

WP1 -

DIGIT B1 - EP Pilot Project 645

D01.01: Initial Selection and Analysis of Projects to Screen as Part of Task 1

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D01.01 Initial selection and analysis of project to screen as part of Task 1

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Acronyms and abbreviations

oss	Open Source Software
os	Operating System
FOSSA	Free and open Source Software Auditing
WP	Work Package
EC	European Commission

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1. Introduction

1.1. Objective of this Document and Intended Audience

This document represents the deliverable 1 included within TASK-01: Analysis of software development methodologies used in the European Institutions.

The objectives of this document are:

- To provide a prioritised list of the most relevant projects in the European Commission and the European Parliament.
- To provide a selection of projects to be analysed in the following tasks, documenting the technical reasons for their selection.

This document is addressed to the DIGIT areas interested in the study of the software development methodologies, related practices and tools used in the European institutions (European Commission and European Parliament)

This approach suggests the application of a step by step method to ensure the gathering of information and the correct identification and selection of the most relevant projects

1.2. Document structure

This document consists of the following sections:

- Section 1: Introduction, which describes the objectives of this deliverable and the intended audience
- Section 2: **Methodological Approach**, which describes the steps to be followed in order to guide the identification and selection of the projects to be screened.
- Section 3: **Results** of the selection and analysis of projects (Documented project)

1.3. Key success factors

All the steps described in Section 2 - Methodological approach will ensure the fulfilment of the key success factors related to this deliverable:

- To have a complete stock of methodologies used both in European Institutions and in open source communities.
- The Best practices will include a variety of typologies: technical, organisational and about the governance and quality of open source software (e.g.: synchronisation with OSS; guidelines for

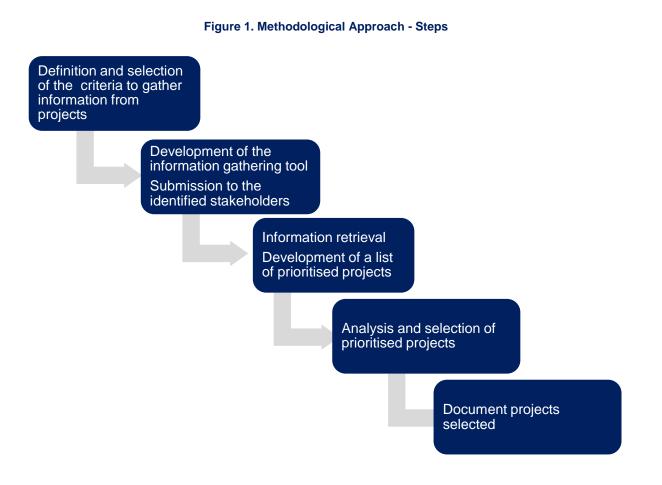
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security software development; secure integration and interoperability of different components; sustainable ways of OSS governance and professional services).

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2. Methodological Approach

In order to achieve the objectives defined in section 1.1, a methodological approach has been defined with five steps, as shown in Figure 1.



Each step is described in detail in the sections that follow.

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2.1. Definition and selection of the criteria to gather information from projects

In order to gather relevant information from the projects in the European Commission and the European Parliament, we defined the following criteria:

