



OpenBudgets.eu: Fighting Corruption with Fiscal Transparency

Project Number: 645833

Start Date of Project: 01.05.2015

Duration: 30 months

Deliverable D9.2

Second Intermediate Project Report

Dissemination Level	Confidential
Due Date of Deliverable	Month 21
Actual Submission Date	16.02.2017
Work Package	WP9, Project Management
Task	T 9.1
Type	Report
Approval Status	Approved
Version	0.6
Number of Pages	41
Filename	D9.2_ Second Intermediate Project Report

Abstract: This document documents packaging and signing features for visualisations in the OpenBudgets.eu platform.

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History

Version	Date	Reason	Revised by
0.1	10.11.2016	First Draft	Alexandra Garatzogianni
0.2	20.11.2016	Contributions from partners	Partners
0.3	20.01.2017	1 st Complete Version, Ready for review	Alexandra Garatzogianni
0.4	29.01.2017	Review – comments added	Fabrizio Orlandi
1.0	20.02.2017	Final Version	Tiansi Dong

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Executive Summary

The Deliverable D9.2, with the title “Second Intermediate Project Report”, is released within the context of Work Package 9 “Project Management” and is in particular associated with T9.1, “Project Coordination and Management”, and with T9.2, “Quality Assurance”. The aim in this case is to serve the project’s objectives as defined in the Grant Agreement, while ensuring transparency in Project Reporting by deriving relevant feedback from the established appropriate report structures and procedures within the environment of this project.

Furthermore this Intermediate Project Report has the objective to ensure that the project goals and milestones are realized within the set time and budget and quality standards, contributing thus to achieving financial transparency at a European and global level.

Project management is also concerned with the coordination of the project from an administrative perspective. In terms of this project, these administrative activities include communicating with the European Commission, managing funds and establishing the best possible practices to be used within the project between the partners. In this context, this deliverable aims to evaluate the management tools and procedures used up to now and their effect on ensuring the successful delivery of the project’s results and their transparency. By establishing pertinent reporting structures and common procedures, by monitoring and managing the allocated funds, it is ensured that the project will remain within the defined scope and schedule and deliver successful results.

Abbreviations and Acronyms

OBEU	Open Budgets.eu
SAB	Stakeholder Advisory Board

Second Intermediate Project Report

PART B

Grant Agreement No.: 645833

Project Acronym: OpenBudgets.eu

Project Title: Financial Transparency Platform for the Public Sector

Funding Scheme: Innovation Action (IA)

Periodic Report: Second Intermediate Project Report

Period Covered: from M12 to M21
(01/05/2016 - 31/01/2017)

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Date of Preparation: 20/02/2017

Version: 1.0

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1 Explanation of the Work Carried out by the Beneficiaries and Overview of the Progress

Taking the Annex 1 into consideration, the work per WP has progressed as indicated in the Grant Agreement. Following and building upon the results of the first two years of the project, which are reported in the submitted deliverables, the following tables have been added with the aim to provide a clear and concise view of the work that is completed during the defined reporting period for this deliverable, i.e. from M12 to M21 (01/05/2016 - 31/01/2017).

1.2 Explanation of the Work Implemented per Work Package

Work Package No.	WP 1	Plan-Start:	M1	Plan-End:	M18
Lead Participant	UEP	Actual-Start:	M1	Actual-End:	M18
Work Package Title	Data Structure Definition for Budgets and Public Spending				
Participant Involved	UEP, OKFGR, IAIS				
Work Package Summary of Progress Towards Objectives					
<p>Since the last technical report from June 2016, feedback from work in WP2 and WP3 involving the data model introduced in D1.2, D1.3 and D1.4 was gathered and incorporated into the data model and its documentation, which formed the final deliverable, D1.5, submitted in October 2016.</p>					
Task 1.1					
<p>In Task 1.1., UEP was gathering data model feedback from tasks carried out in WP2 - data transformation and data mining, and WP3 - data visualization. The data model was adjusted and its documentation extended, both were submitted as deliverable D1.5 in October 2016.</p> <p>The objectives of this task and the whole work package were achieved with no delays.</p>					

Task 1.2
Task 1.2 was finished already in the previous reporting period.
Task 1.3
Task 1.3 was finished already in the previous reporting period.

Table 1: WP 1

Work No.	Package	WP 2	Plan-Start:	M4	Plan-End:	M24
Lead Participant		UBONN	Actual-Start:	M4	Actual-End:	M24
Work Title	Package	Data Collection and Mining				
Participant Involved		UBONN, Fraunhofer, UEP, OKFGR, OKI				

Work Package Summary of Progress Towards Objectives

Based on Deliverable 2.3 and actual datasets, we developed a highly modularized, decentralized, and easy extendable systems for financial data analysis and processing within the OBEU project. Following data-mining techniques are developed: rule/pattern mining, clustering, similarity learning, outlier/anomaly detection, descriptive statistics, comparative analysis, time series analysis and prediction. Difficulties for data analysis across countries are analysed.

Task 2.1 Semantic Lifting of Heterogeneous Financial Data (M4-10)

Task has been finished in the previous reporting period.

Task 2.2 Data Optimisation, Link Discovery and Pre-Processing (M6-12)

Part of the task has been finished in the previous reporting period. Pre-processing for data-mining continues, as new data-mining techniques have been developed. Inter-linking of code-list in different EU languages is carried out as a research topic, using NLP tools and up-to-date machine learning techniques.

Task 2.3 Analytics & Data Mining (M6-20)

Based on Deliverable 2.3, and actual datasets, we developed a highly modularized, de-centralized, and easy extendable systems for financial data analysis and processing within the OBEU project.

Six data-mining packages are developed: (1) descriptive statistics, (2) time series analysis and prediction, (3) comparative analysis, (4) rule/pattern mining, (5) clustering and similarity learning, and (6) outlier/anomaly detection. These 6 packages cover 17 needs appears in D2.3. Open-source libraries, such as R, Java, and Python data-mining libs, are used. In case no existing lib available, we searched up-to-date scientific publications, developed data-mining packages, and make them public accessible.

Among totally 37 needs in D2.3, 15 needs do not be accompanied with datasets, therefore ignored, as reported in D5.3. For example, the Need 14 (Identify both good and bad examples of financial management) can be covered in the task Rule and pattern mining or Outlier/anomaly detection, However, it has been found out that labeled training data is hard to obtain. Two needs are addressed elsewhere, one (N16) is partially covered.

For the 8 needs collected from D4.2, 7 among them (87.5%) are covered, the left one is addressed in the pre-processing stage of the data-mining task. For the 5 needs from D5.1, 2 among them (40%) is covered, one (N9) is addressed at the data-mining interface, two of them are ignored. For the 10 needs from D6.2, 7 among them (70%) are covered, one are partially covered, two are ignored. For the 2 needs from D7.1, 1 among them (50%) is covered, the other is ignored. For the 11 needs from D8.3, 2 are under research, the rest (81.82%) are ignored.

Some needs demand hard and time-consuming manual work to search and investigate datasets and related datasets. For example, Need 24 (Identifying fishy relations and red flags using network analysis) requires networking analysis, which needs interlinking of two codelists. However, interlinking is not trivial, codelists can be explained in different

languages, budgets can be calculated in different accounting systems. A research on inter-linking is being carried out.

Task 2.4 Data Mining Interfaces (M12-24)

This task is currently under development.

Table 2: WP 2

Work No.	Package	WP 3	Plan-Start:	M2	Plan-End:	M20
Lead Participant		OKFGR	Actual-Start:	M2	Actual-End:	M20
Work Title	Package	Budget and Spending Data Visualisation and Exploration				
Participants Involved	OKFGR, J++, OKI, UEP, UBONN					
Work Package Summary of Progress Towards Objectives						
<p>Since the last report, the OpenSpending Viewer was developed to be the core of the OpenBudgets.eu platform. Social network sharing features were also added. Two additional applications were developed, indigo and sealer, in order to enable users utilize the data mining services and support irrefutable data and visualization verification for downloaded packages. A report demonstrated how the types of visualisations of the visualisation framework enable users to communicate budget and spending data, as originally required according to user feedback.</p>						
Task 3.1: Collect visualisation use-cases						
<p>Task has already finished in the previous reporting period.</p>						
Task 3.2: Develop a visualisation creation framework						

OpenSpending was further developed to accommodate OpenBudgets.eu requirements coming from the rest of the tasks. The rudolf middleware was intensively maintained and optimized to serve fairly complex drill down queries in acceptable time, using the SPARQL endpoint.

Task 3.3: Build comparative analysis presentation tools

In this Task, demonstration visualizations were built for fiscal indicators of two municipalities. A new app, [indigo](#), was developed as the presentation layer of the data analysis and mining services of OpenBudgets.eu.

