

## **Deliverable D500.1.5**

# **Report on community building activities, knowledge transfer, training and educational activities and potential for innovation**

**Final report (M30)**

**WP 500 – T510**

<b>Project Acronym &amp; Number:</b>	Flspace – 604 123
<b>Project Title:</b>	Flspace: Future Internet Business Collaboration Networks in Agri-Food, Transport and Logistics
<b>Funding Scheme:</b>	Collaborative Project - Large-scale Integrated Project (IP)
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**Project website address:** <http://www.Flspace.eu>

## The Flspace Project

Leveraging on outcomes of two complementary Phase 1 use case projects (Finest & SmartAgriFood), aim of Flspace is to pioneer towards fundamental changes on how collaborative business networks will work in future. Flspace will develop a multi-domain Business Collaboration Space (short: Flspace) that employs FI technologies for enabling seamless collaboration in open, cross-organizational business networks, establish eight working Experimentation Sites in Europe where Pilot Applications are tested in Early Trials for Agri-Food, Transport & Logistics and prepare for industrial uptake by engaging with players & associations from relevant industry sectors and IT industry.

## Project Summary

As a use case project in Phase 2 of the FI PPP, Flspace aims at developing and validating novel Future-Internet-enabled solutions to address the pressing challenges arising in collaborative business networks, focussing on use cases from the Agri-Food, Transport and Logistics industries. Flspace will focus on exploiting, incorporating and validating the Generic Enablers provided by the FI PPP Core Platform with the aim of realising an extensible collaboration service for business networks together with a set of innovative test applications that allow for radical improvements in how networked businesses can work in the future. Those solutions will be demonstrated and tested through early trials on experimentation sites across Europe. The project results will be open to the FI PPP program and the general public, and the pro-active engagement of larger user communities and external solution providers will foster innovation and industrial uptake planned for Phase 3 of the FI PPP.

## Project Consortium

- |                                      |  |
|--------------------------------------|--|
| – DLO; Netherlands                   | – Kühne + Nagel; Switzerland           |
| – ATB Bremen; Germany                | – University Duisburg Essen; Germany   |
| – IBM; Israel                        | – ATOS; Spain                          |
| – KocSistem; Turkey                  | – The Open Group; United Kingdom       |
| – Aston University; United Kingdom   | – CentMa; Germany                      |
| – ENoLL; Belgium                     | – iMinds; Belgium                      |
| – KTBL; Germany                      | – Marintek; Norway                     |
| – NKUA; Greece                       | – University Politecnica Madrid; Spain |
| – Wageningen University; Netherlands | – Arcelik; Turkey                      |
| – PlusFresc; Spain                   | – EuroPoolSystem; Germany              |
| – FloriCode; Netherlands             | – GS1 Germany; Germany                 |
| – Kverneland; Netherlands            | – Mieloo & Alexander; Netherlands      |
| – North Sea Container Line; Norway   | – OPEKEPE; Greece                      |
| – LimeTri; Netherlands               | – Innovators; Greece                   |
| – BO-MO; Slovenia                    | – CIT; Spain                           |
| – MOBICS; Greece                     | – SDZ; Germany                         |
| – Fraunhofer IML; Germany            | – Snoopmedia; Germany                  |
| – Q-ray; Netherlands                 | – EECC; Germany                        |
| – FINCONS; Italy                     | – CBT; Spain                           |

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## Dissemination Level

<b>PU</b>	Public	X
<b>PP</b>	Restricted to other programme participants (including the Commission Services)	
<b>RE</b>	Restricted to a group specified by the consortium (including the Commission Services)	
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	

## Change History

Version	Notes	Date
001	Creation of the document structure (based on interim report)	05.09.2015
002	Reviewed report of knowledge transfer and training/support for SMEs and phase3 projects	15.09.2015
003	1 <sup>st</sup> updates received from use case trials about realised educational and training activities till M24 and onwards	20.09.2015
004	Additional contributions and updates from use cases trials and additional material	12.10.2015
005	First complete draft	13.10.2015
006	Updates in format. Some minor additions, Draft for review	14.10.2015
007	Flspace reviewers feedback	16.10.2015
008	Additional contributions and updates from use cases trials and additional material	19.10.2015
009	Updates based on input from Flspace reviewers	21.10.2015
010	Final version	22.10.2015

## Document Summary

This deliverable is a final report on community building activities, knowledge transfer, training and educational activities developed and realised till M24 (including the main actions realised during the first year). The report includes furthermore information about support given during the extension period (M25-M30) and some future planned activities towards the sustainability of the project.

This report is a result of the work done under tasks 510 (ecosystem incubation) – and in particular subtasks 511 (Community building), 512 (Knowledge transfer, training and educational activities), 514 (Open Call supporting activities) – and 570 (Plan to move into FI-PPP Phase3). This report also aggregates relevant results from WP400 (and in particular by the 8 use case trials), WP100 (Open Call-detailed in the D.500.1.4 interim report), WP200 and WP300, and task 560 (dissemination activities) as many different tasks and actions in the project contribute to the Flspace ecosystem building. In addition, it provided input to D500.7.3 and D.500.7.4 in relation to the supporting activities towards the FI-PPP phase 3 projects.

This deliverable provides:

1. Information about the reviewed community building activities (reflection on D500.1.1)
2. Updated information about knowledge transfer, training, educational activities and support provided during year 2 for Open Call and Phase3 projects
3. Updated report of D500.1.2, including list of actions and materials to support phase 3 projects and SMEs by the use case trials
4. Report on Phase3 support activities during the extension period and transfer of activities.

## Executive Summary

This report and summary of actions give an overview on community building activities, knowledge transfer, training and educational activities throughout the 30 months of Flspace project.

Three phases could be identified from this task in terms of realised and on going actions that supported the project to assess its main ambitions:

- Engagement and attraction of new actors and participants by Open call and Use Case trials (1<sup>st</sup> year)
- Support and knowledge transfer for Phase 3 projects (2<sup>nd</sup> year and extension period)
- Sustention and enlargement of the Flspace innovation ecosystems supported by the Flspace Foundation (Post project period)

By working with an iterative methodology and user centric approach, the needs of the target groups have been assessed in parallel with the project progress. Based on the needs additional activities were put in place that were not assumed (Phase 3 Bitbucket issue tracker).

With the massive work realised Flspace built a community not only for exploitation purposes of an open API platform, but also to create new synergies in the SME sector and to realise a strong and sustainable ecosystem within the FIWARE programme.

The conclusion by the end of the project is that most of the objectives were reached in spite of facing technical challenges.

## Abbreviations

App	Software Application	i.e.	id est = that is to say
AdvB	Advisory Board	IP	Intellectual Property
D	Deliverable	IPR	Intellectual Property Rights
DB	Database	KPI	Key Performance Indicator
DoW	Description of Work	M	Month
EC	European Commission	MVP	Minimal Viable Product
EE	Experimentation Environment	PM	Person Month
e.g.	Exempli gratia = for example	RTD	Research and Technological Development
EU	European Union	SDK	Software Development Kit
FIA	Future Internet Assembly	SME	Small and Medium Sized Enterprise
FI-PPP	Future Internet Public Private Partnership	ST	Sub-Task
FP7	Framework Programme 7	T	Task
GA	Grant Agreement	WP	Work Package
ICT	Information and Communication Technology		

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## 1 Introduction

### 1.1 Objective of this report

Task 510 (Ecosystem incubation), and in particular sub-task 511, was defined to directly support WP500 to achieve its first objective<sup>1</sup> and to indirectly support the achievement of the second and the third ones. For that, task 510 had to develop activities in tight coordination and cooperation with the rest of the tasks in WP500 (Task 520 Business models, Task 530 Policy and Regulation, Task 540 Standardisation, Task 550 Exploitation, Task 560 Dissemination and Task 570 in charge of delivering a plan to move into phase 3). The communities built in the context of Task 511 were considered as communications channels between the market and the project, and they also support activities of the business model, standardization, policy, regulation and exploitation tasks in WP500. In addition this deliverable is an update and reflection on the interim report D.500.1.4, submitted at M12.

### 1.2 Stakeholders and expectations

#### Internal stakeholder:

Internally, the eight use case trails represented in WP400, projects partners and task leaders of WP200, WP300 and also the related tasks of WP500 benefit from the collection provided in the present deliverable. In this context the profiting parties are:

#### **WP400:**

- T421: Crop Protection & Information Sharing
- T422: Greenhouse Management and Control
- T431: Fish Distribution & Planning
- T432: Fresh Fruits & Vegetables Quality Control
- T433: Flowers & Plants Supply Chain Monitoring
- T441: Meat Information Provenance
- T442: Import/Export of Consumer Goods
- T443: Tailored Information for Consumer Goods

**Use case trails:** their individual communities have been educated and trained to be able to manage the Flspace tasks expected from them. A detailed report includes the realized training activities in section 4.

This report does not summarize each use case trial stakeholder group and does not illustrate their individual needs. That information can be found in D500.1.2 (referenced throughout the document when needed).

WP400 (T450 and in particular subtask 453) was in charge of supporting the integration of new SMEs into the project (Flspace Open call – detailed report about the results can be found in deliverable D.500.1.4).

<sup>1</sup> Mobilizing, engaging and preparing stakeholders across Europe (mainly SMEs and web entrepreneurs) for participation as application and service developers building on and extending the large scale trials;

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**WP200:**

This WP delivered essential contributions in integrating software developers and educating them in the usage of Flspace and the facilitation of its core functionalities. This is relevant for Open Call Winners in Phase 2 and Phase 3 projects. WP200 feeds bitbucket with content and materials, furthermore collects the core documentations available on the Flspace website and wiki page<sup>2</sup>. Bitbucket contains also an issue tracker sub-group supported by WP200 and WP300 where internal and external technical bugs and blocking issues are reported (more information can be found in D500.1.3 and [Annex II](#)).

**WP300:**

Similar to WP200, this WP is to a great extent involved in Phase 3, and even the time after the project has ended, as they provide knowledge on the Flspace operating platform and its hosting requirements. The main role of WP300 is to provide and host the Experimentation Environment. WP300 took part in the educational activities for Phase 3 developers and trial stakeholders, explaining the various possibilities Flspace can offer them. This WP benefited as well from a shared overview on current and planned activities and events.

**WP500:**

The task force of WP500 was responsible for disseminating Flspace project status, results and its potentials to the outside world. Having a condensed and constantly updated overview on activities and material created by the other WPs, and especially by the trials, WP500 supports their promotion and education activities in a meaningful way.

**External stakeholders:**

The predecessor projects SmartAgriFood and Finest projects have been identified as important external stakeholders by the beginning of Flspace project. Throughout the Phase 3 period further external stakeholders were identified among the [FIWARE Accelerator projects](#) and their external application developers, who were potentially interested to use Flspace platform to exploit their developed applications.

In more general terms, the Flspace community involves the following type of external stakeholders:

- Infrastructure owners
- ICT solution providers including:
  - o SME ICT app developers
  - o SME ICT system integrators
  - o ICT solution providers in general (not included in the previous 2 categories)
- Industry stakeholder groups (food, logistics, others) as potential system users
- Other stakeholder groups as potential system users (farms, etc)
- Owners of (inter)national, European and global certification schemes

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<sup>2</sup> <https://bitbucket.org/fi-space/doc/wiki/Home> - based on the last published release of the Flspace platform

- 
- European policy groups
  - Multipliers in training institutions and research
  - SME Intermediaries and community managers (phase 3 proposers)
  - Others (not included in the previous categories)

### 1.3 Organisation of this report

This report is structured in the following way:

- **Section 2** shows reflection on community building based on D5001.1.
- **Section 3** provides an update on support from Flspace to Phase 3 projects, in particular in relation to the knowledge transfer and educational activities.
- **Section 4** provides an update on D500.1.2, in particular in relation to the educational activities performed by the use case trials.
- **Section 5** outlines the new detailed plan for transfer of activities and post-project period.
- **Section 6** closes the document with conclusions.

