D1.3

Intermediate Activity and Management Report

Report for period: August 2017 -July2018

Project acronym:	FLOOD-serv
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Responsible:	**<Mihaela Coman-Bitca>**
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History

Version	Date	Modification Reason	Modified by
0.1	01/10/2018	Initial Draft	Mihaela Coman-Bîtcă (SIVECO)
0.2	22/10/2018	Contribution from all partners	Mihaela Coman-Bîtcă (SIVECO)
1.0	31/10/2018	Final Draft	Mihaela Coman-Bîtcă (SIVECO)
1.1	29/11/2019	Final Reviewed Deliverable Changes as per Reviewers' Comments Applied To: -section 2 , WP 1-communication between partners and remedial actions undertaken-the respective text was improved on this matter -section 4.2: WP4 and WP5 (contingency actions), WP6 (dissemination activities) -section 5 at the end-referring to the used/remaining effort in %	Mihaela Coman-Bîtcă (SIVECO)

1 Table of contents

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2   List of abbreviations

ANO	A.N.O. SISTEMAS DE INFORMATICA E SERVICOS LDA
ANSWARE	ANSWARETECH SL
API	Application Integration Interface
BILBAO	AYUNTAMIENTO DE BILBAO
BSK	Bratislavsky Samospravny Kraj
CELLENT	CELLENT SA
CESIS	Emergency Communication and Information System
CMVNF	Municipio De Vila Nova De Famalicao
CPS	Cognitive Panel Survey
D&E Board	Dissemination and Exploitation Board
DDNI	INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE DELTA DUNARII
Dow	Description of Work
ECHO	European Commission's Humanitarian Aid and Civil protection department
EMSA	European Maritime Safety Agency
ERCC	Emergency Response Coordination Centre
EU	European Union
Exdwarf	EXDWARF CONSULTING SRO

GENOVA	COMUNE DI GENOVA
Gov2U	Government To You
H2020	Horizon 2020
ICT	Information and Communications Technologies
IP TULCEA	INSTITUTIA PREFECTULUI JUDETUL TULCEA
IPR	Intellectual Property Rights
R&D	Research and Development
SIVECO	SIVECO Romania SA
TBD	To Be Defined
WP	Work Package

1 Explanation of the work carried out by the beneficiaries and Overview of the progress

Explain the work carried out during the reporting period in line with the Annex 1 to the Grant Agreement.

Include an overview of the project results towards the objective of the action in line with the structure of the Annex 1 to the Grant Agreement including summary of deliverables and milestones, and a summary of exploitable results and an explanation about how they can/will be exploited10.

(No page limit per work package but report shall be concise and readable. Any duplication should be avoided).

Objectives

General objectives of FLOOD-serv to be followed are:

- empowering local communities to directly participate in the design of emergency services dealing with floods mitigation actions

- harnessing the power of new technologies, such as social media, and mobile technologies to increase the efficiency of public administrations in raising public awareness and education regarding floods risks, effects and impact

- encouraging the development and implementation of long-term, cost-effective and environmentally sound mitigation actions related to floods though an ICT-enabled cooperation and collaboration of all stakeholders: government, private sector, NGOs and other civil society organizations as well as citizens

Specific objectives of FLOOD-serv are:

- use best available data to identify the location and potential impacts of natural hazards on people, property and natural environment

- improve systems that provide warning and emergency communications

- provide support for the public authorities and government institutions' hazard mitigation efforts, including planning and action coordination

- inform the public on the risk exposure to natural hazards and ways to increase the public's capability to prepare, respond, recover and mitigate the impacts of these events

Project Funding and addressed challenge

The FLOOD-serv project relates to the topic INSO-1-2015: ICT-enabled open government – point (a), under the Horizon 2020 Program. How FLOOD-serv proposal addresses the specific challenge and scope of the call is detailed in the table below:

Table 1 : FLOOD-serv challenges to be addressed

Specific challenge	How it is addressed
Public administrations need to address the new challenges posed by the evolution of society	The project aims to develop a pro-active and personalized citizen-centric public service application that will enhance the involvement of the citizen and will harness the collaborative power of ICT networks (networks of people, of knowledge, of sensors) to raise awareness on flood risks and to enable collective risk mitigation solutions and response actions. The hydrological hazard such as flooding, which the project is focused on, poses multiple sustainability threats given their potential risk to human life, economic assets and the environment. The resulting personalized public service proposed by FLOOD-serv will lead to better informed decision-making on flood risk managements, engaging the public to anticipate and mitigate the effects of flooding and to adopt more sustainable individual and collective behaviors'.
Proposals are expected to develop and test pilots on personalized and mobile public services.	FLOOD-serv will focus on: Innovation actions, pilots on personalized and mobile public services and pilots on transparency. The project will propose, design, develop and implement test pilots, which will test, verify, demonstrate and validate the project solutions under various conditions and in different areas of Europe.
These pilots should benefit from intelligent and innovative use of large volumes of publicly available data for new, smart and mobile public services. Also, the transparency tools to be piloted will benefit from open data and could help in monitoring, enhancing accountability and fighting	The FLOOD-serv system will be based on open data, open source distributed social networking and open hardware infrastructure. The proposed solution will manage big data acquired from various external data sources (sensors, social media, open data, etc.).

corruption.	
Pilots must benefit from pro-active and personalized citizen-centric public service applications; this can be according to a user profile created and controlled by the user and structured around modular public services.	The FLOOD-serv project will develop client applications and services for the end-user (PC and mobile devices). The system will have a modular structure and will be available for different types of users – each one with specific rights and certain specifications.
Pilots should be using open services and enabling any actors, including NGOs and users, to create or co-produce new public services. User-driven, involving existing communities of people, and possibly addressing a combination of sustainability areas. Participants should include not only industry and academia but also local communities, grassroots activists, hackers, social entrepreneurs, students, citizens, creative industries and civil society organizations.	The FLOOD-serv project aims to enhance the role of the final user (the citizen) in the society. The proposed solution is user-driven, involving existing communities of people, public authorities, water management officials, planning officials, emergency services but also industry stakeholders and academia institutions. The FLOOD-serv pilots will take advantage of the full potential of existing mobile communications, integration of networks and online collaboration and will make use of innovative integrated mobile sensing devices to create a pro-active and personalized citizen-centric public service application focusing on the flood risk management process.

Project challenges are aligned to the Key digital enablers & facilitators defined at the level of H2020:

● Modernizing public administration with ICT

● Enabling cross border mobility with digital public services

● Facilitating digital interaction between administrations and citizens / businesses

Project performance metrics evaluation

Table 2: Project performance metrics

Objective	Indicator	Target value	Responsible	Status 2nd year
Deliverables (documents) - all the deliverables respect the defined scope from DoA and deadline	On time submission of deliverables	>95%	Project Coordinator	11 deliverables submitted, 2 delayed 82%
	Quality of deliverables	Good Complete, Accurate, Consistent	WP Leader	Complete
	Number of delays in sending an input for a deliverable	<=5 days	All the partners	>=5 days
	Maximum rejection of one deliverable at EC Level	Maximum 1, just one rejection	Deliverable Leader	
Services delivered by the FLOOD-serv platform will be delivered according to the project objectives, challenges and taking into account the alignment to the H2020 provision of the specific call to which the project belongs	FLOOD-serv platform will enhance the process of decision-making on flood risk managements	Good or Above (The indicator will be designed in the assessment phase)	WP3 Leader for the implementation of the requirements within work package WP4 Leader for the implementation of the requirements within work package	good

Objective	Indicator	Target value	Responsible	Status 2nd year
			WP5 Leader for the assessment	
	FLOOD-serv platform will reduce administrative barriers for citizens to provide information regarding floods	Good or Above (The indicator will be designed in the assessment phase)	WP3 Leader for the implementation of the requirements within work package WP4 Leader for the implementation of the requirements within work package WP5 Leader for the assessment	good
	Engagement level of citizen from affected areas in anticipating and mitigating the effects of flooding using FLOOD-serv platform	Good or Above (The indicator will be designed in the assessment phase)	WP3 Leader for the implementation of the requirements within work package WP4 Leader for the implementation of the	good

Objective	Indicator	Target value	Responsible	Status 2nd year
			requirements within work package WP5 Leader for the assessment	
	Number of public services addressed through FLOOD-serv platform implementation	>=3	Public Partners (CMVNF, IP Tulcea, BILBAO, BSK, GENOVA)	compliant
FLOOD-serv platform aligned to project objectives	Degree of extensibility of the system	Easily extensible	● Technical ● Committee ● Leader together with WP4 Leader	compliant
	Information, data about floods should be accessible to all the stakeholders in an appropriate format specified in the requirements of the FLOOD serv components	Good or above	WP3 Leader for the implementation of the requirements within work package WP4 Leader for the implementation of the requirements within work package	Good

Objective	Indicator	Target value	Responsible	Status 2nd year
			WP5 Leader for the assessment	
	Number of integrated connected services	>=3	WP4 Leader	compliant
	Adoption of the various technologies to be followed in the project	Good: Mobile Open data Social media Client application dedicated to end users Sensors	● Technical ● Committee ● Leader	compliant
	FLOOD-serv platform will be available for different types of users – each one with specific rights and certain specifications	>=3 categories of users with specific rights	● WP 4 Leader	compliant
	Usage of existing mobile communications, integration of networks and online collaboration	>=1	● WP 4 Leader	compliant

Objective	Indicator	Target value	Responsible	Status 2nd year
	Usability evaluation	Great or above	WP4 Leader	great
	Successful application of the system to a variety of scenarios in accordance with the pilot cities needs	Good or above	WP3 Leader	great
Project –Pilot Implementation supports project implementation	Number of end users per each pilot in 5 countries	>=15	Public Partners (CMVNF, IP Tulcea, BILBAO, BSK, GENOVA)	
	Number of user stories demonstrated during piloting phase	>=5	WP5 Leader	
	Involve existing communities of people, public authorities, water management officials, planning officials, emergency services but also industry stakeholders and academia institutions.	>=2 different type of end users groups for each pilot city	Public Partners (CMVNF, IP Tulcea, BILBAO, BSK, GENOVA)	
Project Dissemination	Number of events in which FLOOD-serv is disseminated	>=5	WP6 Leader	The consortium participated in **8 events** organized by third parties where the project was disseminated.

