SPEAR

Secure and PrivatE smArt gRid

(Grant Agreement No 787011)

SPEAR web site, social network pages and open access server

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1.1	Michail Angelopoulos (PPC) Konstantinos Stamatakis (PPC) Solon Athanasopoulos (PPC) Anastasios Papadopoulos (PPC)	2018-06-05	Minor text corrections
1.2	Michail Angelopoulos (PPC) Konstantinos Stamatakis (PPC) Solon Athanasopoulos (PPC) Anastasios Papadopoulos (PPC)	2018-12-16	Revised version submitted to the European Commission after following the PO comments of the rejection letter on 24/08/2018

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Emmanouil Kafetzakis (8BL)	2018-05-29	Minor language revisions
Vasilis Argyriou (0INF)	2018-05-29	Minor refined sections

Legal Notice

Table of Contents

Acronyms

Acronym	Explanation
PO	Project Officer
DoA	Description of Action
EU	European Union
EC	European Commission
SPEAR	Secure and PrivatE smArt gRid
SSL	Secure Socket Layer
HTTPS	Hypertext Transfer Protocol Secure
CMS	Content Management System
MVC	Model-View Controller
SQL	Structured Query Language
PPC	Public Power Corporation S.A
WP	Working Package
RSS	Rich Site Summary

1. Executive Summary

This document gathers the website, social networks, collaborative tools and mailing lists setup for the SPEAR project.

More specifically, the detailed technical specifications of the website are provided. Those include the segregation of the website in two parts, the public and private one, the installation of TLS certificate for providing security during sessions, and the deployment of the Content Management System platform that allows the administrator to effectively manage the website and its content.

The public website is thoroughly analysed and divided in 6 pages, namely the Homepage, the Consortium, the Deliverables, the News, the Publications and the Contact page. Its purpose is to keep the public, project participants and the EC informed about the project.

The social media accounts are an important part of the communication and dissemination strategy and have also been launched, alongside the pubic website, since the beginning of the project. SPEAR consortium maintains social accounts on LinkedIn and YouTube.

Only the members of the consortium have access to the private part of the website, which is based on the Confluence platform. The private section consists of a collaboration tool that helps the members of the consortium to share documents and organize their actions.

An additional dissemination and coordination tool is the Bitbucket that assists the code development of the SPEAR solution, whilst the open-source parts of the platform will be made available to the public.

Finally, SPEAR utilizes mailing list for maintaining communication and coordination between the consortium members.

All the aforementioned tools have been established as an initial version of the project dissemination means and will be adapted according to the project internal and external needs during the project lifetime.

2. Introduction

The SPEAR project officially started on the 1st of May 2018. This report summarizes the activities and tools that have been set up for SPEAR dissemination activities and internal information sharing as described by the project's Description of Action (DoA). General public and interested parties in the project development and achievements will be able to access all the information about SPEAR through the public website.

The logo of SPEAR has been chosen from a set of logos, designed and proposed by the partners. A template has been designed specifically for SPEAR reports and deliverables, including the logo and the European Union (EU) projects standard characteristics.

The dissemination activities of SPEAR will include the publications in international peer-reviewed journal and conferences. All the public documentation and results will be uploaded to the public website.

Social Networks have been adopted to establish alternative ways of communication with the audience. For this purpose, a LinkedIn page and a YouTube channel have been created.

This document briefly explains and gathers the ways of communication with SPEAR project and also the tools for internal usage: public website, LinkedIn page, reports template and confluence workspace.

3. Purpose, context and scope of this deliverable

The purpose of this deliverable is to create a communication channel in order to inform the public about the SPEAR project. In our dissemination plan we foresee i) the development of a website which will convey specific, helpful information to the public, project participants and the EC about the project and ii) the creation of social media pages (LinkedIn and YouTube) where all the research/industrial activities such as a) journal publications, b) conference presentations, c) exhibitions and d) workshops will be uploaded to inform potential users and stakeholders about the concept of the project and receive feedback on them.