Task 3.4: Develop data & visualisations packaging app

The [sealer](#) application was developed to enable users download a packaged and signed version of any OpenSpending visualization

Task 3.5: Develop demonstration visualisations

The visualizations provided by OpenSpending were validated against the requirements collected in Task 3.1, in terms of usability and completeness

Task 3.6: Organise a social network around the results

Social network features were developed in the visualizations framework in order to allow end users share a properly formatted visualization to social networks and administrators to track and analyse visualizations and datasets usage with common tools.

Table 3: WP 3

Work No.	Package	WP 4	Plan-Start:	M1	Plan-End:	M24
Lead Participant		Fraunhofer	Actual-Start:	M1	Actual-End:	M24
Work Title	Package	OpenBudgets.eu Requirements, Platform Architecture Integration and Development				
Participant Involved	Fraunhofer, UBonn, OKFGR, OKFI					

Work Package Summary of Progress Towards Objectives

This WP is responsible for the integration and development of the OpenBudgets.eu portal. More specifically, the objectives are:

- To define the conceptual architecture and design specification of the OpenBudgets Framework following data security and privacy-by-design standards;
- To integrate the data mining, comparative analysis, data visualisation, data exploration, and feedback services into the integrated OpenBudgets.eu platform;
- To define and run a set of test cases against which the integrated OpenBudgets.eu platform will be technically evaluated;
- To assure that both the software development and the integration process retain a high quality standard throughout.

This work package aims to develop the OpenBudgets.eu (OBEU) Framework and Portal, which enables stakeholders to participate in making public data more transparent and usable. OBEU, so far, has followed a decentralised approach to the development of its functional modules, thus the individual services have been developed separately in their respective work packages. This work package focused on the conceptual architecture and specifications for the integration of the Data Mining and Comparative Analysis service (WP2), the Data Visualisation and Exploration service (WP3), and the Feedback service (WP7). These services have been integrated as part of the effort in this work package.

More specifically, a first version of the OBEU platform has been developed. It includes an import and export service that allows stakeholders to upload their data onto the OBEU portal, as well as downloading existing data from the portal onto their system. The platform also enables stakeholders to convert data to RDF format. A SPARQL endpoint currently allows stakeholders to query the open financial datasets. The results of such queries can then be further used within the services provided by OBEU. The architectural specification of the OBEU Framework describes in detail the integration logic as well as the integration interfaces between the OpenBudgets services. The OBEU portal is currently undergoing system testing after individual tests for each individual component. Further tests will be performed with the large scale trials.

Task 4.1 - Framework infrastructure

This task started in the first year already with an analysis of the required functionality of OpenBudgets.eu for acquiring, transforming, storing, viewing, analysing, sharing and publishing of data.

The architecture and information interchange between these services has been specified. A first prototype of the integrated platform has been developed. Additional information will be collected in the upcoming months through the large scale trials. A SPARQL endpoint that allows querying of data from external sources has been deployed.

A microsite that allows municipalities to integrate and personalise OBEU's functionalities directly on their websites has been developed.

Task 4.2 - Platform Integration

The components of visualisation, data loading/transformation and data mining have been integrated. A first prototype of the integrated platform has been developed. A SPARQL endpoint that allows querying of data from external sources has been deployed. A microsite that allows municipalities to integrate and personalise OBEU's functionalities directly on their websites has been developed.

Deliverable D4.3 "Integrated OpenBudgets.eu Platform – Working prototype" has been submitted. Additional information for testing the functionalities of the platform will be collected in the upcoming months through the large scale trials.

Task 4.3 - Platform Testing

The integrated platform is currently being system tested in this work package in order to verify the functionality and performance of the integrated OpenBudgets.eu system. This task also includes leading out a technical and usability evaluation on the system with the aim of ensuring the OpenBudgets.eu platform delivers the promised functionalities and tools and is easy to use for all targeted stakeholders.

Further testing will be performed in the upcoming months with the large scale trials.

Table 4: WP 4

Work No.	Package	WP 5	Plan-Start:	M1	Plan-End:	M24
Lead Participant		J++	Actual-Start:	M2	Actual-End:	M24
Work Title	Package	Test beds and Evaluation - Journalism				
Participant Involved		J++, OKF, OKFDE, UEP, OKFGR, CIVIO				
Work Package Summary of Progress Towards Objectives						
<p>The completion of T5.1 let us see clearly what were the main drivers behind finding stories in budget data and how to communicate them. These findings let us refocus our work on T5.2 and T5.3 to better achieve the objectives set out in the DoW.</p>						
Task 5.1						
<p>The gap analysis was completed in December 2016 as laid out in D5.3. After having carried out dozens of interviews, analyzed hundreds of examples of analysis of budget data and running a controlled experiment, we derived several key insights regarding how budget data could and could not be used to produce journalistic content and how the findings thereof could be shared with a lay audience.</p>						
Task 5.2						
<p>The workshops and tutorials continued apace, notably with the release of a set of tutorials for journalists on how to investigate budgets and misappropriations therein. The tutorials were covered in specialist journalistic publications and in the national press of one member state.</p>						
Task 5.3						
<p>The work of T5.1 let us appreciate much better the requirements of any tools that we build and let us realize what were the limitations of the tools that were already developed. The major findings forced us to pause development of some tools and switch focus to more educational tools, linked to T5.2.</p>						

Table 5: WP 5

Work Package No.	WP 6	Plan-Start:	M1	Plan-End:	M24
Lead Participant	TI EU	Actual-Start:	M3	Actual-End:	M27
Work Package Title	Test Beds and Evaluation - Transparency				
Participant Involved	TI EU, OKFDE, UEP, OKFGR				
Work Package Summary of Progress Towards Objectives					
<p>The goal of Work Package 6 (WP6) is to create an ‘advocacy test bed’ of EU policy makers and to feedback their input into the development of OpenBudgets.eu. The three main objectives are to first, determine the budget and spending needs EU policy makers, with a focus on Members of the European Parliament (MEPs) who sit on the European Parliament’s committee on Budgets (BUDG) and the Budgetary Control committee (CONT). Second, ascertain the quality of data available to policy makers, with special emphasis on structural fund data. Third, to understand and articulate the political, legislative, and administrative obstacles of EU budget information being available in open source format.</p> <p>Task one of WP6, the needs assessment of EU Parliamentarians, and the corresponding deliverables have been concluded. Datasets published by Member States and the European Commission, in the previous and new funding periods, have been identified and assessed and the index and report on structural and cohesion funds data are currently being drafted. Based on EU parliamentarian feedback and independent research, several key legal, political, and administrative loopholes in EU budget and spending transparency were identified. In addition to serving as a basis for the final report, these findings are being used as the foundation of targeted advocacy work for introducing increased transparency, accountability, and open data usage for EU public spending by the institutions and Member States.</p> <p>TI EU is the lead in WP6 and but has also engaged in joint work with OKFDE, lead of WP 8, in dissemination activities that have included seminar and workshop speaking engagements, blogs, and joint social and traditional media actions (D6.4).</p>					
Task 6.1 Needs Assessment of EU Parliamentarians					

Task 6.1 has been concluded. The needs assessment of EU parliamentary members of the two target committees, the Budget and Budgetary Control committees, was established through a series of bi-lateral meetings and questionnaire (D6.1) results from MEPs. The results were tabulated into a report (D6.2).

In addition to the central themes of the questionnaire's findings below, the bi-lateral meetings illuminated 2 key concerns on EU spending transparency and accountability. The first centred on how structural and cohesion funds were being managed by Member States. The second focussed on the spending and management of EU funds by the EU institutions. There was particular interest of corruption-risks in MEP expenses and political group and party finances.

Some of the key results of the needs assessment were:

- All respondents demonstrated a clear need for raw budget/spending data to be processed through corresponding sources.
- Most policy makers focus on systematic problems of EU financial management and are unconcerned with specific budget and expenditure details.
- MEPs found performance and error rate indicators the most important in carrying out their policy making functions.
- MEPs demonstrated a high and balanced interest in all EU funds and budget headings.
- A clear majority of survey respondents preferred having budget and spending data displayed geographically and by sector.

The results of the survey were disseminated to relevant project partners, key targets in the Parliament, as well as circulated publically through a blog and accompanying social media activities. These results have also served as focus areas of Task 3.

Task 6.2 Quality Index of EU Structural Funds Data

This task involves identifying and creating a quality index (D6.3) of structural funds data sets of 14 Member States in order to assess, at a minimum, whether they conform to new regulatory transparency and publications provisions in the Common Provisions Regulation. This will help supply the requisite evidence-based research for the data quality report (D6.6)

Despite significant delays in the publication of this data, given difficult negotiations between the Commission and certain Member States, all central websites of managing authorities and datasets were identified and collected in 2016. In parallel, we began liaising with DG Regional and Urban Policy's open portal unit. Outreach activities and introduction of the project's inclusion of structural and cohesion fund data also incorporated other key stakeholders. These included, but were not limited to, members of the EU Committee of Regions, members and staff of the Parliament's Regional Development Committee, and other civil society organisations (e.g. Frank Bold).