- 1. **ID**: Reference number
- 2. Project Name: Name of the project as it is recognised inside the EC or the EP.
- 3. Institution: European Commission or European Parliament.
- 4. Project Owner: Name of the project owner.
- 5. Project supplier: Refers to the name of the office(s) responsible for the project: DIGIT, OLAF, etc
- 6. **Contact email:** The email address of the person to contact for information gathering, interview planning, follow-ups, clarifications, etc. needs to be provided.
- 7. **Project Technology:** Refers to the main technologies used in the project: Java, PHP, Linux, database, server.
- 8. **Project Size:** One of the three options needs to be selected. The size of a project will be assessed as per the following criteria:
 - 1. Small project: A project that has less than 30 functional use cases.
 - 2. Medium project: A project that has more than 30 and less than 150 functional use cases.
 - 3. Large project: A project that has more than 150 functional use cases.
- 9. Target audience: Refers to the final user group: General public, Internal to the office, External, etc.
- **10. Software Criticality:** One of the three levels needs to be selected. The criticality will be assessed according to as per the following criteria:
 - 1. Supports mission or critical functions of the organisation that are time sensitive
 - 2. Supports non mission critical processes of the organisation
 - 3. Supports Administrative processes that could be done manually
- **11. Project Innovation:** Description of why the project is innovative. One of three levels will be selected after analysing the information provided by the project owner, according to the following criteria:
 - 1. The development is supported by the latest version of technology, it uses a continuous integration, supports a non-automated necessity, contributes to OSS communities, etc.
 - 2. A combination of 1 and 2, with fewer features
 - 3. The Project is an updated version of an existing application and technology is conditioned by existing version.
- 12. Interesting methodologies, best practices and tools used for development.: List any methodologies, best practices and tools used for software development.
- 13. Other Relevant information: Any information that could be of interest and/or add some value to the project and therefore will increase the likelihood of being selected, i.e. the project handles sensitive but unclassified information, or it uses software to communicate with third parties.

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2.2. Development of the information gathering tool and submission to the identified stakeholders

Following the criteria defined and agreed upon in step 2.1, the following activities were conducted:

- 1. We developed an Excel sheet, to gather information regarding the relevant projects that will be screened and will provide relevant software development methodologies, related practices and tools.
- 2. The Excel sheet content was used to create an automated survey with EU Survey, to be completed by the stakeholders
- 3. DIGIT shared the automated survey with the selected stakeholders.

2.3. Information retrieval and development of a list of prioritised projects

• Once the survey was filled out by each stakeholder, we consolidated all the information to facilitate the analysis to be conducted in step 2.4

This list includes projects from DIGIT B1, CITnet, vulnerability test centre, as well as other stakeholders with a thorough view of the project and its impact.

• We created the list of relevant projects using the criteria and their corresponding scoring as shown on Table 2-1.

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No.	Criteria	Priority				
1	Software Criticality	1	The project will support critical functions of the organisation that are time sensitive			
		2	The project will support non-critical processes of the organisation			
		3	The project will support administrative processes that could be done manually			
2	Project Size	1	Large: A project that has more than 150 functional use cases.			
		2	Medium : A project that has more than 30 and less than 150 functional use cases			
		3	Small: A project that has less than 30 functional uses cases.			
3	Target Audience	1	Public or External users, widely used			
		2	External users, limited use			
		3	Internal Users			
4	Project Innovation	1	The project has one these features:			
			1. It uses the latest version of technology			
			2. It uses Agile			
			3. It uses Continuous Integration			
			4. It contributes to OSS communities			
			5. It will support a non-automated necessity			
		2	A combination of 1 and 2, with fewer features			
		3	The project encompasses the maintenance of an existing application and the technology is conditioned by a previous version.			

Table 2-1 Project Criteria and Scoring

We gave each project a priority for each of the 4 parameters, depending on the information provided by the project owners. The parameters have the following priority:

- Software Criticality 1
- 2 Project Size
- Target Audience 3
- **Project Innovation** 4

Once the priority was assigned, we organised the data accordingly, resulting in a list of prioritised projects, as shown in Table 2.2