Objective	Indicator	Target value	Responsible	Status 2nd year
	Number of articles written	At least 2 (scientific) per every involved country At least 4 (nonscientific) for WP6 Leader	WP6 Leader	
	Number of posts on social Media (Facebook, LinkedIn, Twitter, Google+)	At least 4 every month for each channel	WP6 Leader	• **Twitter:** 32 posts *(2.7 posts per month)* • **Facebook:** 38 posts *(3.2 posts per month)* • **LinkedIn:** 18 posts *(1.5 posts per month)* **Google+:** 18 posts *(1.5 posts per month)*

Objective	Indicator	Target value	Responsible	Status 2nd year
	Number of demonstrations of the FLOOD-serv project in workshops with end users per each pilot city	>=1 at the level of each pilot city	WP6 Leader	**3 events** organized by the partners
	Number of projects with common synergies identified	>=5, the projects will have a short description on FLOOD-serv website	WP6 Leader	3 projects (synergies established)
	Number of unique FLOOD-serv website visitors (Users on Google analytics) on project duration	>=1.600	WP6 Leader	16.387 unique visitors *(August 2017 - July 2018)* (*We used AWstats service since the beginning of the project instead of Google analytics*)

2 Explanation of the work carried in each WP

WP1 - Project management and coordination

For the 2nd year of the project, SIVECO together with the partners implemented the project activities according to the project plan. Communication between partners played a major role, giving the possibility to solve problems which appeared and to adjust potential deviations from the project goals. Various means of communication were used: regular skype calls or when needed, emails, phone conferences, zoom meetings in which important decisions were taken or significant details were provided in order to ensure that the objectives of FLOOD-serv are achieved. On line Consortium meetings and technical meetings were frequently organized to ensure a better communication between partners and to avoid misunderstandings of the tasks to fulfill and deliverables to complete. Whenever a miscommunication or misunderstanding was identified between partners, immediate action was undertaken and a short call conf or zoom meeting was organized to mitigate the risk of producing mistakes in the project implementation. During this year as from the beginning of the project, SIVECO ensured the correct use of the awarded grant and provided the needed information so that the financial resources are spent appropriately, following the financial rules established within the project. As settled in the 1st year of the project, every 6 months all the partners reported to SIVECO the progress of their activities and the way the financial resources were managed correlated to the project activities. This ensured a proper management of the project and offered the possibility to track the tasks easier and faster in order to avoid deviations from the project plan.

On the 27th of October 2017 the 1st review meeting was organized in Bilbao. The analyzed period was 01.08.2016 to 31.07.2017. Some corrective actions were recommended so that the project can continue following the project plan. Some of the deliverables needed to be reviewed and suggestions were made and implemented, so that the deliverables were resubmitted.

WP3-Development of FLOOD-serv system components

D3.3-Social Media Component [Deadline-M18]

CELLENT

Cellent as WP3 leader was responsible for the elaboration of D3.3 and D3.1.

It was driving their completion and edited those deliverables in the final version. This included various coordination meetings / telephone conferences both with partner externally and internally.

In addition it worked on the following:

1) The self- service BI and improved visualisations w**e**re started already in M10 to ensure a finalization on time in M18. This was considered important, because the current visualizations did not have all the features required and the self-service function enables users to create their own reports and analytics. Several plug-in components were evaluated and finally SPAGOBI was chosen. The framework did not perform as expected and it was also unstable. Therefore it was decided to use D3.JS and implement the functionality in Java. D3.JS (or just D3 for Data-Driven Documents) is a JavaScript library for producing dynamic, interactive data visualizations in web browsers. It makes use of the widely implemented SVG, HTML5, and CSS standards.As of M24 the Self-Service BI is now available.

2) At the beginning an initial set of client installations has been implemented. In M12 – M24 Client installations were further improved for Bilbao, Genova, Tulcea, Famalicao and Bratislava taking into account already local sources and filters in local language. A comprehensive data set is now available and has been analyzed to further refine keywords.

3) Work on the REST Interface to export postings was finalized in November 2017. This allows the interconnection to all other components

4) In the social media component the language support has been extended to all other languages of pilots until M18.

5) The translated versions were fully tested to identify any bugs in the processing or bad visualization in the GUI. A comprehensive set of test cases has been

developed to test the language localisation of the GUI. Translation and test took place in mainly in November, December and January 2018.

6) The feature "Resolving points of Interest" and "Tagging" was programmed and tested in December 2017 and in spring 2018.

7) In D3.3 a comprehensive testset has been elaborated and executed.

Overall the work on the social media component was finalized on time / budget.

GENOVA CONTRIBUTION

Following the workshop which took place in Genova on July 2017, the definition of the parameters for the development of the social media component with the technical support of CELLENT was started, the definition of the structure of the data bases for the collection of information was carried out. Moreover, the technical parameters for the connections between the Municipality of Genoa server and the data residence Server of the Flood-serv project have been defined.

Genova has translated from English to Italian language the structure of the messages for user interface.

EXDWARF

Reporting period 2: Supported Cellent by localizing the Social Media component into Slovak language and provided inputs such as key words, sources, logic etc. for pilot data collection campaign. Conducted component testing with active usage of JIRA. Actively participated in technical meetings and acted as liaison between technical partner and pilot Bratislava.

IP Tulcea

IP Tulcea participated and contributed at the discussions that took place at the workshop which took place in Genova on July 2017, regarding the definition of the parameters for the development of the social media component with the technical

support of CELLENT and SIVECO representatives, the definition of the structure of the data bases for the collection of information was carried out.

DDNI

In the Task 3.5 Adaptation of the social media component, DDNI assist CELLENT for Social Media component consisting of multichannel social media sourcing, two-way communication and related analysis. It was included a module on data collection (videos and photos) from drones. Contributions during PM and Teleconferences for developing Social Media System to be used to collect unstructured information from all citizens in a passive way (which means it will not be actively sought through questions posted on social media).

D3.4 Emergency Management Console [Deadline M18]

ANSWARE

ANSWARE started to work on the software implementation of the EMC in June 2017 (M11) and by the end of January 2018 all the user stories were implemented and tested.

The EMC component was finalized on time and budget.

EXDWARF

Reporting period 2: Supported technical partner for Bratislava pilot related questions and participated in technical meetings, acted as liaison between technical partners and pilot Bratislava. Supported setup of EMC in Slovakia (provided hydrological inputs for EMC alarms, such as tresholds and sensor values for alarms). Supported planning, implementation and integration of water and rain sensors in Bratislava Raca into EMC. Conducted brief testing (access links, users).

DDNI

For D3.4 Emergency Management Console in Task 3.6 Development of the Emergency Management Console - a software deliverable concerning the development of the EMC tool, DDNI instal the Data Logger in Tulcea Port and connection of the weather station through Internet to EMC.

D3.5 Semantic Wiki [Deadline M18]

SIVECO

SIVECO started work on the Semantic Wiki component. SIVECO began the installation/integration of the Semantic MediaWiki solution and appropriate modules. In parallel a content development work plan was made, a review of existing relevant content was undertaken (to identify existing relevant semantic wikis or ontologies whose content could be reused). A mixed bottom up and top down approach was employed to content development. At the top were main flood management concepts. The bottom were very project specific proceeding from data and variables employed in the FLOOD-serv project.

EXDWARF

Reporting period 2: Supported technical partner for Bratislava pilot related questions and participated in technical meetings, acted as liaison between technical partners and Bratislava. Proposed semantic topics and key words in Slovak language for Semantic Wiki.

DDNI

Development of the concept and fulfill of the Floods Info Definitions in Semantic Wiki.

D3.6 Territory Management System [Deadline M18]

ANO

ANO began the development and adaption of the component, along with the development plan constructed by the technical team involved.

Several internal meetings have produced the internal development plan and all the technical and functional requirements were passed to the team.

Taking in account the user stories and requirements in D3.2 and D3.1, the team started working on:

1. Investigating and developing the imaging processing algorithms to identify flooded areas;

2. Investigating and developing the imaging processing algorithms to identify flood related issues;

For this purpose, the team is using some imaging examples obtained from the Municipality of Vila Nova of Famalicão.

Due to changes in the teams involved, more effort was used in the first period.

ANO finished the development of the component in the second period, according to the planning, implementing the user stories defined in D3.2.

EXDWARF

Reporting period 2: Supported technical partner for Bratislava pilot related questions and actively participated in technical meetings, acted as liaison between technical partners and pilot Bratislava.

Provided Slovak localization of component. Conducted external (unit) testing of component links and access. Conducted testing of drone photography in Bratislava region and provided images for testing with TMS.

DDNI

Support for Prefecture of Tulcea in TMS

D3.7 Citizen Direct Feedback [Deadline M18]

ANO

ANO began the development and adaption of the component, along with the development plan constructed by the technical team involved.

Several internal meetings have produced the internal development plan and all the technical and functional requirements were passed to the team.

Taking in account the user stories and requirements in D3.2 and D3.1, the team started working on:

1. The mobile application in Android for request submission and feedback;
2. Adaption of the Backoffice user interface for the Project;
3. API for the Smart Forms for Drupal;

Due to changes in the teams involved, more effort was used in the first period. ANO finished the development of the component in the second period, according to the planning, implementing the user stories defined in D3.2.