Drafting of D6.3 and D6.6 was begun in 2016 and has progressed significantly, with publication of both expected in M22.

Task 6.3 Legal Loopholes and Legislative Change

This task aims to analyse any shortcomings in quality and comprehensiveness of major EU budget and spending data. Findings from this analysis will be expected to highlight potential EU legal and legislative opportunities for increasing EU budget and spending transparency, accountability and openness.

As previously mentioned, legislative and administrative shortcomings were initially identified within the context of Task 1. Two themes in particular have served as a basis for continued advocacy work. First, EU policy makers often found that the spending data they sought were available to them, though, not in open source format. Through targeted advocacy in 2016, our recommendations were adopted by the Parliament's report on 2017 budget estimates to create a single website/portal on the Parliament's website. The Parliament's secretariat has confirmed in January that based upon this report's request Parliamentary services have begun technical planning and development of the website.

Second, risk factors concerning both the levels of transparency and accountability on how MEPs themselves spent EU funds were extensive. Advocacy efforts on this focused on the Parliament and included supplemental activities that included a series of freedom of information request and appeals. In 2016 a parliament report was adopted that called for full transparency and auditing of the general expenditure allowance. Continued efforts are being carried out to ensure that recommendation is implemented.

Additional stakeholders were also identified and approached on these issues and included members of the European Court of Auditors, investigative journalists from 28 Member States, other Transparency International chapters, and private sector actors (e.g. auditors from PwC and the Institute of Chartered Accountants in England and Wales).

Work on Task 3 will continue in the forthcoming months.

Table 6: WP 6

Work No.	Package	WP 7	Plan-Start:	M8	Plan-End:	M30
Lead Participant		Fundación Civio	Actual-Start:	M8	Actual-End:	M30
Work Title	Package	Test Beds and Evaluation – Participatory Budget				
Participant Involved		Civio, OKFDE, IAIS, UBONN, OKFGR				
Work Package Summary of Progress Towards Objectives						
<p>Along M12-M21, work package 7 has focused around four main tasks. Tasks one, has focused on assess the specific needs of the stakeholders regarding the implementation of digital participatory processes in their jurisdictions, combining polls and surveys within three different levels of stakeholders, administrators, experts and CSO's and users. Second task has developed 1) a tool where citizens can express their budget allocation priorities during the budget approval process, along the lines and within the process defined by each administration concerned, 2) a tool where citizens can monitor budget transactions, auditing budget compromised vs. actual spending and giving feedback to the administrations and 3), tutorials and guides on educational resources for citizens, providing online materials to understand i.e. the budget cycle, terms used or how to influence and monitor the budget.</p> <p>The third task of this WP has selected three pilot municipalities in Spain. After a thorough search of the best candidates to implement the Participatory Budgeting Platform MVP, we have been in contact with three municipalities, Portugalete, Torrelodones and Alhama de Murcia, in Spain, to learn more about the specific needs regarding the implementation of the platform in each of them. To date, there is still need to work towards M24 for closing the implementation on each of these three municipalities.</p>						

From M18 to M21, task 7.4 has been developed, defining the framework for the different actors concurring to the large scale trials and coordinating the selection of the candidates along with the partners.

Task 7.1 Need assessment and gap analysis (Task Lead: CIVIO, Contributors OKFDE) – M8-10

Deliverable D7.1.1 is the result of an intense series of face to face interviews to current and future stakeholders combined with papers addressing the issue and questionnaires worldwide. We have gathered cities that are already using the participatory budgeting (Mexico D.F., Chicago, [Paris](#), Madrid or Torrelodones, among others), we have also met with experts (Ms. Hollie Russon Gilman, Mr. Alan Hudson, Mr. Matt Haikin, Mr. Tiago Peixoto, Mr. Pedro Pietro-Marín, Mr. Nathaniel Heller, Mr. David Sasaki among others) that have collaborated with their expertise in the field of participatory budgeting. In the final phase we have designed a multilingual poll for end users, in order to get a broad perspective of what kind of platforms users are waiting to interact with.

We have identified, analysed, described and compared 5 already running platforms and more than 10 to be developed participatory budgeting platforms. We have identified several improvements such as PB platform visualisations, easiness of use, clear educative materials added to each PB platform and an increase on filtering capacity.

The surveys conducted helped us improve the design and implementation of a participatory budgeting platform targeting the needs of citizens and administrations. The results are further detailed in the project [Assessment Report](#).

The work delivered in task 7.1 has served us to better design, program and implement a participatory budgeting platform with the characteristics needed by most of the current and future users and administrators of these platforms.

Task 7.2 Development of the platform/tools (Task Lead: CIVIO, Contributors: UBONN) – M10- 16

Guided by the understanding of stakeholders' needs obtained in task 7.1, this WP aimed to create open source web application tools to allocate and to monitor municipal budgets, and also learning materials related to this tools.

The web applications have the following features:

An user-friendly consultation builder, allowing public bodies to define a new consultation through the use of visual wizards.

Online publishing of an interactive budget consultation form, as defined by the public body, where users can submit their budget preferences, suggestions and comments.

Gathering and consolidation of citizens' responses, for further analysis and study by the public authority.

Allow citizens to publish their feedback and/or proposed budget on their favourite social network, thus making it also visible to their network of peers. After the budget has been approved, citizens need to be able to monitor its execution, and to provide feedback to the public administrations, either as comments or as a set of recommendations for the next budget period (e.g. NGO's could give feedback on what should the budget focus on for such organisations).

This WP has also developed D7.4, which includes three sections, an investigation to map best practices for conveying the use of participatory budgeting instruments by examining a number of concrete examples taken from existing implementations. Second, a tutorial for the tool D.7.2 for influencing budget allocation and the tool D.7.3 tool for monitoring budget execution. Third an outline of future tutorial making plans, to be finished by the final development of all the tools gathered in the platform.

Task 7.3 Implementation and Dissemination (Task Lead: CIVIO, Contributors OKFDE, UBONN) – M16-24

After the summer, we have focused our efforts on explaining stakeholders why budget knowledge and analysis are so important for a stronger democracy. Civio imparted a [workshop](#) on political parties funding for journalists, held at Madrid Press Association, helping them to understand budgets and sharing our experiences on handling budget data to find relevant stories.

In early November, we launched a first pilot version of our [participatory budgeting tool](#), as part of the Openbudgets.eu [platform](#), which includes a number of fiscal transparency tools for journalists and civil society. Since then, we're working on setting up participatory budgeting pilots in three Spanish municipalities, Torrelodones, Portugalete and Alhama de Murcia, chosen because of their different experiences towards participation. These pilots will be launched at the end of April 2017.

Task 7.4 Large-scale trials (Task Lead: IAIS, Contributors: OKFDE, CIVIO) – M18-30

The process of the planning and the implementation of the large scale trials is managed by Fraunhofer. Given that the total amount that can be allocated for the implementation of the large scale trials exceeds certain internal limits, Fraunhofer IAIS collaborated and continues to collaborate very closely with the Heads of the Procurement and the Legal Departments, not only in Fraunhofer IAIS but also with the respective Department Heads in the Fraunhofer Headquarters in Munich.

Thus the call for the launch of the large scale trials was launched on time and it was supported from the OBEU Consortium, which organised a plethora of dissemination and communication activities, also in this respect, which are presented in the submitted deliverable with the title: “D7.6 Call for large-scale Trials”. Due to internal Fraunhofer administrative regulations, this process is led by the Headquarters in Munich, who shared the applications of the interested candidates with the Consortium.

Once upon receipt of these applications, the Consortium unanimously voted to implement the trials selecting three candidates. The Headquarters in Munich are updated as per this item and lead the subsequent administrative procedures accordingly. According to the request of Fraunhofer IAIS, on behalf of the consortium, the trials should be officially initiated at the 1st of March with the three selected candidates.

At moment, the Fraunhofer Headquarters in Munich are managing the contractual linkages with the three selected candidates. Upon signature of the final versions of the contracts with the selected candidates, it will be possible to initiate the large scale trials. Simultaneously the whole Consortium is preparing all items related to the implementation of the large scale trials. For instance, the technical Partners lead the arrangements regarding the testing scenarios and their implementation by coordinating the weekly tech calls.