## 2 Reviewed community building activities (reflection on D500.1.1)

This chapter gives a short review and retrospection for the lifetime of Flspace project regarding community building and support provided by the project consortium. Seeing the results in terms of reached audience, activities realised and the level of outreach to external and internal stakeholders, the conclusion is that most of the objectives were reached in spite of facing technical challenges throughout the project.

Chronologically the following community building activities took place during the project:

In month 3, Flspace released D500.1.1, called “plan for community building”. That plan covered all the different aspects and actions to build a community and to link it to a successful project exploitation. In that document it was explained:

- 1) why it is so important for Flspace to develop its community;
- 2) the general approach that the project should follow in building the community;
- 3) the description of the Flspace stakeholders;
- 4) the need to integrate stakeholders in sustainable ecosystems;
- 5) a list of indicators to assess progress (as “community building” is a task developed through mostly all the partners in the project and integrated in all the Flspace WPs);
- 6) tools to be used to develop this community;
- 7) the plan and planned actions to develop this activity including a high level plan, a detailed plan for year 1 and specific actions to target developers/SMEs.

This early stage deliverable highlighted and summarized why it was so important to develop a community for Flspace project. A community based of App developers; Business Architects who aimed to build B2B solutions by using the Flspace platform; Phase 3 projects similarly using Flspace solutions in their projects; users to stimulate the demand side plus experimentation and further stakeholders listed in D.500.1.1.

The **ultimate goal was to create sustainable ecosystems** willing and able to exploit the Flspace platform beyond the duration of the Flspace project and the FI-PPP programme.

### 2.1 From the planned approach to the developed approach

In month 12, the interim report (D.500.1.4) provided an overview of how the activities have been performed during year 1 of the project according to the defined principles, indicators and plan. In this final report we re-assess the same approach and review the degree of deviations from the original objectives due to the faced technical problems during the development process of the platform and the delayed releases of the Experimentation Environment (EE).

- ***“Building upon existing communities and stakeholders, engaged during phase 1 by SmartAgriFood and Flnest, and existing networks and ecosystems and building upon the project use case trials and application domains defined in WP400 “:***

Most of the “knowledge transfer and educational actions” have been delivered in the context of the use case trials, their ecosystems and existing communities. Most of the use case trials have linked past activities (pre-Flspace) to the current Flspace develop-

ment building upon their existing communities<sup>3</sup>. This aspect hasn't been influenced by the later experienced delays with the platform development.

- *"The external stakeholders need to see a value in becoming part of the Flspace community":*

Up to M12 this approach has brought a lot of value for the community building activities (in particular considering the possibilities offered by the Flspace Open Call and FI-PPP Phase 3).

During year 2 and the extension period, the activities to engage with external stakeholders were continuous and aligned to the pace of the platform development. During this period special attention was paid for communicating new information available about the EE and/or documentation.

- *"It is necessary to keep the community alive and for that **community management activities are necessary all along the project**":*

As it was described in D500.1.2 and in [section 4](#) of this report (update on D500.1.2), ongoing activities have been developed towards all the different stakeholders linked to the 8 use case trials and most of the partners of the project. On the other hand, and as described in D500.1.1, a dataset of interested and/or engaged stakeholders was created, and the list, plus social media channels have been used to communicate information about Open calls and relevant events throughout year 2 and the extension period actively.

- *"Developers understand developers, so it is necessary to involve the technical resources of Flspace to engage with developers":*

D500.1.2, D500.1.3 showed and it was also self-evident that the role of the Flspace technical team is key (WP200, WP300 and T450), and they had to take responsibilities in many of the activities of knowledge transfer and support to SMEs, Phase 3 accelerators and ultimately to developers engaged through Phase 3 project. Because of unforeseen technical issues, even a specific technical support service was put in place based on Accelerators' request and Phase 3 developers needs (more information can be found in [section 3.3](#)).

- *"Clear terms and conditions (IPR and business models) will become a cornerstone for community building (especially for year 2)"*

Special effort has been taken within WP500 (in particular in Task 550) to develop IPR and Terms and conditions. Task 520 has analysed potential business models for the Flspace platform, and highlighted business model opportunities and challenges for stakeholders (notably app developers). The "Welcome webinar" for Phase 3 accelerators and SMEs included the basic information and was further specified with the setup of the Flspace Foundation.

## 2.2 Indicators for community development

Flspace T510 has defined some internal indicators for community building with the purpose of monitoring the progress in community building activities to help to identify gaps

<sup>3</sup> D500.1.2 Part II (sections 2 to 9) provided detailed information about the way the use case trials have linked Flspace activities to existing communities.

and assess the need of launching new actions not previously considered. These indicators were presented in D500.1.4.

Due to the nature of the activities during year 2, no further indicators have been introduced, however the following data gives an insight about results performed during this period: 8 webinars have been organised for which 224 registrations received; 2 face-to-face workshops have been organised with around 125 participants and 85 issues raised in the Phase 3 Bitbucket issue tracker (during the extension period).

### 2.3 Community building alignment with initial plans

D500.1.4 provided a detailed report on year 1 results and included a high level plan for the 2<sup>nd</sup> year of the project.

The main milestones were:

- Year 1: **The foundations for the Flspace community.** (Completed)
  - Community building for phase 3 proposals (Apps developers accelerators + whole ecosystem)
  - Initial Developer community for Phase 2 Open Calls
- Year 2: **Growing community together with phase 3 projects.** (Completed and Extended)
  - Developers community
  - Support to phase 3 projects (knowledge transfer, community building and developing sustainable ecosystems)
  - Keep the community growing + Associated partners

The high level plan has been split in the following steps for the project duration and after during the project extension and post-project period:

- Apr 2013 – Dec 2013: Promote phase 3 and Flspace Open calls
- Dec 2013 – Jun 2014: Preparation to engage with Phase 3 projects
- June 2014 – Sep 2014: Engagement with phase 3 projects
- Sep 2014 – Apr 2015: Massive knowledge transfer, educational and training activities
- May 2015 – Sep 2015: Continuation of knowledge transfer, educational and training activities, additional specific technical support provided for Phase3 Accelerators based on request
- Oct 2015 – Sep 2016: Updates of documentation based on new release and technical support by the main technical partners and coordinated by the Flspace Foundation

The high level plan (originally presented in D500.1.1) has remained valid. At the point of delivery of this report, the extension period is finished and Flspace has started the post-project period with the aim of achieving a sustainable future for the Flspace platform.

The detailed steps and actions defined and realised for community development and their results were presented in D.500.1.4. Based on year 2 results no major deviations have been experienced compared to the interim report.



1. Assessment of the existing community (M1-M3): Done (D500.1.1)
2. Meeting the trial and domain owners (M3-M6): Gathering of information about communities and ecosystems built around project trials: Done during the Istanbul general meeting (September 2013).
3. Preparation of online tools for engagement: Done - Social media channels were put in place and use case trials delivered specific materials for engagement (D500.1.2)
4. Preparation of initial communication materials: Done (D500.6.2)
5. Reaching the ICT players and SME intermediaries: Done - This task was decentralised and engaged parties have joined Flspace through the Flspace Open calls and Phase 3 projects.
6. Defining the knowledge transfer plan: Done (D500.1.2)
7. Getting some inputs from existing communities about needs/preferences for Collaborative working tools (input to ST513): Done (D500.1.3)
8. Dissemination and engagement activities for Open Calls: Done (detailed report is included in D.500.1.4 – and WP1 deliverable for Open call)
9. Building the ecosystems and Phase 3 proposals: Done. Flspace joined and was very active in the 2 matchmaking events organised at FI-PPP level (Poznan and Brussels).
10. Define a detailed plan for Developers community (Year 2) analysing the value of organising hackathons and competitions to build more apps and building developers communities: Deviation from original plan. The Phase 3 accelerators will perform these activities. Flspace won't organise this type of competitions. This action is therefore removed from the plan.
11. Assessment and delivery of tools for community building and engagement of Phase 3 projects (M9-M15): Done
12. Supporting Phase 3 projects (M15-M24): Done and On-going through project extension and post-project periods
13. Transfer of knowledge (best practices) and methodologies (e.g. Living Labs methodologies) to Phase 3 projects and to the Flspace community in general (in the way of educational materials) (M15-M24): This task could be partly realised due to some deviations from the original platform development timeline. Best practises from use case trials to be used for inspirational purposes for phase 3 projects: Done (D500.2.2 and in particular brochures developed by Task 560)
14. Building the developers community (M12-M24): Done
15. Organise special workshops/sessions for phase 3 proposers (under T570 umbrella): Deviation from original plan as it appeared not needed. Phase 3 proposers contacted Flspace and were informed on demand. In addition, based on developers needs two face-to-face workshops have been organised in M24 and M30 – further information about the workshops' agenda is available in [section 3](#).

Figures 1 and 2 were presented in D500.1.4. These two high-level plans for year 2 prescribed the two main focuses in ecosystem building:

1. The internal preparation to support the Phase 3 projects
2. All the supporting tools and actions delivered towards Phase 3 accelerators

In parallel to all these supporting activities, and during year 2, the use case trials continued delivering educational activities to their communities. The main deviation is that year two activities were continued during the extension period and a part of them during the post-project period. This has rather been positive in terms of overall community engagement.