EXDWARF

Reporting period 2: Supported technical partner for Bratislava pilot related questions and participated in technical meetings, acted as liaison between technical partners and pilot Bratislava. Provided Slovak localization/XML translation of component. Conducted external unit testing of component links and access.

GENOVA CONTRIBUTION

Genoa's Pilot did a PRE-TEST to validate the hypothesis on the needful data, to test the fitness of the app to gather and send reports and to monitor the citizens' involvement.

The Pre-Test developed in October-December 2017 focused on the activities:

1. Development of an involvement plan, which at this stage was necessarily reserved to a few qualified and interested stakeholders, with the participation of the Municipality's political authority;

2. Testing an especially developed smartphone App for a short period (1 month) and a group of 'special witnesses' previously chosen and trained.

First, a state-of-the-art analysis was carried out about: present reports' modalities for generic problem at the city level; kinds of reports sent to the City in 2016; geo-referenced data owned by the City (SIT).

On the basis of the present situation and in view of the 2018 pilot's development, it was decided to propose a personalized App who could allow to report critical situations about hydrogeological risk, to be used in the pre-emergency period or 'peacetime'.

The App was called MUGUGN.APP and is an Android Open Source App, set up by the Geomorfolab of Genoa's University (DAD Department).

MUGUGN.APP had two reports modes: a 'free' one, through which the user can send text messages with photos the way he prefers and a 'guided' one, which, through a series of drop-down menus guides the user to fill an ad hoc form, built to interface

directly with the present data scheme of the Genoa City's geoportal to which were added further information for a better description of the situation.

The use of both modes answers to the main goal of the test, that is testing the possibility of a future two-way communication channel between citizens/institutions.

On the one hand, the guided report is functional to optimize the interoperability with the present data structure of the City; on the other hand, the possibility to send free reports allows for the awareness of new kind of problems not previously considered and the kind of words the citizens use to report criticalities, and also to give room for possible free suggestions and 'complaints' on the topic, which can be useful for a better understanding of the problems.

Moreover, Genoa has translate the technical document in Italian language to implement the interface of the Flood.serv tools.

DDNI

In Task 3.9 Development of the Citizen Direct Feedback   which   is   a   software deliverable in which we are going to develop the CDF tool, DDNI, support Tulcea Pilot of the CD, which will be used to collect structured information from a network of supporting citizens

WP4 FLOOD-serv collaborative and personalized citizen-centric platform

D4.4 FLOOD-serv platform [Deadline-M22]

The deliverable was submitted in due time.

D4.5 FLOOD-serv Integrated system [Deadline-M24]

ANO

ANO has collaborated with Siveco providing all requested access and documentation regarding the integration with the central platform for information purposes. ANO has also developed coordinated efforts in order to integrate its components with the authentication system implemented by SIVECO for the FLOOD-Serv platform, for SSO functionality.

ANSWARE

ANSWARE has collaborated with Siveco providing them with access to all inputs from the EMC which are consumed by the platform. Furthermore, Answare has integrated in its component (the EMC) the authentication system developed by SIVECO and which is implemented in the FLOOD-serv platform, which is based on SSO (Single Sign-On).

DDNI

In Task 3.9 Development of the Citizen Direct Feedback which is a software deliverable in which we are going to develop the CDF tool, DDNI, support Tulcea Pilot of the CD, which will be used to collect structured information from a network of supporting citizens

WP5-Verification, Piloting, Evaluation and Validation

D5.1 FLOOD-Serv Platform Test and Evaluation Plan [Deadline-M22]

In order to provide guidance to the pilots it has been found beneficial to discuss the pilot environment and testing as quickly as possible and document related plans. Hence the work on D5.1 started earlier than planned.

CELLENT

Cellent has provided the description of the pilot planning for Genova in D5.1. It is based on D3.1 and the workshop in July in Genova, which was initiated by Cellent. Cellent participated also in the workshop in Bratislava in September 2017 and tried to convince Siveco, who is leader of 5.1, to include a pilot planning in D5.1. Cellent has prepared an initial draft of 5.1 addressing pilot planning.

The results from the weekly pilot planning telcos, arranged by Exdwarf could have been included. Unfortunately this document has been completely deleted from alfresco and the content has not been considered in the newly elaborated D5.1.

However Cellent contributed very actively to subsequent versions of the deliverable and participated in relevant telephone conferences with consortium partners

ANO

ANO participated in the workshop held in Genova for the first draft of the pilot plan, and engaged in discussions with the others partners for details on this deliverable.

ANO already participated in 2 conference calls with technical partners and pilots.

ANO also started to support the Famalicão, and is planning the workshop for the pilot plan.

In the second period ANO co-created and participated actively in the document structured and contacted, has actively present in the conference calls and assisted Famalicão with the planning for the Portuguese.

ANSWARE

Answare participated in the workshops held in Genova in July of 2017 and in Bratislava in September of 2017 from which the first draft of these pilot plan were proposed in D5.1. At both of them Answare attended in an on-line way The rest of pilot plan (Bilbao, Famalicão and Tulcea) were defined during the phone calls which

BILBAO

Bilbao has been taking part in the weekly TELCOS´S organized by the technical partners from April to July. During these virtual meetings, Bilbao has made contributions to the content of the pilot testing plan. Once, the content had been defined, Bilbao has been preparing the organization of the pilot and planning the different cycles. Somehow, the content defined has been adapted to the particular case of Bilbao pilot testing.

Initially, the Bilbao pilot testing did not include the participation of citizens, but after sharing these opinions with the technical partners, the idea established was to incorporate their participation in some way that could be considered productive to the project.

BSK

BSK organized several meetings with mayors of key – risk areas (Pila, Casta, Devin, Raca, Petrzalka, Devinska Nova Ves) and the technical workshop with the stakeholders held in Bratislava in September of 2017 from which the first draft of the pilot plan was

proposed in D5.1. Also participated on the reviewed meeting in Bilbao on October 2017.

In June 2018 - 4 sensors were placed. The first two are located in the forests above Rača and measure the total rainfall, and the other two are water gauges, collecting data from the Sand and Banská creek. Information from the sensors were linked to the Floodserv system.

EXDWARF

Lead task T5.2 and actively collaborated on task T5.1 with Siveco. Provided extensive technical and project support to pilots.

Actively supported (and is continuing to support) the Bratislava (BSK) pilot. This has involved various activities – for example, conducting research of flood risk areas, and together with BSK took part on several meetings with mayors of key flood-risk areas in the Bratislava region (Pila, Casta, Devin, Raca, Petrzalka, Dev. nova Ves). Co-organized and lead several workshops with BSK (Bratislava 09/2017, online at 07/2017 in Genova). Collaborated with Siveco on issuing D5.1 structure and ToC, contributed actively to document contents and conducted in-depth review of deliverable.

Conducted 2 consortium surveys (google forms and email) for completion of missing inputs from pilots and mainly to brainstorm on how to activate citizens in piloting and testing (result: activation campaign to be conducted by pilot cities). Actively worked with pilots, introduced Pilot weekly meetings for pilot communication, problem solving, planning and discussions related to piloting and testing activities. Conducted drone photography tests in Bratislava region and the UAV certification required by Slovak law for flying drones for such purpose. Liaised with key stakeholders regarding testing of Floodserv and hydrometeorology advisory. Liaised with Gov2U and Project Officer regarding campaign planning and cost eligibility of campaign promotional material.

CMVNF

CMVNF has started to organize the pilot workshop whit the support from ANO and participated weekly pilot planning.

GENOVA

The results of the pre-test carried out in the previous months were analyzed and on these basis Genoa has started the planning of piloting activities, has identified the different types of citizens and stakeholders, has studied the better methods for their involvement and has supposed some validation items and a feedback system.

The Genova team has taken part to all the TELCOs organized by the D5.1 responsible. Genova has contributed to the contents definition and the planning of the test activities of pilot project. Several internal meetings have been organized to discuss about the inputs and pilot activities.

Genoa has translated in Italian the questionnaire on internet use and attitudes.

More details about of the test citizens involved are explained in the D.5.1.

IP Tulcea

Provided contribution by identifying different types of stakeholders and by proposing validation items and a feedback system. We took part to all the TELCOs organized by the D5.1 responsible and contributed to the contents definition and the planning of the test activities of pilot project.

WP6-Stakeholders Engagement, Dissemination and Exploitation

WP6 during Y2 continued to use, maintain and update the tools already deployed for project's promotion (i.e. website, social media profiles, digital publishing platforms, newsletter etc.). Face to face meetings with stakeholders throughout the reporting period in order to further expand the project's network and raise its visibility in local, national and international level. Moreover, within the same framework the consortium participated in third party events and prepared the ground for communicating the project's results as well as exploiting them beyond the EC funding.

Promotional materials were created in pilots' languages (in close collaboration with pilots) in order to better promote the project locally, invite and engage stakeholders.

D6.1 Community of Interest Build-up & Engagement Strategy

The deliverable analyzed the typologies of stakeholders and end users for FLOOD-serv Platform and their potential motivation to participate in the project. The first version of this deliverable was submitted in October 2016 (M3) and after the 1st EC Review meeting WP6 leader was asked to update it with corrections and additions. The last updated version was submitted in February 2018.

D6.2 Dissemination Plan

The deliverable was submitted in November 2016 (M4) and after the 1st EC Review meeting WP6 leader was asked to update it with corrections and additions. The last updated version was re-submitted in January 2018

D6.3 First Communication and Dissemination Report & Updated Plan

D6.3 consists a report of the communication and dissemination activities made during the first 18 months of project's implementation. Additionally, it presents an update of the Dissemination plan for the period M19-M36. Particularly it addresses four main aspects:

- the communication and disseminations tools (website, press releases, newsletter issues, social media etc.) that project partners used for promoting the project and its results,
- the communication and dissemination activities performed such as workshops and events organized by the FLOOD-serv, participation in public events (third party events), media coverage, publications and so on,
- the performance measurement of tools and activities and assessment of their effectiveness according the KPIs set in deliverable "D6.2 Dissemination Plan", and
- an update of the Dissemination Plan.