Furthermore a proactive approach is followed with the aim to foresee possible items that may arise during the large scale trials. Both technical and use case partners are active in this respect. We foresee that this close collaboration between the partners will continue during the large scale trials, given that feedback should be collected from the large scale trials, which will serve the purpose of providing information in terms of lessons learned. Subsequently this feedback will be valuable when considering the project’s impact and when preparing the following deliverables: D7.7, “Large-scale trial report including best-practices” and D8.7, “Exploitation Impact Report”.

Table 7: WP 7

Work Package No.	WP 8	Plan-Start:	1	Plan-End:	30
Lead Participant	OKFDE	Actual-Start:	1	Actual-End:	30
Work Package Title	Dissemination and Exploitation				
Participant Involved	OKFDE (lead), OKI, Fraunhofer, UEP, OKFGR, TI-EU, J++, Civio, UBonn				
Work Package Summary of Progress Towards Objectives					
<p>During M12-M21, work package 8 focused around three main activities. Firstly, the existing communication and dissemination infrastructure (website, social media, press releases, materials) was continuously operated, improved, and expanded. Secondly, the campaign around the launch of the OpenBudgets.eu prototype and the call for tender was prepared and executed. Lastly, the exploitation plan detailing the future potential for the exploitation of the project's results has been created and published.</p>					
Task 8.1 Fact Sheet & Set-up and continuously update Website, social media channels (Task Lead: OKFDE, Contributors: OKF, J++, TIEU, OKFGR, CIVIO, UEP) – M1-30					
<p>The first iteration of the fact sheet has been developed and published/printed prior to this reporting period. Currently, individual fact sheets are being developed for the tools that are part of the prototype release of OpenBudgets.eu. The materials will be continuously updated to reflect the project's progress. During this reporting period, all available channels have been used to ensure the reach of relevant stakeholders both for the prototype release and the call for tender.</p>					
Task 8.2 Dissemination strategy and materials, Press releases & Testimonials (Task Lead: OKFDE, Contributors: OKF) – M2-9					
<p>D 8.2 was finished and uploaded prior to this reporting period (on time).</p> <p>Press Releases were composed, translated and released around the launch of the prototype and the large scale trials.</p>					
T8.3 Stakeholder identification and outreach (Task Lead: OKF, Contributors: OKFDE, J++, TIEU, CIVIO) – M1-6					

D 8.3 was finished and uploaded prior to this reporting period (on time).

The action as presented in the identification and outreach have since then resulted in the establishment of a stakeholder board for OpenBudgets.eu. The stakeholder board currently consists of 5 members and one external consultant: Gisele Craveiro, Jed Miller, Daniel Macyszyn, David Mc Nair, Calire Schouten, and Aline Pennensi (external consultant).

The stakeholder board held its first meeting during the IODC in Madrid on the 3rd of October. The second virtual meeting was held during the Consortium Meeting in Prague on the 24th of November. Another two meetings are planned around the launch of the beta-version in April - May 2017 and the final presentation of the project Sep-Oct 2017.

T8.4 Annual and final dissemination report, Documentation and learning materials (Task Lead: OKFDE, Contributors: UEP, OKF, J++, TIEU, OKFGR, CIVIO, IAIS) – M1-30

The annual dissemination report has been finalized and uploaded prior to this reporting period (M12). The data required for the final dissemination report (M30) is continuously collected via the dissemination tracker developed for the project. The data collected continues to show a general upward trend, with outreach numbers reaching a high around the prototype launch in November 2016. The target numbers that have been raised during the last reporting period (activity & quality on community mailing lists, participation in international events, and social media coverage) are all well within reach. Currently, a series of learning materials (webinars, tutorials, one-pagers) is conceptualized and will be produced in collaboration with the partners to share the learnings and output generated during the project with relevant stakeholders.

D8.4.1 - Annual dissemination report, Documentation and learning materials – M12

Delivered in previous reporting period (on time).

D8.4.2 - Final dissemination report, Documentation and learning materials – M30

Pending

T8.5 Exploitation plan and impact report (Task Lead: IAIS, Contributors: OKFDE) – M1-24

The exploitation strategy is continuously executed in accordance with the exploitation plan set out in M12. The prototype launch in November in combination with the shortly

commencing large scale trials are new sources of input for the refinement of the strategy as well as the exploitation impact report in M24.

D8.6 - Exploitation plan – M12

Delivered in previous reporting period (on time).

D8.7 - Exploitation impact report- M24

Through Task 7.4 Large Scale Trials, the exploitation plan has taken off concretely by involving future clients in testing the tools and gathering the feedback. Based on the exploitation plan, the individual partner exploitation plans and the large scale trials additional roadmaps are being developed.

Table 8: WP 8

Work Package No.	WP 9	Plan-Start:	M1	Plan-End:	M30
Lead Participant	Fraunhofer	Actual-Start:	M1	Actual-End:	M30
Work Package Title	Project Management				
Participant Involved	No other participants involved				
Work Package Summary of Progress Towards Objectives					
<p>This work package comprises activities related to the management of this project. As defined in the Grant Agreement of OpenBudgets.eu, the general objectives are the following:</p> <ul style="list-style-type: none"> ● Establish concrete tasks that provide focus and direction so that the project goals can be achieved. ● Establish the appropriate communication channels with the European Commission; ● Establish efficient means of communication and document exchange between The Partners; ● Ensure transparency in Project Reporting by establishing appropriate report structures and procedures; ● Conduct quality assurance activities and perform risk analysis tasks; 					

- Coordinate any required organisation such as project meeting and other possible participatory events where OpenBudgets.eu could be presented;
- Ensure project objectives are realised within set time and budget.

All the aforementioned objectives require constant monitoring on a daily basis in order to ensure that the project progresses in accordance with the agreed time, cost and quality standards. From a management perspective, we believe that establishing a collaborative and transparent culture within the project's scope is of paramount importance for the project's success. Thus, apart from the Monthly Calls where the partners participate, various telcos are organised among partners on a weekly basis, such as the weekly Use Case and Technical Calls. The aim of organising frequent meetings is to monitor closely the project's progress and to ensure that challenges and threats to the project's success will be addressed in time and that opportunities will be identified.

Task 9.1

Project Coordination and Management (Task lead: IAIS) – M1-30

This task is mainly concerned with the coordination of the project from an administrative perspective. In this project environment, these administrative activities include the communication with European Commission, funds management, and establishment of the best possible practices, which will be used within the project between the partners.

All the above mentioned tasks and activities are regularly and successfully conducted during the first twelve months of the project. Apart from the regular weekly Use Case and Technical Calls, the monthly progress calls and the Plenary Meetings, other meetings are organised as well on a weekly basis in order to address more specific items.

Our goal is to establish an innovative culture and to ensure that communication supports the project in an effective and efficient way. In fact, we believe that communication has an important role for the project's success. Therefore time is invested in order to ensure that each Partner is updated with regard to the project's progress, their contributions to the project are monitored, and so that each Partner's specific concerns, needs and requirements are effectively addressed and resolved so that the project's progress will not be impeded. Good collaboration and a friendly co-working environment increase the project's success potential.

Task 9.2

T9.2 - Quality Assurance (Task lead: IAIS) – M1-30

This task monitors the scientific and technical results of this project with the objective to ensure that during the lifespan of the project, high quality outputs are produced. These outputs are monitored by the quality control procedures agreed and implemented by the Partners. In this context, all deliverables are reviewed by the Partners in order to ensure that the project's progress is monitored and all related quality standards are maintained.

Furthermore, the quality of the project's delivered results is enhanced by providing the right working environment. In the OBEU case, we are using GitHub and JIRA in order to separate and assign concrete tasks.

Table 9: WP 9

Work Package No.	WP 10	Plan-Start:	M1	Plan-End:	M30
Lead Participant	Fraunhofer	Actual-Start:	M1	Actual-End:	M30
Work Package Title	Ethics requirements				
Participant Involved	All Consortium Partners				
Work Package Summary of Progress Towards Objectives					
<p>The objective of this Work Package is to ensure the project's compliance with the 'ethics requirements', as described in the context of this work package.</p> <p>After the first successful review of the project, Fraunhofer intensified the efforts with the aim to hire an external ethics advisor who would contribute to the preparation of the pending deliverables for this Work Package. In this context, various possibilities were explored in collaboration with the Fraunhofer administration, aiming to find the most efficient and higher quality solution with regard to the project and complying with the Fraunhofer hiring procedures for external consultants. For instance we explored the option of setting up an ethics advisory board consisting of three independent ethics advisors with IT and law experience. Finally, it was only possible to organize a competition for an OBEU ethics advisor. This competition was organized according to the Fraunhofer standards and administrative procedures. The OBEU Consortium was updated as per the received applications. The Project Management Board unanimously voted and approved of the selection of the OBEU Ethics advisor with experience</p>					

as legal consultant in this domain and background both in IT and law. Subsequently the contract was prepared and signed between Fraunhofer and the external legal consultant.

