Information and Communication Technologies (ICT) Programme

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FI-ADOPT

Deliverable

D3.4 - Technical, Financial and Ethical review results

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Abstract:

This document presents the procedure and results of the technical, financial and ethical review (i.e. after each project batch review). The deliverable is an add-on to the D3.2/D3.3 deliverable providing the final review of the sub-grant projects. Moreover, it provides statistics on the GE and DSEs that were initially planed to be used and the ones that have been actually used by the projects.

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No	Participant name	Participant short name	Country	Country
1	INTRASOFT International SA	ISOFT	Co-ordinator	Belgium
2	INTRASOFT International SA	ISOFT-LU	Contractor	Luxemburg
3	European Centre of Excellence In Media Computing And Communication Ltd	EMC2	Contractor	UK
4	ATOS SPAIN SA	ATOS	Contractor	Spain
5	Universidad Politecnica De Madrid	UPM	Contractor	Spain
6	Synelixis Solutions Ltd	SYN	Contractor	Greece
7	European Alliance For Innovation	EAI	Contractor	Belgium
8	EUROPE UNLIMITED S.A.	EU	Contractor	Belgium
9	PlayGen Ltd	PLAYGEN	Contractor	UK

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Document Revision History

Date	Issue	Author/Editor/Contributor	Summary of main changes
25/04/2016	V0.1	M. Kostoula	First Draft
04/05/2016	V0.2	E. Papadopoulou	Update with final reviews information
04/05/2016	V0.3	M. Kostoula, Th. Zahariadis	Updated with project statistics
06/05/2016	FF	M. Kostoula	Deliverable Finalization
11/07/2016	Update	M. Rodriguez-Hausseguy	Update

Table of contents

1. Introduction

FI-ADOPT (Future Internet Core Platform Adoption and Sustainability Enabler) is one of the A16 accelerator projects that promotes the use and adoption of the EU FP7 Future Internet-Public Private Partnership[1] (FI-PPP) Core Platform, the FIWARE technologies and assets.

The FI-ADOPT project provides financial, technological and business/market uptake support to European SMEs and web entrepreneurs to develop highly innovative applications based on the FI-PPP Core Platform. FI-ADOPT accelerates FIWARE technology in Europe through a set of concrete steps:

- **Launching and executing three open calls** for selecting innovative projects in the application areas of:
  - *corporate and citizen's learning* (on different subjects and levels) and training (including technical training and crisis management, serious games)
  - *improving health and well-being* (through healthy behaviour shaping and promotion)
  - *social and cultural integration* focusing on immigrants and other minorities.

  The scale of adoption of the FI-PPP results, including FIWARE usability, Generic Enablers (GEs), Domain Specific Enablers (DSEs) and testing infrastructures, will be included as evaluation criteria. Besides FI-WARE technology, applications are expected to employ rich media, social networking, and/or mobile apps, gaming principles, gamification, context-awareness, location-awareness, data mining etc.

- **Organizing training events** (offline and online) regarding the results of the FI-PPP, creating the framework for exchanging experience, and suggesting solutions. Besides the FI-ADOPT web site and social media, FI-ADOPT supports a specific platform (http://www.f6s.com/fiware-fiadopt) to enable **knowledge transfer** between FI-PPP partners/projects and web entrepreneurs and among web entrepreneurs to ensure permeation of Future Internet technologies and establishment of sustainable technical support among them.
- **Assisting the selected projects in improving their business** prospects, value proposition and funding access opportunities by organising access to acceleration programs, Go-to-market webinars, **Investor Readiness webinars, and Investment Readiness Programmes (IRP);** and by supporting and inviting them to participate to relevant Venture Capitals Events.
- **Setting up the** "**FI-ADOPT innovation family**", which will include international and national/ regional policy making bodies, user groups, innovation accelerators, investors, small and big ICT players and FI-PPP stakeholders, who will shape the Future Internet application landscape and align their contribution to their common benefits.

Supported by the European Union, the FI-ADOPT project provides to SMEs and web entrepreneurs access to a total grant of 4.240.000 EUROs. The overall financial contribution for each selected project is between 50.000 and 150.000 EUROs. Available funding has been allocated to projects via 3 open calls. In the 1st Open Call 13 projects have been selected and 1.699.578€ have been allocated; in the 2nd Open Call 12 projects have been selected and 1.602.400€ have been allocated; and in the 3rd Open Call 7 projects have been selected and a total of 938.022€ have been allocated.

This deliverable presents the procedure that has been followed for the Technical evaluation of the projects and the results. In more details in chapter 2 it presents the technical evaluation procedure and methodology and in chapter 3 the statistics of the projects, the GEs and DSEs that are mostly used and the reaction of the projects.

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[1] http://www.fi-ppp.eu/

2. FI-ADOPT Reviews procedure

FI-ADOPT run 3 open calls and via a group of external evaluators has selected to support in total 32 sub-projects: 13 from the 1st call, 12 from the 2nd call and 7 from the 3rd Call. To these projects, we have followed a continuous technical, financial and ethical supervision, highlighted by the project reviews.

2.1. Sub-Projects Execution Time

The purpose of the technical reviews is to evaluate the progress of the project development and the adoption of the FIWARE technology (GEs and DSEs utilization).

2.1.1. Supervisor Assignment

For each FI-ADOPT sub-projects a supervisor company and a specific person has been assigned. The duties of the supervisor are to follow on a day by day basis the progress of the project and report any issue or underperforming project. Moreover, the projects have a dedicated person to directly contact if there is a (technical or administrative issue) and s/he would give advice or direct the project to the correct contact point in order to get support.

The assignment of the projects to FI-ADOPT partners has been based on interest on the topic or the project, locality and effort in the relevant WP of the FI-ADOPT project. The assignments are shown in Table 1.

Ref.	Acronym	Name/Leading Individual	Country	Supervisor	FIADOPT Contact Person
101	Parlance	Instronix Limited	UK	EMC2	Fiona Rivera
102	FI-Mirror	Opinyour s.r.o.	Slovakia	EMC2	Fiona Rivera
103	HealthyParks	Innovation Engineering Srl	Italy	EAI	Rastislav Petráš
104	HealthBail	Athens Technology Center S.A.	Greece	ISOFT	BROECHLER Raimund
104	HealthySwaps	RowAnalytics Ltd	UK	PLAYGEN	Kam Star
106	QualiFI	OPTIMUM SA	Greece	SYN	Aikaterini Papadopoulou
107	HEART	Spark Works ITC Ltd (SPARKS)	UK	ISOFT	BROECHLER Raimund
108	MemoryStoria	Georgi ILIEV	UK	PLAYGEN	Kam Star
109	SmartWears	NISSATECH INNOVATION DOO	Serbia	ISOFT	BROECHLER Raimund
110	BREAD	Maria Felicia SANTILLI	Italy	ISOFT	BROECHLER Raimund
111	FI-ARLearning	ENCLAVE FORMACION S.L.	Spain	UPM	David Jiménez
112	Legend	miLeyenda Entertainment SL	Spain	EAI	Rastislav Petráš
113	VREMO	A MEDIDA EMPRESAS S.L.	Spain	UPM	David Jiménez
201	WHITEboard	CONCEPTS AND CREATIONS	UK	EMC2	Fiona Rivera
202	TrainStorm	BRAINSTROM MULTIMEDIA	Spain	SYN	Aikaterini Papadopoulou
203	MigraineNet	WINGS ICT	Greece	ATOS	Ilknur Chulani
204	SPAN	INOSENS	Serbia	ISOFT	BROECHLER Raimund
205	TOPEST	CGAIA	Greece	EMC2	Fiona Rivera
206	PW	DATAWIZARD	Italy	UPM	David Jiménez
207	PAGE	WLAB	Italy	SYN	Aikaterini Papadopoulou
208	Speaky	SPEAKY	Belgium	PLAYGEN	Kam Star
209	Forest112	IRDETEC CONSULTING	Spain	ATOS	Ilknur Chulani

210	Teach by App	E-level Communication S.r.l	Italy	PLAYGEN	Kam Star
211	WORDBUCKET	ENGLISH BUBBLE	Ireland	PLAYGEN	Kam Star
212	Memo24	MEMO24	Poland	EUN	Myrna Rodríguez-Hausséguy
301	3dVET	ACCORD ELECTRONICS	Romania	SYN	Aikaterini Papadopoulou
302	ROGAMO	BrainBotics I/S	Denmark	EUN	Myrna Rodríguez-Hausséguy
303	ATHENA	Metis Baltic Ltd.	Lithuania	SYN	Aikaterini Papadopoulou
304	FAIRVILLAGE	Link srl	Italy	ATOS	Ilknur Chulani
305	BRAIM	Documenta Creaciones Multimedia Avanzadas	Spain	EAI	Rastislav Petráš
306	PitchPoint	A.G.C STUDENT LIFE LTD	Cyprus	EUN	Myrna Rodríguez-Hausséguy
307	NOVIQ	Chaim Maizlits (Team)	Israel	EAI	Rastislav Petráš