4. Content and Structure of this deliverable

The rest of this deliverable consists of the following sections:

- Section 5 – Technical specifications and Tools for the website development: Provides all the necessary information to the project consortium regarding the tools and technologies that were used in order to develop the website in a flexible and secure manner.
- Section 6 – Public Website: Provides the URL of the project and the website content described in detail.
- Section 7 – Social Media accounts: Includes the communication channels through them the consortium will disseminate quickly the results, interests, and opportunities of SPEAR (LinkedIn and YouTube).
- Section 8 – Confluence workspace: Refers to the workspace deployed for the project management and file sharing.
- Section 9 – Bitbucket workspace: Refers to the workspace deployed for the code collaboration.
- Section 10 – Mailing lists: Provides the mailing list which is going to be used for the internal communication.

5. Technical Specifications and Tools for the Website

The project website has been developed based on the following technical specifications:

- The following domain name has been registered for the project website: *spear2020.eu*
- A Comodo Positive SSL Certificate has been purchased to support secure connections to the website (HTTPS).
- The website is divided in two parts:
    - o Public part: all data shown in this part are visible to anyone.
    - o Restricted part: data available in this part are accessible only to the Consortium members.
- The Content Management System (CMS) has been implemented so that:
    - o Admin defines the content of the webpage (text, images) and is able to change any of them.
    - o Admin is the IT manager of PPC.
    - o Admin can define the site parameters (article categories, deliverables, etc.).
    - o Admin can upload new content such as articles, videos and images.
- A user-based access mechanism has been implemented for the website. Every partner will be able to enter to the Restricted part of the project's website using a unique username and password.
    - o Admin has already appointed the users of the project.
    - o Users can upload data for the project implementation in the form that Admin has defined (e.g., Date, Title, Image, Text).
- A traffic analytics tool has been deployed in order to continuously measure the number of the public website visitors.

The following tools and technologies have been used for the website development:

- Microsoft Visual Studio 2017 and ASP.NET MVC has been used for the website development.
- The site has been developed in a flexible way, in order to facilitate any changes in the future.
- The site is hosted to Azure server in PPC.
- The site uses an SQL Server database, which has already been deployed on the Azure server.

6. Public Website

A public website for the SPEAR project has been created for public dissemination objectives. The website is addressed to a general audience and provides public information, including public documents and updates about the progress of the project. It is located at the following URL, hosted by PPC:

<div align="center">

https://www.spear2020.eu

</div>

This website has 6 sections, each one of them shares the same layout that consists of the sidebar with a LinkedIn feed and the footer with links to relevant project information and contact.

- **Overview**: Provides a general description of the project and includes a subpage with the project objectives as defined in the DoA.
- **Consortium**: Gives a brief summary of the 18 members of SPEAR and what benefits will be provided to the project by each of them.
- **Deliverables**: Includes a list of publicly available reports, ordered sequentially by date. Once these documents are made available, one could download them from the same page.
- **News**: Includes announcements and notifications about events or public results in the field of cyber security related to SPEAR. Dedicated RSS feed informs instantly all subscribers about new posts.
- **Publications**: Gathers all the original publications, such as open access articles, conference reports and book chapters, produced by SPEAR.
- **Contact**: Includes a contact form and provides contact details of the project coordinator and the IT manager of the website.

At the moment of writing this deliverable, comments have been disabled for all posts due to the nature of the website. This can be reviewed at a later stage in case it is required for the coming posts.