Table 2-2 List of prioritised projects
--

No.	Project name	Institution	Project owner	Project supplier	Project technology
1	Project 1	European Commission			Drupal - LAMP - Solr - Piwik - IDOL
2	Project 2	European Commission			JAVA, JEE, PrimeFaces (JSF), CEF PEPS, ECAS, EJBs
3	Project 3	European Commission			Java, Weblogic, LDAP
4	Project 4	European Parliament			ORACLE FORMS, ORACLE DB 11g, PL SQL, J2EE Tomcat, WebServices
5	Project 5	European Commission			JEE, Oracle, Weblogic, Kendo UI, jQuery
6	Project 6	European Commission			java, spring framework, JPA, Hibernate, Vaadin, maven, slf4j,
7	Project 7	European Commission			Oracle, ColdFusion (with fusebox for older parts), Angular JS
8	Project 8	European Commission			HP IDOL, Oracle 11 DB, Java
9	Project 9	European Commission			ColdFusion,oracle, digit data centre
10	Project 10	European Parliament			JAVA (J2EE) - TOMCAT - ORACLE 11g - HTML, CSS, JavaScript, Java Serverfaces, Spring, Hibernate
11	Project 11	European Commission			Java, Oracle, Vaadin
12	Project 12	European Commission			Documentum & xCP
13	Project 13	European Commission			LAMP/MySQL + Piwik
14	Project 14	European Commission			JEE
15	Project 15	European Commission			Alfresco, Java, ElasticSearch

No.	Project name	Institution	Project owner	Project supplier	Project technology
16	Project 16	European Commission			javascript (leaflet js,)
17	Project 17	European Commission			JAVA, Python, Bash, Apache, Tomcat, PostgreSQL, grails, maven, Nexus, Kibana, Icinga, Grafana, RunDeck, ElasticSearch/logstash, etc, etc
18	Project 18	European Commission			Drupal, PHP, JS
19	Project 19	European Commission			OS-Geonetwork, LAMP stack from DIGIT
20	Project 20	European Commission			J2EE, WebLogic (now on linux cluster), Oracle (now on linux cluster)
21	Project 21	European Parliament			J2EE, Java, Oracle, Tomcat, Spring MVC, Hibernate
22	Project 22	European Commission			ColdFusion, Oracle
23	Project 23	European Commission			Drupal frontend + Jira backend (LAMP stack)
24	Project 24	European Parliament			Java, Spring, Hibernate, Oracle, Solr

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2.4. Analysis and selection of prioritised projects

After the evaluation, we analysed and selected every project that fell into one of the case categories previously defined:

- Case 1: -> Software criticality =1
- Case 2:
 Software criticality =2 and Project Size = 1
- Case 3: → Software criticality =2 and Target audience = 1
- Case 4:
 Software criticality =2 and Project Innovation = 1
- Case 5: → Any combination that might seem relevant

The number of projects selected for each of the cases is as follows:

- Case 1: 5 projects
- Case 2: 2 projects
- Case 3: 2 projects
- Case 4: 2 projects
- Case 5: 4 projects (3 of them from the European Parliament)

Once we have applied the case criteria and the number of projects selected, a final list of 15 projects is developed. These projects are documented in Section 3

Table 2-2 List of prioritised projects

No.	Project name	Institution	Project owner	Project supplier	Project technology
1	Project 1	European Commission			Drupal - LAMP - Solr - Piwik - IDOL
2	Project 2	European Commission			JAVA, JEE, PrimeFaces (JSF), CEF PEPS, ECAS, EJBs
3	Project 3	European Commission			Java, Weblogic, LDAP
4	Project 4	European Parliament			ORACLE FORMS, ORACLE DB 11g, PL SQL, J2EE Tomcat, WebServices
5	Project 5	European Commission			JEE, Oracle, Weblogic, Kendo UI, jQuery
6	Project 6	European Commission			Documentum & xCP
7	Project 7	European Commission			LAMP/MySQL + Piwik

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No.	Project name	Institution	Project owner	Project supplier	Project technology
8	Project 8	European Commission			Alfresco, Java, ElasticSearch
9	Project 9	European Commission			javascript (leaflet js,)
10	Project 10	European Commission			JAVA, Python, Bash, Apache, Tomcat, PostgreSQL, grails, maven, Nexus, Kibana, Icinga, Grafana, RunDeck, ElasticSearch/logstash, etc, etc
11	Project 11	European Commission			Drupal, PHP, JS
12	Project 12	European Parliament			JAVA (J2EE) - TOMCAT - ORACLE 11g - HTML, CSS, JavaScript, Java Serverfaces, Spring, Hibernate
13	Project 13	European Parliament			J2EE, Java, Oracle, Tomcat, Spring MVC, Hibernate
14	Project 14	European Parliament			Java, Spring, Hibernate, Oracle, Solr
15	Project 15	European Commission			J2EE, WebLogic (now on linux cluster), Oracle (now on linux cluster)