Table 1: FI-ADOPT supervisors' assignment

2.1.2. FI-ADOPT innovation family

In order to support the FI-ADOPT community and built an innovation family we have created:

a) **Email lists.** We have created three email lists (namely fiadopt_call1@synelixis.com, fiadopt_call2@synelixis.com, fiadopt_call3@synelixis.com), where the FI-ADOPT consortium and/or the FI-ADOPT projects' participants from each call may exchange information on events or technical issues or problems that may have, potential solution and exchange ideas.

b) **Dedicated section at the 360.eai** to promote the projects and increate the links between the projects. Each participant may announce news or events and could select to contact or to follow specific projects and make liaison activities (Figure 1).
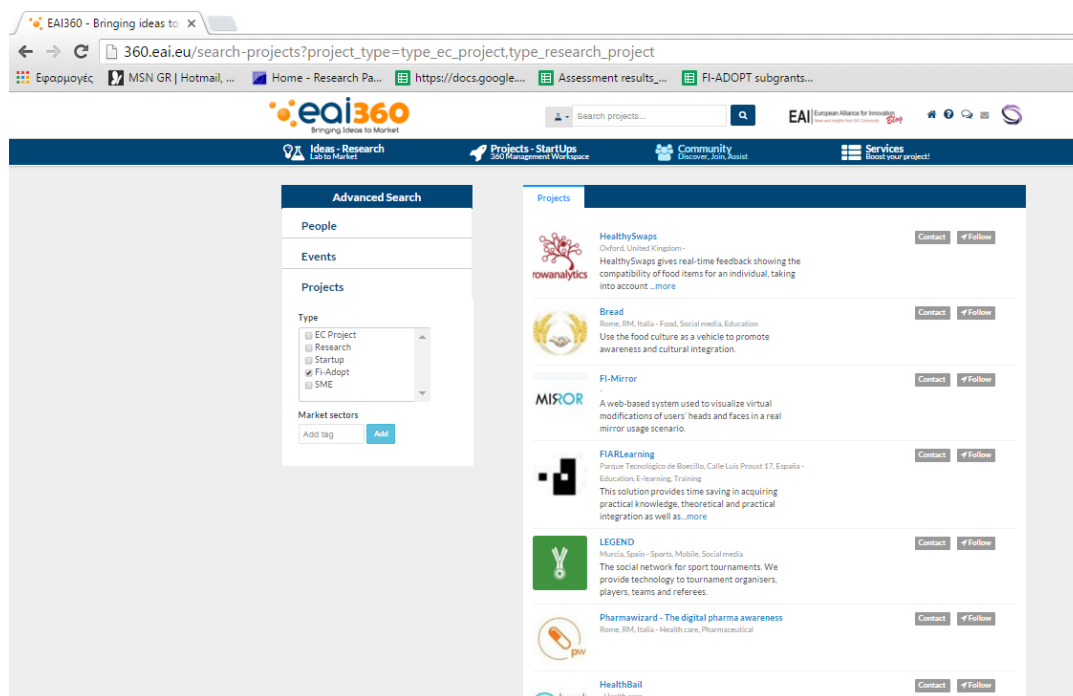

Figure 1: FI-ADOPT sub-projects dedicated section at 360.eai

2.1.3. Reports Repository

Beyond the technical development, each project has defined a number of deliverables (reports) that need to be delivered. As FI-ADOPT is "deliverables based", reporting has been quite important. In order to have a

formal repository, some development has taken place in the 360.eai platform to create an administrative panel support a repository option (Figure 2). The relevant site categorizes the deliverables per project, providers' permissions and gives the reviewers the option to download, accept or reject deliverables.
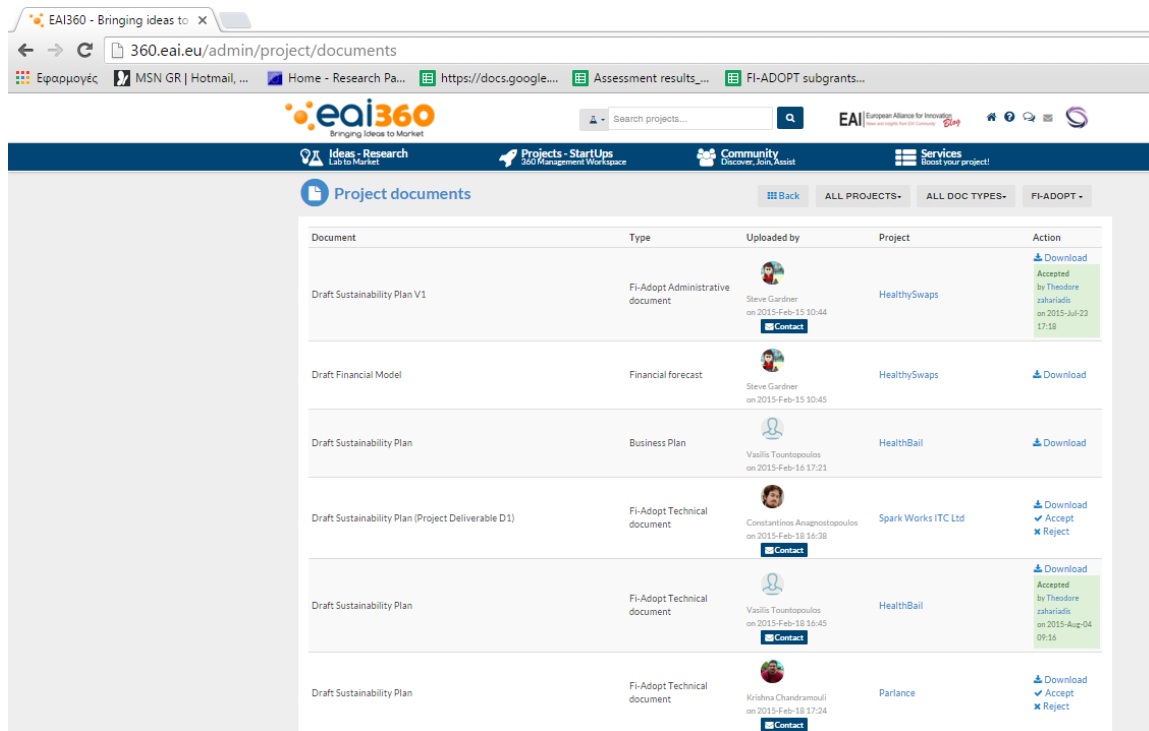

Figure 2: 360.eai repository

2.2. Sub-Projects Review

For the sub-projects' technical, financial and ethical reviews, FI-ADOPT has decided to have reviews executed by external experts. The progress and timing that has been followed for the sub-projects reviews & funding is shown in Figure 3. The next section describes in more details the process and the actual execution of the reviews. The planning per project duration is also shown in **Σφάλμα! Το αρχείο προέλευσης της αναφοράς δεν βρέθηκε.**.
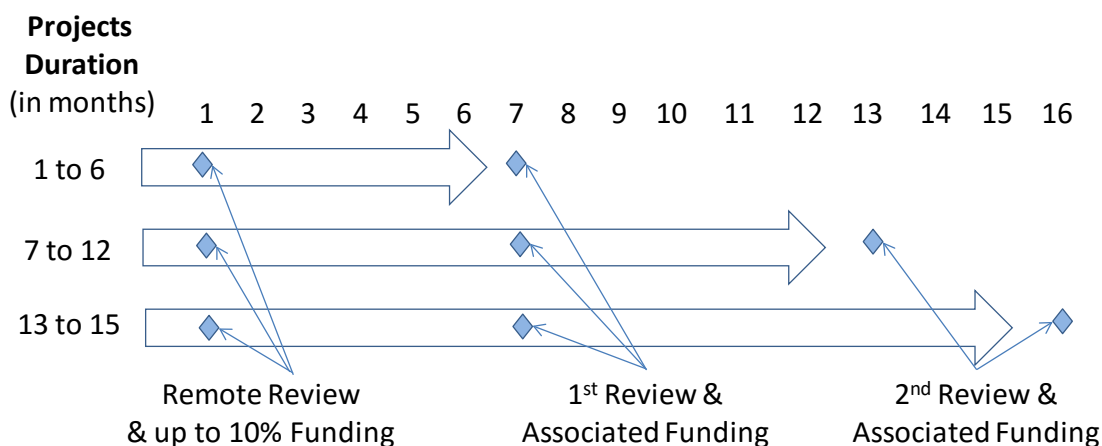

Figure 3: Projects Review & Funding procedure

Projects successfully passing the review receive the relevant funding indicated in Table 7.

