



# ehcoBUTLER

**Knowledge and data management activity**  
ehcoBUTLER Project

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## 1 INTRODUCTION

### 1.1 Purpose of this document.

The Knowledge and Data Management Activity (KDMA) purposes are:

- to identify and qualify the data and distinctive knowledge that will be produced by the ehcoBUTLER consortium during the project lifecycle;
- to decide the access policies to the data and knowledge produced by the project;
- to define the specification of the knowledge and data repository according to the data protection level defined in the Data Management Plan of the project.

The KDMA is not a fixed document, but evolves during the Project.

### 1.2 Intended audience

This document is oriented to:

- The project's participant organizations;
- The local Ethics Committee;
- The beneficiaries' personnel and all stakeholder involved by the project;
- The European Commission.

### 1.3 Overview of the document

This document contains:

- a description of the data and knowledge that will be produced by the project during its lifecycle. This description is based on the current status of project development, and it will be subject to a periodic update according to the project knowledge and data production processes;
- a description of the access policies according to the type of the data and knowledge, the typologies of stakeholders potentially interested to them and the degree of relevance for the project exploitation and consortium IPR;
- the design of the knowledge and data repository specification that will allow the consortium to develop the web repository for the on-going knowledge that will be generated during the project lifecycle.

### 1.4 References and applicable documents

Reference documents are:

- D7.4 - Knowledge and data management plan;
- Commission Recommendation of 23 June 2009 on reference metadata for the European Statistical System (2009/478/EC).

### 1.5 Terminology

#### 1.5.1 Abbreviations and acronyms

- EC: European Commission.
- DOW: Description of Work
- OI: Open Innovation
- WP: Work Package



### 1.5.2 Definitions

Words beginning with a capital letter shall have the meaning defined either herein or in the Rules or in the Grant Agreement related to the project.

### 1.5.3 Additional Definitions

**Project:** Project refers to the ehcoBUTLER project funded from the European Union's Horizon 2020 research and innovation programme under Grant Agreement 643566;

**Knowledge:** All data and knowledge produced during the project;

## 2 KNOWLEDGE AND DATA ACCESS POLICIES

### 2.1 General principles

As reported in the DoA, ehcoBUTLER project intends to be managed as an **open innovation** (OI) project. In order to maximize the efficiency and effectiveness of knowledge sharing among the partners and relevant stakeholders, a web-based platform will be developed and adopted for enabling and supporting collaborative working on project documents, databases and information (see Chapter 4).

The OI model of ehcoBUTLER project is conceived as a two layers model, depicted in the following figure:

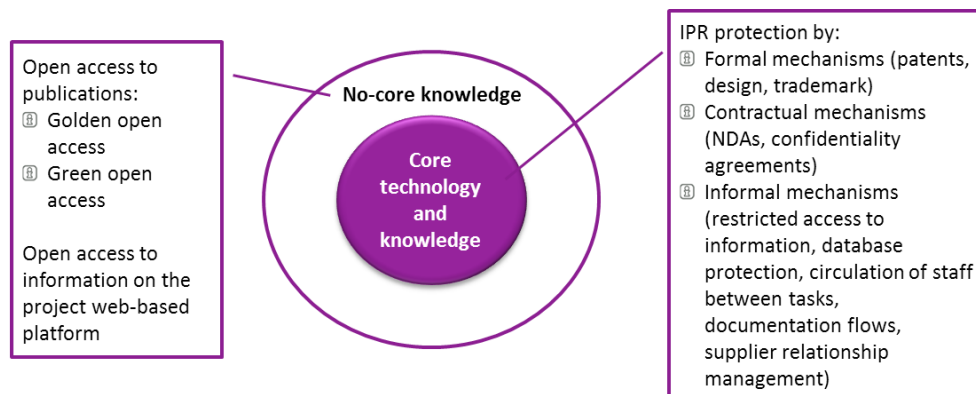


Figure 1.OI principles and access policies

- The first layer will ensure protection of the core technologies and know-how developed and used during the Project. Core technologies and innovations will be identified as those that create value for the potential customers/users and can be embedded in a wide range of applications, distinguish the partners from their competitors and hence represent the roots of future competitive advantages. Non-Disclosure Agreements (NDAs) and Confidentiality Agreements will be adopted to regulate exchange with third parties and informal protection mechanisms will be adopted to regulate restricted access to information.
- The second layer will maximize the diffusion of non-core data and know how, in order to promote diffusion of Knowledge and dissemination of project results. To this aim, an open access policy will be adopted to increase the possibility of validating project results and to create awareness around the project and then supporting exploitation strategy.

### 2.2 Access policies

According to the OI model described above, the access policies to ehcoBUTLER knowledge and data will be as follows:

- “golden” open access, for all data and knowledge that will be immediately made available to the public through the project web site,
- “green” open access, for all data and knowledge with no restricted open access and involving specific stakeholders on the basis of their previous registration and identification. In this case, the project Knowledge will be shared only with organizations/individuals aimed at using them for research purposes and willing to make open the further findings produced by the use of ehcoBUTLER Knowledge.

In Chapter 3, all data and knowledge that will be produced during the Project lifecycle is analysed in relation to the OI strategy and related access policies.

Both “golden” and “green” Knowledge will be managed by the Dissemination Manager in a specific section of the project web portal, as described in Chapter 4.

In the following sub-section 2.3, the recommendations that will be followed in Chapter 4 to design the knowledge and data management repository are listed.

### **2.3 Recommendations for the knowledge and data repository**

- Documents should be produced under the Word, Excel, PowerPoint and PDF formats.
- The Knowledge Repository (see Chapter 4) will allow downloading and uploading each format below listed.

### 3 KNOWLEDGE AND DATA PRODUCED BY THE PROJECT

#### 3.1 Description of data and knowledge

In this paragraph, we provide a description of the knowledge and data that will be generated for each work package.

This exercise is useful for several reasons:

- It helps defining what type of knowledge and data are produced by the project;
- It specifies when they will be produced;
- It clarifies the relevance of project data for the exploitation purposes and IPR;
- It allows deciding to what extent the Knowledge and data generated can be open to stakeholders and to the public.

In the following subparagraph we will specify all these issues in details in terms of:

- Key characteristics;
- Relevance for the project exploitation and IPR;
- Type of stakeholders addressed from those identified in D7.1;
- Access policy as specified in Chapter 2;
- The metrics that will be used to evaluate the knowledge produced by each Work Package.

This information will be then used to draw the specifications of the knowledge and data repository (Chapter 4).

##### 3.1.1 Knowledge and data produced in WP2

Scope of this WP is to collect all relevant information about innovation context system, including elder people experiencing cognitive decline and feedbacks from other relevant stakeholders. They include health professionals, caregivers, public and private organizations dealing with health care and social services for the target users of ehcoBUTLER as well as health authorities.

Moreover, the WP2 aims to collect evidences on the usability and acceptability of the current solution and the new functionalities that will be deployed during the project lifetime.

Under these perspectives the relevant data and knowledge that will be collected during this WP are:

- Needs and requirements of elder people that experience a cognitive decline from end users and other relevant stakeholders perspectives;
- Results from usability evaluation of ehcoBUTLER functionalities.

Measurement metrics:

- # of publications in scientific papers that will use the data and knowledge that will be done by the project Consortium
- # of public events where the project consortium will use the data and knowledge

<b>Knowledge/Data ID</b>	Needs and requirements of older people that experience a cognitive decline from end users and other relevant stakeholders perspectives
<b>Related Task/Deliverable</b>	T2.1; D2.1
<b>Description</b>	Use cases and reports
<b>Format</b>	Written format and UML
<b>Expected time of publication</b>	M3
<b>Relevance for the project exploitation and IPR</b>	<b>Core knowledge</b> – The data and knowledge will be shared only among the consortium members (including Commission services).
<b>Type of stakeholders addressed</b>	Organizations and individuals aimed at using them for research purposes. Mainly universities and research centres.