Fig. 1 and Fig. 2 illustrate screenshots from the SPEAR website.
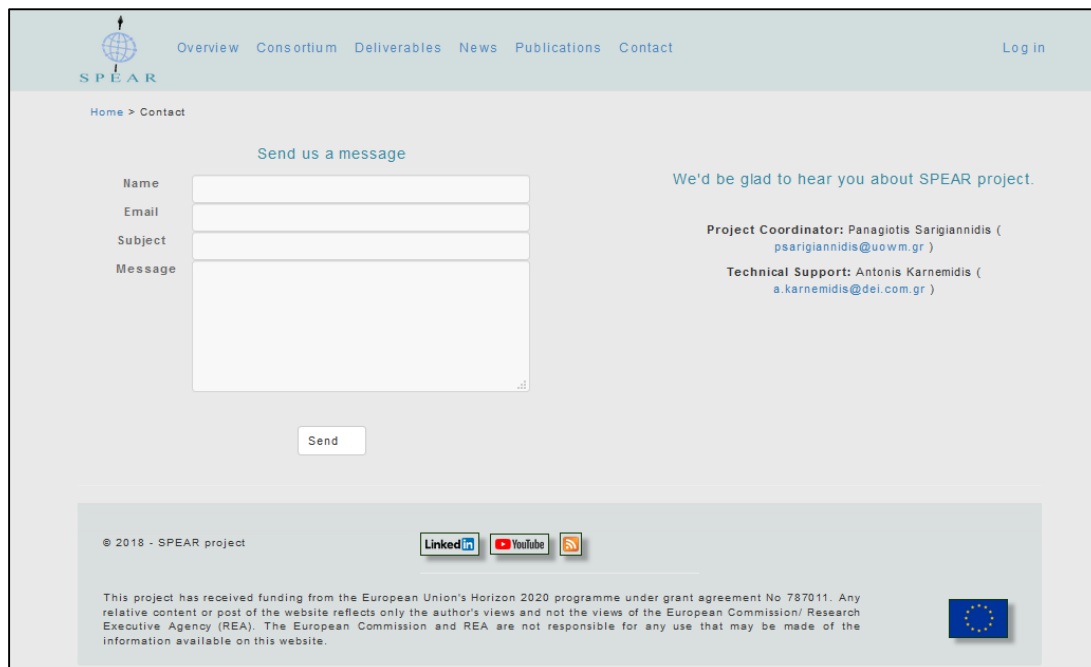
Fig 1: The start page of the SPEAR website

Fig. 2. The contact page of the SPEAR website.

7. Accounts on social media

Aiming to provide an alternative communication channel with a potential audience and disseminate quickly the results, interests, and opportunities that SPEAR will develop during the project lifetime, a LinkedIn page has been created under the following link: https://www.linkedin.com/company/spear2020/. Also, a YouTube channel has been created for sharing multimedia content under the following link: https://www.youtube.com/channel/UCw6-d5G01ToBhCmaUnHIcpw