According to the Annex A of the signed contract, the selected external legal consultant will carry out the following works and services in English (Project's working language):

- Being available as Ethics Advisor for the duration of the project, i.e. until 31st October 2017.
- Providing support by assessing and answering privacy-related questions in the course of the project.
- Collecting (by way of questionnaires) all information from the entities participating in the research that is required to assess the research under the applicable data protection legislation.
- Assessing the research activities under the applicable data protection legislation.
- Where necessary, proposing adjustments in order to achieve compliance with the ethics principles and applicable data protection legislation.
- Preparation of an Ethics Report in English, as required for deliverable D10.1 of the project.
- Assistance in the preparation of deliverable D10.3.
- Assistance in fulfilling the ethics requirements according to WP10
- Providing advice about Dataset licensing, for instance how datasets that do not have a license (technically not open data) can be republished.

The current status of this item is the following: with the respective contracts signed, the selected external legal consultant has been extensively updated about the project and was given time to study the submitted and approved deliverables. The consultant is currently preparing forms, questionnaires and guidelines for the Partners with regard to the ethical concerns related to the project. These forms and questionnaires will be completed by the Partners and will constitute the first step in terms of the preparation of the due deliverables. Furthermore, when this material will be prepared by the consultant (in due course), a telco will be scheduled with all partners, during which the forms and questionnaires will be presented. During this telco, the partners will have the opportunity to address questions related to ethical items to the consultant and alternatively provide answers to his questions. Thus it is expected that a fruitful collaboration and exchange will be initiated for the benefit of the project.

D10.1

The D10.1 with the title “OEI – Requirement No. 3” is Confidential is intended only for members of the consortium (including the Commission Services). According to the description of this deliverable, an external independent Ethics Advisor must be appointed to oversee the ethical concerns involved in this research. A report by an Ethics Advisor must be submitted to the REA with the financial reports. Due to the fact that large amounts of data will be used and merged, a data manager must be designated.

With regard to the progress for this deliverable, the preparation is initiated. The ethics advisor is preparing the forms, which should be completed by the partners and which will provide content for this deliverable. The management of the collaboration with the selected external legal consultant is outlined in the WP 10 “Work Package Summary of Progress Towards Objectives” Section. Fraunhofer has the aim to ensure that the project will fully comply with the EC standards in this respect and that a solid D10.1 deliverable will be submitted in this respect.

D10.2 : H - Requirement No. 1

The D10.2 with the title “H - Requirement No. 1”, consists of the following elements:

1. Details on the procedures and criteria that will be used to identify/recruit research participants must be provided.
2. Detailed information must be provided on the informed consent procedures that will be implemented.
3. Copies of examples of Informed Consent Forms and Information Sheets must be included. These must be in language and terms understandable to the participants.

Participants must have the right:

- 1.1 To know that participation is voluntary
- 1.2 To ask questions and receive understandable answers before making a decision
- 1.3 To know the degree of risk
and burden involved in participation
- 1.4 To know who will benefit from participation
- 1.5 To receive assurances that appropriate insurance cover is in place
- 1.6 To know how their data will be collected, protected during the project and either destroyed or reused at the end of the research

1.7 To withdraw themselves and data from the project at any time

1.8 To know of any potential commercial exploitation of the research. Detailed information must be provided on the procedures that will be used for the recruitment of participants. That is, number of participants, inclusion/exclusion criteria, direct/indirect incentives for participation, the risks and benefits for the participants etc. and the nature of the material that will be collected (e.g. sensitive or personal data etc.). The screening requirements must be fulfilled prior to the start of the relevant work packages.

This Deliverable is successfully submitted.

D10.3 : POPD - Requirement No. 2

The D10.3 with the title POPD - Requirement No. 2 consists of the following elements:

1. Copies of ethical approvals for the collection of personal data by the competent University Data Protection Officer / National Data Protection authority must be submitted to the REA.

2. Detailed information must be provided on the procedures that will be implemented for data collection, storage, protection, retention and destruction and confirmation that they comply with national and EU legislation.

3. Detailed information must be provided on the informed consent procedures that will be implemented.

4. The applicant must explicitly confirm that the existing data are publicly available. 5. In case of data not publicly available, relevant authorisations must be provided. The screening requirements must be fulfilled prior to the start of the relevant work packages.

With regard to the progress for this deliverable, the preparation is initiated. The ethics advisor is preparing the forms, which should be completed by the partners and which will provide content for this deliverable. The management of the collaboration with the selected external legal consultant is outlined in the WP 10 "Work Package Summary of Progress Towards Objectives" Section. Fraunhofer has the aim to ensure that the project will fully comply with the EC standards in this respect and that a solid D10.3 deliverable will be submitted in this respect.

Table 10: WP 10

1.3 Impact

The D8.6 “Exploitation Plan [M12]” was released within the context of Work Package 8 “Dissemination and Exploitation” and is in particular, associated with T8.5, Exploitation plan and impact report. In this Deliverable, the potential and existing opportunities with respect to the successful and sustainable exploitation of the project’s results were explored and analyzed, while at the same time identifying and proposing ways to measure and maximize the project’s impact with regard to all potential stakeholders. In this context, solutions and suggestions were provided with the objective to ensure the project’s successful exploitation and sustainability beyond its predefined duration for the Consortium in general and for each Partner in particular. Thus the project’s expected impact was reexamined with the aim to assess the effectiveness and the social and economic impact of the provided tools through the prism of the internal and external environment and the various stakeholder perspectives. In this respect various management tools were used, including SWOT analysis, Stakeholder Analysis Matrix, Business Model Canvas, PESTLE Analysis, and individual exploitation plans per Work Package and per Project Partner. This process ensured that all Partners have a clear and aligned vision with regard to the project’s objectives and to how they will impact stakeholders, such as citizens, public government and/ or audit and reporting administrations and the overall community in general. We also have in mind the current competition analysis and market trends in this market segment and we aim to develop the technological tools that will provide effective and efficient solutions in the domain of public financial transparency. At the same time, the anticipated obstacles towards achieving the expected impact remain the same and include potential unwillingness to publish budget and transaction data and difficulty in engaging all stakeholder categories to the same extent.

The D8.6 “Exploitation Plan [M12]” provided to the Consortium an exceptional opportunity to initiate and intensify the discussion in terms of sustainability and exploitation during and beyond the project’s duration. The implementation of the large scale trials will provide unique insights and an effective feedback mechanism in order to gain knowledge in terms of lessons learned, especially for the viewpoint of the stakeholder group with the highest priority with regard to sustainability and exploitation. The progress achieved via the set up and the consultations with the Stakeholder Advisory Board contributes further in this direction. Moreover all communication and dissemination activities provide to the Consortium the opportunity to directly interact with various stakeholder groups, receive feedback and use it for the benefit of the project. In this respect, the Consortium Partners maintain open communication channels aiming to ensure the collaboration and exchange in this domain as well.

The next step will be to continue the efforts and the constructive exchange in terms of further developing and testing the individual partner exploitation plans and the large scale trials roadmaps. Our progress will be reported in the upcoming deliverable D8.7, “Exploitation Impact Report”, where also the results and lessons learned for the implementation of the large scale trials will be incorporated.

2. Update of the plan for exploitation and dissemination of result

Measurement and Indicators from DoW:

Indicators	Target	Last report (June 2016)	Actual	% of (median) goal	Commentary
Collect policy maker contacts	500 - 1000	270	778	100+	
Number and quality of liaisons with groups of stakeholders	30 - 100	19	190	100+	
Number of activities organized (Workshops, Webinars, Tutorials)	20 - 40	13	15	50	
Activity and quality of discussion in different community mailing lists	20 - 40 (prev. 10 - 20)	10	15	67	Target raised in last

					reporting period
Participation in international events	25 - 50 (prev. 15 - 30)	29	51	100+	Target raised in last reporting period
Number of publications published at workshops/conferences /journals	10-30	2	10	50	
Number of standards introduced	3 - 5	1	1	22	Running
Social Media coverage (all visits and views to all possible channels) 25.000 - 50.000	250,000 (prev. 25.000-50.000)	117,153.00	208,270.00	83	Target raised in last reporting period
Number of people regularly using the portals, tools, and services	300.000 - 600.000			0	elaborated upon in exploitation plan
Number of Press Releases	10 - 50	5	19	63	
Traffic generated through online ad campaign	1M - 1.5M			0	Exploitation roadmap

Number of successfully-managed support requests	5000 - 10000				0	Exploitation roadmap
Number of webinar participants/viewers	3000 - 6000				0	Exploitation roadmap
Number of views generated for the online screencasts, manuals and tutorials online	10000 - 30000	0	659		3	Exploitation roadmap

The Deliverable D8.6, released within the context of Work Package 8 “Dissemination and Exploitation”, is in particular associated with T8.5, Exploitation plan and impact report. WP8 is a horizontal component within the project work plan, which aims to organise the OBEU dissemination and user engagement activities and the OBEU exploitation strategy and sustainability plan. In this context, efforts in WP8, and more specifically in Task 8.5 focus on studying the market potential for OBEU to all stakeholders, and thereby on defining the market characteristics and OBEU’s positioning against competitive solutions in a way that can create value for all stakeholders involved. The ultimate goal of this analysis is the acquisition of the necessary information for the definition of OBEU’s exploitation plan and business model, as well as its contribution to enhancing financial transparency by providing efficient and user-friendly tools. Thus the following management and strategy tools were taken into consideration, such as SWOT analysis, exploitation strategy and plan per work package and project partner, stakeholder matrix analysis, preparation of the Stakeholder Advisory Board, competition and market trends analysis in this market segment, business model canvas, PESTLE analysis, analysis of potential revenue streams and sustainable development of the project’s results, all of which constitute significant parts of OBEU.