2.2.1. Draft Sustainability Plan (DSP) Review

Draft Sustainability Plan (DSP) review for all FI-ADOPT sub-projects has been completed in the 1st FI-ADOPT reporting period and has been reported in D3.2/D3.4. In the first round 3 DSPs from Call 1 were rejected and had to be resubmitted. Finally, all DSPs have been accepted.

2.2.2. Intermediate Review

Intermediate review for all FI-ADOPT sub-projects has been reported in D3.2/D3.4. During the call 1 intermediate review, one project (Ref. 110/ BREAD) was not ready to make a demonstration. As such an additional review was assigned during the call 2 projects. Yet, finally all deliverables from call 1 projects have been accepted. From call 2 projects, one project (Ref. 206/PHARMAWIZARD) was not ready to make a demonstration and an additional review was assigned during the call 3 projects, while some deliverables from 2 additional projects (Ref. 203/ MigraineNet and Ref. 205/TOPEST) were not accepted and an additional review has been arranged for January 2016. From call 3 projects all deliverables have been accepted.

2.2.3. Final Review

The initial plan was to perform on-site review of all projects during the Benelux Venture Forum (BVF) on 11-12/5/2016. However this would complicate sub-grants cash flow. As such it was decided to perform remote review for the projects in bunches as they were completing their contractual obligations, in order to be able to release additional funding to them. Before entering the final review each project had to upload all deliverables at the 360.eai repository.

For the final reviews the following experts had been selected:

	Date	Expert 1	Expert 2	Number of projects
Bunch 1	26/01/2016	Dr. N. Nikolaou (DE)	Dr. J. Calic (UK)	5
Bunch 2	08/03/2016	Dr. N. Nikolaou (DE)	Dr. J. Calic (UK)	6
Bunch 3	20/04/2016	Dr. I. Pavlova (BL)	Dr. T. Piatrik (SL)	10
Bunch 4	26/04/2016	Dr. P. Daras (GR)	Dr. S. Tombros (BE)	11

Table 2: Final review experts

The review took place remotely via skype and the duration was 40 minutes per project. During the review, each project had to strictly follow the agenda:

1) Presentation (10 minutes)

The sub-projects initially had to make a presentation of 10 minutes, which had to cover three sections:

    a. **Technical Excellence:** Present the service/application idea, approach and technical excellence

    b. **FIWARE Adoption:** Justify the GEs/DSEs utilization and the level of integration

    c. **Sustainability & Business Plans:** Justify the SME/service sustainability and business plans.

    Emphasis was primarily put on the SME/service sustainability and on the GEs/DSEs utilization. The presentation was provided via screen sharing and the experts had the time to ask short questions during the presentation.

2) Demonstration (20 minutes)

Demonstrate the applications final version. The application was presented using screen sharing and/or real access in case that was feasible. During the demonstration, utilization of FIWARE technology and user acceptance was demonstrated. In most cases the Span-2 and the Budapest -2 FI-Labs nodes were utilized.

3) Q&A (max. 10 minutes)

An additional 10 minutes with questions and answers took place, covering additional issues and potential Ethical related questions.

The criteria that were applied for reviewing the projects are similar to the ones during evaluation and intermediate review. However, emphasis was given to the Market readiness and sustainability plans. Furthermore, a demonstration of the final application was a mandatory part of the review process. In more details, the following criteria were applied:

- *Criterion 1: Technical Excellence.* In this criterion, the experts had to evaluate the technical excellence of the proposal based on the questions such as:
    - Is the application/Idea still Innovative?
    - Have they validated that the objectives have been met?
    - Are the deliverables of good or acceptable quality?
    - Which are the plans for further development?

- *Criterion 2: FIWARE Adoption Acceleration* In this criterion, the experts had to evaluate the knowledge and commitment to the FIWARE technology *based on questions such as:*
    - *Does the application show good knowledge of the FIWARE technology?*
    - *Is it explained how and why the applicants are utilising the FIWARE GE/DSE Technology?*
    - *Has FIWARE GE/DSE technology validated?*
    - *Are there backup plans if some GEs/DSEs support are not supported in the future?*

- *Criterion 3: Sustainability & Market Readiness* In this criterion, the experts had to evaluate the capacity of the SME/team and the sustainability plans *based on questions such as:*
    - Do the applicants know the competition and the market that they target?
    - Is there a sustainability or draft business plan?
    - Is the profile of the SME and/or the Team CVs capable to do the proposed job?
    - Are the costs sufficiently justified?

The schedules for the 4 Bunches of final reviews have been:

Ref	Acronym	Name/Leading Individual	Contact Person	Time (CET) Start	End
101	Parlance	Instronix Limited	Krishna Chandramouli	9:00	9:40
102	FI-Mirror	Opinyour s.r.o.	Veronika Gilanova	9:40	10:20
105	HealthySwaps	RowAnalytics Ltd	Steve Gardner	10:20	11:00
Coffee Break				11:00	11:10
106	QualiFI	OPTIMUM SA	Anthony Gonos	11:10	11:50
108	MemoryStoria	Georgi ILIEV	Georgi ILIEV	11:50	12:30
Lunch Break				12:30	13:40
203	MigraineNet*	WINGS ICT	Kostas Tsagkaris	13:40	14:20
205	TOPEST*	CGAIA	Ioannis Koufoudakis	14:20	15:00

Table 3: Bunch 1 projects Final review (26/01/2016)

* Due to their bad performance during the intermediate review, subprojects Ref. 203/MigraneNet and Ref. 205/Topest had an additional intermediate review.

Ref	Acronym	Name/Leading Individual	Contact Person	Time (CET) Start	End
306	PitchPoint	A.G.C STUDENT LIFE LTD	Y. Hadjiconstantouras	9:00	9:40
301	3dVET	ACCORD ELECTRONICS	Mirela Stefanescu	9:40	10:20
206	PHARMAWIZARD	DATAWIZARD	Francesco Marcellino	10:20	11:00
Coffee Break				11:00	11:10
202	TrainStorm	Brainstrom Multimedia	Dr. Francisco Ibáñez	11:10	11:50
208	SPEAKY	Speaky	Ludovic Chevalier	11:50	12:30
303	ATHENA	Metis Baltic Ltd.	Aušra Lingytė	12:30	13:10

Table 4: Bunch 2 projects Final review (08/03/2016)

Ref	Acronym	Name/Leading Individual	Contact Person	Time (CET) Start	End
103	HealthyParks	Innovation Engineering Srl	Paolo Salvatore	9:00	9:40
104	HealthBail	Athens Technology Center S.A.	Vasilios Tountopoulos	9:40	10:20
107	HEART	Spark Works ITC Ltd (SPARKS)	Con. Anagnostopoulos	10:20	11:00
Coffee Break				11:00	11:10
109	SmartWears	NISSATECH DOO	Nenad Stojanovic	11:10	11:50
204	SPAN	INOSENS	Vesna Crnojević-Bengin	11:50	12:30
111	FI-ARLearning	ENCLAVE FORMACION S.L.	Judit Hernandez	12:30	13:10
Lunch Break				13:10	13:40
112	Legend	LEVERADE	Antonio Romero	13:40	14:20
113	VREMO	MEDIDA EMPRESAS S.L.	Irene Silva Martinez	14:20	15:00
Coffee Break				15:00	15:10
201	WHITEboard	CONCEPTS AND CREATIONS	Saverio Blasi	15:10	15:50
211	ENGLISH BUBBLE	WORDBUCKET	Danny Smits	15:50	16:30

Table 5: Bunch 3 projects Final review (20/04/2016)

Ref	Acronym	Name/Leading Individual	Contact Person	Time (CET) Start	End
302	ROGAMO	BrainBotics I/S	Søren Tranberg Hansen	9:00	9:40
307	NOVIQR	NOVIQR	Alex Pasternak	9:40	10:20
205	TOPEST	GAIA EPICHEIREIN SA	IOANNIS KOUFOUDAKIS	10:20	11:00
Coffee Break				11:00	11:10
207	PAGE	WLAB	Andrea Vitaletti	11:10	11:50
209	Forest112	IRDETEC CONSULTING	Francisco Urbieta	11:50	12:30
210	ELC FOR FIWARE	Teach by App	Massimo Maronati	12:30	13:10
Lunch Break				13:10	13:40
212	MEMO24	Memo24	Hichem Boudali	13:40	14:20
203	MigraineNet	WINGS ICT	Kostas/Tsagkaris	14:20	15:00
Coffee Break				15:00	15:10
304	FAIRVILLAGE	Link srl	Giovanni Toffoli	15:10	15:50
305	BRAIM	Documenta Creaciones	Andrea Contino	15:50	16:30
110	BREAD	Maria Felicia SANTILLI	Maria Felicia SANTILLI	16:30	17:10