The creation of this deliverable was based on the close collaboration among the consortium for reporting efficiently the performed activities in the first 18 months of the project. Throughout this period each partner informed the WP6 leader for the

developments on the topic. Bi-annually, they provided to Gov2u a consolidated report with these activities for ensuring the quality of the provided information. The initial draft version of this deliverable was written after collecting all the reports. Later on, it was circulated via email communication to the consortium for reviewing and commenting. After incorporating all comments/suggestions, WP6 leader sent the final version to the project coordinator (SIVECO) for submission to REA.

This report was delivered in M19 (February 2018) as foreseen in the DoA where all the communication and dissemination activities of the consortium were reported for the period M1-M18.

Partners' Contributions in D6.3

SIVECO

Provided all the reports as per WP6 leader request every six months. Provided comments and feedback in the final draft of the document.

CELLENT

Provided all the reports as per WP6 leader request every six months. Provided comments and feedback in the final draft of the document.

ANSWARE

Provided all the reports as per WP6 leader request every six months. Provided comments and feedback in the final draft of the document.

Gov2U

As WP6 leader and responsible partner for delivering this document, it proposed the initial structure to the consortium. Collected the partners' reports and created the deliverables content. Gov2u circulated the final draft of the document and received comments and generally feedback by the consortium. Evaluated all comments and proceeded in respective changes and corrections. WP6 leader delivered the final version to the project coordinator in order to submit it to the funding authority in February 2018 (M19) as foreseen in the DoA.

GENOVA

Provided all the reports as per WP6 leader request every six months. Provided comments and feedback in the final draft of the document.

DDNI

Provided all the reports as per WP6 leader request every six months

BILBAO

Provided all the reports as per WP6 leader request every six months. Provided feedback in the final draft of the document.

ANO

Provided all the reports as per WP6 leader request every six months. Provided feedback in the final draft of the document.

EXDWARF

Provided all the reports as per WP6 leader request every six months. Provided comments and feedback in the final draft of the document.

IP Tulcea

Provided all the reports as per WP6 leader request every six months. Provided feedback in the final draft of the document.

BSK

Provided all the reports as per WP6 leader request every six months. Provided feedback in the final draft of the document.

CMVNF

Provided all the reports as per WP6 leader request every six months. Provided feedback in the final draft of the document.

D6.4 Sustainability and Exploitation First Plan

D6.4 forms an initial plan for sustaining/exploiting the FLOOD-serv results after the end of EC funding. Specifically, its presents to the reader the exploitable results of the project as were clearly defined by the DoA and focuses on the Business Model that will be followed for the FLOOD-serv system as a whole.

In this report the FLOOD-serv Business Model determined the core market where its value proposition will be offered as there is no pre-defined market. In this context, the consortium after processing historical data from different sources concerning flood events across Europe during the past decades concluded that 32 areas of international river basins face the risk of flood events recurrence. Municipalities and/or prefectures

based at the previous mentioned areas are considered as the most appropriate market for our project to start offering its solution. Nevertheless, a projection of the impacts from the climate change renders at flood risk more areas in Europe. In terms of examining all possible revenue streams other markets have been included such as the petroleum sector, forecasting institutes, livestock farming sector, insurance companies and so on.

Beyond the above, this model presented the revenue models that were considered in this project's phase as the most appropriate ones for making a profit out of the offered solution. However, parts of the current version of the FLOOD-serv Business Model are based on very rough estimates and untested hypotheses, given the immaturity of some of the output at this relatively early stage in the project.

Partners' Contributions in D6.4

SIVECO

Reviewed the initial structure of the deliverable and proposed additions / corrections. Provided input (answered the questionnaire) as asked by the WP6 leader. Participated in the conference calls for finalizing this document. Performed the final review in order to assure the quality of the deliverable before its submission to REA.

CELLENT

Provided input (answered the questionnaire) and participated in the conf-calls for finalizing this document. Contributed in reviewing the deliverable and provided info for competitors' analysis. Feedback provided for the final version.

ANSWARE

Provided input (answered the questionnaire) and participated in the conf-calls for finalizing this document. Provided general comments and info for competitors' analysis of the EMC component. Feedback provided for the final version.

Gov2U

As WP6 leader and responsible partner for delivering this document, it created the questionnaire in order to collect consortium's input. Later on Gov2u collected partners' views and created the initial content of the deliverable. Telcos were organized by WP6 in order to discuss the structure with partners. Competitors' analysis was made by

Gov2u where partners were asked to contribute with further information. Lastly Gov2u incorporated all comments and delivered it to the project coordinator for submission to REA.

GENOVA

Provided input (answered the questionnaire) and participated in the conf-calls for finalizing this document.

DDNI

Provided input (answered the questionnaire).

BILBAO

Provided input (answered the questionnaire) and participated in the conf-calls for finalizing this document.

ANO

Provided input (answered the questionnaire) and participated in the conf-calls for finalizing this document

EXDWARF

Exdwarf actively contributed deliverable in chapters related to business model, marketing plan and Business model (Canvas questionnaire). Suggested aspects to be considered in business model such as targeting potential customers in different emergencies needs than floods. Conducted analysis of potential competitive solutions in Slovak and European markets. Conducted review and minor corrections to document.

IP Tulcea

Provided input (answered the questionnaire) and participated in the conf-calls for finalizing this document

BSK

Provided input (answered the questionnaire) and participated in the conf-calls for finalizing this document

CMVNF

CMVNF has contributed to the D6.4 and has filled-in the "FLOOD-serv - Business Model Canvas" form provided by the responsible of the D6.4

3 Contribution to exploitation, dissemination and standardization

Participation in third party events

Participation in third party events for communicating the project and its results. The following table shows the contribution made by partners.

Partner	Name of the event	Date	Location	Description
Exdwarf	Cities and Water conference	25 October 2017	Bratislava, Slovakia	**Programme:** Cities & Water Security, Cities & the River, Cities & Smart water management. **Aim:** Networking and FLOOD-serv dissemination **Size:** large, international **Type of audience:** Mayors, Ministers, EU policy makers,
Gov2u	51st ICA International conference	11 - 14 September, 2017	Tokyo, Japan	**Theme:** Bold Digital Government-dealing with disruptive technologies **Size:** large, international **Type of audience** Governmental CIOs local stakeholders and national ministerial representatives
Exdwarf	EC Communication Campaign on H2020	18 November 2017	Bratislava, Slovakia	Workshop, seminar with approximately 70 attendees participating in H2020 and FP7

Partner	Name of the event	Date	Location	Description
	Financial Rules European Commission with local support of Slovak Centre of Scientific and Technical Information			projects
Exdwarf	Conference Bratislava Smart Region Bratislava Self-Governing Region	17 November 2017	Bratislava, Slovakia	Smart cities conference with mixed audience incl. public and SMEs. Focus – smart soultions for cities and region, size of audience 100+, propagation of Floodserv among conference visitors, project flyers
IP Tulcea	*Prefects and Deputy-prefects Association Annual Meeting*	5-8 October 2017	Dunavatu de Jos, (Danube Delta) Tulcea county	The welcoming presentation about the institution recent activity provided by the Prefect, included a presentation of FLOOD-serv project. The audience was represented by 48 prefects, deputy-prefects and central administration representatives
IP Tulcea	*Together for a Sustainable Development-*public debate	6 March 2018	Braila, Romania	The presentation provided by the prefect included the status of FLOOD-

Partner	Name of the event	Date	Location	Description
	on National Strategy for Sustainable Development			serv project. The audience was represented by public administration representatives from 5 counties of the South Seat Region.
IP Tulcea	*Romanian Save and Rescue Forum*	15 March 2018	Bucharest, Romania	The presentation provided by the prefect included the status of FLOOD-serv project as best practice in public administration. The participants were representatives of civil protection and risk management institutions on both national and international level.
Gov2u, SIVECO, BSK	*Digital Transformation of Public Administrations Event*			**Organized by:** Directorate General for Communications Networks, Content and Technology (CONNECT) and the Research Executive Agency (REA) **Size:** 100 participants **Type of audience** project representatives, public

Partner	Name of the event	Date	Location	Description
				administration representatives, EU policy makers and professionals active in the investment and start-up community

Media Coverage of the Project

Partner	Title of the media item	Media	URL	Date
BSK	„Efektívnejší manažment povodňových rizík otestujú Devíne"	"Devincan"	www.devincan.sk	August 2017
BSK	"Úrad aktívne rieši záplavy na Mrázovej ulici"	*Website of municipality of Rača*	https://www.raca.sk/urad-aktivne-riesi-zaplavy-na-mrazovej-ulici/	21 August 2017
BSK	"Rača dostane viac ochrany pred vodou"	*"Račiansky výber"* webpage also in print copies	https://www.raca.sk/data/att/4186.pdf	9 September 2017
BSK	"Kraj súčasťou projektu výstražného povodňového systému"	"Senecko" No. 39	https://issuu.com/regionpress.senecko/docs/sc1739	28 September 2017
Bilbao	EXPERTOS ANALIZAN EN BILBAO LA GESTIÓN DEL RIESGO DE INUNDACIONES Y LA ADOPCIÓN	20 minutos	https://www.20minutos.es/noticia/3170557/0/expertos-analizan-bilbao-gestion-riesgo-inundaciones-adopcion-medidas-	26 October 2017