Fig. 3 shows screenshots from the YouTube channel and Fig. 4 illustrates a screenshot from the SPEAR project page on LinkedIn.
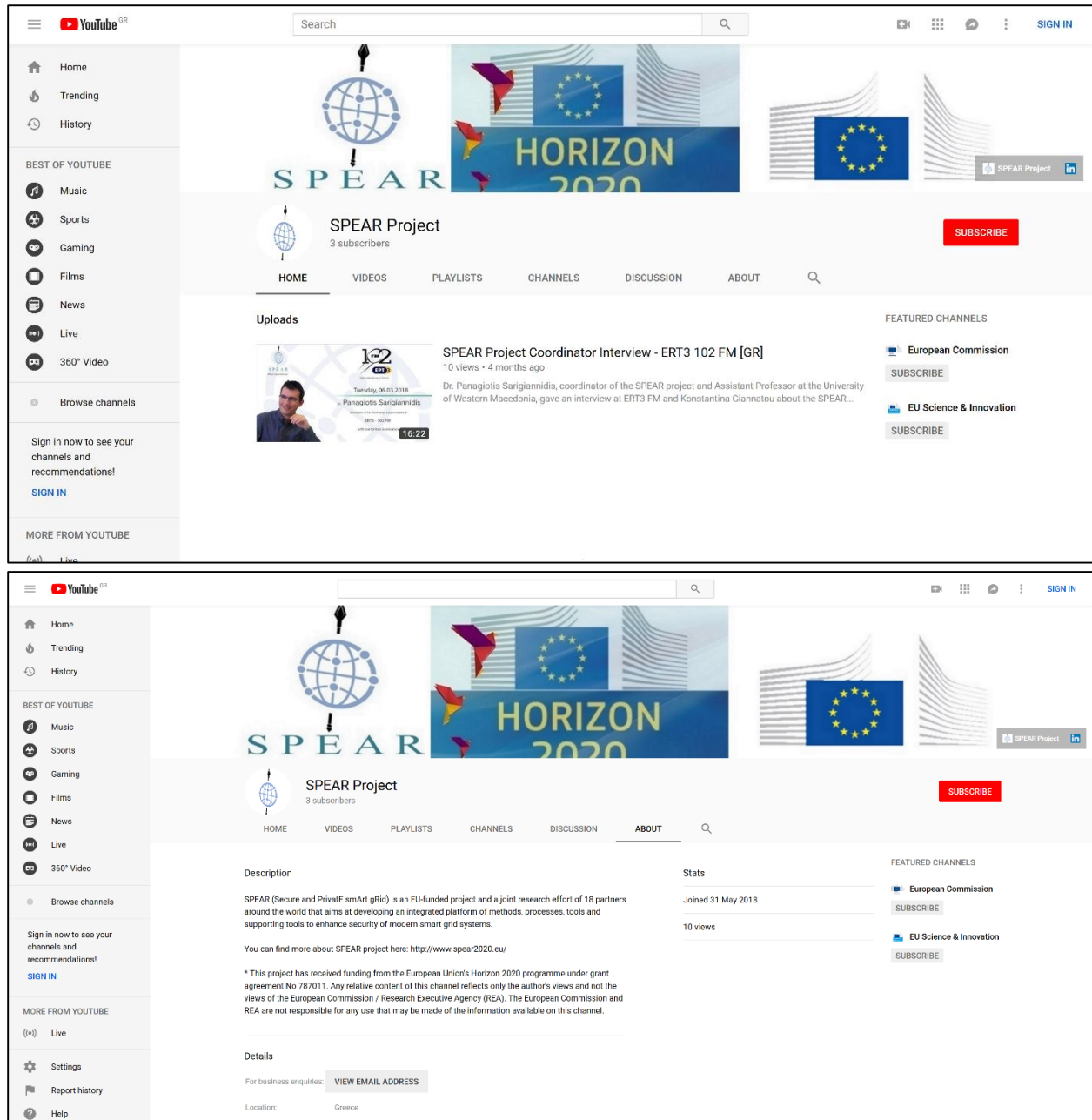
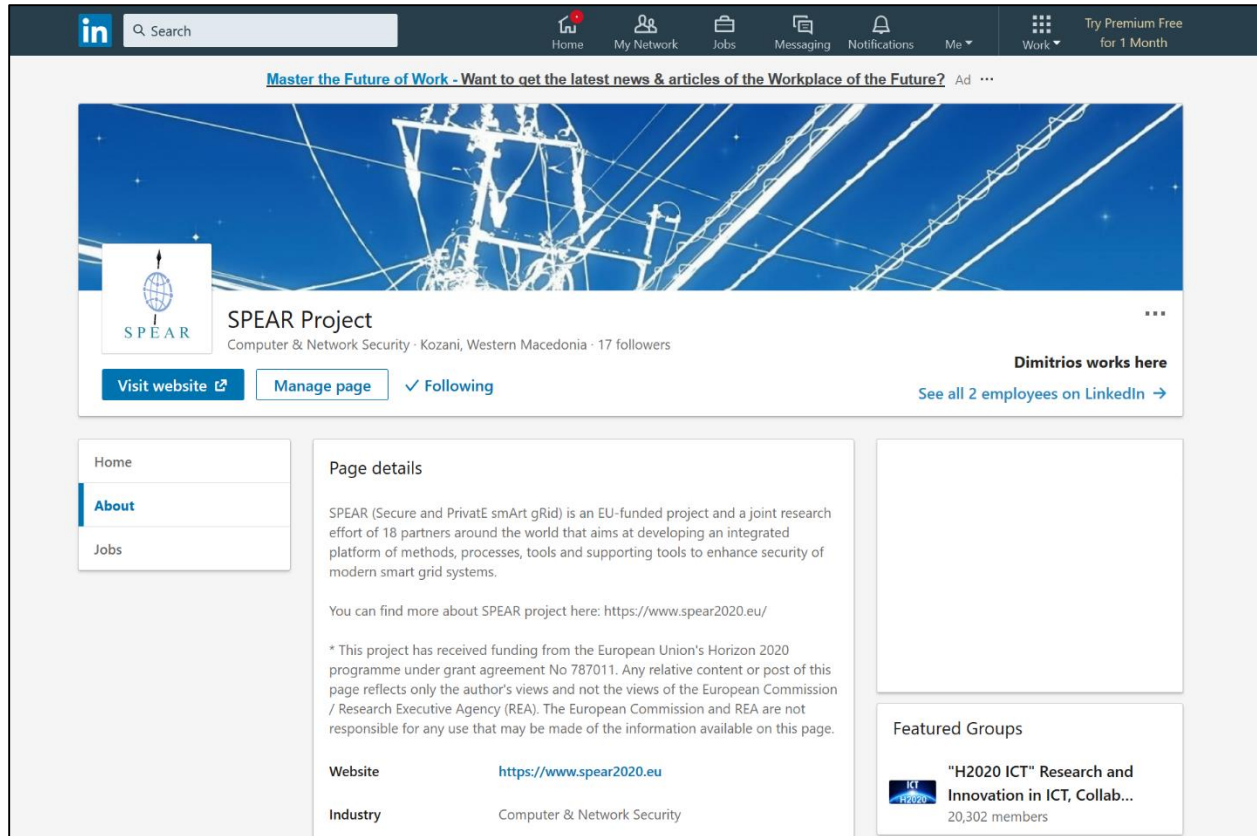Fig. 3. The SPEAR channel on YouTube.

