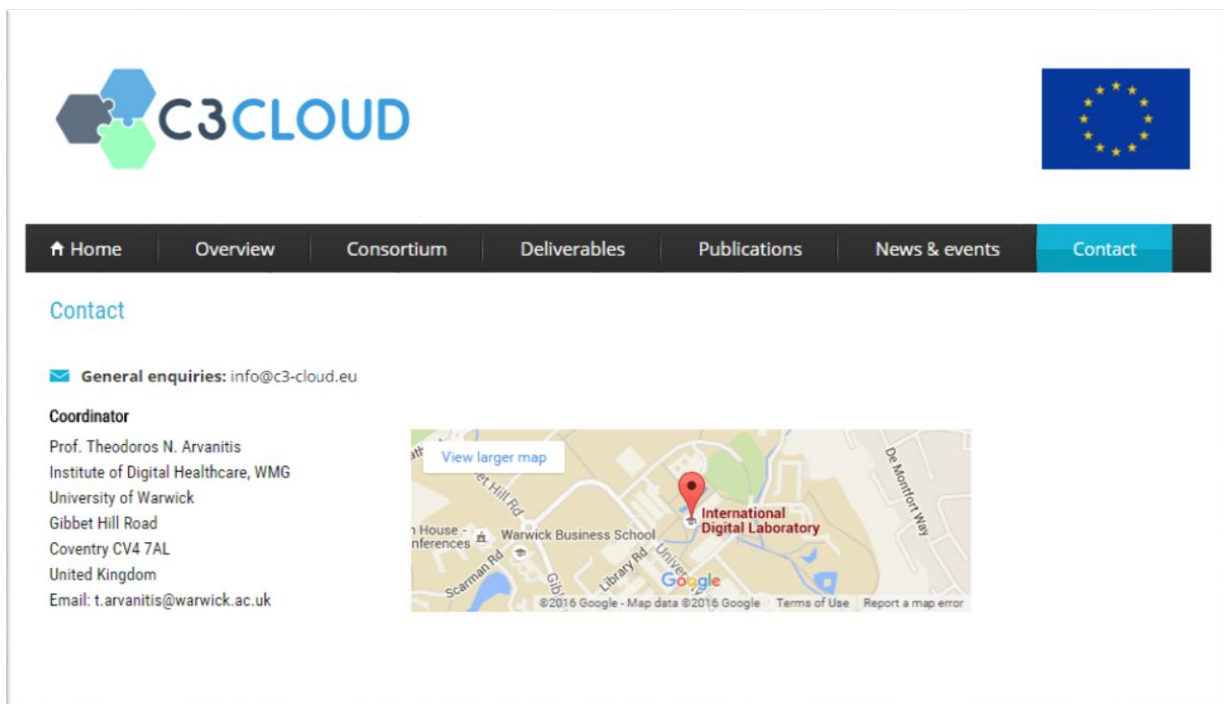


Figure 8: Contact page

2.2 Web Site Development and Technologies

The C3-Cloud website has been developed using Drupal (1). Drupal is a free and open source Content Management System written in PHP. The underlying database is MySQL. The website is hosted on a Windows server running an IIS (Internet Information Services) web server.

3 C3-CLOUD DOCUMENT MANAGEMENT SITE

The C3-Cloud Document Management site is available only for members of the Consortium for collaborative work and sharing of relevant documents.

3.1 Site Development and Technologies

The Document Management Site is a Microsoft SharePoint (2) site that enables users to access a web-based file manager and other tools, such as project calendar.

3.2 Site Structure and Features

The site is accessible via the Consortium Area icon on the left hand side of the C3-Cloud public web site. Access is restricted to C3-Cloud partners via a login page. After successful login using a Microsoft account, the main page of the C3-Cloud SharePoint is displayed (Figure 9).

The initial hierarchy of the directory tree has been set up as follows:

- Contractual Documents

- Grant Agreement, Description of Actions and Consortium Agreement are available from here.
- Events
 - Sub-directories can be created for each event organised. Documents that will be shared can include agenda, participant list, minutes, report and presentations.
- Meetings
 - In this sub-directory, separate sub-directories will be created for each meeting, whether face-to-face or virtual. Meeting agenda, minutes, presentations and discussion materials can be shared.
- Resources
 - This sub-directory will contain resources such as templates, images, mailing lists, board or committee membership lists.
- Each Work Package has its own directory, and can contain the following:
 - Deliverables – a sub-directory is to be created for each deliverable for sharing document versions, materials.
 - Work Task – where relevant, a sub-directory can be created for a work task for the sharing of relevant documents.