Table 6: Bunch 4 projects Final review (26/04/2016)

During the final review projects, we did not face any FI-Lab instabilities. From all 32 projects, minor changes in the application was requested from 6 projects and only one project (Ref. 205) faced significant issues with application demonstration (Figure 4). Yet, as this is among the projects with the greatest potential, it was decided to give it an additional review on 5 May.
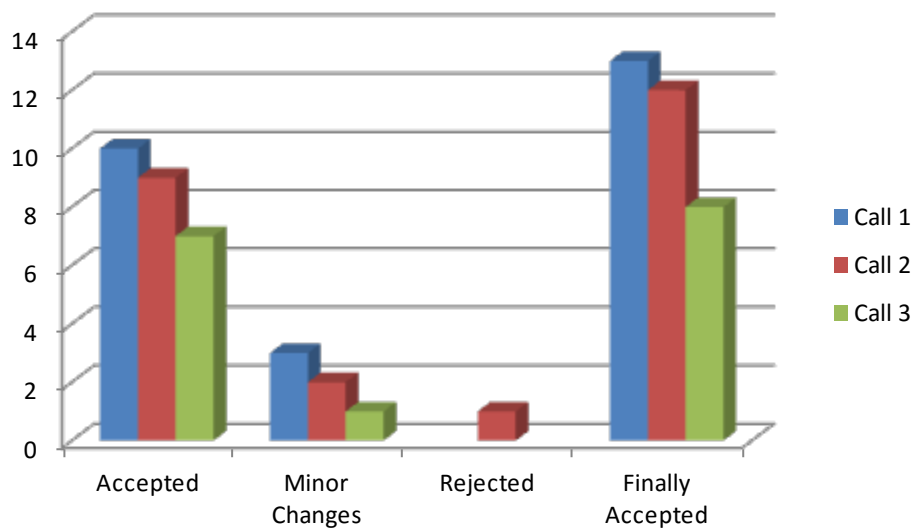
Figure 4: Final Review Deliverables Acceptance Statistics

2.3. Review of project Financial

FI-ADOPT funding schema is based on the project's deliverables. Each deliverable is associated with a cost. Accepted deliverables (and any other costs associated with a deliverable) are invoiced and reimbursed. The initial plan for projects' reimbursement is shown in Table 7, following specific the funding ceiling.

Project Duration (In Months)	DSP Deliverable	1st review	Final Review
1-6	Up to 10%	Up to 100%	
7-12	Up to 10%	Up to 50%	Up to 100%
13-15	Up to 10%	Up to 35%	Up to 100%

Table 7: Funding ceiling versus project duration

However, as no project has duration smaller than 7 months and only part of the FI-ADOPT funding is available at the FI-ADOPT treasurer (INTRASOFT BE), an additional ceiling had to be applied as shown in Table 8 until the FI-ADOPT project is financially cleared by EC.

Project Duration (In Months)	DSP Deliverable	1st review	Final Review	FI-ADOPT Clearance by EC
7-12	Up to 10%	Up to 50%	Up to 83%	Up to 100%
13-15	Up to 10%	Up to 35%	Up to 83%	Up to 100%

Table 8: Updated funding ceiling due to FI-ADOPT funding

After the final review and given that all deliverables have been accepted, the projects have to send a financial statement to FI-ADOPT coordinator to request for payment of the deliverables. As this is the final review, the payment is made up to the funding ceiling of 83%. The relevant form is shown in the Annex.

2.4. Ethical Considerations

In order to review the Ethical dimension of the projects, we have started by grouping the projects based in the FI-ADOPT application areas. The projects selected by FI-ADOPT three open calls are shown in Figure 5 and their grouping per FI-ADOPT application area is shown in Figure 6.
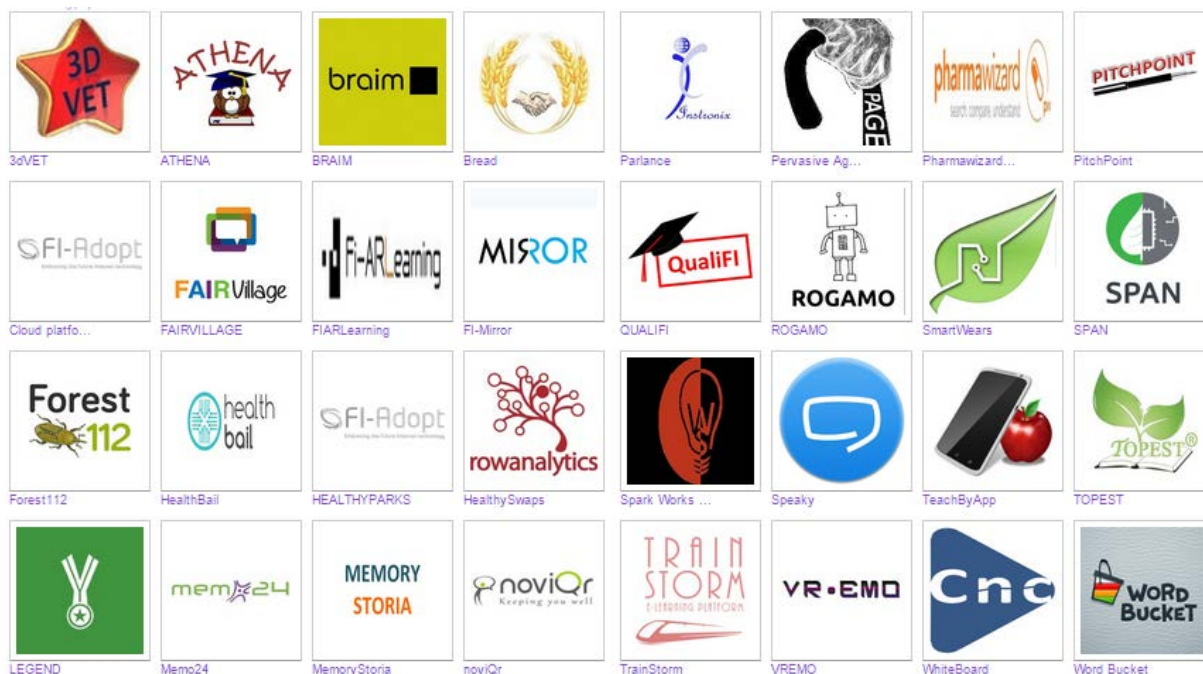

Figure 5: Projects selected by FI-ADOPT open calls

The projects selected from call 1 are shown in orange, the projects from call 2 are shown in blue and the projects from call 3 in black. As we may see there are 5 projects addressing the training application area, 2 projects addressing the social application area, 8 projects addressing the wellbeing application area, 2 projects addressing the Wellbeing –Social subcategory, 8 addressing the Training-Social subcategory and 7 addressing all three categories.
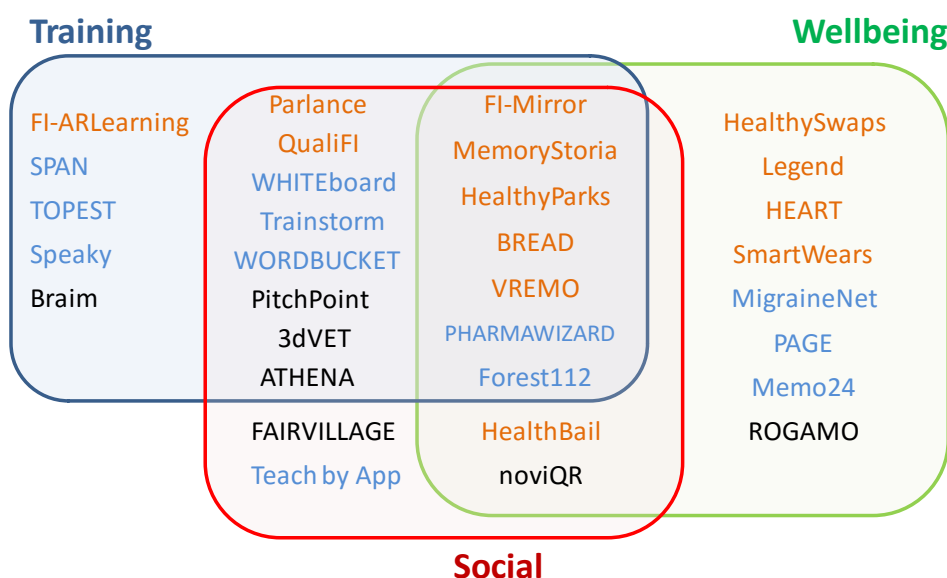
Figure 6: Projects grouping per FI-ADOPT application area

In order to avoid any Ethical issues, we have asked all projects to submit at the proposal and during contract time a form indicating if there are any Ethical issues associated with the projects. All projects have declared that there are no Ethical issues related to:

- Research on Human embryo/foetus
- Research on Animals
- Research Involving Developing Countries
- Dual Use, ICT Implants

As a next step, the FI-ADOPT consortium has put emphasis on the projects that are directly or indirectly addressing the social and/or the wellbeing application areas, as in many cases these are related with Ethical Issues such as Informed Consent and privacy.