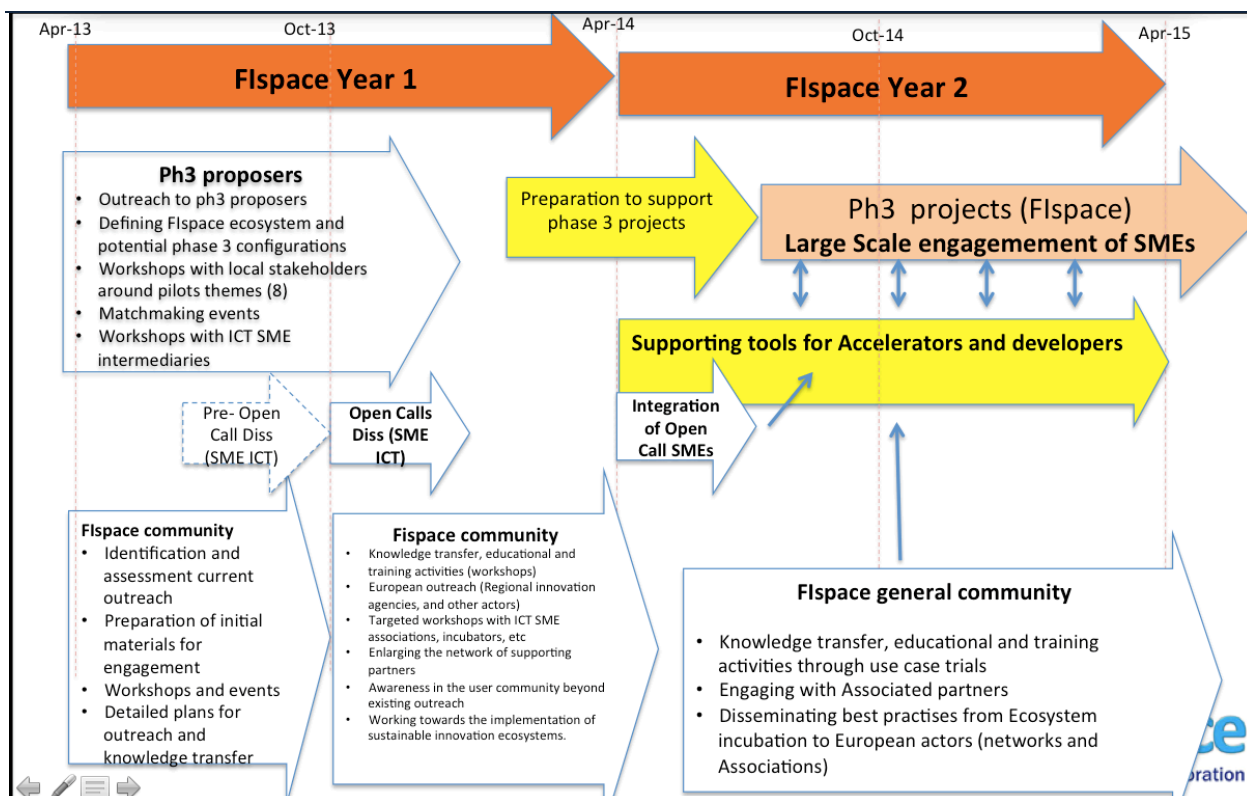


Figure 1: Ecosystem Incubation during year 2

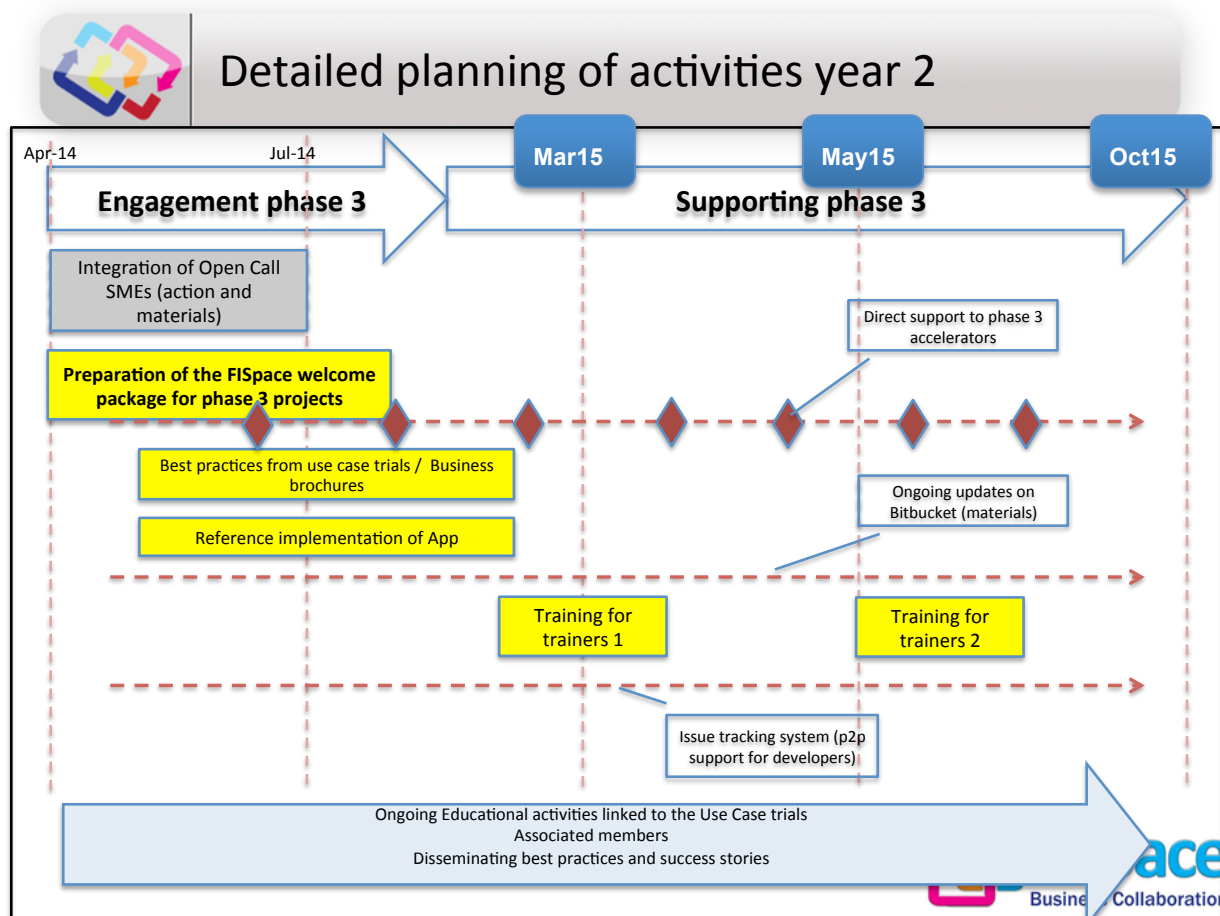


Figure 2: Reviewed overview of activities for year 2 (ecosystem incubation)



### 3 Support from FIspace to Open Call and Phase-3 projects – Report on Knowledge Transfer, training and educational activities

Subtask 453 (“Involvement of new apps developers by open call”), led by ATOS and part of WP400, covered the involvement of new partners in the FIspace Ecosystem, provided them support, and a set of activities defined in the integration plan (reported through WP400 deliverables).

The integration of these new partners/SMEs as applications developers helped to prepare for the support that FIspace provided to Phase 3 projects and Phase 3 developers in general. In particular:

1. The process of integration of new SMEs helped WP500 to understand the main (technical and business) challenges and therefore to improve the provided support
2. Some of the materials created to support the SMEs as application developers could be refined and reused to support Phase 3 projects and their developers.

The integration plan for the open call SMEs included:

- Administrative issues (not relevant for the purpose of supporting SMEs out of this context)
- General documentation (not relevant for the purpose of supporting SMEs out of this context)
- First steps in Bitbucket (relevant to support SMEs and, later, accelerators), including:

- [Getting-started I<sup>4</sup>](#)

How to create a new project in FIspace environment using Maven and how to deploy and test it

- [Getting-started II<sup>5</sup>](#)

How to communicate with FIspace.

- [Getting-started to deploy first widget<sup>6</sup>](#)

How to deploy a widget in FIspace

- [Getting-started with the SDK<sup>7</sup>](#)

How to use the SDK

- [How to create an issue<sup>8</sup>](#)

How to create an issue in FIspace apps

- Face-to-face technical meetings (WP200), technical documentation and webinars, all relevant to support SMEs and accelerators.
- Integration in the use case trial ecosystem (relevant to understand integration of SMEs as app developers in the FIspace innovation ecosystems).

<sup>4</sup> <https://bitbucket.org/fispace/apps/wiki/tutorial/getting-started/tutorial>

<sup>5</sup> <https://bitbucket.org/fispace/apps/wiki/tutorial/getting-started-2/tutorial>

<sup>6</sup> <https://bitbucket.org/fispace/apps/wiki/tutorial/getting-started-to-deploy-first-widget/tutorial>

<sup>7</sup> <https://bitbucket.org/fispace/apps/wiki/tutorial/getting-started/sdk-tutorial>

<sup>8</sup> <https://bitbucket.org/fispace/apps/wiki/tutorial/getting-started/create-issue>

These predefined and realised actions by WP400 helped to prepare a support package and plan for Phase 3 project support. The program had to be aligned with the deviations experienced during the Experimentation Environment and Flspace platform development.

The focus of the community building, training and educational activities in year 2 was to **grow the community together with Phase 3 projects**, with a particular emphasis on:

- Developers community (new SMEs as application developers/developers)
- Support to phase 3 accelerators (knowledge transfer, community building and developing sustainable ecosystems)
- Keep the community growing and find associated partners

Flspace supported the FI-PPP Phase 3 projects and SMEs as software developers joining through Phase 3 Open Calls by:

- Transferring knowledge to accelerators (through direct and indirect channels) and provide them with tools to attract developers.
- Providing tools, training and support for developers.
- Supporting the development of sustainable ecosystems

### 3.1 The engagement period

The engagement period was defined by the Flspace project as the period from when the Phase 3 projects got on board until when the SME/App developers got on board through the phase 3 projects Open Calls. Phase 3 Open Calls were launched during Autumn-Winter 2014 and following the announcement of the results Phase 3 App developers were on board from Winter-Spring 2015<sup>9</sup>.

Figure 3 provides, in a three-year view, an update of the original plan, including extensions to support Phase-3 projects in alignment with the different Flspace releases. It can be summarized as follows:

- May 2014 – Sep/Oct 2014: Engagement with Phase-3 projects
- Oct 2014 – Apr 2015: Knowledge transfer, educational and training activities. Support to Apps developers community building and ecosystem incubation
- May 2015 – Sep 2015: Extended technical support and knowledge transfer activities by Flspace partners
- Oct 2015 – Sept 2016: Technical support provided by main technical partners, coordinated by the Flspace Foundation

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<sup>9</sup> FINISH Accelerator launched a second call later in 2015

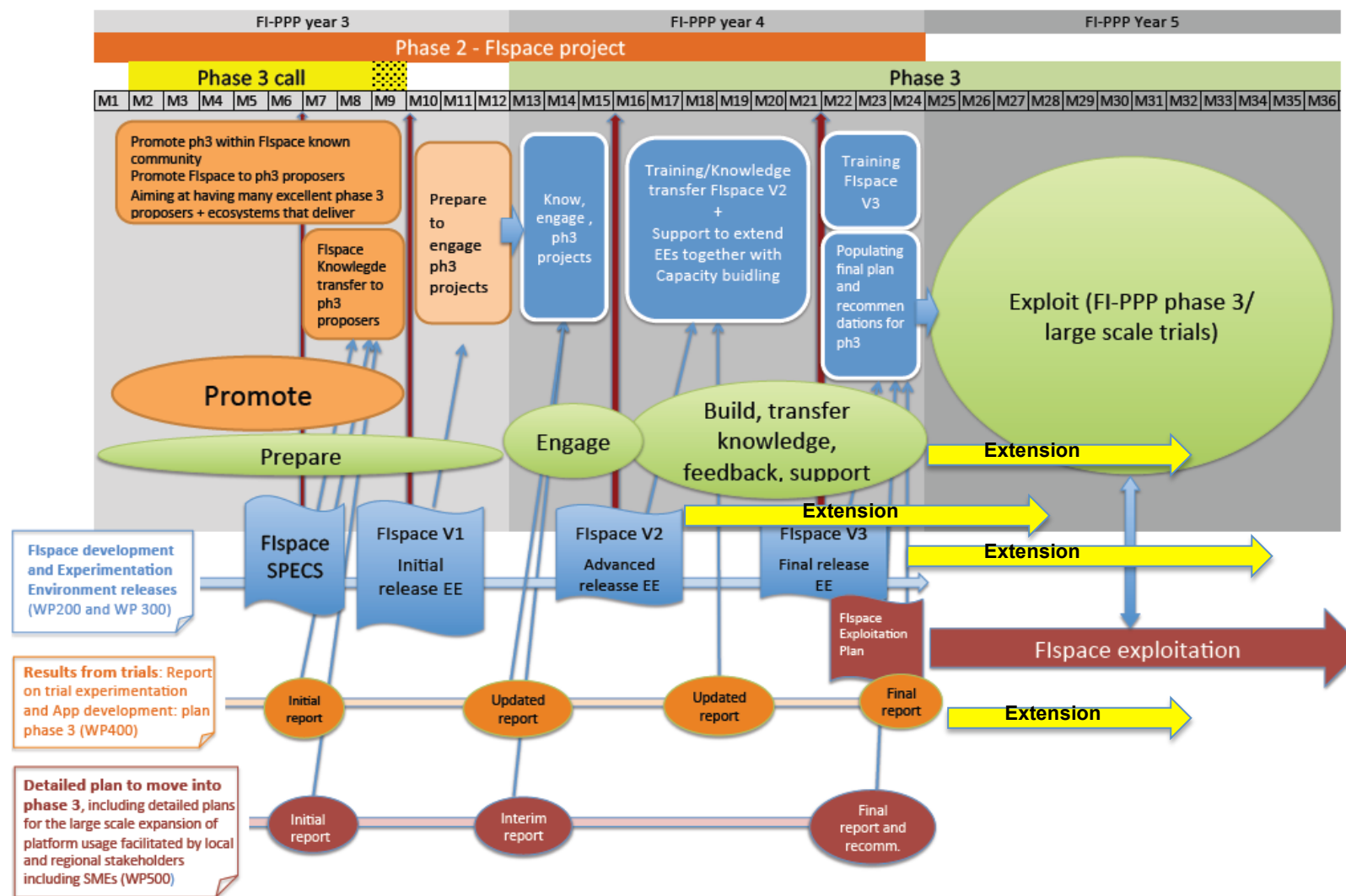


Figure 3 Updated High Level community building plan (Updating scheme from deliverable 500.1.4)

From the engagement point of view, Flspace differentiated Phase 3 projects in two different groups:

- Phase 3 projects that built their proposals already considering the Flspace platform, and thus having certain level of knowledge on the platform capabilities and the Flspace partners are involved in them.
- Phase 3 projects that did not build their proposals considering only the Flspace platform, but that could be interested in exploring possibilities, because 1) they focus on the AgriFood domain; 2) they follow a multi-domain approach, or 3) they deal with business-to-business collaboration and would profit from the benefits that the Flspace platform offers.