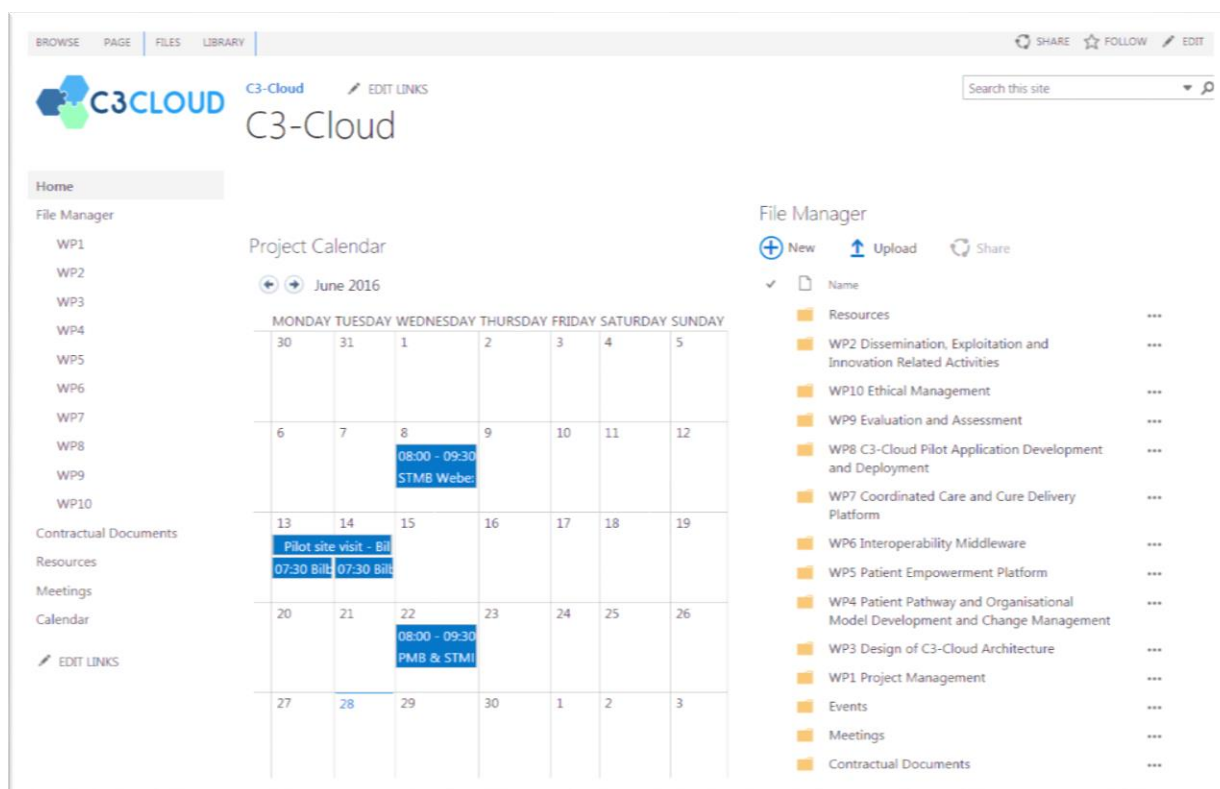


Figure 9: Homepage of the C3-Cloud SharePoint site

4 CONCLUSIONS

The C3-Cloud Web Site consists of two parts: the public C3-Cloud Web site and the restricted Document Management site. The public Web site aims to give an overview of C3-Cloud project presenting its objectives, work packages, partners, and to present latest achievements. The C3-Cloud Web site also links to a restricted Document Management site, which can be used by C3-Cloud partners

as a virtual file manager to work collaboratively. The C3-Cloud Web site will be continuously updated by the Project Coordinator supported by the Communications and Exploitation Manager.

5 REFERENCES

1. Drupal - Open Source CMS | Drupal.org [Internet]. [cited 2016 Jun 19]. Available from: <https://www.drupal.org/>
2. SharePoint – Team Collaboration Software Tools [Internet]. [cited 2016 Jun 19]. Available from: <https://products.office.com/en-us/sharepoint/collaboration>