With respect to *informed consent* there is no project that involves children, human genetic material or human biological samples. However, there are some projects that directly or indirectly address human data collection, collection of health personal data and involve tracking the location of people. The projects that have directly involved mature volunteer patients and performed experiments are:

- HealthySwaps
- HEART
- MigraineNet
- ROGAMO

In all these cases, FI-ADOPT has been closely monitored the relevant projects to avoid any EU law violation. As far as we know, despite the EU Data Protection Directive 95/46/EC[2], there is no coherent framework for data protection valid across the EU. Instead, data protection policies remain country specific[3], utterly depending on 28 different national responsible legal authorities. The updated General Data Protection Regulation (GDPR) expected to be put into practice in 2018[4] will strictly document the need for more fine-grained private data handling. On 8 April 2016 the Council adopted the Regulation and the proposal for a Directive of the European Parliament and of the Council on the protection of individuals with regard to the processing of personal data by competent authorities for the purposes of prevention, investigation, detection or prosecution of criminal offences or the execution of criminal penalties, and the free movement of such data[5]. And on 14 April 2016 the Regulation and the Directive were adopted by the European Parliament. On 4 May 2016, the official texts of the Regulation and the Directive have been published in the EU Official Journal in all the official languages. While the **Regulation** entered into force on 24 May 2016, it shall apply from **25 May 2018**. The **Directive** entered into force on the 5th May 2016 and EU Member States have to transpose it into their national law by **6 May 2018**. [6] In order to support the early adoption of the GDPR principles, FI-ADOPT has ensured that all sub-projects are following the Data Sharing as a Service (DSaaS) model.

Through the DSaaS, FI-ADOPT also addresses the *privacy related issues* as all sub-projects are enforced to anonymise any collected data (either personal or tracking data), while the end-users have the ability to delete any of their own data that are locally collected; as such all FI-ADOPT projects fully respect people's Right to be Forgotten[7].

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[2] EU Data Protection Directive 95/46/EC, http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=URISERV%3Al14012

[3] EC, Data protection bodies, http://ec.europa.eu/justice/data-protection/bodies/index_en.htm

[4] http://www.allenovery.com/publications/en-gb/data-protection/Pages/Timetable.aspx

[5] http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52012PC0010

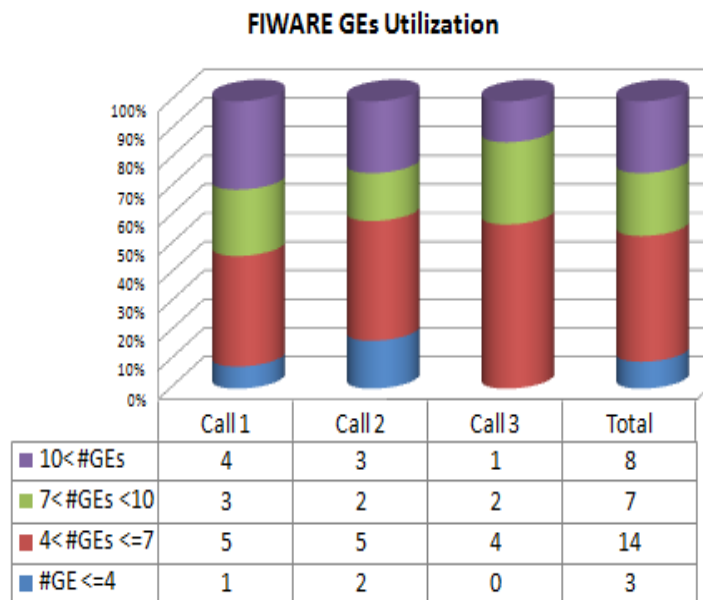[6] http://ec.europa.eu/justice/data-protection/reform/index_en.htm

[7] EC, Factsheet on the "Right to be Forgotten" ruling (C-131/12), http://ec.europa.eu/justice/data-protection/files/factsheets/factsheet_data_protection_en.pdf

3. FIWARE Adoption

The technical supervision of the sub-projects during their running period and during the predefined DSP and intermediate reviews has helped us evaluate the utilization of the FIWARE technology and the support of its adoption.

3.1. FIWARE GEs/DSEs utilization planning

Based on the selected project proposals the average number of GEs/DSEs that each accepted project would utilise was 8.4 GEs/DSEs: Call 1 projects planned to utilize an average of 8.36 GEs/DSEs per project, call 2 projects planned to utilize an average of 8.51 GEs/DSEs per project and call 2 projects planned to utilize an average of 8.42 GEs/DSEs. However, as it is shown in Figure 7, from Call 1 there have been selected 4 projects that were planning to use more than 10 GEs/DSEs and 3 projects that were planning to use at least 7 GEs/DSEs. Yet, the majority of the projects in all three calls were planning to use between 4 and 7 GEs/DSE. Only a few projects (3) have been selected to utilize only 4 GEs and there are no projects selected to use less than 3 GEs.

FIWARE GEs Utilization

	Call 1	Call 2	Call 3	Total
10< #GEs	4	3	1	8
7< #GEs <10	3	2	2	7
4< #GEs <=7	5	5	4	14
#GE <=4	1	2	0	3

**Figure 7: Number of GEs to be used**

Though the average number of GEs/DSEs that have been selected to be used by each group of projects is almost identical (between 8.32 and 8.51 GEs/DSEs per project), the number of different GEs/DSEs that have been selected to be used differ significantly: in call 1 projects there are 25 GEs/DSEs selected by 13 projects (in average 1,9 different GEs/DSEs per project), in call 2 projects there are 19 GEs/DSEs selected by 12 projects (in average 1,6 different GEs/DSEs per project) and in call 3 projects there are 11 GEs/DSEs selected by 7 projects (in average 1,5 different GEs/DSEs per project). This could be explained by the fact that the deadline for call 3 was 9 months after call 1. Within this period some GEs/DSEs have become more mature, publishing new versions, while others have given the impression to be stopped or at least not sufficiently supported or not having a community behind them.

As shown at Figure 8, at planning (proposal) time, the FI-Core KeyRock GE (Identity Management), the Object Sore and the Cosmos GE (Big Data Analysis) have been the most popular GEs. From the 32 selected projects, 24 have declared that they are planning to use the KeyRock GE, 19 to use the Object Store and 13 to use the Cosmos GE, followed by WireCloud GE and Orion GE, that there are 10 projects that were planning to utilise them.
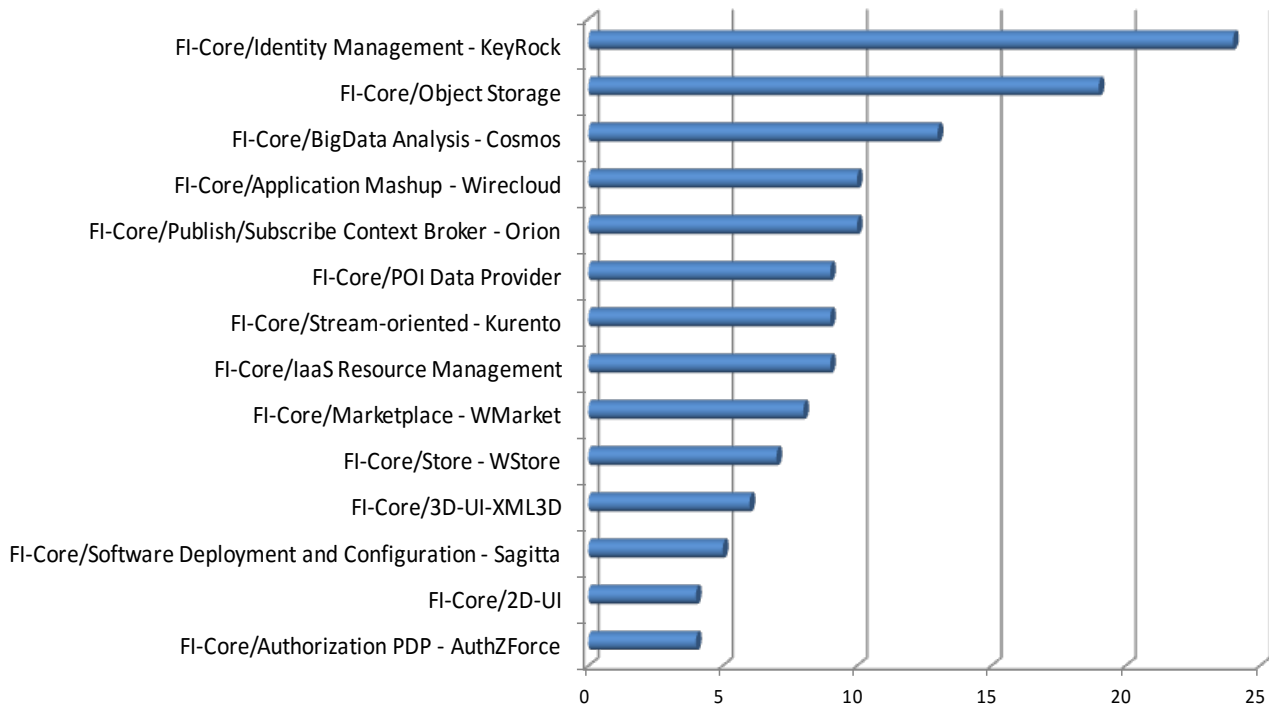
Figure 8: The most selected GEs to be used per selected project (Plan)