<b>Access policy</b>	Green open access
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<b>Knowledge/Data ID</b>	Results from usability evaluation of ehcoBUTLER functionalities
<b>Related Task/Deliverable</b>	T2.3 and T2.4; D2.3 and D2.4
<b>Description</b>	Statistics and reports
<b>Format</b>	Written format and datasets with statistical indicators
<b>Expected time of publication</b>	M9 and M16
<b>Relevance for the project exploitation and IPR</b>	<b>Core knowledge</b> —The data and knowledge will be shared only among the consortium members (including Commission services).
<b>Type of stakeholders addressed</b>	Organizations and individuals aimed at using them for research purposes. Mainly universities and research centres.
<b>Access policy</b>	Green open access

<b>Knowledge/Data ID</b>	Validation protocol fully tested
<b>Related Task/Deliverable</b>	T2.6; D2.5 (validated through the pilots implementation activity on the field)
<b>Description</b>	Check lists, questionnaires, protocols and related manuals of use
<b>Format</b>	Written format and pptx
<b>Expected time of publication</b>	M11 (non validated); M30 (validated)
<b>Relevance for the project exploitation and IPR</b>	<b>Non-core knowledge</b> – The data and knowledge will be shared only among the consortium members (including Commission services).
<b>Type of stakeholders addressed</b>	Mainly university and research centres
<b>Access policy</b>	<b>Green open access</b>

### 3.1.2 Knowledge and data produced in WP3

Scope of this WP is to design, develop and integrate the ehcoBUTLER platform. It is based on the results of the WP2 activities and it also provides evidence of a further evaluation of the usability of the solution from the end users' perspective.

Relevant data and knowledge that will be collected during this WP are:

- Guideline for the developers.

Measurement metrics:

- # of publications in scientific papers that will use the data and knowledge that will be done by the project Consortium
- # of public events where the project consortium will use the data and knowledge

<b>Knowledge/Data ID</b>	Guideline for developers.
<b>Related Task/Deliverable</b>	T3.3; D3.3
<b>Description</b>	Statistics and reports
<b>Format</b>	Written format
<b>Expected time of publication</b>	M9
<b>Relevance for the project exploitation and IPR</b>	<b>Core knowledge</b> – it will be made available for the platform developers.
<b>Type of stakeholders addressed</b>	Organizations and individuals that could be interested to exploit the EhcoBUTLER platform: Health insurance companies, Health care professionals (GPs, Nurses, Specialists), Health and social care providers, Services and consultancy companies; industry, University and research centres, Others (Alliances, associations clusters, networks, etc.)
<b>Access policy</b>	Green open access.



Measurement metrics:

- # of publications in scientific papers that will use the data and knowledge that will be done by the project Consortium
- # of public events where the project consortium will use the data and knowledge

### 3.1.3 Knowledge and data produced in **WP4**

Scope of this WP is to develop further MCI modules which functions in the ehcoBUTLER ecosystem, using the API developed in WP3.

This WP is mainly related to the development of new modules of ehcoBUTLER solution.

Measurement metrics for the restricted knowledge developed by the project::

- # of publications in scientific papers that will use the data and knowledge that will be done by the project Consortium
- # of public events where the project consortium will use the data and knowledge

Measurement and metrics for all the knowledge developed by the project:

- # of publications in scientific papers that will use the data and knowledge that will be done by third parties
- # of public events where the third parties will use the data and knowledge
- # of download of the publication from the ehcoBUTLER web site
- # of followers of ehcoBUTLER account of online research networks
- # of access for ehcoBUTLER data use registered from the ehcoBUTLER web site