During the engagement period, Flspace project prepared the followings to the Phase 3 accelerator projects:

Action	Timing
Setting an internal structure and dynamics to support phase 3 accelerators	April – June 2014
Flspace Welcome webinar for accelerators (a)	24 <sup>th</sup> July 2014
Establishing support channel for Accelerators (b)	August 2014

Table 1 Educational and supporting activities for Phase 3 projects during the engagement period

**a) Flspace “Welcome webinar”.**

This welcome package consisted of information about the Flspace platform capabilities for development, experimentation, and exploitation, support provided and terms and conditions. In particular the presented topics were:

- Introduction to Flspace
- Architecture and adding value-add functionality through Apps, and configuration workflows
- Apps development overview
- Workflows overview
- High level summary of platform features, roadmap and tools for developers
- Experimentation environment
- Business models and exploitation

This welcome package targeted Phase 3 SME, umbrella organisations and accelerators (or similar organisations that in the Phase 3 consortia have a role to (technically) support SME/web-entrepreneurs). The welcome package was delivered during Summer 2014 to help accelerators to prepare the launch of their open calls. All together 41 registrations were registered and Accelerators were present on behalf of: SAF, Finish, ExpaMeco, CEED Issue, Finodex and representatives of XIFI and FIWARE. The webinar has been recorded and published on the website<sup>10</sup>.

<sup>10</sup> <http://fespace.eu/webinars.html>

- b) **Direct support to accelerators: Flspace created a distribution list accelerator contact point** ([Flspace-Phase3@fispac.eu](mailto:Flspace-Phase3@fispac.eu)) to enable accelerators to better engage with Flspace. Based on needs, virtual meetings were arranged between the accelerators and the Flspace task force, to commonly assess challenges and issues and evaluate progress. All Flspace related events and training sessions were shared through the direct and Flspace social media channels.

### 3.2 The development and experimentation period

The development and experimentation period is defined as the period when the SMEs as application developers are engaged through the phase 3 project Open Calls.

During the development and experimentation period, Flspace project offered to the Phase 3 accelerator projects:

Action	Timing
Best practices from use case trials (or business brochures) (a)	By September 2014
Reference implementation of a Flspace App (b)	By September 2014
Online educational materials (c)	From September 2014 (continuous till last release of Flspace EE)
Q&A webinars for developers (d)	October – May 2015
F2F training for trainers and developers (e)	25-26 <sup>th</sup> March 2015, Net futures (Brussels)
Phase3 Bitbucket issue tracker group (f)	From April 2015
F2F training for trainers and developers (g)	2 <sup>nd</sup> September 2015, Bremen
Review of website and documentations (h)	Continuous

Table 2 Educational and supporting activities for Phase 3 projects during the development and experimentation period

- a) **Best practices and examples from Flspace pilots**, in the format of business brochures have been published and distributed during Flspace dissemination events (details can be found in D.500.6.7 and in [section 4](#)), with the aim to inspire accelerators and app developers.
- b) **Reference implementation of an App**, i.e. a fully fledged App that uses platform features and that can be used for App developers to learn from and bootstrap their contributions
- c) **Online educational materials**:  
The Flspace website and Bitbucket (linked to the Flspace website) are the entry points to access these materials:
- webinars - <http://fispac.eu/webinars.html>

- recorded videos of face to face training sessions - <http://finspace.eu/tutorials.html>
- guides for App Developers, Biz Architects and End Users - <https://bitbucket.org/fi-space/doc/wiki/Overview>
- technical documentation for FIspace components - <https://bitbucket.org/fi-space/doc/wiki/Home>
- list of public deliverables - <http://finspace.eu/publicdeliverables.html>
- issue tracker - <https://bitbucket.org/finspace/core/issues?status=new&status=open>

#### d) Q&A webinars for developers

All together 8 webinars took place during the Phase 3 development and experimentation period (Autumn 2014 – Spring 2015) around the following topics<sup>11</sup>:

- 1) Welcome webinar for Accelerators, Open Call SMEs and potential FIspace stakeholders
- 2,3,4) Q&A webinars for SmartAgrifood2 Open Call developers. During the open call period of SmartAgrifood2, the applicants had three occasions to raise their questions remotely to the FIspace technical team
- 5) Introduction to the experimentation environment
- 6) Introduction to FIspace applications, Communication between Apps
- 7) FIspace security models Q&A webinar
- 8) Capabilities and business to business

During the webinars participants had the opportunity to ask questions through the live chat window of the webinar system.

- e) **F2F training for trainers and developers** has been organized in the framework of the Net Futures 2015 conference in Brussels, 25-26<sup>th</sup> March 2015 (further info can be found in D.500.6.7), where around 100 participants took part representing mainly SmartAgrifood2 and FINISH Accelerators and their open call developers. The sessions have been recorded and published on the FIspace website<sup>12</sup>.

#### Sessions of the workshop:

- General introduction
- FIspace Foundation
- Experimentation Environment and Security
- Front-end, SDK, SDI
- Business to Business
- How to develop an app on FIspace?
- Support to Phase 3
- Q&A

#### f) **Phase3 Bitbucket issue tracker group**

FIspace was not intended to provide direct support to developers and SMEs, unlike phase 3 projects/accelerators. However during the extension period of the

<sup>11</sup> <http://finspace.eu/webinars.html>

<sup>12</sup> <http://finspace.eu/tutorials.html>

project it was found necessary (based on reported needs from accelerators) to put in place a new procedure in order to provide technical support to external developers. Flspace internal developers and external (phase 3 selected) worked with the same issue tracking system (bitbucket) that facilitated the peer-to-peer collaboration between developers – more detailed information can be found under [section 3.3](#)). During the extension period of the project, Accelerators using Flspace solutions have raised 85 issues in the Phase3 Bitbucket issue tracker group.

- g) **F2F training for trainers and developers** was organized in the framework of the 5th General Meeting that took place in Bremen, Germany September 2nd 2015. The aim of the workshop was to show the latest updates and available functionalities of the platform through a live, step-by-step demonstration of an end-to-end example. The workshop welcomed 25 participants representing all five Accelerators (list of [Accelerators in section 7](#)) interested to use or using Flspace solutions.

#### Sessions of the workshop:

- Flspace in practice - Weather scenario presented from different aspects/different users point of view  
(Brief explanation of each user role and things that can be done by each of them)  
How to request a role? Differences of the tools used by each of them in the frontend: developer; business architect; (end user)
- Efficient API programming
- Widgets and services in the store
- Connecting to Flspace securely
- Upcoming feature demonstration
- Working with the EPM and BCM
- Programming using the Flspace SDK
- Q&A; feedback from developers

#### **h) Review of website and documentations**

The Flspace website<sup>13</sup> had continuous reviews and updates throughout the project based on new available content and feedbacks received from external channels. In terms of documentation<sup>14</sup>, updates have been carried out based on the new releases of the experimentation environment. The final documentation can be expected to be published after the final release of cycle 16.

<sup>13</sup> <http://fespace.eu/>

<sup>14</sup> <https://bitbucket.org/fi-space/doc/wiki/Home>

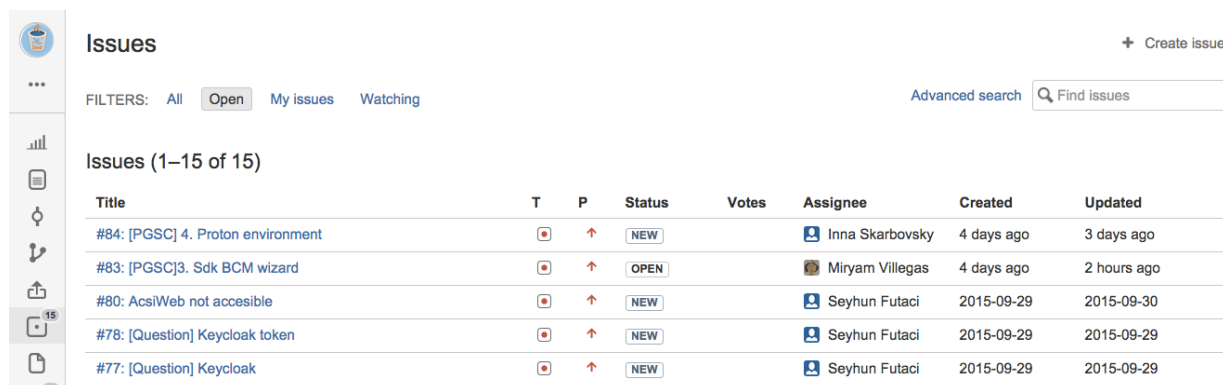


### 3.3 Specific Phase 3 support during the project extension (M25-M30)

#### Technical support based on request

In addition to engagement activities offered to Phase 3 accelerator projects and developers during the development and experimentation period, a technical support process has been put in place in order to guarantee the continuity, availability and quality of service delivered to developers. The intermediary tool to submit technical issues is Bitbucket<sup>15</sup>, where a separate group has been created especially for Phase 3 developer requests<sup>16</sup>. The technical support is provided by the Flspace technical team and issues are raised by the Flspace Accelerator channel ([Section 7](#)). Thus this procedure served also the goal of transferring knowledge towards Accelerators.

During the extension period 85 issues have been raised. Issues were mainly concentrating on reporting bugs, or raising questions about the code especially after publishing new release of the Experimentation Environment.



Title	T	P	Status	Votes	Assignee	Created	Updated
#84: [PGSC] 4. Proton environment	🇷🇺	↑	NEW		Inna Skarbovsky	4 days ago	3 days ago
#83: [PGSC]3. Sdk BCM wizard	🇷🇺	↑	OPEN		Miryam Villegas	4 days ago	2 hours ago
#80: AcsiWeb not accesible	🇷🇺	↑	NEW		Seyhun Futaci	2015-09-29	2015-09-30
#78: [Question] Keycloak token	🇷🇺	↑	NEW		Seyhun Futaci	2015-09-29	2015-09-29
#77: [Question] Keycloak	🇷🇺	↑	NEW		Seyhun Futaci	2015-09-29	2015-09-29

Snapshot of Flspace Phase3 issue tracker

<sup>15</sup> <https://bitbucket.org/>

<sup>16</sup> <https://bitbucket.org/flspace/phase3support/issues>



## 4 Report and updates of educational and training activities realised by use case trials (updates on D500.1.2)

The reported activities of [section 3](#) were strengthened and exploited by the activities realised by each of the use case trials.

Subtask 512 was defined with the main goal of identifying and structuring educational activities and material for internal project participants and external partners interested in participating in phase 2 and phase 3 of the Flspace project.

D500.1.2 (detailed plan for educational and training activities, M6) was a result of the work in subtask 512, inputs from the use case trial leaders, and inputs from WP200 and W300 representatives. That report together with the D.500.1.4 interim report described the activities, the material already available and the community already involved by M12. **This section provides an update on that information in particular in reference to the use case trials during year 2 and the extension period<sup>17</sup>.**

Within the framing task 510 “Ecosystem Incubation” that deals with the process and actions to build local, regional and cross-border communities across Europe and beyond. Respectively, these communities have to get to know, to understand and to use the project capabilities, and as such, they are able to exploit the potential for innovation of the Flspace platform.

This section reports on information updates about how the previously defined target groups have been addressed during year 2, furthermore it contains the list of materials that have been prepared by the use case trials.