Similarly, the FI-Content Social Network, the FI-STAR/Security &Privacy Integrated Access Control and the FI-STAR/Health Questionnaire Service have been the DSEs that were planned to be used by most projects (Figure 9).
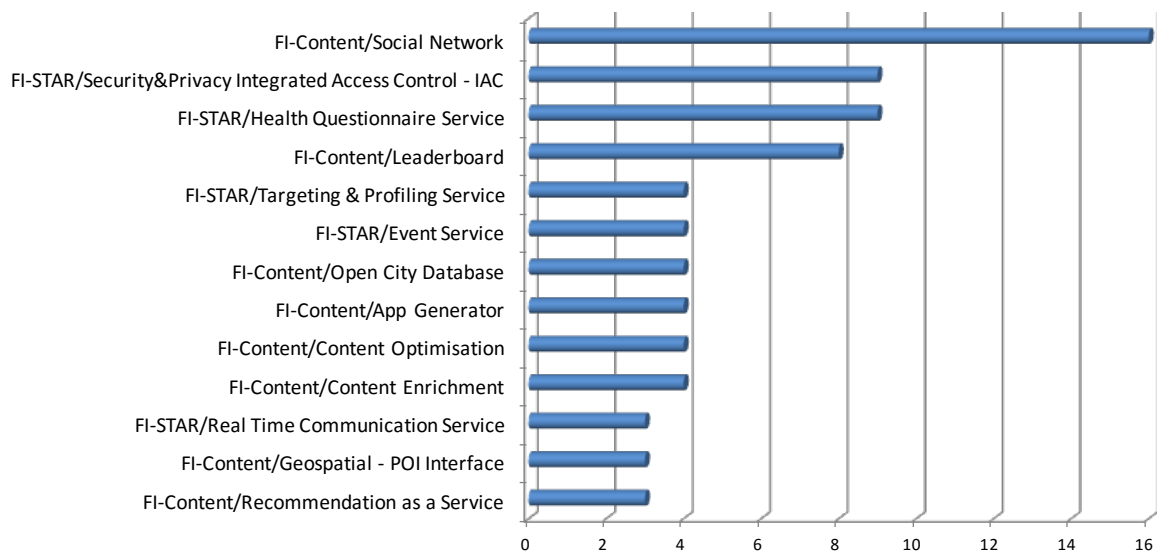
Figure 9: The most selected DSEs to be used per selected project (Plan)

3.2. FIWARE GEs/DSEs actual utilization

After the final review, all projects have utilized at least 3-4 GEs/DSEs. Some have already integrated more than 10 GEs/DSEs and some even more than the ones that they initially planned. As shown in Figure 10, the call 1 projects reached a final integration rate of 78% (up from 66% during the intermediate review), the call 2 projects an integration rate of 72% (up from 63% during the intermediate review), and the call 3 projects an integration rate of 79%. (up from 74% during the intermediate review). This is justified as call 1 projects started on 1 January 2015 but most of them have duration of 12-15 months, while call 3 projects started on 1 July 2015 but they have duration of 9 months and intermediate review took place in Month 7.
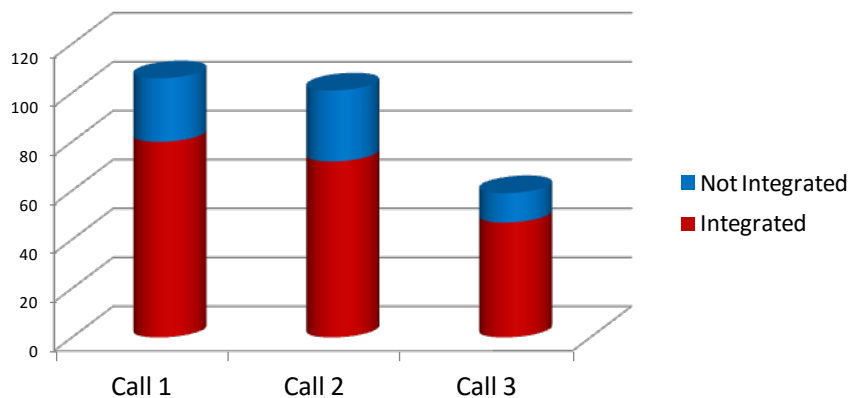
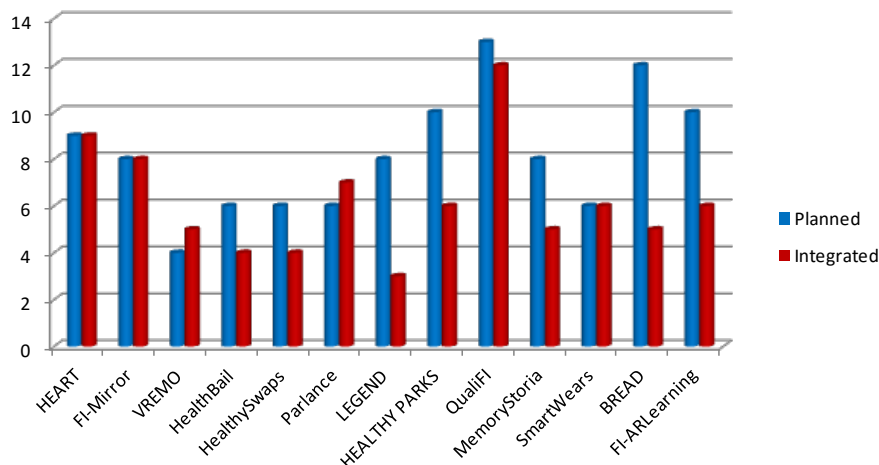**Figure 10: Finally integrated vs. Finally not integrated GEs/DSEs**

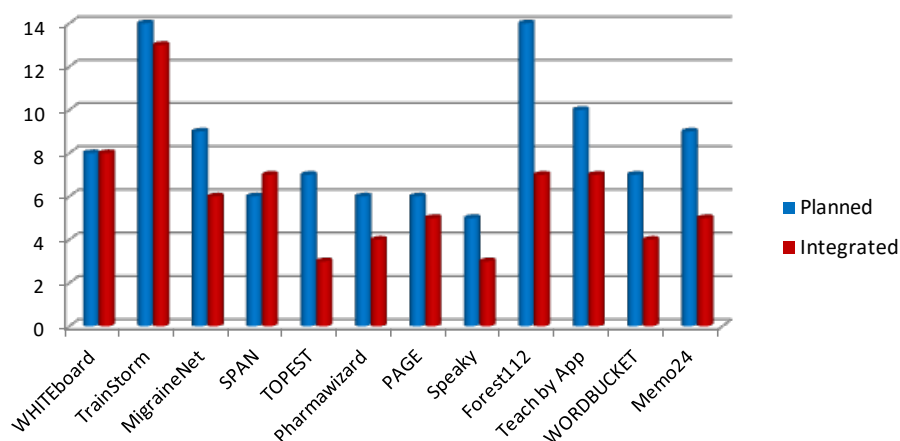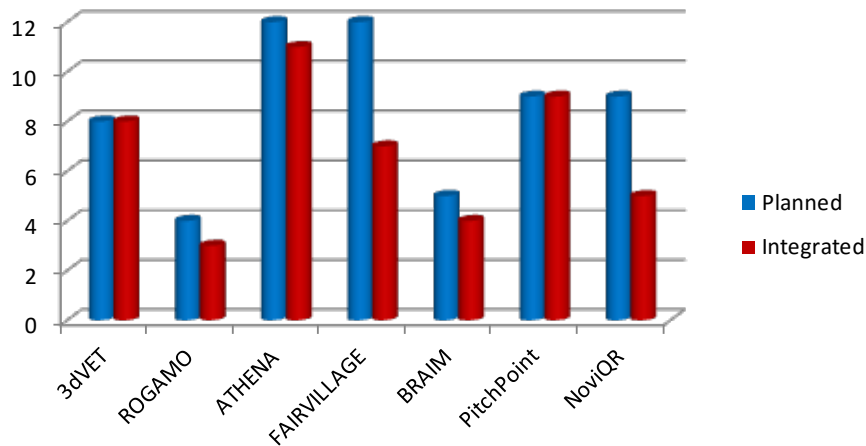**Figure 11: Call 1 Projects Planned vs. finally integrated GEs/DSEs**