<b>Knowledge/Data ID</b>	Guideline for developers and system integrators
<b>Related Task/Deliverable</b>	T4.1-T4.3, D4.1-D4.3
<b>Description</b>	Statistics and reports
<b>Format</b>	Written format
<b>Expected time of publication</b>	M18
<b>Relevance for the project exploitation and IPR</b>	<b>Core knowledge</b> – it will be made available for the platform developers, external developers and system integrators
<b>Type of stakeholders addressed</b>	Internal (consortium) and External developers and system integrators
<b>Access policy</b>	Green open access

### 3.1.4 Knowledge and data produced in **WP5**

The activities of WP5 focus on conducting the pilots in 6 countries and 7 organizations. The objective of WP5 is to validate the ehcoBUTLER business cases and perform an analysis on the impact and cost effectiveness of the solution. WP5 creates a large amount of data that is mainly used for analysis in WP6. According to the ethical issue regulations, all this data will be completely anonymized. End users and their relatives and caregivers will be informed on the use of the data through the Informed Consent and Participant Information Sheet.

Under these perspectives the relevant data and knowledge that will be collected during this WP are:

The results from the evaluation protocol pre- and post-measurements (see D2.6), including:

- Participant form
- Mini Mental State Examination (MMSE)



- Clock Drawing Test (CDT)
- Geriatric Depression Scale (GDS)
- Multicultural Quality of Life Index
- Lubben Social Network Scale (LSNS-6)
  
- Usability and Acceptability evaluation metrics
- Mood evaluation metrics
- Final questionnaire for the users
- Training material and installation guide of ehcoBUTLER solutions;
- Results from focus group sessions
- 

Measurement metrics for the restricted knowledge developed by the project::

- # of publications in scientific papers that will use the data and knowledge that will be done by the project Consortium
- # of public events where the project consortium will use the data and knowledge

Measurement and metrics for the whole knowledge developed by the project:

- # of publications in scientific papers that will use the data and knowledge that will be done by third parties
- # of public events where the third parties will use the data and knowledge
- # of download of the publication from the ehcoBUTLER web site
- # of followers of ehcoBUTLER account of online research networks
- # of access for ehcoBUTLER data use registered from the ehcoBUTLER web site

<b>Knowledge/Data ID</b>	Evaluation protocol results
<b>Related Task/Deliverable</b>	T5.4; D5.3
<b>Description</b>	Anonymised raw data from the pilots
<b>Format</b>	xlsx format, csv format
<b>Expected time of publication</b>	M20-M30
<b>Relevance for the project exploitation and IPR</b>	<b>Non-core knowledge</b> – The data and knowledge will be open to public
<b>Type of stakeholders addressed</b>	Research centres and universities, internal used for WP6 analysis on cost effectiveness
<b>Access policy</b>	<b>Green open access</b>

<b>Knowledge/Data ID</b>	Usability and acceptability evaluation metrics
<b>Related Task/Deliverable</b>	T5.5; D5.3
<b>Description</b>	Anonymised raw data from the pilots
<b>Format</b>	xlsx format, csv format
<b>Expected time of publication</b>	M20-M30
<b>Relevance for the project exploitation and IPR</b>	<b>Non-core knowledge</b> – The data and knowledge will be open to public
<b>Type of stakeholders addressed</b>	Mainly university and research centres, internal used by the Change Control Board of the ehcoBUTLER project
<b>Access policy</b>	<b>Green open access</b>

<b>Knowledge/Data ID</b>	Mood evaluation metrics
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<b>Related Task/Deliverable</b>	T5.3 and T5.4, D5.3
<b>Description</b>	Anonymised raw data from the pilots
<b>Format</b>	xlsx format, csv format
<b>Expected time of publication</b>	M20 to M30
<b>Relevance for the project exploitation and IPR</b>	<b>Non-core knowledge</b> –The data and knowledge will be open to public
<b>Type of stakeholders addressed</b>	Mainly university and research centres, internal use by WP6 analysis
<b>Access policy</b>	<b>Green open access</b>