We aim to further develop this area in order to unlock existing exploitation potential for OBEU. Thus the importance of use case descriptions, the careful analysis of stakeholder perspectives and current trends in terms of related portals are among the aspects that have been considered. By conducting risk management, we tried to uncover potential obstacles,

while working on the business side of the project and developing the Business Model Canvas and Revenue Streams for SaaS business.

Taking all the above into consideration, we believe that there is market potential for OBEU, not only thanks to its unique value proposition that makes high technology affordable at a low price for municipalities, public administrations and citizens, but also thanks to the positive effects that will result by the project's implementation in terms of democratizing the decision making process, achieving financial transparency for public funds and investing in the good collaboration between citizens and public authorities, which is one of the fundamental engines for societal progress. Thus, in the next deliverables we will continue to develop all the project related aspects that will guarantee its success.

3. Update of the data management plan

DMP summaries best practices for data management, data management guideline, and templates for data management used in the OpenBudgets.eu project. DMP is updated at every milestone cycle. Along with the data-transformation and data-mining work, we update DMP in three aspects: (1) set the naming policies used in D1.2, D1.3, and transformed datasets. The transformed data-sets shall be named based on a consistent naming policy. This not only increase the surface quality of dataset, but also ease several data-processing operations. For example searching. Without a consistent naming policy, whether a dataset belongs to a city needs a software to check the content (the meta-data part). This either introduces extra computational operation, or demands skilled knowledge of some special tools, such as SPARQL; (2) describing where project-related datasets are placed in the Web. The original datasets are published by municipal governments, so the transformed datasets shall also be accessible by the public; (3) listing all datasets used in project-related publications, so that researchers can access them to reproduce or improve research results.

4. Deviations from Annex 1 (if applicable)

4.1 Tasks

Not applicable (no deviations).

4.2 Use of resources

Not applicable (no deviations).

4.2.1 Unforeseen subcontracting if applicable

Not applicable, since no partner has reported any costs in subcontracting in their financial statement.

4.2.2 Unforeseen use of in kind contribution from third party against payment or free of charges (if applicable)

No applicable, since there was also no partner declaring free of charge in kind contributions in their financial statement. .

5 Financial Report

The pdf of the 2nd Interim Report is incorporated to the document, with the aim to provide detailed insights in terms of the financial aspects and cost monitoring of the project. In the following pages, detailed information is provided with regard to all related aspects of this domain.

5.1 Overview / dashboard (PM/Costs/Funding) M1- M18

5.2 Financial reporting M13 – 18

5.3 Explanations on the use of resources M13 – 18

5.4 Overview Efforts M1 – 18



Summary 2nd Interim Report

M13-18

	<u>Page</u>
Overview/dashboard (PM/Costs/Funding) M1-18	2
Overview Efforts M1-18	3
Financial Reporting M13-18	6
Explanations on the use of resources M13-18	7

OpenBudgets.eu - Dashboard

Duration Passed: **60,00%** (M1-18)

Participant No	Participant Short Name	PM Overview			Costs Overview			Funding Overview		
		DoA* Total PM	Actual M1-18 Total PM	Usage	DoA* Total Costs (EUR)	Actual M1-18 Total Costs (EUR)	Usage	DoA* Total Funding	Actual M1-18 Total Funding (EUR)	Usage
1	Fraunhofer	67,00	39,63	59,1%	775.749	322.455	41,6%	775.749	322.455	41,6%
2	OKF	38,40	23,79	62,0%	319.054	178.922	56,1%	319.054	178.922	56,1%
3	CIVIO	28,00	18,49	66,0%	136.923	81.660	59,6%	136.923	81.660	59,6%
4	TIEU	17,00	11,14	65,5%	154.438	85.349	55,3%	154.438	85.349	55,3%
5	OKFDE	59,75	31,21	52,2%	405.237	223.006	55,0%	405.237	223.006	55,0%
6	UEP	70,00	44,71	63,9%	288.290	155.130	53,8%	288.290	155.130	53,8%
7	J++	36,00	21,97	61,0%	227.938	135.932	59,6%	159.557	95.153	59,6%
8	UBONN	40,00	18,86	47,2%	339.324	124.257	36,6%	339.324	124.257	36,6%
9	OKFGR	61,00	33,83	55,5%	402.430	189.751	47,2%	402.430	189.751	47,2%
	TOTAL	417,15	243,63	58,4%	3.049.381	1.496.462	49,1%	2.981.000	1.455.682	48,8%

* DoA version after Amendment 1, with implemented change requests up to No. 16

OpenBudgets.eu - Financial KPIs for M1-18

	Actual M1-18	Planned DoA M1-30
Person months spent: 58,4%	243,63 PM	417,15 PM
Budget (costs) spent: 49,1%	1.496.462 €	3.049.381 €
EC funding spent: 48,8%	1.455.682 €	2.981.000 €
Project duration passed: 60,0%		