Fig. 4. Screenshot from the SPEAR page on LinkedIn.

8. Confluence workspace

A common reference space has been set up for SPEAR partners to share documents and get all available information, both public and restricted, using the Confluence software. This workspace allows users to upload documents, share files and organize the information in sections for an easy collaborative editing. Confluence has been set up for SPEAR with the following sections:

- **Contacts**, includes a list of every person involved in SPEAR and their mailing lists affiliation.
- **List of deliverables and milestones**, to be executed during the project lifetime.
- **Meeting and conferences**, includes the minutes of conference calls that have happened in SPEAR.
- **Official documents**, where the DoA, collaboration agreement and continuous reports can be found.
- **Templates and logos**, including the templates to be used along with several versions of the chosen logo.
- **Work packages**. Each work package (WP) partner can share their own documents within this section. It is expected that this will be the section most commonly used for the information sharing of SPEAR.

The structure of the Confluence workspace might change during the project lifetime to ensure an efficient collaborative way of working between members of the consortium.

Access to this workspace is granted only to internal project participants, ensuring secured access to all documents (restricted and public) for all members of the consortium and at the same time, guaranteeing that no issues associated with the information available in the workspace made public will occur.

Fig. 5 and Fig. 6 depict screenshots from the Confluence workspace used in the SPEAR project. Details from those screenshots have been removed for privacy reasons.
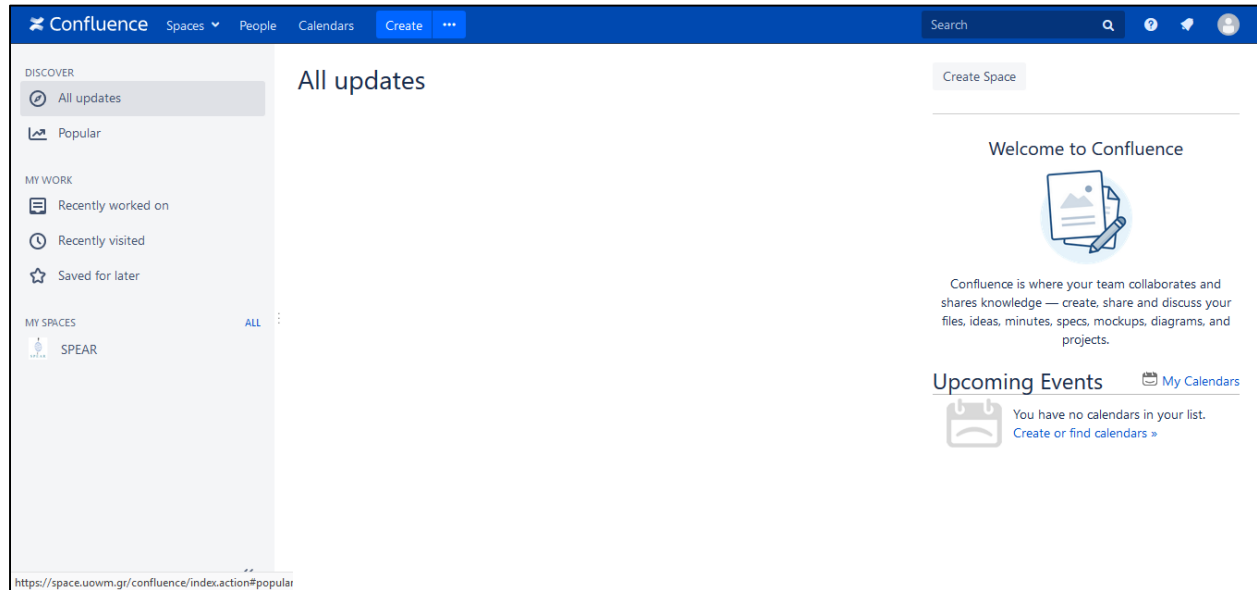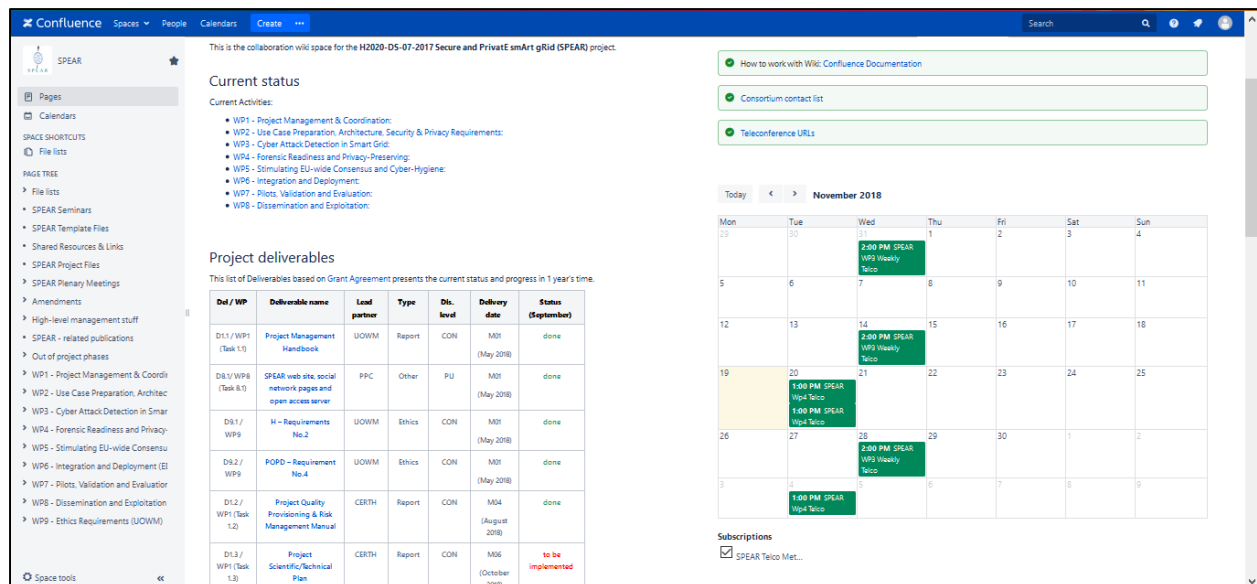

Fig. 5. Screenshot from Confluence's start page.

Fig. 6. Screenshot from the SPEAR's main dashboard.