<b>Knowledge/Data ID</b>	Final questionnaire
<b>Related Task/Deliverable</b>	T5.4; D5.3
<b>Description</b>	Anonymised raw data from the pilots
<b>Format</b>	xlsx format, csv format
<b>Expected time of publication</b>	M20-M30
<b>Relevance for the project exploitation and IPR</b>	<b>Core knowledge</b> – The data and knowledge will contain confidential input for the business model design of ehcoBUTLER.
<b>Type of stakeholders addressed</b>	
<b>Access policy</b>	<b>No access</b>

<b>Knowledge/Data ID</b>	Training material and installation guide of ehcoBUTLER solution
<b>Related Task/Deliverable</b>	T5.1, T5.2, D5.1 and D5.2
<b>Description</b>	Manual and slides
<b>Format</b>	Written format and pptx
<b>Expected time of publication</b>	M15 and M25
<b>Relevance for the project exploitation and IPR</b>	<b>Non-core knowledge</b> – The data and knowledge will be open to public
<b>Type of stakeholders addressed</b>	End user organizations, potential clients, patient associations,
<b>Access policy</b>	<b>Golden open access</b>

<b>Knowledge/Data ID</b>	Results from the focus group sessions
<b>Related Task/Deliverable</b>	T5.4; D5.3
<b>Description</b>	Raw transcriptions from the sessions
<b>Format</b>	Doc.
<b>Expected time of publication</b>	M20-M30
<b>Relevance for the project exploitation and IPR</b>	<b>Core knowledge</b> – The data and knowledge will contain confidential input for the business model design of ehcoBUTLER.
<b>Type of stakeholders addressed</b>	Only internal WP6
<b>Access policy</b>	<b>No access</b>

<b>Knowledge/Data ID</b>	Results from the issue tracker tool
<b>Related Task/Deliverable</b>	T5.3; D5.3
<b>Description</b>	Anonymised raw data from the pilots
<b>Format</b>	xlsx format, csv format
<b>Expected time of publication</b>	M20 to M30



<b>Relevance for the project exploitation and IPR</b>	<b>Non-core knowledge</b> – The data and knowledge will be open to public
<b>Type of stakeholders addressed</b>	Mainly university and research centres, internal used by the Change Control Board of the ehcoBUTLER project
<b>Access policy</b>	<b>Golden open access</b>

<b>Knowledge/Data ID</b>	Impact indicators and RoI measurements
<b>Related Task/Deliverable</b>	T5.3; D5.3
<b>Description</b>	Anonymised raw data from the pilots
<b>Format</b>	xlsx format, csv format
<b>Expected time of publication</b>	M20 to M30
<b>Relevance for the project exploitation and IPR</b>	<b>Core knowledge</b> – The data and knowledge will contain confidential input for the business model design of ehcoBUTLER.
<b>Type of stakeholders addressed</b>	Only internal WP6
<b>Access policy</b>	<b>No access</b>

### 3.1.5 Knowledge and data produced in WP6

Scope of this WP is to provide evidences of the impacts that the project could produce on target population and how it can contribute to develop sustainable services for eldercare population.

It also aims at developing a sustainable business model for exploiting ehcoBUTLER solution.

Under these perspectives, the relevant data and knowledge collected during this WP are:

- Results from the impact evaluation of the data collected from pilot trials;
- Results from the cost benefit analysis of the use of ehcoBUTLER solution in different health care systems existing in Europe;
- Exploitation strategy, business model and related business plan.

Measurement metrics for the restricted knowledge developed by the project::

- # of publications in scientific papers that will use the data and knowledge that will be done by the project Consortium
- # of public events where the project consortium will use the data and knowledge

Measurement and metrics for all the knowledge developed by the project:

- # of publications in scientific papers that will use the data and knowledge that will be done by third parties
- # of public events where the third parties will use the data and knowledge
- # of download of the publication from the ehcoBUTLER web site
- # of followers of ehcoBUTLER account of online research networks
- # of access for ehcoBUTLER data use registered from the ehcoBUTLER web site
- # of access for ehcoBUTLER data use registered from the ehcoBUTLER web site