Name	Main topics	Project partners and location
<b>Crop protection information sharing</b>	Use of field sensor and satellite data to intelligently manage the application of pesticides for maximum crop protection	DLO, Kverneland, LimeTri; The Netherlands
<b>Greenhouse management &amp; control</b>	Use of sensors to monitor key growth factors (UV radiation, moisture and humidity, soil conditions, etc.) and to feed-back data to control systems to modify the growth environment for maximum yield and optimal quality	NKUA, OPEKEPE, Innov; Greece
<b>Fish distribution and planning</b>	Planning of logistics and transport activities, including transport order creation, transport demand (re)planning and distribution (re)scheduling	MRTK, NCL; Germany, Norway
<b>Fresh fruit and vegetables quality assurance</b>	Management of deviations that affect the distribution process for fresh fruit and vegetables (transport plan, food quality issues)	CentMa, GS1, Euro Pool Systems; Germany
<b>Flowers and plants supply chain monitoring</b>	Tracking and tracing of shipments, assets and products, including monitoring product quality and shelf life prediction	DLO, Florecom, GS1, Mieloo & Alexander; The Netherlands

<sup>17</sup> In the report there are deviations compared to the original training and educational plans offered by use case trials (D.500.1.4), due to the slower platform development process and availability of the EE.

Name	Main topics	Project partners and location
<b>Meat information and provenance</b>	Ensuring accurate information concerning the origin of a meat product and how it was affected by its distribution (quality assurance)	WU, GS1; The Netherlands
<b>Import – Export of consumer goods</b>	Intelligent management of inbound materials to a production site and the smart distribution of finished goods to consumers	ARC, K+N; China, Turkey, Germany
<b>Tailored information for consumers</b>	Provisioning of personalized information to individual consumer's needs and feedback of this information to the producers	ATOS, UPM, PlusFresc; Spain

Table 3: Description of use case trials in Flspace.

#### 4.1 Communicating with the farming community

A detailed description of this target group can be found in D500.1.2, section 2.1 and 2.2.

##### 4.1.1 Addressing target group during project duration

Table 3 shows an updated list of activities targeting the referenced community.

Type of communication	Target Group	Focus	Timing
<b>Workshop</b>	Farmer groups in the Netherlands. Forerunners in respect of Precision farming.	Demonstrations of principles of Flspace and the Phytophthora advice system and feedback	June 2015 M28
<b>International meetings</b>	Agricultural equipment manufacturers and agricultural software developers	Standardisation of communication in Agriculture. Principles of the Flspace platform are presented. Bring the ISO11783 standard and the drmCrop information model in one line.	April 2014 (M13) in Tokyo, April 2015 (M25) in Frankfurt.
<b>International Workshop</b>	Agricultural Software developers	Presentation of the Crop Protection Information Sharing trial as an example of using the Flspace platform for information sharing in agriculture. Presentation by four partners in the project.	M16 in Paris
<b>National Meetings (NL)</b>	Agricultural Software devel-	Standardisation of communication in Agriculture in the	Several meetings from April 2014 – October 2015

	opers.	Netherlands. Principles of the Flspace platform are presented. Present the drmCrop information model as basis for the EDI-Teelt standard.	(M12-M30)
<b>Bilateral</b>	Agricultural Software developer	Input to Tyker Technology, developer of the FACONEX 3th phase project, where drmCrop is extended to facilitate additional requirements from this project.	May 2015-August 2015.

Table 3 Reported and planned activities of the Farming Community trial

#### 4.1.2 Revision of material and utilization plans during project duration

Table 2 provides an updated version of the provision of materials incorporating some materials to support developers in phase 2 and phase 3.

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Software developers for phase 2 and phase 3.	Analyses and design documentation in Enterprise Architect (UML tool)	Y	Y	Defines a business process model, a reference data model, and xml model and a wsdl with xsd' as basis for messages.	Y	On request and <a href="http://pragmaas.com">http://pragmaas.com</a> in maps rmCrop, xml and coding lists.

Table 4 Available materials from the Farming Community trial

## 4.2 Communicating with the Greenhouse community

A detailed description of this target group and its vision and expectations can be found in D500.1.2, section 3.1 and 3.2

### 4.2.1 Addressing target group during project duration

Table 5 includes an updated version of the activities performed and planned towards the Greenhouse community. Several workshops and presentations targeted both the agricultural domain community, as well as the ICT SMEs and developers (including the ones that joined the trial through the Flspace Open Call).

Type of communication	Target Group	Focus	Timing
<b>Presentation</b>	ICT community	Presentation of FIWARE concept, Flspace Platform and Greenhouse trial emphasizing on the Internet of Things domain, "Future Internet Space: Cloud-enabled IoT data management for Smart Farming, tracing and business request matching"	PCI 2015, September 2015, Athens, Greece
<b>Presentation</b>	ICT community	Presentation of Flspace in the 6th International Conference of the Hellenic Association of Information & Communication Technologies (HAICTA) in Agriculture, Food and Environment emphasizing on the app development Greenhouse trial and the Flspace platform	HAICTA 2015, September 17-20, 2015, Kavala, Greece (M30)
<b>Workshop session</b>	ICT Agriculture community,	Presentation of Greenhouse trial and Flspace platform as a standalone session of AgriMatics 2014 conference. Topic: "Smart Greenhouse Management & Control on Flspace B2B platform"	Smart AgriMatics 2014, Paris, France (June 2014, M15)
<b>Talk</b>	Association of IT SMEs of Greece, Thessaloniki, Greece	Present the Flspace project, emphasizing on the Greenhouse Community to the "SEPE" and "SEPVE"	March 2014
<b>Presentation</b>	Potential end	Presentation of Flspace in	October 2013

	users		the European Conference “This Farm is Your Business”	
<b>Presentation</b>	Potential users	end	Presentation of Flspace in “AGROTICA FAIR 2014” - the 25 <sup>th</sup> International Fair for Agricultural Machinery, Equipment & Supplies	January 2014
<b>Workshop</b>	End-users, Agri-food businesses, Farmers, ICT solution providers etc.		After the 1 <sup>st</sup> release of the trial specific apps, a workshop took place emphasizing on the apps’ functionalities	M12
<b>Workshop</b>	Open Call partner		Detailed discussions, demo and presentation of the current Flspace platform release, the trial’s exact goals with regard to the app development and the SDK features available	M12-M15
<b>Workshop</b>	End-users, Agri-food businesses, Farmers, ICT solution providers etc.		After the pre-final release of the trial-specific apps, a workshop on testing and receiving feedback on the apps’ functionality	M24
<b>Press releases in portals</b>	Civil Society, Greek Farmers		Announcement in the University of Athens portal, the OPEKEPE portal, as well as other domain-specific or not, portals	M6 – M24
<b>Articles to be in the popular press (tentative)</b>	Civil Society – Greek Farmers		Announcement about the Greenhouse Trial and the Flspace project	M6 – M24

Table 5 Reported and planned activities of the Greenhouse trial

#### 4.2.2 Revision of material and utilization plans during project duration

Table 6 provides an updated version of the provision of materials adding some materials to support SME as applications developers that join the project through the Open Call.

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Internal partners, dissemination material for external stakeholders	Presentation	Y	Y	An often updated presentation of the Greenhouse Management & Control trial	Y	Owncloud – Dissemination Material
Mainly internal partners	Presentation	Y	Y	2nd Educational Session organized by NKUA team	Y	Owncloud – Meetings – Education Sessions
Agri-food businesses, ICT community, Civil Society	Leaflet	Y	Y	Greenhouse Management & Control leaflet with an overall description of the use cases of the trial as well	Y	Available on request – already distributed to WP500 dissemination team
Farmers, Agri-food Businesses, ICT community	Presentation	Y	Y	Greenhouse trial's Apps to be used in the use cases with GUI mockups, functionality description etc,	Y	Available on request

Table 6 Available materials from the Greenhouse Community trial

### 4.3 Communication with Food Chains: Fish

A detailed description of the target group addressed and its vision and expectations can be found in D500.1.2, section 4.1 and 4.2

#### 4.3.1 Addressing target group during project duration

Table 7 is an updated version of the activities planned towards the Food Chain - Fish community, also introducing new activities to support Open Call accepted SMEs.

Type of communication	Target Group	Focus	Timing
Brochure describing Fish Trial	Fish producers, carriers, other supply chain stakeholders	Present the benefits of using Future Internet capabilities in fish transport planning and booking	M13 (April 2014) and several updates
Workshop, presentation and paper at International Conference on Smart AgriMatics 2014.	Carriers, ICT, Transport Users, Fish Producers, including Open Call Partner.	Future Internet Capabilities for Fish Supply Chain. Presentations and discussions both from domain stakeholders and ICT stakeholders.	M15 (June 2014)
Paper and presentation at "International Maritime and Port Technology and Development Conference 2014"	Transport community, developers, research community	Paper Title: Future Internet Based Services for Improved Transport Planning and Capacity Utilization.	M19 (Oct 2014)
Stakeholder meeting with NCL's business partners	Shipping agents, cargo owners	Presented the ideas prototyped in the CargoSwApp Open call app.  Got feedback on the functionality covering matchmaking of transport services and transport demand based on real time data.	September 2015
Open Call Partner Follow-up	Open Call Partner, SDZ	Training, Requirement specification, follow up, collaboration on testing and verification	M13 till end of project
Continue communication with app/service developers in T450 (teleconferences, demonstrations)	Fish Trial partners, Open call partner in Fish Trial	Give feedback on current status of apps and services under development in T450.	M13 till end of project
<b>Video demonstration of the CargoSwApp Open call app.</b> <sup>18</sup>	Carriers, ICT, Transport Users, Fish Producers, including Open Call Partner, other cargo owners.	Presentation of CargoSwApp, presentation of the matchmaking facilities between transport demand and transport services, presentation of benchmarking and booking facilities of CargoSwApp.	Finalized January 2015 and used in several community building activities after that.

<sup>18</sup>[https://www.dropbox.com/sh/wg7cefu4j8474cu/AACXZmXtC0K1TNkgomgYhbHOa?dl=0&preview=Car goSwApp2.mp4](https://www.dropbox.com/sh/wg7cefu4j8474cu/AACXZmXtC0K1TNkgomgYhbHOa?dl=0&preview=Car%20goSwApp2.mp4)

Type of communication	Target Group	Focus	Timing
Use Open call app CargoSwApp as demonstration in development of a Norwegian short sea shipping e-Marketplace.	Norwegian short sea shipping actors	Testing matchmaking, benchmarking and booking facilities by use of the Open Call App CargoSwApp	2016 and 2017
Demo of CargoSwApp	Carriers, ICT, Transport Users, Fish Producers, including Open Call Partner, other cargo owners.	Possibility for users to test the CargoSwApp functionalities	Ready from early 2015 and onwards
Presenting the video demonstration of the CargoSwApp to several stakeholders related to the Norwegian short sea shipping market	Forwarders, ICT developers, shipping lines, short sea promotion centre, cargo owners, research organizations	Presentation of CargoSwApp, presentation of the matchmaking facilities between transport demand and transport services, presentation of benchmarking and booking facilities of CargoSwApp.	May-Oct 2015
Pre-project with NCL and MARINTEK to <b>set up a project proposal for a Norwegian short sea e-Marketplace.</b>	Norwegian short sea stakeholders including shipping lines, forwarder, research, marketing and ICT (13 stakeholders all together)	Matchmaking of available transport capacities (ship and container) and transport demand, benchmarking, booking, all based on real time information	Project planned for 2016 and 2017
Information leaflet on the Fish Distribution (Re-) planning <sup>19</sup>	Carriers, ICT, Transport Users, Fish Producers, including Open Call Partner, other cargo owners.	Presentation of Fish trial motivation and solution	Last version September 2015

Table 7 Reported and Planned activities of the Fish trial

#### 4.3.2 Revision of material and utilization plans during project duration

No major updates provided in reference to the already provided list in D500.1.2. The list of materials is included here for consistency purposes.