Actual M1-18 VS Plan M1-30

Duration passed: 60%

Project	OpenBudgets.eu	TOTAL						Fraunhofer						OKF						CVIO					
		H2020						P1			P2			P3											
		Actual 1-6	Actual M7-12	Actual 13-18	Sum actual M1-18	Plan M1-30	Utilization	Actual M1-6	Actual M7-12	Actual M13-18	Sum actual M1-18	Plan M1-30	Utilization	Actual M1-6	Actual M7-12	Actual M13-18	Sum actual M1-18	Plan M1-30	Utilization	Actual M1-6	Actual M7-12	Actual M13-18	Sum actual M1-18	Plan M1-30	Utilization
WP1	Data Structure Definition for Budgets and Public Spending	16,45	10,52	4,72	31,69	37,00	85,6%	0,00	0,44	0,00	0,44	3,00	15%	0,49	1,06	0,00	1,55	2,00	78%	0,00	0,00	0,00	0,00	0,00	100%
Task 1.1	Data model design	11,37	2,79	2,39	16,55				0,44		0,44			0,49	1,06		1,55							0,00	
Task 1.2	Definition of code lists	3,98	3,56	1,50	9,04						0,00			0,00			0,00							0,00	
Task 1.3	Linking data structure definition components and code lists	1,10	4,17	0,83	6,10						0,00						0,00							0,00	
WP2	Data Collection and Mining	2,54	17,52	21,20	41,26	62,00	66,5%	0,22	4,00	2,02	6,24	7,00	89%	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%
Task 2.1	Semantic Lifting of Heterogeneous Financial Data	1,27	7,56	2,67	11,50			0,20	1,00		1,20						0,00							0,00	
Task 2.2	Data Optimisation, Link Discovery and Pre-Processing	0,50	3,95	1,87	6,32				1,00		1,00						0,00							0,00	
Task 2.3	Analytics & Data Mining	0,67	4,89	14,10	19,66			0,02	1,00	2,02	3,04						0,00							0,00	
Task 2.4	Data Mining Interfaces	0,10	1,12	2,56	3,78				1,00		1,00						0,00							0,00	
WP3	Budget and Spending Data Visualisation and Exploration	2,93	9,06	16,51	28,49	67,00	42,5%	0,00	0,00	0,00	0,00	0,00	100%	0,18	1,47	6,26	7,91	9,00	88%	0,00	0,00	0,00	0,00	0,00	100%
Task 3.1	Collect visualisation use-cases	1,68	0,16	0,20	2,04						0,00			0,18	0,16		0,34							0,00	
Task 3.2	Develop a visualisation creation framework	0,75	3,63	2,40	6,78						0,00						0,00							0,00	
Task 3.3	Build comparative analysis presentation tools	0,50	3,63	4,33	8,46						0,00						0,00							0,00	
Task 3.4	Develop data & visualisations packaging app	0,00	0,00	5,80	5,80						0,00					4,38	4,38							0,00	
Task 3.5	Develop demonstration visualisations	0,00	1,31	1,83	3,14						0,00				1,31	0,63	1,94							0,00	
Task 3.6	Organise a social network around the results	0,00	0,33	1,95	2,28						0,00					1,25	1,25							0,00	
WP4	OpenBudgets.eu Requirements, Platform Architecture Integration and Development	0,89	5,23	17,55	23,67	49,40	47,9%	0,69	2,00	6,80	9,49	26,00	37%	0,00	0,00	4,61	4,61	8,40	55%	0,00	0,00	0,00	0,00	0,00	100%
Task 4.1	Framework infrastructure	0,89	2,46	4,00	7,35			0,69	1,00	2,00	3,69					0,23	0,23							0,00	
Task 4.2	Platform integration	0,00	2,77	6,05	8,82				1,00	2,00	3,00					0,28	0,28							0,00	
Task 4.3	Platform Testing	0,00	0,00	7,50	7,50					2,80	2,80					4,10	4,10							0,00	
WP5	Test Beds and Evaluation - Journalism	11,29	14,74	9,09	35,12	50,00	70,2%	0,00	0,00	0,00	0,00	0,00	100%	0,00	1,31	0,45	1,76	3,00	59%	0,00	0,00	3,00	3,00	3,00	100%
Task 5.1	Gap analysis and user requirements	7,29	9,57	3,42	20,28						0,00				0,87	0,18	1,05						1,00	1,00	
Task 5.2	Workshops and user	0,70	3,29	5,39	9,38						0,00				0,44	0,27	0,71					2,00	2,00		
Task 5.3	Tool building and tailoring	3,30	1,88	0,28	5,46						0,00						0,00							0,00	
WP6	Test Beds and Evaluation - Transparency	3,75	4,11	2,83	10,69	24,00	44,5%	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%
Task 6.1	Needs Assessment of EU Parliamentarians	2,81	2,54	0,00	5,35						0,00						0,00							0,00	
Task 6.2	Quality Index of EU Structural Funds Data	0,94	1,52	1,53	3,99						0,00						0,00							0,00	
Task 6.3	Legal loopholes and legislative change	0,00	0,05	1,30	1,35						0,00						0,00							0,00	
WP7	Test Beds and Evaluation - Participatory Budget	0,00	4,50	17,77	22,27	44,00	50,6%	0,00	0,00	5,00	5,00	8,00	63%	0,00	0,00	0,00	0,00	0,00	100%	0,00	4,17	11,32	15,49	22,00	70%
Task 7.1	Need assessment and gap analysis	0,00	3,50	0,00	3,50						0,00						0,00					3,17	3,17		
Task 7.2	Development of the platform/tools	0,00	1,00	9,19	10,19						0,00						0,00					1,00	9,19	10,19	
Task 7.3	Implementation and Dissemination	0,00	0,00	3,38	3,38						0,00						0,00					2,13	2,13		
Task 7.4	Large-scale trials	0,00	0,00	5,20	5,20					5,00	5,00						0,00							0,00	
WP8	Dissemination and Exploitation	7,66	15,71	10,61	33,98	63,75	53,3%	0,00	2,00	0,00	2,00	3,00	67%	2,71	3,71	1,54	7,96	16,00	50%	0,00	0,00	0,00	0,00	3,00	0%
Task 8.1	Fact Sheet & Set-up and continuously update Website, social media channels	3,74	3,27	4,17	11,18						0,00			1,74	0,87		2,61							0,00	
Task 8.2	Dissemination strategy and materials, Press releases & Testimonials	1,50	1,41	2,21	5,12						0,00				0,71	1,54	2,25							0,00	
Task 8.3	Stakeholder identification and outreach	1,72	6,13	2,63	10,48						0,00			0,97	2,13		3,10							0,00	
Task 8.4	Annual and final dissemination report, Documentation and learning materials	0,60	3,40	1,29	5,29				1,00		1,00						0,00							0,00	
Task 8.5	Exploitation plan and impact report	0,10	1,50	0,31	1,91						1,00						0,00							0,00	
WP9	Project Management	9,66	3,10	3,70	16,46	20,00	82,3%	9,66	3,10	3,70	16,46	20,00	82%	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%
Task 9.1	Project Coordination and Management	8,77	0,56	1,20	10,53			8,77	0,56	1,20	10,53						0,00							0,00	
Task 9.2	Quality Assurance	0,89	2,54	2,50	5,93			0,89	2,54	2,50	5,93						0,00							0,00	
Total		55,17	84,48	103,98	243,63	417,15	58,4%	10,57	11,54	17,52	39,63	67,00	59%	3,38	7,55	12,86	23,79	38,40	62%	0,00	4,17	14,32	18,49	28,00	66%

WP4 PM allocation of OKF drafted

Actual M1-18 VS Plan M1-30

Project	OpenBudgets.eu	TIEU						OKFDE						UEP						J++						
		P4						P5						P6						P7						
Typ	H2020	Actual M1-6	Actual M7-12	Actual M13-18	Sum actual M1-18	Plan M1-30	Utilization	Actual M1-6	Actual M7-12	Actual M13-18	Sum actual M1-18	Plan M1-30	Utilization	Actual M1-6	Actual M7-12	Actual M13-18	Sum actual M1-18	Plan M1-30	Utilization	Actual M1-6	Actual M7-12	Actual M13-18	Sum actual M1-18	Plan M1-30	Utilization	
WP1	Data Structure Definition for Budgets and Public Spending	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%	10,79	6,99	4,72	22,50	25,00	90%	0,00	0,00	0,00	0,00	0,00	0,00	100%
Task 1.1	Data model design				0,00						0,00			9,78	1,29	2,39	13,46								0,00	
Task 1.2	Definition of code lists				0,00								1,01	3,06	1,50	5,57								0,00		
Task 1.3	Linking data structure definition components and code lists				0,00						0,00				2,64	0,83	3,47								0,00	
WP2	Data Collection and Mining	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%	0,92	5,85	11,50	18,27	29,00	63%	0,00	0,00	0,00	0,00	0,00	0,00	100%
Task 2.1	Semantic Lifting of Heterogeneous Financial Data				0,00						0,00			0,52	3,76	1,37	5,65								0,00	
Task 2.2	Data Optimisation, Link Discovery and Pre-Processing				0,00						0,00				1,54	0,37	1,91								0,00	
Task 2.3	Analytics & Data Mining				0,00								0,40	0,55	9,28	10,23								0,00		
Task 2.4	Data Mining Interfaces				0,00						0,00					0,48	0,48								0,00	
WP3	Budget and Spending Data Visualisation and Exploration	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	1,53	1,53	6,00	26%	0,00	0,00	0,50	0,50	12,00	4%	
Task 3.1	Collect visualisation use-cases				0,00						0,00						0,00								0,00	
Task 3.2	Develop a visualisation creation framework				0,00						0,00						0,00								0,00	
Task 3.3	Build comparative analysis presentation tools				0,00						0,00					1,53	1,53								0,00	
Task 3.4	Develop data & visualisations packaging app				0,00						0,00						0,00								0,00	
Task 3.5	Develop demonstration visualisations				0,00						0,00						0,00					0,50	0,50		0,00	
Task 3.6	Organise a social network around the results				0,00						0,00						0,00								0,00	
WP4	OpenBudgets.eu Requirements, Platform Architecture Integration and Development	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	0,00	100%
Task 4.1	Framework infrastructure				0,00						0,00						0,00								0,00	
Task 4.2	Platform integration				0,00						0,00						0,00								0,00	
Task 4.3	Platform Testing				0,00						0,00						0,00								0,00	
WP5	Test Beds and Evaluation - Journalism	0,00	0,00	0,00	0,00	0,00	100%	2,74	3,40	3,18	9,32	19,00	49%	0,05	0,08	0,00	0,13	4,00	3%	8,50	9,95	2,16	20,61	20,00	103%	
Task 5.1	Gap analysis and user requirements				0,00			2,34	1,70	1,21	5,25			0,05			0,05			4,90	7,00	1,03	12,93			
Task 5.2	Workshops and user				0,00			0,40	1,70	1,97	4,07						0,00			0,30	1,15	0,85	2,30			
Task 5.3	Tool building and tailoring				0,00						0,00				0,08		0,08			3,30	1,80	0,28	5,38			
WP6	Test Beds and Evaluation - Transparency	3,75	3,25	1,90	8,90	13,00	68%	0,00	0,44	0,50	0,94	4,00	24%	0,00	0,42	0,43	0,85	3,00	28%	0,00	0,00	0,00	0,00	0,00	100%	
Task 6.1	Needs Assessment of EU Parliamentarians	2,81	2,10	0,00	4,91				0,44		0,44						0,00								0,00	
Task 6.2	Quality Index of EU Structural Funds Data	0,94	1,10	0,60	2,64					0,50	0,50				0,42	0,43	0,85								0,00	
Task 6.3	Legal loopholes and legislative change		0,05	1,30	1,35						0,00						0,00								0,00	
WP7	Test Beds and Evaluation - Participatory Budget	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,33	1,45	1,78	9,00	20%	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%	
Task 7.1	Need assessment and gap analysis				0,00				0,33		0,33						0,00								0,00	
Task 7.2	Development of the platform/tools				0,00						0,00						0,00								0,00	
Task 7.3	Implementation and Dissemination				0,00					1,25	1,25						0,00								0,00	
Task 7.4	Large-scale trials				0,00					0,20	0,20						0,00								0,00	
WP8	Dissemination and Exploitation	0,00	0,04	2,20	2,24	4,00	56%	4,75	8,90	5,52	19,17	27,75	69%	0,00	0,61	0,82	1,43	3,00	48%	0,20	0,45	0,21	0,86	4,00	22%	
Task 8.1	Fact Sheet & Set-up and continuously update Website, social media channels			0,10	0,10			2,00	2,00	3,24	7,24					0,82	0,82				0,40	0,01	0,41			
Task 8.2	Dissemination strategy and materials, Press releases & Testimonials			0,10	0,10			1,50	0,70	0,25	2,45						0,00								0,00	
Task 8.3	Stakeholder identification and outreach		0,04	2,00	2,04			0,55	3,30	0,43	4,28				0,61		0,61			0,20	0,05	0,20	0,45			
Task 8.4	Annual and final dissemination report, Documentation and learning materials				0,00			0,60	2,40	1,29	4,29						0,00								0,00	
Task 8.5	Exploitation plan and impact report				0,00			0,10	0,50	0,31	0,91						0,00								0,00	
WP9	Project Management	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%	
Task 9.1	Project Coordination and Management				0,00						0,00						0,00								0,00	
Task 9.2	Quality Assurance				0,00						0,00						0,00								0,00	
Total		3,75	3,29	4,10	11,14	17,00	66%	7,49	13,07	10,65	31,21	59,75	52%	11,76	13,95	19,00	44,71	70,00	64%	8,70	10,40	2,87	21,97	36,00	61%	