The complete list of projects and their corresponding scores can be viewed by clicking on



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3. Results – Documented projects

All the information of the selected projects is documented in the following forms

Project ID: 1 Project	t Name	Project 1	Institution	European Commission		
Project Owner Name	Name 1	Name 1				
Email	email1@	lec.europa.eu				
Phone	Not Prov	vided				
Software Criticality	It supports mission critical functions of the organisation which are time- sensitive					
Project Size	Large: a	bove 150 use cases				
Project Supplier	Supplier	1				
Target Audience	General public					
Project Innovation	The project is contributing to the Drupal open source community. The project uses a combination of agile scrum and RUP and PM ² methodologies. The project uses fully the CITnet EC ALM instance of the Atlassian tools. The project uses cloud continuous integration . The project introduces behavioural driven testing (beehat). The project aims at a total new web presence for EUROPA merging 470+ websites into a user centric approach based upon 15 information classes supporting 70+ "user tasks".					
Interesting methodologies, best practices and tools used for						
Other relevant information	For integration of information between different Drupal instances and between the Drupal world and the different back-end information systems we do have a proof of concept using Couchdb.					

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Project ID: 2 Project	Name	Project 2	Institution	European Commission	
Project Owner Name	Name 2				
Email	email2@	e-novate.eu			
Phone	Not Prov	vided			
Software Criticality	It supports mission critical functions of the organisation which are time- sensitive				
Project Size	Large: above 150 use cases				
Project Supplier	Supplier 2				
Target Audience	Traders from European Union and will be expended to third countries				
Project Innovation	GIT / STASH / JIRA / TestLink repository / sonarCube / OWASP dependency checker / Jmeter / SoapUI				
Interesting methodologies, best practices and tools used for					
Other relevant information	Based o	n CEF and ECAS projects (extended & c	ustomised)	

Project ID:	3	Project	Name	Project 3	Institution	European Commission		
Project Own	er Name		Name 3	Name 3				
Email			email3@	ec.europa.eu				
Phone			Not Provided					
Software Crit	ticality		It supports mission critical functions of the organisation which are time- sensitive					
Project Size			Large: above 150 use cases					
Project Supp	olier		Supplier 3					
Target Audie	ence		General public + staff of European institutions and bodies					
Project Innov	vation		The priority of the project is security, which often implies being conservative rather than being innovative.					
Interesting best praction used for			Standard techniques are implemented: code review, occasional vulnerability assessment and penetration testing. Using libraries and frameworks is avoided as much as possible.					
Other releva	nt informa	ation	The system handles personal data and holds security elements.					

Project ID: 4 Project	Name Proje	ect 4	Institution	European Parliament	
Project Owner Name	Name 4				
Email	email5@ep.europa.eu				
Phone	Not Provided				
Software Criticality	It supports mission critical functions of the organisation which are time- sensitive				
Project Size	Large: above 150 use cases				
Project Supplier	Supplier 4				
Target Audience	All financial actors of the EP (+-600 users)				
Project Innovation	Adoption of the electronic signature for PDF files + integration with corporate platform for electronic signatures (DISP)				
Interesting methodologies, best practices and tools used for	Even though it is old application (20+ years old) using old technology, we managed to create modern WEB front end and web services to support functionalities that are not supported by the technology that the application is built with. We have added electronic signature and web based file storage (internal cloud)				
Other relevant information					