<sup>19</sup> <http://www.fispace.eu/Documentations/Leaflets/fish-distribution-leaflet.pdf>



Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Workshop participants	Presentations and enquiries for close workshops	Y	N	Y	Y	On request
Interested stakeholder	Presentations and enquiries for open workshops	Y	Y	Y	Y	ownCloud
Interested stakeholder	Flyers and presentations	Y	Y	Y	Y	ownCloud
General public, scientific community or stakeholder group	Articles and papers openly available	Y	Y	Y	Y	Publisher's website
General public, scientific community or stakeholder group	Articles and papers not openly available	Y	N	Y	Y	On request

Table 8 Available materials from the Fish trial

#### 4.4 Communicating with Food Chains: Fresh Fruits and Vegetables

A detailed description of the target group addressed and its vision and expectations can be found in D500.1.2, section 5.1 and 5.2

##### 4.4.1 Addressing target group during project duration

Table 9 combines a report on activities done in the last 6 months with a new list of planned activities for year 2014 targeting the Fruit and Vegetables community. This use case trial organized several workshops from M7 to M9 to engage stakeholders in the Flspace Open Call and phase 3 proposals.

Type of communication	Target Group	Focus	Timing
<b>Workshop</b>	FFV Stakeholder	Educational session for relevant stakeholder, identification of collaboration activities and needs	November 2013, Hamburg
<b>Stakeholder Information</b>	Dutch Production Association DPA	Presentation and discussion about the Project and the Trial, also on Phase 3 and potential roll out strategies	November 2013, The Hague
<b>Stakeholder Information</b>	European Fruit and Vegetable Association FreshFel	Presentation and discussion about the Project and the Trial, also on Phase 3 and potential roll out strategies	November 2013, Brussels
<b>Stakeholder Information</b>	German Fruit and Vegetable Association BVEO	Presentation and discussion about the Project and the Trial, also on Phase 3 and potential roll out strategies	November 2013, Berlin
<b>Workshop</b>	German Association of IT in Agriculture (IT Community)	Joint Workshop of Food Chain Trials at the GIL assembly 2014	February 2014, Bonn (Germany)
<b>Food Dynamics Conference</b>	Scientific Community	Presentations and Discussions with the scientific community Flspace Session	February 2014 Innsbruck, Igls (Austria)
<b>Agrimatics Conference</b>	Scientific community IT in Agri-Food	Presentation of the FFV trial	June 2014
<b>Stakeholder information</b>	KTBL-Tage	Presentation of FFV trial and phase 3 developments	

<b>Intern. Conference</b>	Agribusiness community		Presentation of FI-PPP, Flspace and FFV trial	June 2014
<b>World Conference</b>	IT in Food community		Presentation of FI-PPP, Flspace and FFV trial	July 2014
<b>European Conference</b>	Agrifood Economics and Management community	Eco- and	Presentation of Flspace trial approach	August 2014
<b>Asian Conference</b>	IT in Food community		Presentation of FI-PPP, Flspace and FFV trial	September 2014
<b>European Chain Conference</b>	Business Science	and	Presentation of FI-PPP, Flspace and FFV trial	June 2014
<b>Stakeholder and partner meeting (one or several)</b>	Incoming partners and stakeholders	part-ners and stake-holders	Clarification of domain specific App development	April 2014 (planned)
<b>Food Dynamics Conference</b>	Scientific community	Com-munity	Presentations and Discussions with the scientific community Flspace Session	February 2015 Innsbruck, Igls (Austria)
<b>GFIA, Global Forum for Innovations in Agriculture</b>	Scientific community and stakeholders	Com-munity and	Invited presentation	Abu Dhabi, March 9-11, 2015
<b>1st International Conference on Agrifood SCM and Green Logistics</b>	Scientific community and stakeholders	Com-munity and	Invited presentation	Porto Carras (Greece), May 27-30, 2015
<b>European Conference of EFITA</b>	Scientific community	Com-munity	Special session Fiware/Fispace	Poznan (Poland), June 29-July 2, 2015
<b>International Seminar "Challenges at the frontiers"</b>	Scientific community	Com-munity	Keynote presentation	Perugia (Italy), July 6, 2015

Table 9 Reported and Planned activities of the Fresh Fruit and Vegetable trial

#### 4.4.2 Revision of material and utilization plans during project duration

Table 10 provides an updated version of the provision of materials with some new additions.

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Interested stakeholder	Presentations and enquiries for close workshops	Y	N	Y	Y	On request
Interested stakeholder	Presentations and enquiries for open workshops	Y	Y	Y	Y	Ownccloud
Interested stakeholder	Flyers and presentations	Y	Y	Y	Y	Ownccloud
Interested stakeholder	Flyers and presentation	Y	Y	Y	Y	Ownccloud
All interested stakeholders	App screen Mock-up presentation based on FFV example	Y	N	N	Y	Ownccloud
All interested stakeholders	Product information model	Y	Y	N	Y	Under development
Stakeholders	Prototype of Pinf App	Y	N	N	Y	On request

Table 10 Available materials from the FFV Trail

## 4.5 Communicating with Food Chains: Flowers and Plants

A detailed description of the target group addressed and its vision and expectations can be found in D500.1.2, section 6.1 and 6.2

### 4.5.1 Addressing target group during project duration

Table 11 updates planned activities for year 2014 for the Food Chain, Flowers and Plant community. Main updates relate to adjustments in timing.

Type of communication	Target Group	Focus	Timing
<b>Presentation</b>	Software suppliers and ICT managers	Results of the trial project	1st half 2014
<b>Presentation</b>	Software suppliers Flowers& plants Floricode community	Results of the trial project	2nd half 2014
<b>Newsletter project</b>	Stakeholders	Details about the trial	1st half 2014
<b>Workshop with presentation</b>	Future users of Flspace project: growers	Opportunities of the phase 3 projects	1st half 2014
<b>Workshop</b>	Researchers, software suppliers, future users	Results of the trial project and future perspectives	1st half 2014

Table 11 Reported and Planned activities of the Flowers and plants trial

### 4.5.2 Revision of material and utilization plans during project duration

No major updates have been developed since month 6 in reference to the list of materials and utilisation plans already provided in D500.1.2. Table 12 shows a copy of the list of materials for consistency purposes

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Business Stakeholders	Presentations and enquiries for close workshops	N	Y	Y	Y	On request
Business stakeholders	Presentations and enquiries for open workshops	Y	Y	Y	Y	On request
All interested stakeholders	Leaflets, documents, articles	Y	Y	Y	N	<a href="http://www.tuinbouwdigitaal.net/nl-nl/onderzoek/asmartergreenport/kwaliteitgestuurdett.aspx">http://www.tuinbouwdigitaal.net/nl-nl/onderzoek/asmartergreenport/kwaliteitgestuurdett.aspx</a>

Table 12 Available materials from the Flowers and Plants trial

## 4.6 Communicating with Food Chains: Meat

A detailed description of the target group addressed and its vision and expectations can be found in D500.1.2, sections 7.1 and 7.2

### 4.6.1 Addressing target group during project duration

Table 13 provides updated information in activities performed (M7-M12) and planned activities for year 2014 for the Food Chain, Meat community.

Type of communication	Target Group	Focus	Timing
<b>Presentation</b>	ICT community; Agri-food businesses	7th International European Forum (Iglis-Forum) - (136th EAAE Seminar) on System Dynamics and Innovation in Food Networks: Innsbruck-Iglis, Austria: A design of an information systems for tracking, tracing and food awareness for the meat sector	February 2013
<b>Leaflet</b>	Agri-food businesses	What is the MIP trial about	October 2013
<b>Presentation</b>	ICT community	GS1 Solution Provider Meeting	December 2013
<b>Presentations</b>	ICT community; Agri-food businesses	a. Scholten, H.: Concepts in meat transparency systems b. Bartram, T.: Role of EPCIS in meat transparency systems	23-24 February 2014
<b>Presentation</b>	Agri-food businesses	GS1 Branchengremium Fleisch	February 2014
<b>Meeting</b>	ICT community; Agri-food businesses, Wageningen (NL)	Collaboration with UN/CEFACT	20 March 2014
<b>Meeting</b>	Induction and integration new partner EECC, Neuss (D)	Detailed planning and start of collaboration	April 4 2014
<b>Workshop Messe</b>	<b>Hannover</b> Ebbits project, Hannover (D)	Different approaches to handle traceability	April 8 2014
<b>Presentations</b>	Smart Agrimatics, Paris (F)	Presentations of: Nieder, Becker (EECC), Bartram (GS1 G), Scholten (WU) on MIP's meat transparency system, i.e. concepts, software apps and EPCIS.	18-19 June 2014



<b>Presentation</b>	Predicative Microbiology– Innovative Tools for better food safety and product quality, organised by Bundesinstitut für Risikobewertung (BfR) and the University Bonn, Cologne (D)	MIP's transparency apps	10 September 2014
<b>Presentation</b>	3 <sup>rd</sup> European Conference on the Future INternet	MIP's transparency apps	17-18 September 2014
<b>Presentation</b>	Agri-food businesses professionals at the Obst & Gemüse Kongress, Düsseldorf (D)	MIP's transparency apps	19 September 2014
<b>Presentation &amp; demonstration</b>	Agri-food businesses professionals, including CEO's	Innovation Day	25 September 2014
<b>Workshops</b>	GS1 Global Standards Events	EPCIS 1.1 working group Event Based Traceability working group	6-10 October 2014
<b>Presentation and demonstration</b>	ID World 2014, Frankfurt am Mainz (D)	MIP's transparency apps	18-20 November 2014
<b>Demonstration</b>	Net Futures: born to scale, Brussels (B)	Showcase with scanning device / live demonstration with tagged meat packages	25-26 March 2015
<b>Presentation and scientific paper</b>	ICT community; Agri-food businesses, EFITA/WCCA/CIGR 2015 Conference, Poznan, Poland	Realizing chain-wide transparency in meat supply chains	June 29 -. July 2 2015

Table 13 Reported and planned activities of the Meat trial

#### 4.6.2 Revision of material and utilization plans during project duration

Table 14 provides an updated version of the provision of materials. The main addition since M6 is the printed leaflet addressing the meat food chain stakeholders.

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Meat supply chain partners, consumers	film on SAF's TTAM pilot :video, already available	Y	Y	Y	Y	<a href="http://www.smartagrifood.eu/pilots">http://www.smartagrifood.eu/pilots</a>
Meat supply chain partners, consumers	pdf-file "How the TTAM system works" Already available	Y	Y	Y	Y	<a href="http://www.smartagrifood.eu/pilots">http://www.smartagrifood.eu/pilots</a>
Meat supply chain partners, Software solution providers	Leaflet as pdf-file, Power Point and maybe in printing format (Eng./ Ger.)	Y	Y	Y	Y	Several versions starting in 2013 and latest version of 2015: <a href="http://www.fispace.eu/Documentation/Leaflets/meat-information-on--provenance-leaflet.pdf">http://www.fispace.eu/Documentation/Leaflets/meat-information-on--provenance-leaflet.pdf</a>
Meat supply chain partners, Software solution providers	Participation and giving a presentation on GIL-Tagung	Y	Y	Y	Y	<a href="http://www.gil-net.de/tagungen.php">http://www.gil-net.de/tagungen.php</a>  2014, February 26th  with online promotion on e.g. <a href="http://www.Flspace.eu/content-type/event">http://www.Flspace.eu/content-type/event</a>

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Meat supply chain partners	Participation and giving a presentation on GS1 Branchen-gremium Fleisch	N	N	Y	Y	February 2014
Meat supply chain partners, Software solution providers	Giving a presentation at the GS1 Solution Provider Meeting	N	N	Y	Y	December 12, 2013 online promotion on e.g. <a href="http://www.Flspace.eu/content-type/event">http://www.Flspace.eu/content-type/event</a>
EECC	Negotiation	Y	N	N	Y	March 2014 (negotiation notes, PowerPoint of ECC)
Meat supply chain partners, Software solution providers	Physical Workshops/ Training on how the Flspace works, what the MIP trial is about/ What the business case is/ what needs the stakeholder and/ or Software solution provider need to fulfil	Y	Y	Y	Y	Beginning with the open call online promotion on e.g. <a href="http://www.Flspace.eu/content-type/event">http://www.Flspace.eu/content-type/event</a>