<b>Knowledge/Data ID</b>	Results from the impact evaluation of the data collected from the pilot trials
<b>Related Task/Deliverable</b>	T6.1; D6.1



<b>Description</b>	Reports and statistics
<b>Format</b>	Written format and pptx
<b>Expected time of publication</b>	M36
<b>Relevance for the project exploitation and IPR</b>	<b>Non-core knowledge</b> – The data and knowledge will be open to public
<b>Type of stakeholders addressed</b>	Health care authorities and policy makers; Health insurance companies; Health care professionals (GPs, Nurses, Specialists), Health and social care providers; Services and consultancy companies; industry; University and research centres; Others (Alliances, associations clusters, networks, etc.)
<b>Access policy</b>	<b>Golden open access</b>

<b>Knowledge/Data ID</b>	Results from the cost benefit analysis of the use of ehcoBUTLER solution in different health care systems existing in Europe
<b>Related Task/Deliverable</b>	T6.2; D6.2
<b>Description</b>	Reports and statistics
<b>Format</b>	Written format and pptx
<b>Expected time of publication</b>	M36
<b>Relevance for the project exploitation and IPR</b>	<b>Non-core knowledge</b> – The data and knowledge will be open to public
<b>Type of stakeholders addressed</b>	Health care authorities and policy makers; Health insurance companies; Health and social care providers; Services and consultancy companies; industry; University and research centres; Others (Alliances, associations clusters, networks, etc.)
<b>Access policy</b>	<b>Golden open access</b>

<b>Knowledge/Data ID</b>	Exploitation strategy, business model and related business plan
<b>Related Task/Deliverable</b>	T6.3; D6.3
<b>Description</b>	Reports, economic evaluation, logic model
<b>Format</b>	Written format, xlsx and pptx
<b>Expected time of publication</b>	M36
<b>Relevance for the project exploitation and IPR</b>	<b>Core knowledge</b> – The data and knowledge will be shared only among the consortium members (including Commission services).  Relevant stakeholders will access this knowledge and data on the bases of specific access policies as specified in Chapter 3
<b>Type of stakeholders addressed</b>	Only those that will be engaged in the exploitation activities
<b>Access policy</b>	<b>No open access</b>

<b>Knowledge/Data ID</b>	Catalogue of Services
<b>Related Task/Deliverable</b>	T7.3; D7.3
<b>Description</b>	Collection of any business and <a href="#">information technology</a> related to the services that can be performed by ehcoBUTLER solution
<b>Format</b>	Written format
<b>Expected time of publication</b>	M24
<b>Relevance for the project exploitation and IPR</b>	The Catalogue of Services will be open to the public
<b>Type of stakeholders addressed</b>	Stakeholders related to the exploitations purposes (as indicated in the Business plan).



<b>Access policy</b>	<b>Golden open access</b>
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### 3.1.6 Knowledge and data produced in WP7

Scope of this WP is to disseminate and communicate the project results to targeted stakeholders and to the public. Under these perspectives the relevant data and knowledge that will be collected during this WP are:

- Results from the dissemination and communication activities
- Results from the knowledge and data management activity.

Measurement metrics:

- Number of yearly publication in peer reviewed conferences (ISI listed)
- Number of yearly accepted articles for publications in ISI listed journals;
- Average number of participants to the events organized by the consortium
- Number of citations of *ehcoBUTLER* consortium publications
- Numbers of events organized by the consortium during the project lifetime.
- number of download from the Project website;
- the number of followers (and what kind of stakeholders they are) of social accounts; the number of access on data use registered form Project website.