Project ID:	5	Project	Name	Project 5	Institution	European Commission	
Project Own	er Name		Name 5				
Email			email5@	ec.europa.eu			
Phone			Not Provided				
Software Cri	ticality		It supports mission critical functions of the organisation which are time- sensitive				
Project Size			Large: above 150 use cases				
Project Supp	lier		Supplier 5				
Target Audie	nce		Internal project				
Project Innov	vation		Web-based drafting of legislative texts (XML-based, OSS EUPL licence publication)				
Interesting best praction used for			, i i i i i i i i i i i i i i i i i i i				
Other releva	nt informa	ation	Rationalization project: Business re-engineering, IT tool absorption and integration Handling of sensitive info, Communication with 3rd parties (other EU Institutions, national Parliaments, Publications Office)				

Project ID: 6 Project	Name	Project 6	Institution	European Commission	
Project Owner Name	Name 6				
Email	email6@ec.europa.eu				
Phone	Not Provided				
Software Criticality	It suppo	It supports non-mission critical functions of the organisation			
Project Size	Large: above 150 use cases				
Project Supplier	Supplier 6				
Target Audience	OLAF				
Project Innovation	With this	s project, eSignature replace	es paper in the	e DG	
Interesting methodologies, best practices and tools used for					
Other relevant information	Security (confidentiality) is an important aspect of this project				

Project ID: 7 Project	t Name	Project 7	Institution	European Commission		
Project Owner Name	Name 7					
Email	email7@ec.europa.eu					
Phone						
Software Criticality	It suppo	It supports non-mission critical functions of the organisation				
Project Size	Large: above 150 use cases					
Project Supplier	Supplier	Supplier 7				
Target Audience	internal	internal project - web analytics tool				
Project Innovation	N/A - beside being a rational choice regarding the TCO+ROI+UX, it is also a direct support to EU innovation - part of the internal strategy of FOSS support by fostering the replacement of proprietary SW					
Interesting methodologies, best practices and tools used for	holacrac	зу				
Other relevant information	Not Provided					

Project ID: 8 Projec	t Name	Project 8	Institution	European Commission		
Project Owner Name	Name 8	Name 8				
Email	email8@	email8@ec.europa.eu				
Phone	Not Provided					
Software Criticality	It suppo	It supports non-mission critical functions of the organisation				
Project Size	Small: less than 30 use cases					
Project Supplier	Supplier 8					
Target Audience	General public					
Project Innovation	The proj	ect is managed following Ag	jile/Scrum me	thods.		
Interesting methodologies, best practices and tools used for						
Other relevant information	Not Prov	vided				

Project ID: 9 Project	Name	Project 9	Institution	European Commission		
Project Owner Name	Name 9					
Email	email9@	email9@ec.europa.eu				
Phone	Not Provided					
Software Criticality	It supports non-mission critical functions of the organisation					
Project Size	Small: less than 30 use cases					
Project Supplier	Supplier 9					
Target Audience	General public					
Project Innovation	Moving from an Flash based application to a mobile ready - responsive design, JIRA, SVN,					
Interesting methodologies, best practices and tools used for		vices, agreement with developments on an				
Other relevant information	http://ec.europa.eu/eurostat/statistical-atlas/gis/viewer/					

Project ID: 10 Projec	Name	Project 10	Institution	European Commission		
Project Owner Name	Name 1	Name 10				
Email	email10@ec.europa.eu					
Phone	Not Provided					
Software Criticality	It supports non-mission critical functions of the organisation					
Project Size	Small: less than 30 use cases					
Project Supplier	Supplier 10					
Target Audience	IT professionals					
Project Innovation	Collaboration/contribution to OSS projects (Nexus, Apache HTTPD and Open Fire) to integrate their authentication module to Crowd.					
Interesting methodologies, best practices and tools used for						
Other relevant information	Not Provided					