Figure 12: Call 2 Projects Planned vs. finally Integrated GEs/DSEs

18

As shown in Figure 11, call 1 projects planned to integrate 107 GEs/DSEs and have finally integrated 80. Figure 12 shows the call 2 projects, which planned to integrate in total 101 GEs/DSEs and have finally integrated 72. Figure 13 shows the call 3 projects, which planned to integrate in total 59 GEs/DSEs and have already integrated 47.


Figure 13: Call 3 Projects Planned vs. finally Integrated GEs/DSEs

Figure 14 shows the 15 most popular GEs and the actual utilization, where integration reached 87%. As it is shown the most popular GEs are the KeyRock, the Object Store, the Cosmos/Big Data Analysis, the Wirecloud and the Kurento. It is important to note that KeyRock, Wirecloud and Kurento have been used more than initially planned.
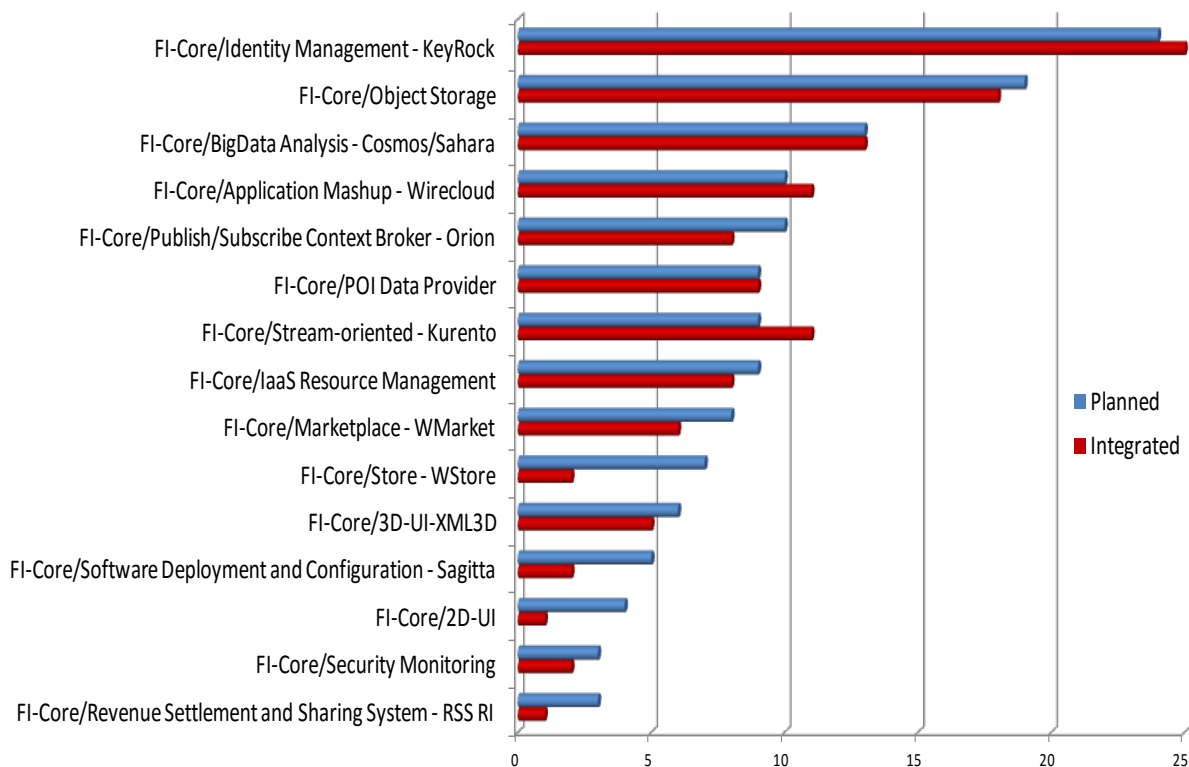
Figure 14: The 15 most selected GEs planned to be used and finally integrated

Figure 15 shows the 13 most selected DSEs, where integration reached 72%. The FI-CONTENT/Social Network, FI-STAR/Questionnaire and FI-STAR/Security & Privacy have been the most popular DSE, which have been integrated in more applications, followed by FI-CONTENT/Open City Database and FI-CONTENT/Geospatioal DSEs.
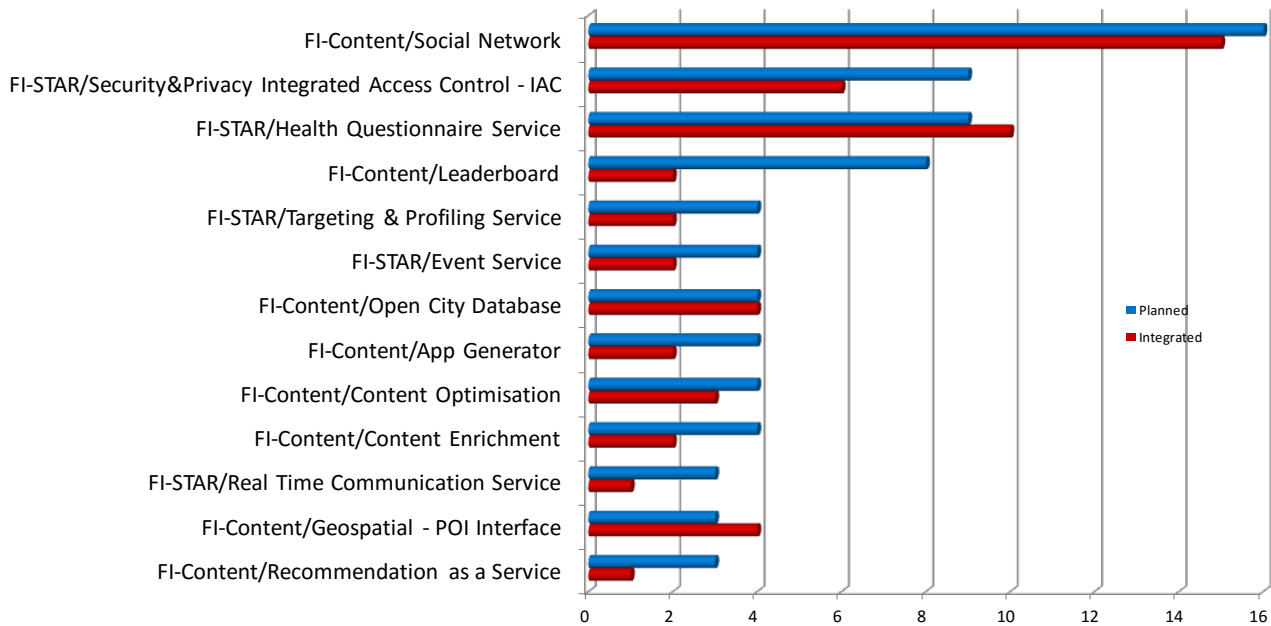
**Figure 15: The most selected DSEs planned to be used and already integrated**

On the other hand, some GEs/DSEs that were initially planned to be used have been dropped or will not be integrated due to one of the following reasons:

a) *The GE/DSE was not sufficiently mature.* During the integration of the GE/DSE it turned out that the software component was not sufficiently mature and/or could not compete with solutions already available in the market. In that case, the relevant projects have been advised to replace them with the one available in the market given that a sufficient number of FIWARE components are already integrated or will be integrated.

b) *The GE/DSE was not sufficiently supported.* Within this period some GEs/DSEs have become more mature, publishing new versions, while others have given the impression to be stopped or at least not sufficiently supported or not having a community behind them. Moreover, FI-Core has selected to support only a subset of GEs/DSEs and the remaining components are not officially supported. This has resulted in dropping many of the selected GEs/DSEs or replacing them with similar ones

c) *The GE/DSE was selected by mistake.* In some cases, the GE/DSE description was misleading or the applicants had not understood it correctly. During the training sessions, the GE/DSE operation was clarified and a different GE/DSE was selected.