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Meat supply chain partners, Software solution providers	Press releases/ Articles in business sector related magazines e. g. STANDARDS magazine, „Fleischwirtschaft“,...	Y	Y	Y	Y	Quarterly beginning with open call in November 2013
Meat supply chain partners, Software solution providers	Online public relations measurements: Performance of Web-based seminars on MIP trial	Y	Y	Y	Y	Beginning with presentation of MIP trial on the occasion of Open Call in October 2013
Meat supply chain partners, Software solution providers	Newsletter/ Mailings (e. g. GS1 Solution Provider)	Y	Y	Y	Y	Quarterly beginning with open call in October 2013

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Meat supply chain partners, Software solution providers, consumers	Film on "how the MIP works": video, for presentation on Fairs, Websites, YouTube, ...	Y	Y	Y	Y	<a href="http://eecc.info/files/mip/mip.html">http://eecc.info/files/mip/mip.html</a>
Meat supply chain partners, Software solution providers	Leaflet in printing	Y	Y	Y	Y	Latest version January 2014 ( <a href="http://www.fispace.eu/Documents/Leaflets/meat-information-on--provenance-leaflet.pdf">http://www.fispace.eu/Documents/Leaflets/meat-information-on--provenance-leaflet.pdf</a> )
ICT scientists; Agri-food scientists	Scientific paper	Y	Y	Y	Y	Kassahun, A., Hartog, R., Sadowski, T., Bartram, T., Kläser, S., Scholten, H., 2013. Transparency in food supply chains: A design of an information systems for tracking, tracing and food awareness for the meat sector 7th International European Forum (Igls-Forum) - (136th EAAE Seminar) on System Dynamics and Innovation in Food Networks: Innsbruck-Igls, Austria.

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Meat supply chain partners, Software solution providers	Research paper	Y	Y	Y	Y	<p>Bartram, T., Scholten, H., Kassahun, A., Kläser, S., Tröger, R., Hartog, R.J.M., Schillings-Schmitz, A., Meier, S., 2014. Efficient Transparency in Meat Supply Chains with IT-Standards: EPCIS based Tracking &amp; Tracing for Business Partners, Consumers and Authorities, In: Clasen, M., Hamer, M., Lehnert, S., Petersen, B., Brigitte, T. (Eds.), IT-Standards in der Agrar- und Ernährungswirtschaft, Fokus: Risiko- und Krisenmanagement, 34. GIL-Jahrestagung, 24-25 February 2014. Gesellschaft für Informatik e.V.: Bonn, pp. 185-188.</p> <p><a href="http://www.gil-net.de/Publikationen/26_185-188.pdf">http://www.gil-net.de/Publikationen/26_185-188.pdf</a></p>
Meat supply chain partners, Software solution providers	Y	Y	Y	Y	Y	<p>Scholten, H., Bartram, T., Kassahun, A., Kläser, S., Tröger, R., Hartog, R. J. M., Reiche, R. (2014). Enabling Transparency in Meat Supply Chains: tracking &amp; tracing for supply chain partners, consumers and authorities. In M. Clasen, M. Hamer, S. Lehnert, B. Petersen, &amp; T. Brigitte (Eds.), IT-Standards in der Agrar- und Ernährungswirtschaft, Fokus: Risiko- und Krisenmanagement, 34. GIL-Jahrestagung, 24-25 February 2014 (pp. 181-184). Bonn: Gesellschaft für Informatik e.V.</p> <p><a href="http://www.gil-net.de/Publikationen/26_181-184.pdf">http://www.gil-net.de/Publikationen/26_181-184.pdf</a> )</p>

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
ICT scientists; Agri-food scientists	Y	Y	Y	Y	Y	Kassahun, A., Hartog, R. J. M., Sadowski, T., Scholten, H., Bartram, T., Wolfert, J., & Beulens, A. J. M. (2014). Enabling chain-wide transparency in meat supply chains based on the EPCIS global standard and cloud-based services. <i>Computers and Electronics in Agriculture</i> , 109, 179-190. doi: DOI: 10.1016/j.compag.2014.10.002.
ICT scientists; Agri-food scientists	Y	Y	Y	Y	Y	Scholten, H., Verdouw, C. N., Beulens, A. J. M., & Vorst, J. G. A. J. v. d. (planned June 2016). Defining and analysing traceability systems in food supply chains. In J. Bennett (Ed.), <i>Advances in food traceability techniques and technologies</i> . London: Elsevier.

Table 14 Available materials from the Meat trial



## 4.7 Communication with Consumer good chains

A detailed description of the target group addressed and its vision and expectations can be found in D500.1.2, sections 8.1 and 8.2

### 4.7.1 Addressing target group during project duration

Table 15 provides updated information in planned activities for year 2014 for the Consumer good chain trials with minor adjustments in timing.

Type of communication	Target Group	Focus	Timing
<b>Presentation</b>	LODER (Logistics Association), UND (International Transporters Association), BEYSAD (White Goods Suppliers Association) and TESİD (Turkish Electronics Industrialists Association)	Present the Flspace project	May, June, September, December 2014
<b>Workshop</b>	Koç Holding group of companies (potential end-users)	The available and future apps on Flspace platform has been demonstrated / explained during workshop. Project Brochure and Trial Flyers were distributed to the participants.	April 2015
<b>Workshop</b>	Arçelik's global network (supply chain gathering) and Zer A.S. (Koç Holding's central purchasing company)	The available and future apps on Flspace platform has been demonstrated / explained during workshop. Project Brochure and Trial Flyers were distributed to the participants.	November 2014, December 2014
<b>Press releases in portals</b>	Civil Society, Arcelik Dealers, Distributors, Suppliers	Announcement in the Flspace web site and Arçelik's web portal.	Website and ARPORT since April 2014
<b>Presentation and exhibition at Arçelik Sponsored Events</b>	Industry, Public, Research, Academia	Presentation of Flspace and Consumer Goods Apps, Poster Exhibition, Brochure Distribution and App Demos	Please see Arcelik participated / sponsored events in Dissemination report.
<b>Presentation</b>	LODER (Logistics Association), UND (International Transporters Association), BEYSAD	Present the Flspace project	May, June, September, December 2014

(White Goods Suppliers Association) and TESİD (Turkish Electronics Industrialists Association)

Table 15 Realised activities of the Consumers Goods trial

#### 4.7.2 Revision of material and utilization plans during project duration

No major updates have been developed since M6 in reference to the already provided list of materials and utilisation plans already provided in D500.1.2. Table 14 shows a copy of the list of materials for consistency purposes

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Internal partners, dissemination material for external stakeholders	Presentation	Y	Y	An updated presentation of the Consumer Goods trial	Y	Owncloud – Dissemination Material
Potential stakeholders, users, ICT community, Civil Society	Leaflet	Y	Y	Consumer Goods trial leaflet	Y	Available on request
Potential users, Businesses and ICT community	Flash or video or presentation	Y	Y	Consumer Goods' Apps to be used in the use cases with GUI mockups, functionality description etc,	Y	Available on request

Table 16 available materials from the Consumer Goods trial

## 4.8 Communication with Consumer trial stakeholder group

A detailed description of the target group addressed and its vision and expectations can be found in D500.1.2, sections 9.1 and 9.2

### 4.8.1 Addressing target group during project duration

Table 17 provides updated information on activities performed during M1 to M24 targeting the retail community, mainly consumers, providers and workforce.

Type of communication	Target Group	Focus	Timing
<b>Presentation of TIC apps in a session of Smart AgriMatics 2014 conference.</b>	Scientific and IT community related to Agri-food and retail industry	Session Agenda <ul style="list-style-type: none"> <li>A retail digital transformation: Think it. Design it. Get it. Silvia Castellvi, ATOS</li> <li>IMPROVING THE SHOPPING EXPERIENCE. When food speaks to us. Eloi Montcada, PlusFresc</li> <li>The role of experimental economics in food consumer analysis. Chema Gil, CREDA-UPC-IRTA</li> <li>The effectiveness of apps from a consumer perspective: The Vegipedia case Elvi van Wijk-Jansen, LEI Wageningen UR</li> </ul>	June 2014
<b>Consumers Workshop 1</b>	Consumers	Aimed at identifying the main functionalities that the consumers would like to have in their apps to improve their shopping experience and product characteristics that costumers would like to know.	January 2014
<b>Consumers Workshop 2</b>	Consumers	First evaluation of TIC trial apps. The goal was obtain a feedback from a group of consumers on the first apps ready for the public: Tailored Information for Consumers, Shopping List Recipe App and Push	January 2015

Info App.			
<b>Consumers Workshop 3</b>	Consumers	Open workshop to consumers to evaluate all TIC trial apps. The aim has been to assess if the apps are intuitive, if include all the functionalities required and if the information provided is relevant for consumers.	June 2015
<b>Steering comitee workshop</b>	Plusfresc steering com- mittee	Analyse the costumers needs and existing and futures supply chain information mechanisms	Jun 2013
<b>Workforce train- ing</b>	Plusfresc cashiers and informators	Instructions on how to use the new apps. Feedback received incorporated in future app ver- sions.	May 2015
<b>Meetings with supply chain stakeholders:</b>	Providers	Flspace project and apps presentation with the aim to receive feedback from partici- pants	May-December 2014
<b>New partners trainning</b>	Flspace new partners (CBT)	Introduction on Flspace and TIC apps	April 2014
<b>Press release</b>	National and interna- tional retail community	Project presentation	December 2013
<b>Presentation in SOUL-FI meeting</b>	Academia, Industry, IT developers	Flspace and apps presentation	September 2014

#### 4.8.2 Revision of material and utilization plans during project duration

In the table 17 the revision of material for the Consumer Trial stakeholders is summarized.

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Consumers in closed workshops	Presentations and enquiries for close workshops	Y	N	Y	Y	On request
Consumer workshop participants	Flyer with presentation of Fispace project and TIC trial (in Catalan)	Y	N	Y	Y	On request
Consumer workshop participants	Presentations and enquiries for open workshops	Y	Y	Y	Y	Own cloud
Consumers, general associations	Flyers and presentations	Y	Y	Y	Y	Own cloud
Other-takeholders	Flyers and presentation	Y	Y	Y	Y	Own cloud
New incoming partners from open call	Flyers and presentation	Y	Y	Y	Y	Own cloud
Software developers	Implementation scenarios	Y	N	Y	Y	Deliverable D400.2: Progress report on trial experimentation and App development and initial plan for Phase 3 rollout
Software developers	Fispace technical architecture	Y	N	N	Y	Bitbucket: <a href="http://dev.fispace.eu/doc/wiki/Home">http://dev.fispace.eu/doc/wiki/Home</a>

Target group	Type of material	Availability for project internal use (own use and partners)	Availability for distribution to external target group	General information	Dedicated material	Located
Software developers	App development tutorial	Y	N	N	Y	Bitbucket: <a href="https://bitbucket.org/fispac/core/wiki/Home">https://bitbucket.org/fispac/core/wiki/Home</a>

Table 17 Provision of material from the Consumer trial

Besides the material provided to customers, information from customers was used as feedback received from the three workshops. To get this information, customers were asked about the usefulness of the applications developed or to be developed, potential improvements, strengths and weaknesses of the approach and the methodology used, etc.

This material is attached to the notes taken by the organizers of the workshops on the number of questions the customer asks while using the application, average time employed to retrieve information of products, willingness and interest of the users during the experiments, etc.

With this information, a report of workshop results was written and used as an internal document for the extraction of requirements for the design and modification of the released applications.