Partner	Title of the media item	Media	URL	Date
	DE MEDIDAS PREVENTIVAS INUNDACIONES		preventivas/	
Bilbao	Una treintena de expertos debaten en Bilbao sobre la gestión de inundaciones	ABC.es	http://agencias.abc.es/agencias/noticia.asp?noticia=2645553	26 October 2017
Bilbao	UNA TREINTENA DE EXPERTOS DEBATEN EN BILBAO SOBRE LA GESTIÓN DE INUNDACIONES	ORAIN bizkaia	http://bizkaia.orain.eus/una-treintena-de-expertos-debaten-en-bilbao-sobre-la-gestion-de-inundaciones/	26 October 2017
Bilbao	Expertos analizan en Bilbao la gestión del riesgo de inundaciones y la adopción de medidas preventivas	GENTE en Bilbao	http://www.gentedigital.es/bilbao/noticia/2255085/expertos-analizan-en-bilbao-la-gestion-del-riesgo-de-inundaciones-y-la-adopcion-de-medidas-preventivas/	26 October 2017
Bilbao	UNA TREINTENA DE EXPERTOS EUROPEOS DEBATIRÁN EN BILBAO SOBRE LOS RIESGOS DE INUNDACIONES DENTRO DEL PROYECTO EUROPEO FLOOD-SERV	Bilbao 24 horas	http://bilbao24horas.com/una-treintena-de-expertos-europeos-debatiran-en-bilbao-sobre-los-riesgos-de-inundaciones-dentro-del-proyecto-europeo-flood-serv/	26 October 2017
Bilbao	Expertos analizan en Bilbao la gestión del riesgo de inundaciones y	Eldiario.es	http://www.eldiario.es/norte/euskadi/Expertos-analizan-Bilbao-inundaciones-	26 October 2017

Partner	Title of the media item	Media	URL	Date
	la adopción de medidas preventivas		preventivas_0_701330 125.html	
Bilbao	UNA TREINTENA DE EXPERTOS EUROPEOS DEBATIRÁN EN BILBAO SOBRE LOS RIESGOS DE INUNDACIONES DENTRO DEL PROYECTO EUROPEO FLOOD-SERV	NoticiaPress. es	https://www.noticiaspress.es/2017/10/una-treintena-de-expertos-europeos-debatiran-en-bilbao-sobre-los-riesgos-de-inundaciones-dentro-del-proyecto-europeo-flood-serv/	26 October 2017
BSK	"Rozvoj povodňového výstražného servisu"	Webnoviny	https://www.webnoviny.sk/bsk-rozvoj-povodnoveho-vystrazneho-servisu/	27 October 2017
BSK	"Rozvoj povodňového výstražného servisu"	Dobré noviny	https://www.dobrenoviny.sk/c/114639/rozvoj-povodnoveho-vystrazneho-servisu	27 October 2017
GENOVA	ARCHITETTURA LANCIA L'APP "MUGUGN.APP"	IL SECOLOXIX Regional newspaper	http://www.agenziaefficienzaenergetica.it/area-riservata/rassegna-stampa-enea/rassegna-stampa-archivio/anno-2017/dicembre-2017/Rassegna%20stampa%20del%2003_12_2017.pdf	3 December 2017
GENOVA	GENOVA – LA PRIMA FASE DEL PROGETTO SPERIMENTALE FLOOD-SERV	giornalino ORDINE degli INGEGNERI di Genova	n/a	
Gov2u	The 4th Issue is	*Joinup*	https://joinup.ec.europa.eu/news/4th-issue-	18 May 2018

Partner	Title of the media item	Media	URL	Date
	out! **FLOOD-serv Project - Newsletter Issue**	*platform*	out	
BSK	Úrad aktívne rieši záplavy na Mrázovej ulici/The Office actively solve the floods on Mrázova Street	Website of Mestská časť Bratislava – Rača Web (city district Rača)	https://www.raca.sk/urad-aktivne-riesi-zaplavy-na-mrazovej-ulici/	17 August 2017
BSK	Kraj súčasťou projektu výstražného povodňového systému/The region as a part of a flood warning system project	Senecko (Regional newspaper)	https://issuu.com/regionpress.senecko/docs/sc1739	29 September 2017
BSK	Barbora Lukáčová: Budúci rok bude v téme smart pre bratislavský región kľúčový/Barbora Lukáčová: The next year will be the key in the smart theme for the Bratislava region	Startitup website	https://www.startitup.sk/barbora-lukacova-buduci-rok-bude-v-teme-smart-pre-bratislavsky-region-klucovy/	12 October 2017
BSK	BSK: Rozvoj povodňového výstražného servisu/ BSK: Development of the flood warning service	Webnoviny website	https://www.webnoviny.sk/bsk-rozvoj-povodnoveho-vystrazneho-servisu/	27 October 2017
Gov2u	FLOOD-serv	COMRADES Project website	https://www.comrades-project.eu/related-projects/82-flood-serv.html	18 July 2018

Partner	Title of the media item	Media	URL	Date
Gov2u	COMRADES and FLOOD-serv liaison	COMRADES Project website	https://www.comrades-project.eu/news/86-comrades-and-flood-serv-liaison.html	24 July 2018
	FLOOD-serv Public FLOOD Emergency and Awareness SERVice	Big Policy Canvas website	https://www.bigpolicycanvas.eu/projects/flood-serv	
Gov2u	We are happy to #announce the establishment of a #cooperation among our project, the @comradesproject , and the @FLOODservEU.	COMRADES Twitter account	https://twitter.com/comradesproject/status/1022061193643601920	25 July 2018
Gov2u	Bratislava's Pilot: Sensors Installation for protecting the area from floods	COMRADES Facebook page	https://www.facebook.com/comradesproject/posts/1865414933496924?__tn__=-R	25 July 2018
Gov2u	COMRADES and FLOOD-serv Liaison	COMRADES Facebook page	https://www.facebook.com/comradesproject/posts/1865350506836700?__tn__=-R	25 July 2018
Gov2u	FLOOD-serv welcomes the COMRADES project to it network	COMRADES Facebook Page	https://www.facebook.com/comradesproject/posts/1855588887812862?__tn__=-R	25 July 2018
Exdwarf	FLOOD-serv - Public FLOOD Emergency and Awareness SERVice	European Innovation Partnerships for Water, Guido Schmidt, EIP Water Secretariat	https://www.eip-water.eu/projects/flood-serv-public-flood-emergency-and-awareness-service	

Partner	Title of the media item	Media	URL	Date
		Homepage, newsletter (ca 5000 recipients)		
Exdwarf	Projekt FLOOD-serv so slovenskou účasťou (Project FLOOD-serv with Slovak participants)	SLOVAK CENTRE OF SCIENTIFIC AND TECHNICAL INFORMATION, Iveta Hermanovska Homepage & newsletter	http://h2020.cvtisr.sk/sk/aktuality/projekt-flood-serv-so-slovenskou-ucastou.html?page_id=3497	
MUNICIPALITY OF GENOA	"Partecipa al test del progetto europeo Flood-Serv" Info pannel	Video pannel c/ Unige DAD		
Gov2u	FLOOD-serv welcomes the COMRADES project to its network	Mobile Age Facebook Page	https://www.facebook.com/mobileageeu/posts/924057291135663?__tn__=-R	19 July 2018
Gov2u	FLOOD-serv join forces with ENLARGE	Mobile Age Facebook Page	https://www.facebook.com/mobileageeu/posts/923808657827193?__tn__=-R	19 July 2018
Gov2u	UAVs and FLOOD-serv testing in Bratislava	Mobile Age Facebook Page	https://www.facebook.com/mobileageeu/posts/904260833115309?__tn__=-R	29 June 2018

Organization of Events

Partner (s)	Name of the event	Date	Location	Description of the event
BSK, Exdwarf	FLOOD-serv Technical workshop	19.-20 September 2017	Bratislava, Slovakia	Technical workshop with the stakeholders of Bratislava district Rača and Devín/outcomes: finding solutions for those district relating to the awareness system
BSK	Bratislava Smart region conference	17 November 2017	Bratislava, Slovakia	Conference was aimed for joining people who can bring a SMART solution for the better life in Bratislava self-governing region/outcome: information about the realization of the FLOOD-serv project in BSK
MUNICIPALITY OF GENOA	PARTECIPAZIONE ALLA PREVENZIONE E ALLA GESTIONE DEL RISCHIO IDROGEOLOGICO A GENOVA in collaboration with UNIGE - DAD	13 February 2018	UniGe - DAD	Dissemination of the Pilot project to SENIORITY People (UNITE: UNIVERISTY OF THE THIRD AGE)

Communication with Stakeholders

Partner (s)	Name of contact	Date	Reason of communication	Activity description
Exdwarf	Boris Kovac, Slovak Water Institute (SVP) Email and call	02 May 2018	Status of stakeholder's engagement in pilot	Stakeholders interested in testing and piloting
Exdwarf	Peter Pilinsky, Mayor Bratislava Raca Email	08 June 2018	Communication during flood in Raca, drone monitoring of flood areas	Mayor asked for drone monitoring
Exdwarf	Pohoda festival, NGO management Email	27 June 2018	Flood-serv promotion possibilities	Possibility to distribute flyers, take part in EU and science related discussions
Exdwarf	Adssen.eu: Miroslav Konecny, Senior Project Management Email	30 January 2018	Flood-serv promotion possibilities and collaboration with Adseen's running projects	Recommended to approach EIP water in Vienna Austria
IP Tulcea	Mayors and representatives of all public institutions form Tulcea county	11 Dec 2017	Trimestral meeting of the Prefectural College	Discussions and inform the audience about major problems and events dissemination of best practices in administration

Face to face meetings (direct contact with stakeholders)

Partner (s)	Name of contact	Date	Venue/location of the meeting	Activity description

Partner (s)	Name of contact	Date	Venue/location of the meeting	Activity description
BSK	Slovak water management enterprise, BSK, PDAwin Ltd. (Face to face meeting)	14 June 2018	BSK, Sabinovská street Nr. 12, Bratislava, Slovakia	Searching for the appropriate installation of measuring stations/outcome: installation 2 pieces of the water gauges
Exdwarf	Citizens, activists, festival visitors	6-7.July 2018	Trencin Airport, festival Pohoda, Café Europa: "Oplati sa nam EU" discussion	Promotion of Flood-serv project, EU projects discussion, distribution of project leaflets
Exdwarf	NGOs	6-7.July 2018	Trencin Airport, festival Pohoda, NGO Passage	Promotion of Flood-serv project: Distribution of project leaflets
Exdwarf	Valeria Wendlova, External Hydrologic Advisor (SHMU)	10 May 2018	SHMU office Bratislava	Advisory meeting aimed at data sources specification, inputs for EMC, sensoric data and visualization of data
Exdwarf	Simona Leibovich, Project Manager – EU Programmes Tel Aviv Municipality	24 January 2018	Tel Aviv Municipality, Israel	Presentation of Floodserv project, collaboration and testing for Tel Aviv emergencies (floods and types prevalent in Israel), Solution raised interest (esp.social media, EMC), interest in knowing the use cases how to use the platform.