4. Conclusions

Two years after the 1st group of FI-ADOPT subprojects kicked-off, all projects have utilized at least 3-4 GEs/DSEs. In that sense, FI-ADOPT may be considered fully successful as far as FIWARE technology promotion. Some projects have already integrated more than 10 GEs/DSEs and some even more than the ones that they initially planned.

Beyond the technical evaluation and FI-ADOPT adoption, all projects are reviewed in order to check their time to market and their sustainability. Currently the project schedule for time to market are shown in Figure 16.
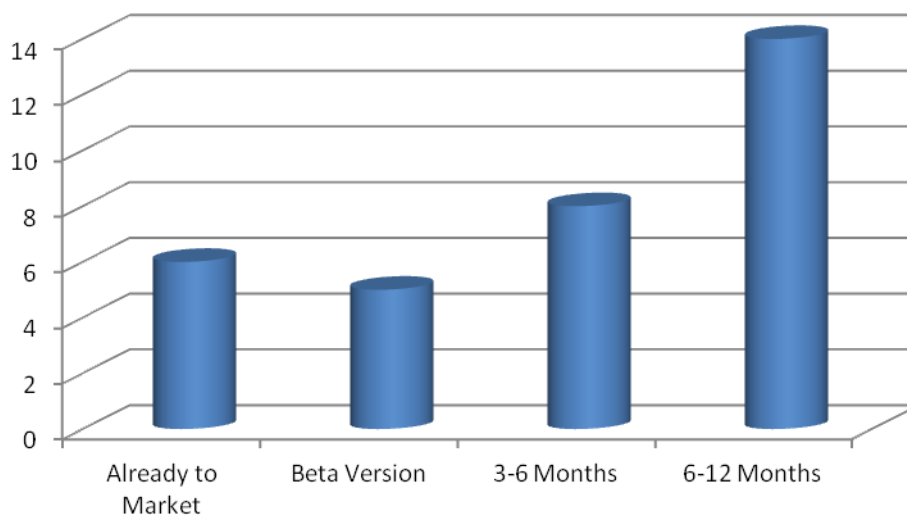
Figure 16: FI-ADOPT sub-grants time to market

The following 5 sub-grants have already entered the market:

1) Ref. 108/MemoryStoria (https://www.memorystoria.com/)
2) Ref. 112/Legend (https://leverade.com/en/)
3) Ref. 208/ Speaky (https://www.gospeaky.com/)
4) Ref. 209/Forest112 (http://forest112.com/)
5) Ref. 212/Memo24 (https://www.memo24.net/)

Additional 4 sub-grants already had trials with end-users and are under beta testing:

1) Ref. 107/ HEART
2) Ref. 203/MigraneNet
3) Ref. 210/Teach by App
4) Ref. 307/noviQr

Some selected success stories from the projects that are supported by FI-ADOPT are:

- **Legend (now under the name Leverade):** The project is already in the market with more than 741.000 users. It has scheduled more than 6.600.000 events! It has been selected from the Municipality of Madrid, the Municipality of Marbella, the Region of Murcia and many more.

- **Speaky:** The project is already in the market. It has more than 100.000 registered users and has already received investment of 250.000€.

- **BRAIM:** The project is already in large scale pilots in Catalonia, with more than 70.000 users

- **PAGE:** The project is already in testing in Telecom Italia labs. Moreover, in February 2016, WLAB (as part of the NEXSE) was acquired by the ALTEN group (http://www.alten.it/wp-content/uploads/2016/ 02/ Press-release-NEXSE-ENG_ITA.pdf)

Also some very interesting statistics:

- **SMEs Income:** At the beginning of the acceleration phase, the income from activities related to FI-ADOPT of the top-15 companies (January 2015) accounted for a global sum of 104.000€. Towards the end of the acceleration, the income from activities related to FI-ADOPT reached 1.780.000€ (April 2016). That is an increase of a 1700% in 15 months (of course any funding from FI-ADOPT has been excluded in these calculations). In total, by the end of 2016, we estimate that for each 1€ spent by FI-ADOPT, additionally 1.5€ to 1.7€ will be created.

- **Jobs:** the number of jobs in activities related to FI-ADOPT in the top-15 companies at the beginning of the acceleration was 24. By the end of the acceleration it is 62. That is an increase in jobs of over a 258% in 15 months. Projections for the end of 2016 indicate around 80-85 full-time employees in these 15 companies.

- **Income per employee.** In the top-15 FI-ADOPT companies, income per employee has significantly increased from an average of 4,334€/emp. to 28,710€/emp. As such we expect that many of the created jobs will sustain well after the end of FI-ADOPT.

- **Users (B2C market):** The top-5 FI-ADOPT companies started with 22.300 registered users and have already exceeded 950.000 users (more than 420.000 in activties related to FI-ADOPT). Especially the top three companies: *Leverade*(https://leverade.com/en/), *GoSpeaky* (https://www.gospeaky.com/) and *Documenta Creaciones Multimedia Avanzadas* (http://www.mydocumenta.com/) sum more than 870.000 users in total (at least 392.000 users related to FI-ADOPT activities). It has to be noticed that most of the FI-ADOPT business models are based on free users' access .

- **Paying customers (B2B market):** Five companies offer already their FI-ADOPT related products and rose their customer base from 2 paying customers at the beginning of the acceleration to 263.

- **Creation of SMEs:** Three of the groups of individuals, who submitted a proposal, were converted to SMEs; one in Italy (*Seides s.r.l.* supporting thewww.foodways.world market-place/community), one in Poland (*Memo24*,https://www.memo24.net/) and one in Israel (*noviQr*, http://noviqr.com).

- **Additional private & public funds:** Five FI-ADOPT supported companies have already received 550K€ from private funding, two of them have being partially acquired (the amount has not been disclosed) and two additional companies are in the process of raising funding from Venture Capitals. In addition, three companies have received 377K€ additional public funding and three companies will submit proposals in June 2016 requesting in total 1.44M€ additional public funding.

Please note that the above information is based on feedback from our sub-grants and public info at their websites, and have not been further verified.

5. Annex Evaluation Forms

5.1. Final Evaluation Form

FI-Adopt
Embracing the future Internet technology

Consolidated Review Form

Date of Review:

Proposal Acronym:

1. Technical Excellence

Give a short evaluation of the Technological Progress. Is the project progressing well?
Is it likely that it will complete the proposed work?

2. FIWARE Adoption Acceleration

Give a short evaluation of the FIWARE technology adoption. Does the application sufficiently use the FIWARE technology?
Are there sufficient plans for testing and validation using FIWARE facilities?

3. Market Readiness

Give a short evaluation of the market readiness. Is the sustainability/draft business plan still valid?

Overall Evaluation

- ☐ Excellent progress (the project fully achieved its objectives).
- ☐ Good progress (the project achieved most of its objectives with minor deviations).
- ☐ Acceptable progress (Some objectives are achieved; corrective actions are required).
- ☐ Unsatisfactory progress (Urgent corrective actions or the project will be stopped)

Recommendations

1. .
2. .
3. .
4. .

List of deliverables

Deliverable Title	Comments	Accept/Reject

Name	
Signature	
Date	22/7/2015

Name	
Signature	
Date	22/7/2015

5.2. Financial Statement Form

SME NAME
Address
Country
VAT: XXXX

INTRASOFT Intl. N.V. /S.A. 40, rue
Montoyer B-1000 Brussels, Belgium
VAT: BE 0472.324.870

Sub-Project Acronym: XXXXXXXX

Date: XXXX

Financial Statement x/3

No	Deliverable Name/Description	Type	Scheduled Delivery Date	Actual Delivery Date	Cost (€)
1					
2					
3					
				Total Deliverables Cost	

Budget	Cost (€)	VAT (%)¹	VAT (€)	Total (€)	Justification
Deliverables Cost	XX	N/A	N/A	XX	
Travel Cost	XX	N/A	N/A	XX	
Equipment Cost	XX	N/A	N/A	XX	
Other goods & services	XX	N/A	N/A	XX	
Subcontracting	XX	N/A	N/A	XX	
Indirect Cost	XX	N/A	N/A	XX	
Total Requested Funding	XX	N/A	N/A	XX	

Name: ....

Date: XXXXX

Signature & Stamp:

*The financial statement is created under the project XXXX funded by the European Commission, via the FI-PPP/FIWARE Project ICT-632868 FI-ADOPT Call 2 and is a grant.

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¹ For XXX invoicing intellectual services to another EU country, the article to mention is: XXXXXXXX

In yellow the fields that need to be modified by the subprojects.