Project ID: 11 Projec	t Name	Project 11	Institution	European Commission		
Project Owner Name	Name 1	Name 11				
Email	email11	email11@ec.europa.eu				
Phone	Not Prov	Not Provided				
Software Criticality	It suppo	It supports non-mission critical functions of the organisation				
Project Size	Small: less than 30 use cases					
Project Supplier	Supplier	Supplier 11				
Target Audience	Limited external project					
Project Innovation	Agile, GIT, Continuous Integration					
Interesting methodologies, best practices and tools used for	JIRA an	d Confluence				
Other relevant information	Not Prov	vided				

Project ID:	12	Project	t Name	Project 12	Institution	European Parliament	
Project Own	er Name		Name 12	2			
Email			email12	@ep.europa.eu			
Phone			Not Prov	vided			
Software Crit	ticality		It supports mission critical functions of the organisation which are time- sensitive				
Project Size			Medium: between 31 and 150 use cases				
Project Supp	lier		Supplier 12				
Target Audie	ence		Internal project				
Project Innov	vation		Project software	was made in 2007 - the	technology	is not high-innovative	
Interesting best praction used for							
Other relevan	nt informa	ation	We will soon cut the application in two (separation of the module dedicated to the DG PRES users into a specific application. The new application PETI-Greffe will be the bridge between ePetition2 and the PETI-portal)				

Project ID: 13	Project	Name	Project 13	Institution	European Parliament	
Project Owner Name		Name 13				
Email		email13	@europarl.europa.eu			
Phone		Not Prov	vided			
Software Criticality		It suppo	rts administrative proces	ses which could	be done manually	
Project Size		Medium: between 31 and 150 use cases				
Project Supplier		Supplier 13				
Target Audience		European Parliament Members and their Assistants + Gestionnaire DGFINS				
Project Innovation		AGILE, JIRA, Jenkins, maven, Selenium, DISP (digital signature), Token authentication				
Interesting methodo best practices and used for		AGILE, Pocker Planning				
Other relevant information	ation	Management of the members (deputes europeens) data and forms				

Project ID: 14 Projec	t Name	Project 14	Institution	European Parliament		
Project Owner Name	Name 1	Name 14				
Email	email t1	email t14@europarl.europa.eu				
Phone	Not Prov	Not Provided				
Software Criticality	It suppo	It supports administrative processes which could be done manually				
Project Size	Small: less than 30 use cases					
Project Supplier	Supplier 14					
Target Audience	Internal					
Project Innovation	Continue	ous integration				
Interesting methodologies, best practices and tools used for	-					
Other relevant information	Not Prov	vided				

Project ID: 15 Proj	ject Name	Project 15	Institution	European Commission	
Project Owner Name	Name 1	Name 15			
Email	email15	email15@ec.europa.eu			
Phone	Not Prov	Not Provided			
Software Criticality	It suppo	It supports administrative processes which could be done manually			
Project Size	Large: above 150 use cases				
Project Supplier	Supplier	Supplier 15			
Target Audience	Inter-ins	Inter-institutional project			
Project Innovation	various for Ulyse support technolo Typescr	It contains a very advanced actor model (who decides what based on various parameters) and data versioning system. It was also the base for Ulysees. We use RTC/jazz for code repository and tracking, JIRA for support (ideally we would use JIRA for both). The part which is more technologically up to date is the new client-sided stack, where we use Typescript, bootstrap, some parts of jscaf and jawr (for bundling), but the mix is still not ideal.			
Interesting methodologie best practices and too used for	ls agile m	Project mode (waterfall+prototyping, not PM ²) for new developments, agile methodology for evolutive maintenance (different methods per sub-team). Nothing noteworthy about the tools (they're actually quite dated)			
Other relevant information	front of Commu syncing services	Most interestingly, the fact that we are multi-client pushes us in the fore- front of inter-institutional collaboration (which HR is slowing down). Communication with third parties is done mostly through database syncing (mostly Comref and NAP) and secondarily through SOAP services. Some first elements of RESTful principles will be used for developments in 2016.			

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4. Bibliographical references

Bibliographical	references detail
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