## 5 Transfer of activities and sustainability actions for post-project period

By month 30, when Flspace project officially ends, both the phase 3 projects/developers and on-going activities in community building will be taken over by the main technical partners (i.e. specifically beneficiaries active in WP 200<sup>20</sup>) and will be supported by the Flspace Foundation, under the agreement it is granted resources on best effort basis by the main technical partners.

The Phase3 issue tracker subgroup will be kept open during Phase3<sup>21</sup> (till September 2016). For this period a Technical Support Responsible (TSR) will be named each two months (between the main technical partners) to assign new issues opened in the Phase3 Bitbucket issue tracker group.

To ensure a smooth transfer procedure, an information package is delivered to the Flspace Foundation and main technical partners by the end of the project:

- Links and access to video and knowledge materials collected and published throughout the project)
- Extract from Bitbucket of Phase3support issues opened during the project extension
- Reports and statistics about webinars and training sessions
- Stakeholders and contact list
- Webinars/conference calls to introduce the tools used throughout the project for knowledge transfer and community building

<sup>20</sup> Beneficiaries active in Flspace WP 200 are the following: ATB, ASTON, ATOS, IBM, KOC, LimeTri, NKUA, TOG, UDE, UPM. However, specifically ATOS (Front End, SDK, SDI), IBM (BCM, EPM, Store, CSB) and KOC (SPT) will overtake the coordination of tasks, due to their key role as WP and Task leaders in WP 200.

<sup>21</sup> With the comment that beginning of April 2016 this process will be re-assessed and:  
 -based on the status of the MVP, the usage of the Experimentation Environment and Phase3 issue tracker will be re-evaluated  
 -if the Foundation possess the necessary funds, it will continue to take care of the Phase 3 process.



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## 6 Conclusions

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As stated in [section 2](#) and similarly in D500.1.4 and D500.1.1, Flspace built a community for exploitation purposes: the community of App developers that nurture the Flspace App store with many and diverse Apps, and a community of users/Business Architects who would like to use the Flspace App store to build their B2B solutions.

The activities performed during year 1 were aligned with the plan defined at the beginning of the project and were successful in implementation and results. This has been measured by participation in the Open Call (102 participants), results of Phase 3 projects related to Flspace (5 projects linked to Flspace) and amount of knowledge transfer activities performed by all the use case trails, WP500 and also WP200 and WP300.

During the second year of Flspace project (and the extension period), the focus has been on supporting Phase 3 projects/accelerators. Objectives during this period were generally reached, even if slightly delayed due to the technical issues faced. Ecosystem incubation activities were aligned to the pace of the technical development of the platform, such as:

- Preparation of best practices and examples from Flspace pilots
- Reference implementation of an App
- Preparation of online educational materials
- Q&A webinars for developers
- F2F training for trainers and developers
- Creation of Phase3 Bitbucket issue tracker group
- Review of website and documentations

The ecosystem incubation was supported till M30 based upon these activities. It was also foreseen for this year to engage further with business actors, which is going to be accented towards the commercialisation of the platform and supported by the Foundation.

Through the activities of the Foundation the outreach to user communities will continue, ensuring the sustention and enlargement of the Flspace innovation ecosystems.

## **7 Annex I - Phase 3 Accelerator projects using Flspace Specific Enabler**

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### **7.1 SmartAgriFood2**

Food security, environmental sustainability and food safety are pressing global challenges. Smart Farming, which intelligently combines sensor-based data services and ICT applications, can contribute significantly to meeting these challenges. However, developments in smart farming are hampered by roadblocks such as lack of data sharing beyond national/regional borders, interoperability issues and lack of infrastructure investment. The FI-PPP phase 1 project SmartAgriFood developed a conceptual, cloud-based architecture for Smart Farming based on FI-Ware Generic Enablers. The Phase 2 project Flspace delivered a fully-functional FI platform for business collaboration with a small number of Apps showcasing how this will work. The aim of SmartAgriFood2 is to further leverage the ecosystem that was established in these projects to support SMEs and web-entrepreneurs in developing a large number of smart farming FI services and applications with high end user take-up. This will be achieved through an open call (4M€) for application development, in particular for the arable, livestock and horticulture farming subsectors. The call will be jointly coordinated with ICT-AGRI ERA-NET through which additional European regional funds will be leveraged (>1.5M€). SMEs and web entrepreneurs will be assisted in the commercialisation and development of European wide end-user markets for their new applications. The focus of the project will be on the implementation of a milestone and mentoring programme involving guidance of SMEs by FI-PPP, Agri-ICT and exploitation experts. This programme consists of three progressive stages, where only the most successfully evaluated SMEs will proceed and secure funding for subsequent stages. Optimal impact will be achieved by utilising partners' expertise in open call management, their networks in the agri-food sector and particularly the EBN network reaching >65.000 innovative start-ups and >250.000 SMEs across Europe.

### **7.2 Flnish**

This project will utilise technologies of the Future Internet PPP programme to enable the development and operation of intelligent systems for supply chains of perishable products such as food and flowers. The project includes an ecosystem that brings together: i) business needs of user communities and ii) creative ideas & technological opportunities of software SMEs and web-entrepreneurs. The corner stones of this ecosystem are regional clusters that include close synergies with regional developments and policies that are embedded in European networks. Flnish will use the Flspace platform as a basis and aims to drastically enlarge the number of services/applications available in the Flspace store by involving through open calls SMEs and web-entrepreneurs as developers. As such, the Flnish project will enable seamless B2B collaboration and it will empower companies including SMEs and new players to set up and participate in new regional, horizontal and vertical collaboration quickly and at minimal costs. By doing this, Flnish wants to give an impulse to the shift from cost-driven to value-based, information-rich supply chains, which will significantly increase the added value, competitiveness and sustainability of the domain. More specifically, Flnish aims to:

1. Empower small & innovative ICT players to develop high-quality and high-impact solutions for food and flower supply chain networks based on technologies of the FI-PPP programme;

2. Develop a large set of innovative and technologically challenging services and applications for virtualisation, connectivity and intelligence of food and flower supply chain networks;
3. Implement and validate the technologies and concepts developed in the FI-PPP;
4. Support SMEs in creating high-impact apps with Future Internet applications and helping to market their apps cross-border in specialised EU markets and beyond;
5. Ensure business value of services/applications for collaborative business networks in food & flower industry.

### 7.3 Fractals

The purpose of FRACTALS is to support the community of innovative ICT SMEs and Web Entrepreneurs to harvest the benefits of Future Internet Public Private Partnership initiative, by developing applications with high market potential, addressing the needs of the agricultural sector. This support is going to be multi-dimensional in the sense that it aims to span beyond grant assistance to also include:

1. the technical capacity building of ICT SMEs and Web entrepreneurs with respect to developing applications based on FI-PPP infrastructures
2. the testing and validation of applications in an open innovation context (by involving end-users in the testing/validation assignment through a Living Labs environment) and
3. clustering and mentoring services related to entrepreneurship and venture capital finance.

FRACTALS Call will be open to all European SMEs and web entrepreneurs but will additionally focus on areas which are considered as “white spots” with respect to FI-PPP Phase 1 and 2 (Balkans, South East Europe). The Open Call will employ an innovative evaluation method that eliminates personal bias of evaluators, ensuring transparency, equal treatment of all applicants and short time-to-project, tailor-made to the needs of ICT SMEs. FRACTALS is a community-driven project, bringing together 4 ICT SME Associations and linking them with industrial and research partners with leading roles in previous FI-PPP projects. Thus, both participation of SMEs in the Open Call and know-how regarding existing FI-PPP infrastructure (GEs and SEs) are ensured. Last but not least, FRACTALS is coordinated by a funding agency with vast experience in managing Open Calls and monitoring co-funded projects.

### 7.4 SpeedUp\_Europe!

SpeedUp Europe! is an end-to-end support programme targeting entrepreneurs in the field of Future Internet and related products and services, covering the entire entrepreneurial journey from idea inception to prototype development and public-private funding. The project will provide specific coordination and support actions for team formation, seed funding, coaching/mentoring/training and finally access to crowdfunding, EU financing and Risk-Finance.

The project will issue and manage a call to allocate 5.6M Euros of subgrants for projects developing innovative services based on the FI-WARE generic enablers in the areas of Agri-business, Smart City and CleanTech. The project is supported by a combination of virtual tools (online platform for matchmaking, idea generation and call management) and a series of physical workshops organized across Europe, where entrepreneurs can meet, grow their ideas, develop their product and receive feedback from customer, partners and investors.

The consortium assembled for this 24 month project includes leading European start up incubators, business accelerators and other SME support organizations from the Nordics, Benelux and German regions, including crowdfunding and VC funding specialists. The project will also interact closely with key stakeholders such as industry clusters, national innovation agencies and large corporates in the three target domains. The project will reach out to multiple entrepreneurial communities across Europe and organize events with broad coverage, such as an European Entrepreneurship Summit and an inducement prize for the best projects.

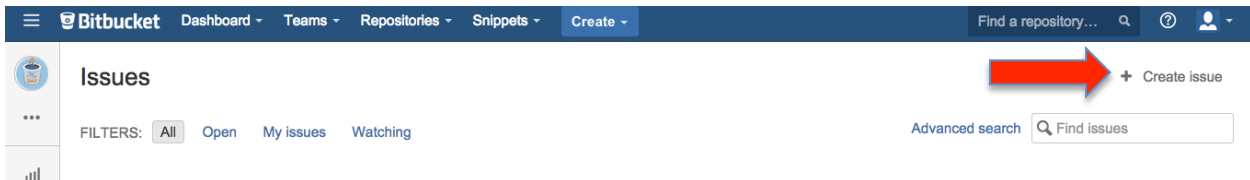
The data collected during the project will allow to research new theories about the impact of support programmes on entrepreneurial innovations, based on the type of support consumed by each team and the outcome achieved by each project. These learnings will be used to develop further recommendations toward European policy makers.

## 8 Annex II – Phase3 technical support description

### 8.1 Description of technical support

Steps to create an issue:

- Create a user account in [bitbucket](#) if you do not have one already
- Go to <https://bitbucket.org/flspace/phase3support/issues>
- Press the + Create issue link to create an issue



- Explain the encountered problem
- In the title mention your accelerator project name
- Assign the issue to the Technical Support Responsible (TSR)

### 8.2 Service Standards

#### Availability

The following requests types are identified as valid:

- Incident Management of Flspace related issues
- Problem management of Flspace related issues

Requests are going to be rejected if:

- The raised issue is out of scope of FlSpace project
- Requests are submitted directly by developers

Procedure for rejection:

Issues are rejected by the first person in the issue management flow identifying one of the above two cases.

- If the issue raised is not relevant for the project, choose invalid as status in Bitbucket and provide a comment to indicate the reason. If the submitted issue is FIWARE related please also close it with invalid status and in the comment mention that FIWARE related questions have to be submitted to the FIWARE accelerator coaches.
- If an issue is received directly from developers through Bitbucket/or other personal channels (email etc.) it has to be rejected and submitted through the accelerator technical team.

#### Response time and resolution time

The first assignment of an issue within 24hours.

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After assignment a first response within 48hours mentioning the necessary resolution time/or indicating the reason if resolution is not possible.

**Issue management steps:**

Open: After assignment issues receive Open status

Resolved: As soon as an issue is solved change the status to resolved

Invalid: Change the status to invalid in case of issues to be rejected

On hold: Choose this status if the resolution of the issue needs longer period than 48h.

**8.3 Duration**

This service enters into force the 1<sup>st</sup> of April 2015 and is maintained till the 30<sup>th</sup> September 2015.

**8.4 Roles and responsibilities**

Issues are being assigned to the following task leaders and technical architects based on their nature and content.

1<sup>st</sup> level Assignment of issues**WP500**

Task 510 – EnoLL, iMinds

Technical team contacts**WP200**

Task 220 Front End - ATOS

Task 230 Store - IBM

Task 240 B2B - IBM

Task 250 SDI - ATOS

Task 260 CSB - IBM

Task 270 Security - KOC

Task 280 SDK – ATOS

**WP300**

Experimentation Environment - KOC

**Architectural issues**

Technical Architects (TA)