Actual M1-18 VS Plan M1-30

Project	OpenBudgets.eu	UBONN						OKFGR					
		P8						P9					
Typ	H2020	Actual M1-6	Actual M7-12	Actual M13-18	Sum actual M1 - 18	Plan M1 - 30	Utilization	Actual M1-6	Actual M7-12	Actual M13-18	Sum actual M1 - 18	Plan M1 - 30	Utilization
WP1	Data Structure Definition for Budgets and Public Spending	0,20	0,00	0,00	0,20	0,00	120%	4,97	2,03	0,00	7,00	7,00	100%
Task 1.1	Data model design	0,10			0,10			1,00	0,00		1,00		
Task 1.2	Definition of code lists				0,00			2,97	0,50		3,47		
Task 1.3	Linking data structure definition components and code lists	0,10			0,10			1,00	1,53		2,53		
WP2	Data Collection and Mining	1,40	5,65	5,50	12,55	21,00	60%	0,00	2,02	2,18	4,20	5,00	84%
Task 2.1	Semantic Lifting of Heterogeneous Financial Data	0,55	1,30	0,80	2,65				1,50	0,50	2,00		
Task 2.2	Data Optimisation, Link Discovery and Pre-Processing	0,50	1,41	1,50	3,41				0,00		0,00		
Task 2.3	Analytics & Data Mining	0,25	2,84	1,80	4,89				0,50	1,00	1,50		
Task 2.4	Data Mining Interfaces	0,10	0,10	1,40	1,60				0,02	0,68	0,70		
WP3	Budget and Spending Data Visualisation and Exploration	0,00	0,26	0,50	0,76	6,00	13%	2,75	7,33	7,72	17,79	34,00	52%
Task 3.1	Collect visualisation use-cases			0,20	0,20			1,50	0,00		1,50		
Task 3.2	Develop a visualisation creation framework		0,13	0,20	0,33			0,75	3,50	2,20	6,45		
Task 3.3	Build comparative analysis presentation tools		0,13	0,10	0,23			0,50	3,50	2,70	6,70		
Task 3.4	Develop data & visualisations packaging app				0,00					1,42	1,42		
Task 3.5	Develop demonstration visualisations				0,00					0,70	0,70		
Task 3.6	Organise a social network around the results				0,00				0,33	0,70	1,03		
WP4	OpenBudgets.eu Requirements, Platform Architecture Integration and Development	0,20	2,18	2,97	5,35	9,00	59%	0,00	1,05	3,17	4,22	6,00	70%
Task 4.1	Framework infrastructure	0,20	1,31	1,10	2,61				0,15	0,67	0,82		
Task 4.2	Platform integration		0,87	1,27	2,14				0,90	2,50	3,40		
Task 4.3	Platform Testing			0,60	0,60						0,00		
WP5	Test Beds and Evaluation - Journalism	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,30	0,30	1,00	30%
Task 5.1	Gap analysis and user requirements				0,00						0,00		
Task 5.2	Workshops and user				0,00					0,30	0,30		
Task 5.3	Tool building and tailoring				0,00						0,00		
WP6	Test Beds and Evaluation - Transparency	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	4,00	0%
Task 6.1	Needs Assessment of EU Parliamentarians				0,00						0,00		
Task 6.2	Quality Index of EU Structural Funds Data				0,00						0,00		
Task 6.3	Legal loopholes and legislative change				0,00						0,00		
WP7	Test Beds and Evaluation - Participatory Budget	0,00	0,00	0,00	0,00	4,00	0%	0,00	0,00	0,00	0,00	1,00	0%
Task 7.1	Need assessment and gap analysis				0,00						0,00		
Task 7.2	Development of the platform/tools				0,00						0,00		
Task 7.3	Implementation and Dissemination				0,00						0,00		
Task 7.4	Large-scale trials				0,00						0,00		
WP8	Dissemination and Exploitation	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,32	0,32	3,00	11%
Task 8.1	Fact Sheet & Set-up and continuously update Website, social media channels				0,00						0,00		
Task 8.2	Dissemination strategy and materials, Press releases & Testimonials				0,00					0,32	0,32		
Task 8.3	Stakeholder identification and outreach				0,00						0,00		
Task 8.4	Annual and final dissemination report, Documentation and learning materials				0,00						0,00		
Task 8.5	Exploitation plan and impact report				0,00						0,00		
WP9	Project Management	0,00	0,00	0,00	0,00	0,00	100%	0,00	0,00	0,00	0,00	0,00	100%
Task 9.1	Project Coordination and Management				0,00						0,00		
Task 9.2	Quality Assurance				0,00						0,00		
Total		1,80	8,09	8,97	18,86	40,00	47%	7,72	12,42	13,69	33,83	61,00	55%

Financial Reporting M13-18 Summary

No.	Short Name	PM	Direct Personnel costs	Other direct costs	Subcontracting	Indirect costs	Total costs	Total funding
1	Fraunhofer	17,52	106.270,76	2.963	0	27.308	136.542	136.542
2	OKF	12,86	80.862	2.541	0	20.851	104.253	104.253
3	CIVIO	14,32	45.248	1.027	0	11.569	57.843	57.843
4	TIEU	4,10	21.900	2.241	0	6.035	30.177	30.177
5	OKFDE	10,65	60.979	3.333	0	16.078	80.390	80.390
6	UEP	19,00	48.920	6.799	0	13.930	69.648	69.648
7	J++	2,87	13.615	4.616	0	4.558	22.788	15.952
8	UBONN	8,97	58.305	4.194	0	15.625	78.124	78.124
9	OKFGR	13,69	56.770	5.411	0	15.545	77.726	77.726
Σ	SUM	103,98	492.869	33.125	0	131.499	657.493	650.656

Explanation on Resources M13-18

Partner 1) Fraunhofer

Other direct costs below 15% threshold.

Partner 2) OKF

Other direct costs below 15% threshold.

Partner 3) CIVIO

Other direct costs below 15% threshold.

Partner 4) TIEU

Other direct costs below 15% threshold.

Partner 5) OKFDE

Other direct costs below 15% threshold.

Partner 6) UEP

Other direct costs below 15% threshold.

Partner 7) J++

Short description of the item	Category	Associated WP	Forseen in Annex I (YES / NO)	Costs	Explanations
Design work for the tutorials	Other services	T5.2	NO	3.000	Design for the tutorial website was done by professional designers to maximize reach and readability.

Partner 8) UBONN

Other direct costs below 15% threshold.

Partner 9) OKFGR

Other direct costs below 15% threshold.