9. Bitbucket development workspace

The Bitbucket software has been deployed on a server in UOWM to assist code development and collaboration. Bitbucket offers a cloud-based and self-hosted service that allows users to create an unlimited number of projects, both private and public, and collaborate on them. Developers can pull requests to edit code, publish reviews and discuss about specific projects or pulls.

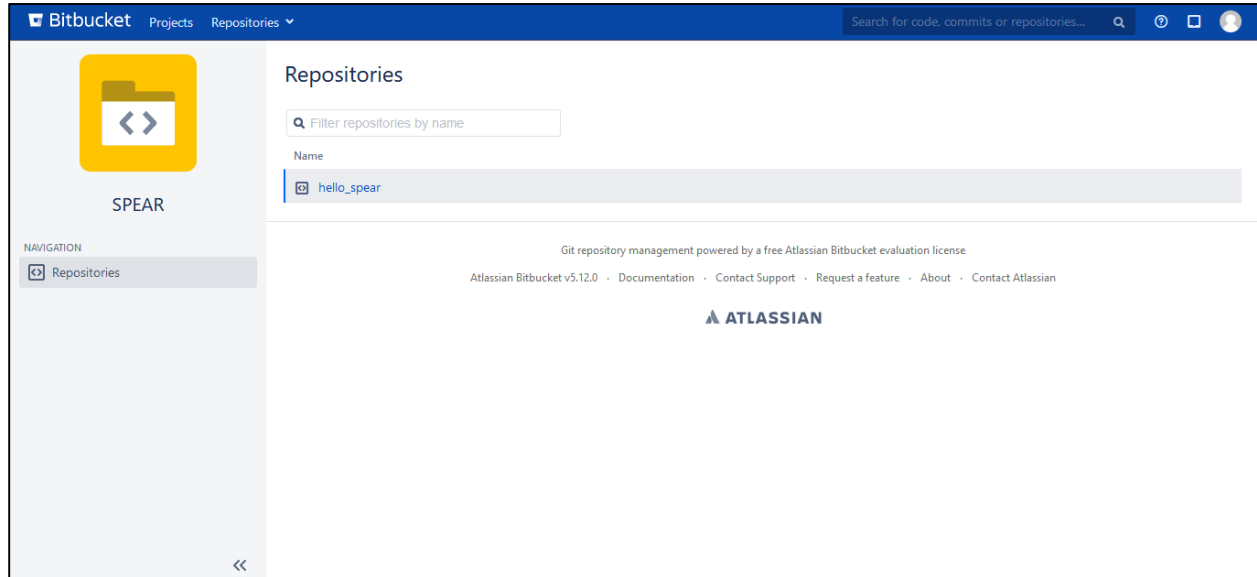Fig. 7 shows a screenshot from the Bitbucket platform.

Fig. 7. Bitbucket repositories.

10. Mailing Lists

UOWM hosts the mailing service for SPEAR. In total, thirteen mailing lists have been created with the purpose of focusing discussions just among the relevant people. The mailing service includes the following mailing lists:

- General Assembly: spear-general-assemply@lists.uowm.gr
- Ethics & Privacy Committee: spear-ethics-privacy@lists.uowm.gr
- Technical Management: spear-technical-management@lists.uowm.gr
- Security Advisory Board: spear-security-advisory@lists.uowm.gr
- Impact Creation Board: spear-impact-creation@lists.uowm.gr
- WP1 mailing list, for WP1 usage: spear-wp1@lists.uowm.gr
- WP2 mailing list, for WP2 usage: spear-wp2@lists.uowm.gr
- WP3 mailing list, for WP3 usage: spear-wp3@lists.uowm.gr
- WP4 mailing list, for WP4 usage: spear-wp4@lists.uowm.gr
- WP5 mailing list, for WP5 usage: spear-wp5@lists.uowm.gr
- WP6 mailing list, for WP6 usage: spear-wp6@lists.uowm.gr
- WP7 mailing list, for WP7 usage: spear-wp7@lists.uowm.gr
- WP8 mailing list, for WP8 usage: spear-wp8@lists.uowm.gr

The SPEAR consortium members are able to see who is subscribed to each of the mailing lists in the contacts section of SPEAR workspace.

Table of Figures