<b>Knowledge/Data ID</b>	Results from the dissemination and communication activities
<b>Related Task/Deliverable</b>	T7.2; D7.2
<b>Description</b>	Dissemination material, feedbacks from the participants to the dissemination initiatives; statistics.
<b>Format</b>	Docx; pptx; csv; web contents
<b>Expected time of publication</b>	M12; M24; M36
<b>Relevance for the project exploitation and IPR</b>	<b>Non-core knowledge</b> – The data and knowledge will be open to public
<b>Type of stakeholders addressed</b>	All type of stakeholders identified in D7.1
<b>Access policy</b>	<b>Golden open access</b>

<b>Knowledge/Data ID</b>	Results from the knowledge and data management activity
<b>Related Task/Deliverable</b>	T7.3; D7.3
<b>Description</b>	Statistics and reports on organizations/individual accessing the knowledge repository.
<b>Format</b>	Docx, pptx, xlsx; csv
<b>Expected time of publication</b>	M6; M24; M36
<b>Relevance for the project exploitation and IPR</b>	<b>Non-core knowledge</b> – The data and knowledge will be open to public
<b>Type of stakeholders addressed</b>	All type of stakeholders identified in D7.1
<b>Access policy</b>	<b>Golden open access</b>

## 4 SPECIFICATIONS OF THE KNOWLEDGE AND DATA REPOSITORY

### 4.1 General overview

Knowledge and data produced during the project will be organized according to the OI model and to the access policies described in section 2.2.

In the case of data and knowledge that will be immediately made available to the public (Golden open access rule), the ehcoBUTLER web site and research networks will be the tools through which knowledge and data will be shared. In order to assess the open access policy strategy, in the ehcoBUTLER web site will be recorded and reported:

- number of accesses to the ehcoBUTLER web site;
- number of publications downloads.

For all data and knowledge with restricted open access and involving specific stakeholders on the basis of their previous registration and identification (Green open access rule), Knowledge and data produced during the project will be organized into a repository, containing all the Knowledge produced by the project activities. This Knowledge, as clarified in the Data Management Plan (D7.4), must be stored in a secure environment with control access and other security measures.

The main issues treated in this document are the relevant troubles caused during each phase in the Knowledge management. These issues also depend on the type of knowledge considered; for example, for sensitive data, security is a key issue. In contrast, for non-sensitive Data, verifying respect of IPR and copyright rules may be the primary issue.

Appropriate disciplinary actions, according to the Grant Agreement, will follow towards any breach, unauthorized use, disclosure, alteration, or destruction of project data, in violation of this policy.

### 4.2 Key functionalities specifications for the knowledge and data repository

In order to provide a secure environment where the Consortium partners could share data but also a restricted area for knowledge and data regulated by the Green open access rule, a tool named *Confluence* will be used. It is a software application written in Java, developed and marketed by Atlassian and mainly used in corporate environments. The access to the repository system must be applied sending an email ([coordinator@ehcobutler.eu](mailto:coordinator@ehcobutler.eu)) to the project Technical Office and must be approved by the project Leader. People or institutions obtaining the access to project Knowledge must comply with security and policy rules established by this document and any other project document. All results and materials, whether stored in the ehcoBUTLER repository or copied into other data systems, remain the property of the project as defined into the Grant Agreement.

Using Confluence will allow to:

- Centralize the Knowledge and making it easier to find, reuse and update;
- Organize the project data and keeping information accessible depending on permission given to stakeholders (e.g. for Knowledge with Green open Policy);
- Share easily the project Knowledge allowing updating each file stored in Confluence, to receive feedback, getting information (e.g. meeting notes, policies, users' requirements, etc.), ask questions, and get answers and so on,
- Monitoring number of accesses for ehcoBUTLER data use.



## 5 HISTORY OF CHANGES

### 5.1 Version 1.00

Initial version

### 5.2 Version 1.01

Format revision

### 5.3 Version 1.02

Expanded information

### 5.4 Version 1.03

Format & Grammar Revision. Final version.

### 5.5 Version 1.03

Format & Grammar Revision.

### 5.6 Version 1.04

Format & Grammar Revision.

### 5.7 Version 1.05

Format & Grammar Revision.

### 5.8 Version 1.06

Format & Grammar Revision.

### 5.9 Version 1.07

Format & Grammar Revision.

### 5.10 Version 1.08

Format & Grammar Revision.