Partner (s)	Name of contact	Date	Venue/location of the meeting	Activity description
Exdwarf	Bruria Adini, PhD, Gili Shenhar, EMBA (Department for emergency and disaster management) Tel Aviv University	25 January 2018	Tel Aviv University, Department for emergency and disaster management, School of Public Health, Israel	Exploitation possibilities: Presentation of Floodserv project, discussed possible collaboration during pilot/testing and afterwards Gained insights about emergency apps in Israel (buzlla for social media, reporty – app for municipalites etc.). Interesed in testing the platform with Herbrev localization.
Exdwarf	Peter Beno, NCP SLOVAK CENTRE OF SCIENTIFIC AND TECHNICAL INFORMATION	10 May 2018	Consultation regarding possible dissemination via NCP Slovakia	Recommendation of dissemination channels within Slovak academia
CMVNF	CCOD- District Operational Coordination Center - meeting	07 March 18	Vila Nova de Famalicão	Project presentation
Answare-Tech	INFO - Development Institute of the Region of Murcia – Joaquín Gómez Gómez (Director)	05 December 2017	Answare Office: Campus Universitario de Espinardo, 7 CEEIM. Módulo 20. - 30100 Murcia (Spain)	Flood-serv presentation. With the aim to provide Flood-serv with visibility at regional level, Answare presented the main objectives and achievements of the project to the Director of the INFO, who is the responsible for funding innovative projects in the Region of Murcia.
Answare	Alterna Tecnologías	18	Alterna	Flood-serv presentation.

Partner (s)	Name of contact	Date	Venue/location of the meeting	Activity description
-Tech	S.L.- Francisco Javier Sigüenza Martínez (Director)	December 2017	Tecnologías Office: Plano de San Francisco, 4, 30004, Murcia (Spain)	Alterna is the company which is now implementing the emergency management software to the 112 Service in Murcia. They provided Answare with some feedback about the EMC and they are interested in the possible exploitation of the EMC.
Answare -Tech	Alterna Tecnologías S.L.- José Miguel García López (Project Manager)	20 February 2018	Alterna Tecnologías Office: Plano de San Francisco, 4, 30004, Murcia (Spain)	Demonstration of the current status of the EMC. They are interested in the exploitation of an adapted version of the EMC as a municipal garden management console.
Answare -Tech	Alterna Tecnologías S.L.- Francisco Javier Sigüenza Martínez (Director) and José Miguel García López (Project Manager)	05 March 2018	Alterna Tecnologías Office: Plano de San Francisco, 4, 30004, Murcia (Spain)	Demonstration of the Decision support system module integrated in the EMC. Definition of their requirements for the municipal garden management console.
Answare -Tech	Alterna Tecnologías S.L.- José Miguel García López (Project Manager)	12 July 2018	Alterna Tecnologías Office: Plano de San Francisco, 4, 30004, Murcia (Spain)	Definition of new functionalities and changes for the municipal garden management console.

Collaboration with other Projects

The following table presents the collaborations established (liaison) with other local or EU funded projects similar with the topic of the FLOOD-serv that helped in raising the visibility of the project and approaching more audience.

Partner	Project	Description	Contact person
Gov2u	**POWER**	The project "Political and sOcial awareness on Water EnviRonmental challenges" (POWER) is an EU funded project under the call H2020 call which started in December 2015. It supports cities throughout the world to improve their water management to modifications caused by climate change and urbanisation. The project aims to set up an interactive Digital Social Platform (DSP) for the expansion and governance of existing water networks. This is reached by engaging on a large scale with stakeholders in the co-creation and delivery of digital products and services to citizens involving awareness-raising, new policy initiatives and deployment. **Website: www.power-h2020.eu**	*__Project Officer:__* Madlie Le Bihan *__e-mail:__* m.lebihan@climatealliance.org
Gov2u	**ENLARGE**	ENLARGE focuses on the effectiveness, legitimacy, and institutional sustainability of collaborative processes in the field of sustainable energy. The project brought together representatives of over 31 real-life cases from the whole enlarged Europe, to discuss their experiences – particularly the factors that hindered or favored the collaborative processes they worked on.	*__Coordinator:__* Erica Melloni *__e-mail:__* emelloni@irsonline.it

Partner	Project	Description	Contact person
		Website: www.enlarge-project.eu	
Gov2u	**COMRADES**	COMRADES is creating a community resilience platform to help communities to reconnect, respond and recover from crisis events (e.g. floods, hurricanes, earthquakes, wildfires etc.). The platform will encourage community-wide participation, by enabling local (communities in crisis zones) and remote (digital activists and responders) individuals and communities to come together and share knowledge through their crises reports (community reporters), to produce and access filtered and quality collective information, and to be connected with others based on emergency needs and offers. The project has received funding from the European Union's Horizon 2020 research and innovation programme. Website: www.comrades-project.eu	_Coordinator:_ Harith Alani _e-mail:_ h.alani@open.ac.uk
MUNICIPALITY OF GENOA	Projects: "Resilienza 141" and "Apri la porta alla PRTEZIONE CIVILE"	The goal of the project is to rise the security level of people who lives in hazardous territorial areas not through structural and technical but social intervention, thanks to the activities of the Volunteers of the National Civil Service. The specific goal is to made a catalogue of the vulnerable basement, ground floors and first floor apartments in building	Corrado Ragucci

Partner	Project	Description	Contact person
	(Funds by Department of Youth – National Civil Service – Presidenza del Consiglio	built in R4 risk Area of the City, through interviews and involvement of the citizen	
MUNICIPALITY OF GENOA	"Genova e il rischio idrogeologico"	The goal of the activities is to rise the awareness of yang peopleabout the hidrological risck. Moreover, through the "walks around the Bisagno river" to explane the fragility of the territory. Exhibition & workshop From 15/01 to 23/03/18 Open walk 21/04/2018	Lega Ambiente Liguria" S.Grammatico Presidente
MUNICIPALITY OF GENOA	"Esercitazini per le scuole" (square-bashing for schools)	The goal of the activity is to rise the knowledge of the behaviors to adopt in case of emergency, of children and students	Municipality of Genoa – Civil protection
MUNICIPALITY OF GENOA	"Genova resiliente: Corso di formazione in materia di protezione civile per addetti al commercio"	The goal of the training is to rise the awareness of the civil protection items and the behaviors that people have to adopt in emergency situation 28/05 and 25/06/ 2018	Municipality of Genoa – Civil protection

CELLENT has elaborated for each WP3 workshop a teaser and photos for publication of the workshop activities in Facebook.

4   Risks, Current problems, Expected Delays or Issues

4.1 Project risks evaluation

Risk	Mitigation strategy	WP	Status
A project partner fails to deliver or withdraws from the project	Project management oversight will be continuous. Failure of individual participants will lead to immediate assessment of current partner capabilities and reassignment of tasks. Consortium partners have an adequate range of capabilities and can take over other tasks if necessary. The take-up of tasks by other partners or new partners with the required expertise should be decided, if it will be the case.	WP1	Open
Possible deliverable or milestone delays during the project	Quarterly progress reports will be used as a data point for estimating the appropriate resources and the suitability of the project scheduling. If necessary, time-line schedule changes and dynamic task reassignments, within the resources availability of the project will be decided.	WP1	Open Delays in receiving feedback and input from the partners on WP's.
Lack of communication and coordination among tasks and partners	Many virtual meetings will be envisioned to encourage effective communication among partners; the use of mailing lists and project repository tools will allow an easy issue tracking.	WP1	Open Deliverables within one WP are not correlated with deliverables within the other WP. WP leaders need

			to integrate better results from their WP with input from other WP.
Difficulties from the WP2 partners in understanding the leader's requirements or deadlines	Make use of all the communication tools to explain in particular or in group call -conf the tasks, the structure of the deliverable, the content.	WP2	Closed
The potential overlaps with WP4 and its implication on the software development	It will be rather difficult to avoid overlapping efforts and to minimize its impact on the architecture and development of the system Therefore an immediate effort must be made to coordinate both work packages, otherwise they may drift apart	WP3	Closed
Not all the requirements will be captured during analyze phase or evaluated improperly	Iterative approach regarding requirement collection and validation with public authorities. The public authorities will collaborate close with technical partners for collection and validation of the requirements with end users. Resolving inconsistencies of interpretation to higher levels of project management (Project Steering Committee) by bilateral agreement in order to avoid a big effort rework	WP4	Closed
Defining usability and interface requirements are closed depending by the input received	The results from WP3 and especially from D3.1 will be closely evaluated in terms of the needed input for D4.1.	WP4	Closed

from D3.1 User requirements Analysis			
Integrated platform is off-spec relative to the initial design of the prototype or fails performance and functionality testing	Development will have a constant oversight and quality controls. A rigorous testing and software quality control framework will be designed as a separate task and used for continuous testing and adaptations of the FLOOD-serv platform. The technical partners will carry out constant tests during the solution integration phase to ensure that all services and components can be deployed.	WP4	Closed
FLOOD-serv functionalities too complex for end-users	The project consortium includes partners who are targeted end-users. Their advice and feedback will ensure that the technology is steered in the direction that matches the interests of potential end users. Engagement of intended end-users in the software development lifecycle, baked into the value case, scoping, requirements, design and testing of solution will keep this risk to a minimum.	WP4	Closed
Market developments that may impact the exploitation potential of the FLOOD-serv system	Monitoring of similar solutions and improvement of the proposed technical solution to allow competitive advantage for FLOOD-serv. Brainstorming sessions for innovative ideas will be organized if necessary.	WP4	Closed

Performance problems at high volume of data	Performance tests in the early stages of the project	WP4	Closed
A project partner fails to deliver the assumes work within the WP or withdraws from the project	Project management oversight has to be continuous. Failure of individual participants will lead to immediate assessment of current partner capabilities and reassignment of tasks. Consortium partners have an adequate range of capabilities (including academic, technical, dissemination, etc.) and can take over tasks if necessary. The take-up of tasks by other partners or new partners with the required expertise should be decided.	WP5	Open
Market developments that may impact the exploitation potential of the FLOOD-serv system	Monitoring of similar solutions and improvement of the proposed technical solution to allow competitive advantage for FLOOD-serv. Brain storming sessions for innovative ideas will be organized if necessary.	WP6	Open
Dissemination plans fail to reach target groups, or Sustainability and Exploitation plan cease to be relevant or achievable.	The Consortium will continuously observe possible dissemination targets and exploitation routes, and will review the planed dissemination activities.	WP6	Open
Low quality or low quantity of participation of the members of the Community of Interest	Continuous review and the updates of the D6.1: Community of Interest Build-up & Engagement Strategy. **A contingency plan for Community of Interest engagement**, to be activated in case of unsuccessful quantity and quality of engagement, will be presented in the deliverable D6.3: First Communication and Dissemination Report & Updated Plan (Month 19). Corrective actions may be:	WP6	Open

	- Application of additional outreach channels and tools. - Enhanced effort through direct contacts with networks and collaborators of FLOOD-serv partners - Use of additional tools for unsolicited and requested feedback from the members of the Community of Interest		

4.2   Current problems, Expected Delays or Issues

4.2.1   WP1

There was 1 deliverable delayed, the current document, The implementation of the project activities was not affected.

4.2.2   WP3

There are no current problems, expected delays or issues

4.2.3   WP4

There was one deliverable delayed D 4.5., due to difficulties in the partners components integration as the technology used for the platform development was changed and consistent adjustments needed to be done in order to get aligned to the developed components.

The technical leader from SIVECO coordinated with the technical persons from each component provider. A lot of technical meetings (zoom meetings, call conferences) were organized by SIVECO technical leader to provide the needed explanations and clarifications to avoid misunderstandings and delays. Real time developments were done followed by QA sessions to react quickly to any bug or bug fixing appearing and to diminish the development time.

4.2.4   WP5

Piloting was delayed as a result of the above mentioned delays recorded in WP4.

Each piloting phase was preceded by at least 1 technical training session per component to ensure a very good understanding of the way the components and the platform work and to support the piloting phases. There were situations in which more such sessions were organized to cover all the needed audience and a better understanding of the things presented. SIVECO coordinated all the piloting sessions together with the respective deliverable responsible and offered support in analyzing all the received information. SIVECO made also a plan before each piloting phase, presented it during a zoom meeting to each pilot city, provided explanations and guidelines for a quicker and better piloting phase development.

4.2.5   WP6

The WP leader could not develop consistent dissemination activities, as there was a less involvement in such activities at Consortium level. The statement refers to the dissemination activities done in the 2nd year as compared to the 1st year of the project for some partners. The dissemination activities followed Annex 1. The activities developed targeted mainly the media coverage and participation in 3rd party's events, face to face meetings and communication with stakeholders, written articles, communication with stakeholders.

Regarding media coverage and participation in 3rd party's events, the partners who can stand out on these are : Bilbao, BSK, EXDWARF, GOV2U, GENOVA, SIVECO, IP TULCEA, ANO.

GENOVA, EXDWARF, BSK, ANSWARE brought important contribution on the communication with stakeholders activity.

Another dissemination activity which was developed by ANSWARE and GOV2U refers to the collaboration with other projects.

Face to face meetings, articles written for website project news were done by almost all partners.

More details on the dissemination activities done in the 2nd year by each partner can be found in the dissemination deliverable D 6.6. as follows:

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-Articles written for website's project news-TABLE 5

-Collaboration with other projects-TABLE 22

-Face to Face Meetings- TABLE 23

-Communication with stakeholders- TABLE 23

-Organization of events - TABLE 20

-Participation in third party events - TABLE 21

-Media Coverage* - TABLE 24

-Communication Activities in partners' channels** - TABLE 25

-Publications - TABLE 26
```

5   Use of resources on each WP

5.1   WP1 - Project management and coordination

5.1.1   WP1 planned effort for all project period

Partner	Task1.1	Task1.2	Task1.3	Total per partner
SIVECO	6	6	6	18
CELLENT	21	12	0	3
ANSWARE	0,5	0,5	0	1
GOV2U	0,5	0	0,5	1
GENOVA	0,5	0	0,5	1
DDNI	0,5	0	0,5	1
BILBAO	0,5	0	0,5	1
ANO	0,5	0,5	0	1
Exdwarf	0,5	0,5	0	1
IP Tulcea	1	0	1	2
BSK	0,5	0	0,5	1
CMVNF	0,5	0	0,5	1

5.1.2   WP1 consumed effort in period August 2017-July 2018

Partner	Task1.1	Task1.2	Task1.3	Total per partner
SIVECO	4	2	2	8
CELLENT	0,96	0,17	0	1,13
ANSWARE	0,2	0,2	0	0,4
GOV2U	0,33	0	0	0,33
GENOVA	0,13	0	0,16	0,29
DDNI	0	0	0	0
BILBAO	0	0	0,35	0,35
ANO	0,15	0,05	0,10	0,30
Exdwarf	0,10	0,10	0	0,20
IP Tulcea	0	0	0	0

BSK	0	0	0	0
CMVNF	0,17	0	0,18	0,35

5.2 WP2- Comparative study and analysis on flood risk management public services in the selected regions

5.2.1 WP2 planned effort for all project period

Partner	Task2.1	Task2.2	Task2.3	Total per partner
SIVECO	1	3	1	5
CELLENT	0	1	0	1
ANSWARE	0	0	0	0
GOV2U	0	0	0	0
GENOVA	2	1	0	3
DDNI	2	1	1	4
BILBAO	2	1	1	4
ANO	0	1	0	1
Exdwarf	1,5	1,5	1	4
IP Tulcea	10	4	4	18
BSK	1	0	0	1
CMVNF	0	0	0	0

5.2.2 WP2 consumed effort in period August 2017-July 2018

Partner	Task2.1	Task2.2	Task2.3	Total per partner
SIVECO	0	0	0	0
CELLENT	0,96	0,17	0	1,13
ANSWARE	0	0	0	0
GOV2U	0	0	0	0
GENOVA	0	0	0	0
DDNI	0	0	0	0
BILBAO	0	0	0	0
ANO	0	0	0	0
Exdwarf	0	0	0,10	0,10

IP Tulcea	0	0	0	0
BSK	0	0	0	0
CMVNF	0	0	0	0

5.3 WP3-Development of FLOOD-serv system components

5.3.1 WP3 planned effort for all project period

Partner	T3.1	T3.2	T3.3	T3.4	T3.5	T3.6	T3.7	T3.8	T3.9	Total per partner
SIVECO	1	0	0	0	1	1	10	1	1	15
CELLENT	4	1	1	1	8	1	0	1	1	18
ANSWARE	0	2	2	2	0	6	0	1	1	14
GOV2U	0	0	0	0	0	0	0	0	0	0
GENOVA	1,5	0	0	0	1	0,5	0	0,5	0	3,5
DDNI	0,5	0	0	0	0	0,5	0	0	0	1
BILBAO	0,5	0	0	0	0	0,5	0	0	0	1
ANO	0	0	0	1	1	1	1	8	5	17
Exdwarf	3	0	0	0	1	0,5	0,5	0,5	0,5	6
IP Tulcea	5	0	0	0	1	1	1	1	1	10
BSK	0,5	0	0	0	0,5	0	0	0	0	1
CMVNF	0,5	0	0	0	0,5	0	0	0	0	1

5.3.2 WP3 consumed effort in period August 2017-July 2018

Partner	T3.1	T3.2	T3.3	T3.4	T3.5	T3.6	T3.7	T3.8	T3.9	Total per partner
SIVECO	0	0	0	0	0	0	6	0	0	6
CELLENT	0	0	0	0	9,30	0	0	0	0	9,30
ANSWARE	0	0	0	0	0	8	0	0	0	8

GOV2U	0	0	0	0	0	0	0	0	0	0
GENOVA	0	0	0	0	0,64	0,40	0	0	0,32	1,36
DDNI	0	0	0	0	0, 30	0,20	0, 20	0,30	0,20	1,20
BILBAO	0	0	0	0	0	0,50	0	0	0	0,50
ANO	0	1	1	0	0	0	0	3,70	9,50	15,20
Exdwarf	0	0,50	0,50	0,30	0,70	0,10	0,10	0,10	0,10	2.4
IP Tulcea	5	0	0	0	1	1	1	1	1	10,00
BSK	0	0	0	0	0	0	0	0	0	0
CMVNF	0	0	0	0	0	0	0	0	0	0

5.4 WP4 - FLOOD-serv collaborative and personalized citizen-centric platform

5.4.1 WP4 planned effort for all project period

Partner	Task4.1	Task4.2	Task4.3	Task4.5	Task4.5	Total per partner
SIVECO	6	6	6	15	13	46
CELLENT	1	0	1	0	1	3
ANSWARE	1	1	1	0	2	5
GOV2U	0	0	0	0	0	0
GENOVA	1,5	2	0	0	0	3,5
DDNI	0	1	0	0	0	1
BILBAO	1		0	0	0	1
ANO	1	1	2	0	4	8
Exdwarf	0	1	2	0	0	3
IP Tulcea	5	5	0	0	0	10
BSK	1	0	0	0	0	1
CMVNF	0	0	0	0	0	0

5.4.2 WP4 consumed effort in period August 2017-July 2018

Partner	Task4.1	Task4.2	Task4.3	Task4.4	Task4.5	Total per partner

SIVECO	0	0	0	16	14	30
CELLENT	0	0	0	1,33	0,48	1,81
ANSWARE	0	0	0	0	2	2
GOV2U	0	0	0	0	0	0
GENOVA	0	0	0	0	0	0
DDNI	0	0	0	0	0	0
BILBAO	0	0	0	0	0	0
ANO	0	0	0,30	0	1,40	1,70
Exdwarf	0	0,70	0,80	0	0	1,50
IP Tulcea	5	5	0	0	0	10,00
BSK	0	0	0	0	0	0
CMVNF	0	0	0	0	0	0

5.5 WP5 - Verification, Piloting, Evaluation and Validation

5.5.1 WP5 planned effort for all project period

Partner	T5.1	T5.2	T5.3	T5.4	T5.5	T5.6	T5.7	T5.8	T5.9	Total per partner
SIVECO	3	2	0.5	1	0.5	0.5	0.5	3	1	12
CELLENT	2	1,5	0.5	0.5	0.5	0.5	0.5	1	1	8
ANSWARE	2	2	1	1	4	1	1	4	2	18
GOV2U	0	0	0	0	0	0	0	0	0	0
GENOVA	1	1	9	1	1	1	1	2	3	20
DDNI	0.5	0.5	5	0.5	0.5	0.5	0.5	1	3	12
BILBAO	0.5	0.5	0.5	0.5	4	0.5	0.5	1	1	9
ANO	0.5	0.5	0	0	0.5	0	2	1	0.5	5
Exdwarf	0	0	0	0	0	4	0	1	1	6
IP Tulcea	0.5	0.5	6	0	0	0	0	1	2	10
BSK	0.5	1	0	0	0	6	0	1	1.5	10
CMVNF	0.5	1	0	0	0	0	6	1	1.5	10

5.5.2 WP5 consumed effort in period August 2017-July 2018

Partner	T5.1	T5.2	T5.3	T5.4	T5.5	T5.6	T5.7	T5.8	T5.9	Total per partner
SIVECO	3,8	0	0	0	0	0	0	0	0	3,8
CELLENT	4,03	1,49	0	0	0	0	0	0	0	5,52
ANSWARE	2	5	0	0	0	0	0	0	0	7
GOV2U	0	0	0	0	0	0	0	0	0	0
GENOVA	1,001	1,001	2,4	0,27	0,27	0,27	0,27	0	0	5,482
DDNI	0	0,30	1,35	0,30	0	0	0	0	0	1,95
BILBAO	0,50	0	0	0	0	0	0	0	0	0,50
ANO	1	1	0,10	0,10	0,10	0,10	0,10	0	0	2,50
Exdwarf	1,70	4,20	0	0	0	1	0	0	0	6,90
IP Tulcea	0,50	0,50	6	0	0	0	0	0	0	7,00
BSK	0	0	0	0	0	0.50	0	0	0	0.50
CMVNF	0,17	0,32	0	0	0	0	1,80	0,32	0,46	3,07

5.6 WP6-Stakeholders Engagement, Dissemination and Exploitation

5.6.1 WP6 planned effort for all project period

Partner	T6.1	T6.2	T6.3	T6.4	T6.5	Total per partner
SIVECO	0	0	3	0	1	4
CELLENT	0	0	3	0	2	5
ANSWARE	0	0	0,5	0	0,5	1
GOV2U	4	4	8	4	4	24

GENOVA	0	0,25	4,5	0,25	1	6
DDNI	0		1	1	1	3
BILBAO	0	0,25	0,25	0,25	0,25	1
ANO	0		0,5		0,5	1
Exdwarf	0	0,25	3,5	0,25	1	5
IP Tulcea	0	1	5	2	2	10
BSK	0	0	0	0	0	0
CMVNF	0	0,25	2,5	0,25	1	4

5.6.2 WP6 consumed effort in period August 2017-July 2018

Partner	T6.1	T6.2	T6.3	T6.4	T6.5	Total per partner
SIVECO	0	0	0,6	0,6	0	
CELLENT	0	0	0	0	0,08	0,08
ANSWARE	0	0	0,3	0	0,3	0,6
GOV2U	0,70	0,90	3,28	0,5	2,3	7,68
GENOVA	0	0,04	1,45	0,007	0,31	1,807
DDNI	0,30	0	0,30	0,30	0	0,90
BILBAO	0	0	0,05	0,17	0,17	0,39
ANO	0,05	0,10	0,05	0,1	0	0,30
Exdwarf	0	0,30	0,50	0	0,50	1.30
IP Tulcea	0	0,30	1	1	1	3,30
BSK	0	0	0	0	0	0
CMVNF	0	0,09	0,83	0,08	0,33	1,33

In order to get a better overview of the remaining effort for the last year of the project, please find below the presentation in % of the effort done in each of the first 2 years of the project and the effort in % left for the 3rd year.

Partner	Planned effort (PM)	Consumed effort in Y 1 (%)	Consumed effort in Y 2 (%)	Remaining effort for Y 3
SIVECO	100	43.54%	47.80%	8.66%
CELLENT	38	31.21%	46.95%	21.84%
ANSWARE	39	36.15%	46.15%	17.69%
GOV2U	25	37.08%	27.44%	35.48%
GENOVA	37	28.76%	25.03%	46.22%
DDNI	22	26.23%	42.27%	31.50%
BILBAO	17	37.06%	13.76%	49.18%
ANO	33	56.06%	60.61%	-16.67%
EXDWARF	25	55.36%	50.40%	-5.76%
IP TULCEA	60	49.43%	20.97%	29.60%
BSK	14	37.86%	19.64%	42.50%
CMVNF	16	16.69%	29.75%	53.56%

6   Other direct costs

ANO	Cost (€)	Justification
Travel	1.405,47	
Equipment	15.052,49	
Other goods and services		
Total **16.457,96**		

BILBAO	Cost (€)	Justification
Travel		
Equipment		
Other goods and services		
Total **0**		

BSK	Cost (€)	Justification
Travel	1.763,67	Social Media Training, Vienna, Aug. 2018 1st Review Meeting, Bilbao Oct. 2017
Equipment	31.800,00	4 sensors: 2 rainfall gauges, 2 water gauges
Other goods and services	666,48	Organization of Technical workshops , Bratislava Oct. 2017
Total **34.230,15**		

CELLENT	Cost (€)	Justification
Travel	1.317,23	Workshop in Batislava (19.9.-20.9.2017) and Review meeting in Bilbao (25.10.-28.10.2018)
Equipment		
Other goods and services		
Total **1.317,23**		

CMVNF	Cost (€)	Justification
Travel	1.510,00	1st Review Metting - Bilbao
Equipment		
Other goods and services		
Total	**1.510,00**	

DDNI	Cost (€)	Justification
Travel	2.445,10	Workhops, Project Meetings and Conferences
Equipment	2.964,60	Laptop
Other goods and services	2.006,20	Organizing Project Meeting in Tulcea
Total	**7.415,90**	

EXDWARF	Cost (€)	Justification
Travel	4.014,53	Review meeting 3 person, dissemination & exploitation travel (Bilbao, Tel Aviv)
Equipment	2.660,86	Drone equipment, smartphone
Other goods and services	520,25	Collaboration SW fees (MS office, Zoom), drone support service
Total	**7.195,64**	

GENOVA	Cost (€)	Justification
Travel	2.391,40	Meeting Bilbao
Equipment		
Other goods and services		
Total	**2.391,40**	

GOV2U	Cost (€)	Justification
Travel	264,37	Project presentation -Brussels
Travel	607,18	Project meeting- Bilbao
Equipment	12,10	Promotional materials

Total	**883,65**	

IP Tulcea	Cost (€)	Justification
Travel	4.750,00	Review meeting in Bilbao- 26,27 Oct 2017
Equipment		
Other goods and services		
Total	**4.750,00**	

ANSWARE	**Cost (€)**	**Justification**
Travel	547,21 €	Review in Bilbao
Equipment	2683,06 €	3 laptops
Other goods and services		
Total	**3230,27**	

7 Conclusions

Communication between partners should revive in order to have a transparency of the results obtained. Collaboration between partners should be encouraged as there is the only key to getting the foreseen results.

The delays must be recovered in order to reach the project's goals.

Significant effort must be done for developing the pilots as there is a considerable delay in this phase.

Numerous and qualitative dissemination activities must be fulfill especially once the pilots start, as a balance for the first 2 years of the project, especially because in the last year the results can be presented and prepared to be exploited.